

ENVIRONMENTAL ASSESSMENT

FOR

SM WRIGHT PROJECT

**WITH IMPROVEMENTS TO
UNITED STATES HIGHWAY (US) 175 (SM WRIGHT FREEWAY):
FROM INTERSTATE HIGHWAY (IH) 45 (JULIUS SCHEPPS) TO STATE HIGHWAY (SH) 310 NORTH
OF BUDD STREET;
A NEW LOCATION ROADWAY
FROM SH 310 (EAST OF BEXAR STREET) TO IH 45 (JULIUS SCHEPPS);
and (IH) 45 (JULIUS SCHEPPS):
FROM SOUTH OF LAMAR STREET TO US 175 (SM WRIGHT FREEWAY)**

CITY OF DALLAS, DALLAS COUNTY, TEXAS

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081

**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
and
TEXAS DEPARTMENT OF TRANSPORTATION**

June 2013

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1 EXECUTIVE SUMMARY

2
3 This Environmental Assessment (EA) examines the social, economic, and environmental impacts
4 associated with the proposed roadway improvements to the existing SM Wright Freeway/United States
5 Highway (US) 175 in Dallas County, Texas. The proposed project is generally triangular in nature and
6 would include improvements to the existing SM Wright Freeway/US 175, from IH 45 to north of Budd
7 Street (2.2 miles) and to the CF Hawn Freeway (US 175) from east of Bexar Street to IH 45 (1.5 miles).
8 The proposed improvements to the CF Hawn Freeway (US 175) and the proposed direct connecting
9 ramps to IH 45 would necessitate the construction of a new interchange with IH 45 and the
10 widening/restriping of IH 45 from south of Lamar Street to the SM Wright Freeway/US 175 (2.3 miles)
11 (see **Appendices A-1, A-2, and A-3**). Unless otherwise defined, the project study area (or 'project area')
12 generally includes the proposed project footprint and adjacent land within the City of Dallas.

13
14 The existing design of US 175 does not meet current urban freeway design standards, nor does it
15 adequately accommodate current traffic demand. The proposed project would satisfy these identified
16 deficiencies while considering the local area socioeconomics and topography, the future travel demand,
17 and other infrastructure improvements in the area.

18
19 The discussion of the proposed project in the 2003 Trinity Corridor Balanced Plan as well as information
20 gained from the Trinity Corridor MIS study aided in the development of the proposed Build Alternative
21 evaluated in this EA. The proposed project improvements include the westerly extension of CF Hawn
22 Freeway (US 175), and the construction of direct connecting ramps for an interchange at CF Hawn
23 Freeway (US 175) and IH 45. After construction of the proposed CF Hawn Freeway (US 175)/IH 45
24 interchange is completed, the existing facility north of the realigned US 175 would be downgraded from a
25 six-lane freeway with frontage roads (SM Wright Freeway) to a low speed, signalized six-lane urban
26 arterial (the proposed SM Wright Parkway) (see **Appendix A-4** for proposed typical sections). The Build
27 Alternative also includes the reconstruction of cross streets in accordance with roadway designs set forth
28 within city thoroughfare plans, as well as the reconstruction of ramps to meet current TxDOT design
29 criteria and to improve traffic operational performance. Approximately 32.4 acres of additional right-of-
30 way (ROW) are necessary for project implementation, varying in width from approximately 165 to 658
31 feet.

32
33 The proposed project is included in and is consistent with the regional *Mobility 2035: The Metropolitan*
34 *Transportation Plan (MTP) for the Dallas-Fort Worth Area* and the Fiscal Year (FY) 2013-2016
35 Transportation Improvement Program (TIP).

1 On June 13, 2013, a new MTP, Mobility 2035 – 2013 Update, was adopted by the RTC of the NCTCOG.
2 This EA was prepared during the MTP transition period between Mobility 2035 and Mobility 2035 – 2013
3 Update.

4
5 A consistency memo will be prepared to analyze and document differences between Mobility 2035 and
6 Mobility 2035 – 2013 Update. The results and conclusions of the analyses based on Mobility 2035 are
7 presented in this EA.

8
9 This EA evaluated the proposed project's direct, indirect, and cumulative impacts to natural and cultural
10 resources and community issues. A summary of findings is presented below.

11
12 **Natural Resources:**

13 • ***Lakes, Rivers, and Streams*** – The proposed project is located within the Trinity River
14 floodplain or on adjacent terrace alluvial deposits. The proposed project would not cross any
15 naturally-occurring stream channels. Storm runoff in this urbanized area enters an
16 underground storm system with outfalls in or near local floodplains. The only new stream
17 crossing by the proposed project would be associated with the proposed CF Hawn Freeway
18 (US 175) direct connecting (DC) ramps, which would bridge over an ephemeral man-made
19 drainage ditch. The existing and proposed CF Hawn Freeway (US 175) and IH 45 facilities
20 would be on structure, and the proposed SM Wright Parkway would not affect the existing
21 storm drainage system.

22
23 • ***Waters of the U.S., including Wetlands*** – The project would not require a USACE Section
24 404 Permit; therefore, a Section 401 Certification would not be required. Additionally,
25 Executive Order 11990 on wetlands would not apply because no wetlands would be
26 impacted. The project does not involve work in or over a navigable water of the U.S.;
27 therefore, Section 10 of the Rivers and Harbors Act does not apply.

28
29 • ***Floodplains*** – The overlap between the proposed project and the 100-year floodplain (Zone
30 AE) is approximately 46.8 acres (see **Appendix B-1**). However, only 2.5 acres of this
31 overlap occurs at-grade, and the remaining project/floodplain overlap (44.3 acres) is
32 associated with bridge or ramp structures that would be elevated above the expected water
33 surface level for the 100-year flood. The hydraulic design for the proposed improvements
34 would be in accordance 23 Code of Federal Regulations (CFR) Part 650 (Bridges, Structures,
35 and Hydraulics) and with current TxDOT and Federal Highway Administration (FHWA) design
36 policies and procedures. Further, the proposed project would permit the conveyance of the
37 design year flood, without causing substantial damage to the roadway, stream, or other

1 property. The project would also not increase the base flood elevation to a level that would
2 violate applicable floodplain regulations or ordinances.

- 3
- 4 • **Water Quality** – The proposed project crosses within five miles upstream of the upper Trinity
5 River (Segment 0805), which is classified as a threatened or impaired water for bacteria and
6 Polychlorinated Biphenyls (PCBs) and dioxins in edible tissues on the 2010 Texas 303(d) list
7 (November 18, 2011). Because this project would disturb more than one acre, TxDOT would
8 be required to comply with the Texas Commission on Environmental Quality (TCEQ) Texas
9 Pollutant Discharge Elimination System (TPDES) General Permit for Construction Activity.
10 The project would also disturb more than five acres; therefore, a Notice of Intent would be
11 filed to comply with TCEQ stating that TxDOT would have a Storm Water Pollution
12 Prevention Plan (SW3P) in place during the construction period. Construction would also
13 comply with TCEQ’s best management practices (BMPs) and other erosion, sedimentation,
14 and pollution control practices.
 - 15
 - 16 • **Vegetation and Wildlife Habitat** – The proposed project would result in permanent impacts
17 to approximately 7.5 acres of riparian/bottomland forest and 1.08 acres of upland forest (see
18 **Appendix B-2** for impact locations and details, **Appendix B-3** for representative site
19 photographs, and **Appendix B-4** for woodland data forms). In accordance with TPWD,
20 mitigation was considered for impacts to these areas. In response to the TPWD
21 recommendation, TxDOT will coordinate with appropriate City of Dallas staff to determine if
22 mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within
23 the planned Great Trinity Forest area (see **Section 5.1.5** and **Section 5.2.3**). Implementing
24 the proposed project is not anticipated to affect the migration patterns of birds. Areas
25 affected by the proposed improvements would be field verified for the presence of migratory
26 birds prior to project construction.
 - 27
 - 28 • **Threatened/Endangered Species** – The proposed project would have no effect on the
29 federally listed threatened or endangered species in Dallas County. The proposed project
30 would impact the preferred habitat for one state-listed threatened species (timber/canebrake
31 rattlesnake) and three state-listed species of concern (cave myotis bat, plains spotted skunk,
32 and the Texas garter snake). Due to the proposed project area containing habitat for the
33 state threatened timber/canebrake coordination with TPWD was required (see **Appendix B-5**
34 for the TPWD Coordination letter). Potential impacts to habitat would be minor, and the
35 potential for encountering the species during construction is low (see **Section 5.1.6**).
36 Potential habitat for three species of concern, the cave myotis bat, the plains spotted skunk
37 and the Texas garter snake is present within the proposed project area. Impacts to potential

1 habitat would be minor, and the potential for encountering the species during construction is
2 low (**Table 5-1**). Overall, the proposed project would not impact state-listed threatened
3 species or species of concern.

- 4
- 5 • **Topography and Soils** – The project area can be characterized as flat to gently dipping
6 unconsolidated terrace and floodplain deposits adjacent to the Trinity River. The project area
7 is located entirely within the city limits of Dallas and is exempt from the provisions of the
8 Farmland Protection Policy Act (FPPA).
 - 9
 - 10 • **Air Quality** – An analysis of expected carbon monoxide (CO) emissions indicates the
11 proposed project would not cause or contribute to any new localized CO violations or
12 increase the frequency and severity of any existing CO violations. The proposed project is
13 included in and is consistent with the area's financially constrained long-range MTP (*Mobility*
14 *2035*) and the FY 2013-2016 TIP. The U.S. Department of Transportation (USDOT)
15 (FHWA/Federal Transit Administration [FTA]) found the MTP to conform to the SIP on July
16 14, 2011 and found the TIP to conform on November 1, 2012.
 - 17

18 A quantitative mobile source air toxics (MSATs) analysis was performed which indicates that
19 2035 MSAT emissions related to the proposed project would substantially decrease when
20 compared to 2012 (i.e., a 33 percent decrease in total MSAT emissions from 2012 to 2035).
21 A decrease in total MSAT emissions is expected even with the projected increase in vehicle
22 miles traveled (VMT). This is a result of the Environmental Protection Agency's (EPA)
23 national air emissions control programs that are projected to reduce MSAT emissions by 72
24 percent between 1999 and 2050.

25

26 **Community Impacts:**

- 27 • **Regional and Community Growth** – The estimated percent change in population growth
28 from 2005 to 2040 for the City of Dallas is 31 percent. The estimated percent change in
29 population growth from 2005 to 2040 for the Dallas County is 44 percent. The Build
30 Alternative is necessary to support the regional and community growth in Dallas County and
31 the City of Dallas near the proposed project area.
- 32
- 33 • **Land Use** – Approximately 32.4 acres of land would be converted to transportation ROW,
34 which is comprised of the following types of land use: 4.93 acres undeveloped, 0.70 acres
35 developed residential, 25.58 acres developed non-residential, and 1.15 acres of a joint use
36 easement within the Union Pacific Railroad (UPRR) ROW.
- 37

- 1 • **Section 4(f) and 6(f) Properties** – The proposed project would require approximately 0.9
2 acre of ROW from the Dallas Independent School District (DISD) facility addressed 3701 S.
3 Lamar Street. The facility was formerly the Procter and Gamble Manufacturing Plant, which
4 has been determined eligible for listing in the National Register of Historic Places (NRHP), at
5 the local level of significance. On June 5, 2013, TxDOT completed consultation on effects to
6 this NRHP-eligible property with the State Historic Preservation Officer (SHPO) under Section
7 106 of the National Historic Preservation Act (NHPA). The coordination determined that the
8 proposed project would have “No Adverse Effect to the Eligible Former Procter and Gamble
9 Manufacturing Plant.” Due to the minimal nature of the proposed impact, a Section 4(f) *de*
10 *minimis* impact determination can be sought. TxDOT anticipates that the proposed project
11 would result in a *de minimis* determination by the Federal Highway Administration (FHWA) for
12 the Section 4(f) resource. See **Section 5.2.3** for details. In addition, there would be no loss
13 of park or recreation land because the proposed project does not require ROW acquisition
14 from either land use type; therefore, consideration under Section 6(f) is not required for these
15 resources.

- 16
17 • **Economic Impacts** – The projected employment growth rate from 2005 to 2040 for the City
18 of Dallas is 55 percent. The projected employment growth rate from 2005 to 2040 for Dallas
19 County is 58 percent. NCTCOG employment forecasts, which account for the cyclical nature
20 of employment changes (including economic recessions), predict future employment growth
21 for the City of Dallas as this municipality responds to increased demand spurred by
22 forecasted population growth. The Build Alternative would provide a portion of the additional
23 mobility necessary to support the increasing traffic associated with this projected growth.

24
25 It is anticipated that a range of 28 to 52 employees could experience job relocation or loss in
26 association with the impacted businesses. However, there appear to be sufficient future
27 employment opportunities of varying skill requirement intensities within the City of Dallas
28 based on information provided by the NCTCOG's Development Monitoring database and
29 interviews with Planning Officials from the City of Dallas. Minimization and mitigation efforts
30 enacted by the Texas Workforce Commission (TWC) and Workforce Solutions for Greater
31 Dallas (Workforce Solutions) are available to affected employers and employees. For these
32 reasons, substantial business and employee impacts are not anticipated.

- 33
34 • **Relocations and Displacements** – The proposed project would involve the displacement of
35 structures on 17 properties, including six residential, 10 commercial and one on UPRR ROW.
36 The six residential displacements would include six single-family residences. Four of the six
37 displaced single-family have been early acquired by the City of Dallas. The 10 commercial

1 properties and joint easement with the UPRR have an associated nine structures and six
2 billboards. Seven of the 10 commercial properties have businesses that would be potentially
3 displaced by the proposed project. However, two of the potential business displacements
4 and three of the six billboards have been early acquired by the City of Dallas. See **Table 5-9**
5 and **Appendix A-6** for displacement details and locations as well as **Appendix C-11** for Early
6 Acquisition Documentation. Based on the results of the replacement residential (see
7 **Table 5-10 and Section 5.2.5**) and commercial property searches (see **Section 5.2.5**), there
8 appear to be a sufficient number of vacant and developed properties to accommodate those
9 residences and businesses impacted by the proposed project. Relocation assistance and
10 compensation would follow in accordance with applicable state and federal requirements. It
11 is anticipated that a range of 28 to 52 employees could experience job relocation or loss in
12 association with the affected businesses. However, North Central Texas Council of
13 Government (NCTCOG) employment forecasts, which account for the cyclical nature of
14 employment changes (including economic recession), predict overall future employment
15 growth for the project area in response to increased demand stimulated by forecasted
16 population growth. Future employment opportunities are also expected based on the number
17 of future developments planned within the City of Dallas (see **Sections 5.2.5 and 7.4.5**); and
18 assistance to affected employees would be available through the Texas Workforce
19 Commission (TWC) and Workforce Solutions for Greater Dallas.

- 21 • **Access** – Although the proposed project would result in additional control of access
22 (consistent with TxDOT design criteria), alternative access routes to adjacent properties
23 would be maintained. In areas where existing access would be prohibited by the proposed
24 control of access, alternative access routes would be provided.
- 25
26 • **Community Cohesion** – Since neighborhoods represent a geographic unit that can be
27 readily identified by community members, a correlation of affected block groups to project
28 area neighborhoods was used to determine communities adjacent to the proposed project.
29 All of the potential residential displacements are located in one neighborhood or two Census
30 block groups (40/ 1 and 40/ 2), which have a combined population of 1,082 people. The loss
31 of six residential properties (four of which have already been early acquired by the City of
32 Dallas as explained in **Appendix C-11**) from the neighborhood is unlikely to negatively affect
33 the overall cohesiveness and nature of this community. Elementary school attendance zones
34 were also used as a means to determine potential communities adjacent to the proposed
35 project. All of the potential residential displacements would occur within the Charles Rice
36 Elementary School attendance zone. According to 2010 enrollment records, of the
37 approximate 510 students enrolled at Charles Rice Elementary School, approximately 97.8

1 percent were black or African-American, two percent were Hispanic and 0.2 percent were
2 white. The Charles Rice Elementary School attendance zone covers approximately 971
3 acres and is the largest attendance zone adjacent to the proposed project. A loss of six
4 single-family residential homes (four of which have already been early acquired by the City of
5 Dallas as explained in **Appendix C-11**) within an attendance zone of this size is unlikely to
6 negatively impact the overall cohesiveness and nature of its encompassed communities. A
7 positive impact of the proposed project includes enhanced community cohesion of the
8 communities in the project area resulting from the downgrade of SM Wright Freeway to the
9 proposed SM Wright Parkway. This change to the community would effectively 'turn back the
10 clock' to more closely approximate the situation that existed at the time the SM Wright
11 Freeway was originally constructed in the 1950s. That is, the preexisting condition to the
12 freeway was the Houston and Texas Central Railroad corridor, which predates urban
13 development in the South Dallas area (see **Section 5.2.7**).

- 14 • **Limited English Proficiency (LEP)** – Of the 11,596 persons within the Census block groups
15 located within 0.25 mile of the proposed project ROW, approximately 7 percent (776 people)
16 speak English less than “very well.” Steps have been and would continue to be taken to
17 ensure all LEP populations have access to programs, services, and information provided by
18 TxDOT.
19
- 20 • **Environmental Justice (EJ)** – For the 223 Census blocks and 18 Census block groups
21 containing the analyzed population within 0.25 mile of the proposed project ROW:
 - 22 ○ All 18 Census blocks contain minority populations of 50 percent or greater;
 - 23 ○ 217 Census blocks contain minority populations of 50 percent or greater;
 - 24 ○ According to the 2007-2011 American Community Survey Data, median household
25 incomes for the Census block groups ranged from \$10,893 to \$43,355; and
 - 26 ○ Thirteen block groups reported median household incomes below the Department of
27 Human Health and Services (HHS) 2013 poverty guideline (\$23,550) for a family of four.
28
- 29

30 There would be adverse disproportionate impacts to EJ populations associated with the proposed project.
31 However, the same EJ populations that would be adversely affected would benefit from the mitigation
32 commitments for these impacts, as well as, the proposed roadway improvements to improve safety,
33 operations, connectivity, and mobility. Any potential adverse impacts on EJ populations would be offset
34 in part by project related benefits and mitigation efforts as described in **Section 5.2.9**. The downgrading
35 of SM Wright Freeway to an at-grade, landscaped urban arterial would benefit the community cohesion in
36 an area that is currently divided by an elevated freeway.
37

- 1 • **Public Facilities and Services** – The proposed project would generally improve mobility to
2 public facilities and services within the proposed project area and would not displace any of
3 the facilities listed in **Table 5-17**.
4
- 5 • **Aesthetic Considerations** – Due to the proximity of the NRHP-listed neighborhoods
6 adjacent to the proposed SM Wright Parkway, efforts would be made to preserve the historic
7 character of the adjacent neighborhood. The proposed improvements are anticipated to
8 enhance the aesthetic character of the surrounding communities. The SM Wright Parkway –
9 Landscape and Aesthetic Concept Plan would include enhanced landscape plantings along
10 the streetscape and at key intersections that would provide an inviting environment for
11 pedestrian and motorists. Other design aspects would include landscaping and gateway
12 monuments that represent the historic character of the adjacent neighborhoods. The Plan
13 would be consistent with local trail and bike plans as well as compliant with the Texas
14 Accessibility Standards. Aesthetic structural and landscape design considerations would be
15 incorporated during final project design Plans, Specifications, and Estimates.
16
- 17 • **Noise** – The proposed project would result in traffic noise impacts. Sixteen noise barriers are
18 considered feasible and reasonable, benefiting 136 receivers (see **Appendix C-10**).
19
- 20 • **Traffic Operations** – The realignment of the existing US 175 freeway as well as the removal
21 of the 25 mph, accident-prone curve at the US 175/SH 310 interchange, would enhance
22 operations of the US 175 facility by improving the design speeds through the area. This
23 realignment of US 175 would manage congestion in the freeway-to-freeway traffic traveling
24 west from US 175 to IH 45 and east from IH 45 to US 175. In addition, the associated
25 improvements to IH 45 would improve the existing weaving on the facility, from less than half
26 a mile to approximately two miles. The downsizing and downgrading of the existing SM
27 Wright Freeway to a six-lane arterial, known as the proposed SM Wright Parkway, would
28 provide an alternate route throughout the area for local traffic, which would also assist in
29 managing traffic congestion.
30

31 **Cultural Resources:**

- 32 • **Archeological Resources and Non-Archeological Historic Resources** – Regarding non-
33 archeological historic resources, a 2010 reconnaissance survey identified 585 historic-age
34 resources within the project APE, of which one property and one historic district were
35 determined eligible for listing in the NRHP. In addition, two NHRP-listed historic districts
36 were identified within the APE. However, TxDOT determined with SHPO concurrence that
37 the proposed project would have no adverse effects to these resources. A design change

1 made due to comments at the January 2013 Public Hearing resulted in expansion of the APE
2 to include one additional NRHP-eligible property. The proposed project would require
3 approximately 0.9 acre of ROW from the DISD facility addressed 3701 S. Lamar Street.
4 The facility was formerly the Procter and Gamble Manufacturing Plant that has been
5 determined eligible for listing in the NRHP, at the local level of significance. On June 5, 2013,
6 TxDOT completed consultation on effects to this NRHP-eligible property with the State
7 Historic Preservation Officer (SHPO) under Section 106 of the NHPA. The coordination
8 determined that the proposed project would have “No Adverse Effect to the Eligible Former
9 Procter and Gamble Manufacturing Plant.” See **Section 5.3.1** for details. Regarding
10 archeological resources, TxDOT archeologists completed their initial review of this project on
11 November 29, 2011 determining that the project would have no effect or no adverse effect on
12 archeological sites or cemeteries that would be afforded further consideration under cultural
13 resource laws. No consultation with the THC/TSHPO was required. In addition, no public
14 controversy exists regarding the project’s potential impacts on archeological sites or
15 cemeteries. Since 2011, there have been minor revisions to the proposed project with
16 additional areas of new proposed ROW and easement. A project coordination request has
17 been sent to TxDOT and coordination is ongoing.

18 19 **Other Resources/Issues:**

- 20 • ***Hazardous Materials*** – A review of the TxDOT-specified federal and state environmental
21 databases (and subsequent site visit) identified six sites which were determined to pose a
22 high risk to ROW acquisition and/or construction of the proposed project (**Table 5-25** and
23 **Appendix A-6, Pages 4 and 7**). Based on the review of the Phase I ESA Reports completed
24 for the City of Dallas from the Fall of 2009 through the Spring of 2010 for the Trinity Parkway
25 Project study area, which overlaps into the proposed project area, there were 25 additional
26 sites that were deemed to have REC and/or pose a high risk to ROW acquisition and
27 construction of the proposed project (**Table 5-25** and **Appendix A-6, Pages 4 and 7**). Refer
28 to **Section 5.4.1** for detailed site descriptions and **Appendix A-6** for site locations. Field
29 reconnaissance showed no surface evidence of contamination. It is recommended that
30 subsurface investigations (soil boring samples, ground water samples, etc.) be conducted
31 within the vicinity of these sites prior to ROW acquisition and construction to determine if
32 remediation, in accordance with federal, state, and local laws, is necessary. It is further
33 recommended that any pre-1978 displaced buildings be inspected for lead based paint (LBP)
34 and asbestos containing materials (ACM) prior to demolition; that certain bridges be analyzed
35 for ACM prior to demolition; and that certain steel beam(s) associated with the bridges be
36 analyzed for LBP prior to demolition. Measures would be taken during construction to
37 prevent, minimize, and control the spill of hazardous materials and ensure workers’ safety.

- 1
- 2 • **Airway-Highway Clearance** – Due to the distance between the project area and the nearest
- 3 runway facility, no impacts to airway-highway clearance are anticipated.
- 4
- 5 • **Coastal Zone Management Plan** – The proposed project is not located within the Texas
- 6 Coastal Zone Management Program boundary; therefore, the proposed project is not subject
- 7 to the guidelines of the associated plan.
- 8 • **Wild and Scenic Rivers** – There are no wild and scenic rivers in the proposed project area;
- 9 therefore, there would be no impacts to a river designated as a component or proposed for
- 10 inclusion in the national system of Wild and Scenic Rivers.
- 11

12 **Indirect Impacts:**

13 The three broad categories for which indirect impacts are assessed are (1) encroachment-alteration

14 impacts, (2) project-induced land use change, and (3) impacts resulting from project-induced land use

15 change. These three types of impacts were evaluated within an established indirect impacts area of

16 influence (AOI) (see **Appendix D-1**) and in accordance with the TxDOT guidance on conducting indirect

17 and cumulative impact analyses (i.e., TxDOT ICI Guidance),¹ the National Cooperative Highway

18 Research Program (NCHRP) Report 466,² and NCHRP Report 25-25, Task 22.³ The indirect impacts

19 analysis involved exploring the cause-effect relationships between impact causing actions and the goals

20 and notable features of the AOI to determine if indirect impacts are likely, and, if so, if those impacts are

21 substantial. The results are summarized below:

22

- 23 • **Encroachment-Alteration Impacts** – Using the qualitative inference technique and various
- 24 cartographic techniques (as outlined in NCHRP Report 466), it was determined that
- 25 substantial ecological and socioeconomic encroachment-alteration impacts are not
- 26 anticipated.
- 27
- 28 • **Project-Induced Land Use Change** – Methodology from NCHRP 25-25, Task 22, as well as
- 29 information gained via interviews with City of Dallas planners, as well as data/maps received
- 30 from city planners, were utilized in the identification of 14 potential locations of project-
- 31 induced land use change (see **Appendix D-4**). These 14 locations account for approximately
- 32 10.8 acres of project-induced development/redevelopment for properties ranging in size from
- 33 0.2 acre to 3.6 acres. AOI conditions relative to properties adjacent to the proposed SM
- 34 Wright Parkway suggest a predominance of “strong” change indicators/categories; however,

¹ (September 2010), TxDOT's *Revised Guidance on Preparing Indirect and Cumulative Impact Analyses*.

² TRB (2002), NCHRP Report 466 *Desk Reference for Estimating the Indirect Effects of Proposed Transportation Projects*.

³ TRB (2007), NCHRP Report 25-25, *Task 22, Forecasting Indirect Land Use Effects on Transportation Projects*.

1 it is important to note that feedback from city planners suggested that future development
2 generally throughout the AOI is less likely to be influenced by the proposed improvements
3 than by market forces and regulations established within city planning documents.
4

- 5 • **Impacts Resulting from Project-Induced Land Use Change** – A prescreening process
6 determined which notable features, goals, and other resources associated with the 14 sites of
7 potential development warranted additional analysis. Based on the results of this
8 prescreening process (in accordance with the TxDOT ICI Guidance), the only notable impact
9 is the potential loss of 3.7 acres of upland forest resources. However, this potential impact is
10 not considered substantial because upland forest resources represent low-quality wildlife
11 habitat within this highly urbanized/fragmented environment. Also, assuming the continued
12 implementation of existing city ordinances to ensure environmental compliance (e.g., city tree
13 preservation ordinance), substantial impacts are not anticipated to upland forest resources or
14 any other resources within the AOI as a result of project-induced changes in land use.
15
- 16 • **Summary** – No substantial encroachment-alteration impacts, project-induced land use
17 change, or impacts resulting from project-induced land use change are anticipated.
18

19 **Cumulative Impacts:**

20 Cumulative impacts were assessed for the following resources/issues: biological resources
21 (vegetation/wildlife habitat), air quality, and land use. Each resource/issue was assessed within a
22 specified resource study area (RSA), as listed in **Table 7-1** and shown in **Appendix E-1**. A brief
23 summary of cumulative impacts (direct impacts + indirect impacts + impacts from reasonably foreseeable
24 development, transportation, and flood control projects) is provided below.
25

- 26 • **Biological Resources: Vegetation/Wildlife Habitat** – Within the RSA for biological
27 resources (approximately 16,858.1 acres), anticipated cumulative impacts would affect
28 approximately 146.8 acres of riparian/bottomland forest, and 6.3 acres of upland forest. The
29 project-related contribution to these totals would be 7.5 acres for riparian/bottomland forests
30 (5.1 percent) and 5.1 acres for upland forests (80.9 percent). In light of the abundance of
31 riparian/bottomland habitat within the RSA and government plans/programs to preserve
32 remaining habitat within the Trinity River and White Rock Creek floodplains, the foregoing
33 cumulative impacts are not considered substantial. Cumulative impacts to upland forests are
34 also insubstantial because these forest resources occur as part of highly fragmented habitat
35 within urban landscapes; impacts to this resource would be minimized by compliance with
36 city site development and tree preservation ordinances. Although no project-related impacts
37 are expected to any rare wildlife species, riparian and bottomland forest habitat is preferred

1 by the state-listed timber/canebrake rattlesnake and two species of concern (Texas garter
2 snake and plains spotted skunk).

- 3
- 4 • **Air Quality** – The proposed project is included in and is consistent with the area's financially
5 constrained long-range MTP (*Mobility 2035*) and the FY 2013-2016 TIP. With regard to
6 project-related impacts relating regional compliance with EPA's eight-hour standard for
7 ozone, the USDOT (FHWA/FTA) has determined the MTP and the TIP to conform to the
8 State Implementation Plan (SIP). Other reasonably foreseeable planned transportation
9 improvements are included in the TIP and are consistent with the MTP, all of which were
10 included in the finding of SIP conformity. Although increased development and urbanization
11 would likely have a negative effect on air quality, the cumulative impact of reasonably
12 foreseeable future growth and urbanization on air quality would be minimized by enforcement
13 of federal and state regulations by the EPA and TCEQ. In particular, EPA's vehicle engine
14 and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions of
15 on-road exhaust emissions including CO, MSATs, and ozone precursors (volatile organic
16 compounds [VOC] and nitrogen oxides [NO_x]).
 - 17
 - 18 • **Land Use** – Land use is not a 'resource' such as forest habitat and clean air, but is the 'result
19 of decisions' about the use of land made initially by civic authorities (in terms of
20 comprehensive plans and zoning), followed by the property owner (operating within the
21 constraints of city plans and ordinances). The determination of whether a proposed change
22 in land use is adverse or beneficial may only be objectively judged within the planning/zoning
23 framework established by elected City of Dallas leaders, as reflected in planning/zoning
24 policies. Direct impacts of the proposed project would involve the conversion of
25 approximately 32.4 acres to transportation ROW/easement, of which 4.93 acres are
26 undeveloped, 0.7 acres are developed residential, 25.58 acres are developed non-residential,
27 and 1.15 acres would require a joint use easement with UPRR property. Approximately 10.8
28 acres could potentially be affected by project-induced land use change. Reasonably
29 foreseeable projects are reflected in the array of comprehensive land use and economic
30 plans relevant to the project corridor area, as well as regional transportation plans such as
31 the MTP and TIP. A review of relevant planning documents indicates that the proposed
32 project is mentioned specifically as a facilitating component of community, citywide, and
33 regional objectives. The proposed project was found to contribute toward achieving City of
34 Dallas objectives in comprehensive land use plans and regional transportation goals reflected
35 in the MTP and TIP, and therefore has beneficial cumulative impacts relating to City of Dallas
36 land use policies and related plans.
- 37

- 1 • **Community** – The demographic data presented in the discussion of community impacts
2 (**Section 5.2**) demonstrate the need for heightened sensitivity toward this predominantly
3 racial minority community, which is characterized by generally low household income.
4 Communities with such characteristics may be expected to be more deeply affected by the
5 impacts of the construction related to roadway improvements, and federal and state policies
6 require a closer look at transportation projects which impact such communities to ensure fair
7 treatment of EJ populations. The primary focus of evaluating impacts to an EJ community is
8 whether a proposed build alternative would result in a disproportionate impact to EJ
9 populations. South Dallas is predominantly an EJ population generally characterized by low-
10 income households. There is a strong historic/cultural element to this community (i.e.,
11 several historic neighborhood districts and historic structures). City of Dallas plans
12 emphasize projects/initiatives to improve the quality of neighborhoods by discouraging
13 alcohol-related businesses and encouraging retail and service businesses that service the
14 residential community. The area near Lamar Boulevard is viewed as an area that could be
15 revitalized economically with the advent of levee protection from the 100-year flood. City
16 plans also target specified areas and transportation intersections for business development.
17 Direct and indirect impacts of the proposed project would affect a total of 41.9 acres of land
18 use change for new ROW and project-induced development or redevelopment. Foreseeable
19 projects unrelated to the proposed project would affect a total of 551.4 acres in the
20 community RSA. The cumulative changes in land use, and associated impacts to the South
21 Dallas community, would be 593.3 acres. The proposed project would contribute 7 percent to
22 the cumulative impacts related to land use changes in the community. While total acreage of
23 land use change is only one indicator to be used in assessing the range of socioeconomic
24 and other community impacts that would accompany those land use changes, All anticipated
25 projects in the RSA are expected to effect long term objectives of the City of Dallas and
26 would contribute toward greater employment opportunities, increased community cohesion,
27 and improved aesthetic views within this EJ community.
- 28
- 29 • **Mitigation** – In terms of mitigation for potential cumulative impacts, the implementation of
30 regulatory control strategies and policies are assumed in relation to the proposed project and
31 other reasonably foreseeable projects. Any potential adverse cumulative impacts to
32 vegetation and air quality described above would be avoided or minimized by compliance
33 with applicable local, state, and federal mitigation requirements.
- 34

1 **Determination of Assessment**

2 The Build Alternative is recommended since, unlike the No-Build Alternative, it is responsive to the needs
3 for the transportation improvement project based on historic and projected population increases,
4 urbanization, and the existing inadequacy of the road network in the area.

5

6 The engineering, social, economic, and environmental investigations conducted thus far on the proposed
7 project, and presented in this EA as well as summarized above, indicate that the proposed project would
8 result in no significant impacts to the quality of the human or natural environment.

9

1.0 INTRODUCTION

1.1 The SM Wright Project

As part of the proposed project, roadway improvements are proposed to the existing SM Wright Freeway/United States Highway (US) 175, the CF Hawn Freeway (US 175), and Interstate Highway (IH) 45. For clarification purposes, the existing US 175 is known as the SM Wright Freeway from the existing IH 45 interchange to SH 310. In addition, the existing US 175 is also known as the CF Hawn Freeway south and east of SH 310. The portion of the existing IH 45 within the proposed project area is also known as the Julius Schepps Freeway.

The proposed project is generally triangular in nature, and would include improvements to three roadways. The proposed project improvements along the existing SM Wright Freeway/US 175 would extend from IH 45 to north of Budd Street (2.2 miles). The proposed improvements to the CF Hawn Freeway (US 175) would extend from east of Bexar Street to IH 45 (1.5 miles). The proposed improvements include the construction of a new interchange on IH 45 and the widening/restriping of IH 45 from south of Lamar Street to the SM Wright Freeway/US 175 (2.3 miles). All proposed improvements are located within the City of Dallas in Dallas County, Texas and are herein referred to as the 'proposed SM Wright Parkway' or 'proposed project'.

Table 1-1 lists the logical termini and approximate distances by project section and **Appendix A-1** provides a visual representation of these three roadway sections within the proposed project. **Appendix A-2** shows the Project Location Map on Aerial Photograph, and **Appendix A-3** shows the proposed project on the U.S. Geological Survey (USGS) Topographic Map. The proposed implementation timeline for this project would involve constructing the CF Hawn Freeway portion of US 175 as well as the DC ramps between US 175 and IH 45 and associated improvements along IH 45 first. This portion of the proposed project is also known as 'SM Wright Phase I' (which was formerly known as 'Trinity Parkway Phase I'). 'SM Wright Phase I' of the proposed project would be followed by the downsizing of the SM Wright Freeway portion of the project (also known as 'SM Wright Phase II').

TABLE 1-1. PROPOSED SM WRIGHT PARKWAY PROJECT SECTIONS

Section	From	To	Approximate Project Length
CF Hawn Freeway/US 175*	SH 310 (east of Bexar Street)	IH 45	1.5 miles
IH 45*	South of Lamar St	SM Wright Freeway/US 175	2.3 miles
SM Wright Freeway/US 175**	IH 45	US 175/SH 310 (north of Budd Street)	2.2 miles
Notes:			
*These sections of the proposed project are also known as 'SM Wright Phase I,' which was formerly known as 'Trinity Parkway Phase I.'			
**This section of the proposed project is also known as 'SM Wright Phase II.'			

1 Within the proposed project area, construction was completed on SM Wright Freeway in the late 1950s,
2 CF Hawn Freeway in the early 1960s, and IH 45 in the mid-1970s.

3
4 US 175 is an approximate 111-mile United States highway located entirely within the State of Texas. It
5 begins at IH 45 within the City of Dallas and terminates at US 69 in the Town of Jacksonville, Texas.
6 Approximately 2.5 miles of US 175 (the existing SM Wright Freeway and a portion of the CF Hawn
7 Freeway east of the US 175/SH 310 interchange) is included within the project area (**Appendix A-1**).

8
9 SH 310 is an approximate 7-mile state highway located entirely within Dallas County. It begins at the
10 interchange with US 175 in the City of Dallas and extends to its southern terminus with IH 45 in the Town
11 of Hutchins. Approximately 0.3 miles of SH 310 is included within the project area (**Appendix A-1**).

12
13 Historically, IH 45 was one of the first rural highways connecting south Texas to north Texas. The
14 approximate 285-mile interstate highway is located entirely within the State of Texas. Its northern
15 terminus is located at the interchange with IH 30 and IH 345 in the City of Dallas, and the southern
16 terminus is located in City of Galveston. The 1.5-mile section of IH 45 included in the project area
17 extends from the existing US 175 interchange south to the Trinity River (**Appendix A-1**).

18
19 This Environmental Assessment (EA) focuses on improvements to the previously discussed sections of
20 US 175, SH 310, and IH 45 collectively known as ‘the proposed project’ or ‘proposed SM Wright
21 Parkway.’ The project is located within the City of Dallas, south of the Central Business District.

22
23 The analyses conducted for the proposed project were based on data and methodologies associated with
24 the long-range metropolitan transportation plan (MTP) Mobility 2035 adopted by the Regional
25 Transportation Council (RTC) of the NCTCOG on March 10, 2011. The U.S. Department of
26 Transportation (USDOT) (FHWA/Federal Transit Administration [FTA]) found the MTP to conform to the
27 SIP on July 14, 2011 and found the TIP to conform on November 1, 2012. On June 13, 2013, a new
28 MTP, Mobility 2035 – 2013 Update, was adopted by the RTC of the NCTCOG. This EA was prepared
29 during the MTP transition period between Mobility 2035 and Mobility 2035 – 2013 Update.

30
31 A consistency memo will be prepared to analyze and document differences between Mobility 2035 and
32 Mobility 2035 – 2013 Update. The results and conclusions of the analyses based on Mobility 2035 are
33 presented in this EA.

1 **1.2 Project Definition Process: Funding Strategies**

2 An official decision regarding the exact funding mechanisms used to finance the reconstruction and
3 maintenance of the proposed project would occur at a later date. The North Central Texas Council of
4 Governments (NCTCOG) will be evaluating ways to assist in the funding of the proposed project including
5 the use of potential funding from Regional Toll Revenue (RTR) funds, which are derived from local
6 funding strategy legislation, and which fund projects using excess toll revenues generated from other
7 large Comprehensive Development Agreement (CDA) toll projects. Use of RTR funds would require
8 approval from the Regional Transportation Council (RTC), a sub-committee of NCTCOG. In addition, the
9 potential usage of Proposition 12 funding for the proposed project would also be evaluated by the RTC.
10 Finally, the Texas Department of Transportation (TxDOT) may allocate funds for preliminary engineering
11 and landscape design through TxDOT state rehabilitation funds as well as landscape and aesthetic funds.
12

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2.0 DESCRIPTION OF PROPOSED ACTION

2.1 Description of Proposal

The proposed project would include improvements to the existing SM Wright Freeway/US 175, the CF Hawn Freeway (US 175), and IH 45. For clarification purposes, the existing US 175 is known as the SM Wright Freeway from the existing IH 45 interchange to SH 310; however, upon completion of the proposed project, this area would be known as the SM Wright Parkway. In addition, the existing US 175 is also known as the CF Hawn Freeway south and east of SH 310. The portion of the existing IH 45 within the proposed project area is also known as the Julius Schepps Freeway.

The proposed project is generally triangular in nature and would include improvements to three roadways. The proposed project improvements along the existing SM Wright Freeway/US 175 would extend from IH 45 to north of Budd Street (2.2 miles). The proposed improvements to the CF Hawn Freeway (US 175) would extend from east of Bexar Street to IH 45 (1.5 miles). The proposed improvements also include a new interchange at IH 45, and the widening of IH 45 from south of Lamar Street to the SM Wright Freeway/US 175 (2.3 miles). The proposed project is located entirely within the City of Dallas, Dallas County, Texas. Maps showing the general project location and vicinity, project location on aerial photograph, and the project on topographic map are provided in **Appendices A-1, A-2, and A-3**.

The proposed project improvements SM Wright Freeway/US 175 north of the SH 310 interchange would convert the existing six-lane freeway with frontage roads (SM Wright Freeway) to a low speed, signalized six-lane urban arterial (SM Wright Parkway). After construction of the proposed IH 45/US 175 interchange is completed, the existing freeway north of the realigned US 175 would be downgraded. The City of Dallas has agreed to take the downgraded roadway (referred to as 'SM Wright Parkway' in the design schematic) off of TxDOT's system. The existing SM Wright Freeway ramp access at IH 45 would be maintained, and the northbound entrance ramp to IH 45 would be restriped from two lanes to one lane. These improvements to the existing SM Wright Freeway/US 175 would also require improvements to the existing CF Hawn Freeway (US 175) and IH 45.

The proposed CF Hawn Freeway (US 175) would be six lanes between SM Wright Parkway and the eastern project limit. The CF Hawn Freeway (US 175) would be extended westerly to IH 45 and would overpass the proposed SM Wright Parkway and Lamar Street. The US 175 frontage roads would be extended to Lamar Street to facilitate local access. The extension of US 175 westerly would require constructing a new interchange with IH 45. Associated improvements would include constructing two-lane DC ramps from northbound CF Hawn Freeway (US 175) to northbound IH 45 and from southbound IH 45 to southbound CF Hawn Freeway (US 175).

1 IH 45 would be restriped between the proposed CF Hawn Freeway (US 175) interchange and the existing
2 SM Wright Freeway interchange to facilitate six mainlanes plus transitional lanes. Improvements would
3 include the widening of the existing IH 45 mainlanes to the inside north of the proposed US 175 DC ramp
4 junctions to allow for an additional transition lane (each direction) which would serve traffic between the
5 proposed US 175 interchange and the existing IH 45 10-lane section north of the existing US 175 (SM
6 Wright Freeway) interchange. Also, removal of the existing northbound exit ramp from Pennsylvania
7 Avenue and Martin Luther King Jr. Boulevard would be required due to ramp spacing constraints;
8 therefore, a split ramp configuration would be constructed with a bypass over Lamar Street in both the
9 northbound and southbound directions. This would require the southbound entrance ramp to IH 45 from
10 Lamar Street to be moved further west and the relocation of the existing McDonald Avenue intersection
11 with Lamar Street. CF Hawn frontage roads would be reconstructed and would extend to Lamar Street to
12 facilitate local access. Providing a direct link between IH 45 and CF Hawn Freeway (US 175) would
13 remove freeway/commuter traffic from the communities adjacent to the project area and would improve
14 the neighborhood environment. The proposed improvements would also eliminate the accident prone,
15 sharp 90-degree curve, along US 175 that currently connects CF Hawn Freeway and SM Wright
16 Freeway.

17

18 The proposed improvements would also include the reconstruction of cross-street intersections and the
19 reconstruction of ramps to meet current TxDOT design criteria and to improve traffic operational
20 performance. The proposed project design configurations from IH 45, US 175, and SH 310 are provided
21 below in **Table 2-1**.

1

TABLE 2-1. PROJECT DESIGN FEATURES

CSJ ¹	ROADWAY	LOCATION ²		NUMBER OF LANES ³		TYPICAL SECTIONS ¹
		FROM	TO	MAIN	FRONTAGE ROAD	
0092-01-052	SM Wright Parkway (SM Wright Phase II)	IH 45	US 175/SH 310 (north of Budd Street)	6	0	Typical Section (Sheets 1 & 2)
0197-02-108	CF Hawn Freeway/US 175 (SM Wright Phase I)	SH 310	IH 45	6* & 2 Lane DC's @ IH45	4	Typical Section (Sheets 3 & 4)
0092-14-081	IH 45** (SM Wright Phase I)	CF Hawn Freeway/US 175 (south of Lamar St)	SM Wright Parkway	6	4	Typical Section (Sheets 5 & 6)

Notes:

1. Refer to **Appendix A-4** for CSJ and typical section limits as well as cross street typical sections.
2. Locations are approximate.
3. Variation does not include intersection approaches; Lane configurations represent the total number of lanes.
 - * Between IH 45 and SH 310, the proposed improvements overlap with the proposed Trinity Parkway Project. Both projects are summarized on *Mobility 2035 Corridor Fact Sheet 11*. *Mobility 2035* notes that MTP segment 26.20.1 allows for staged improvements. The DC ramps at IH 45 and US 175 frontage road extension to Lamar Street are proposed by both projects and would be constructed and open by the year 2020 as part of the SM Wright Parkway (known as the 'SM Wright Phase I'). The construction of these facilities was formerly referred to as 'Trinity Parkway Phase I.' The DC ramps noted in MTP segment 26.20.1 are a part of the proposed SM Wright project and would not be tolled. The toll components listed under this segment is proposed by the Trinity Parkway Project, and would be constructed and operational between 2020 and 2030. The design year analysis is for the year 2035. Therefore, allowances for the proposed Trinity Parkway improvements have been included during the preliminary engineering and operational analysis of IH 45 and US 175.
 - **Improvements to IH 45 are included in the 'SM Wright Phase I' portion of the project. The IH 45 freeway segment includes 6 mainlanes plus 2 transitional lanes (8 lanes total). These transitional lanes are added/dropped at the proposed US 175 interchange and would assist in facilitating traffic along the existing 6-lane section up to the existing 6 mainlanes/4 auxiliary lane section north of the SM Wright Freeway interchange.

2

3 **Appendix A-4, Sheets 1-6** show the design configurations listed in **Table 2-1**. **Sheet 7 of Appendix A-4**
 4 shows the typical cross sections for the proposed reconstruction of the cross-street intersections and
 5 ramps improvements. A plan view of the proposed project's design features is shown in **Appendix A-5,**
 6 **Sheets 1-4**. A plan view of the proposed project showing the paving outline and right-of-way (ROW)
 7 limits overlaid on an aerial photograph is shown in **Appendix A-6**.

8

9 Approximately 32.4 acres of additional ROW would be needed for the construction of the proposed
 10 project. ROW would vary from approximately 165 to 658 feet (see **Section 2.3** for additional information
 11 regarding ROW requirements).

12

13 Schematic plans for the proposed project include provisions for sidewalks along the US 175 (CF Hawn
 14 Freeway) frontage roads (**Appendix A-4, Sheet 4**), which would be typically 6 feet, and the proposed SM
 15 Wright Parkway (**Appendix A-4, Sheet 2**), which would be typically 12 feet. The typical sections for the
 16 proposed SM Wright Parkway (see **Appendix A-4, Sheet 2**) would include 12-foot shared-use path of 1.5
 17 percent slope on each side of the roadway to accommodate for pedestrian and bicycle travel. The
 18 shared-use path would be striped and signed in accordance with the Manual on Uniform Traffic Control
 19 Devices (MUTCD), the American Association of State Highway and Transportation Officials (AASHTO)
 20 guidance, and the Americans with Disabilities Act Accessibility Guidelines (ADAAG). In addition, there is

1 a 14-foot wide outer lane (excluding gutter) in each direction to accommodate shared use by bicycles and
2 vehicles. The existing IH 45 frontage roads extend from Lamar Street to north of Pennsylvania Avenue
3 (approximately 0.75 miles). The proposed project would maintain the existing pedestrian bridge across
4 IH 45 (located south of Pennsylvania Avenue). No roadway or pedestrian improvements are proposed to
5 the IH 45 frontage roads. During the final design phase of the project, TxDOT will make every effort to
6 separate the sidewalks from the cross streets and frontage roads as much as possible and all proposed
7 sidewalks would meet Americans with Disabilities Act (ADA) design criteria. **Appendix A-4, Sheet 7**
8 shows the typical cross section diagrams for the proposed frontage roads and cross streets.

9
10 The estimated construction cost of the proposed project is \$131,000,000, with a total estimated cost of
11 \$165,100,000 (Per the fiscal year (FY) 2013-2016 TIP, the Phase I cost estimate is \$124,700,000 and the
12 Phase II cost estimate is \$40,400,000. The Phase I and Phase II cost estimates will be amended in the
13 TIP to reflect the change resulting from design refinements made following the January 2013 Public
14 Hearing. The remainder of the cost difference is due to City of Dallas early acquired properties, as
15 detailed in **Appendix C-11**. The estimated date that construction would begin is currently 2014. The
16 proposed project improvements would be constructed in two major phases, SM Wright Phases I and
17 II. SM Wright Phase I (formerly known as 'Trinity Parkway Phase I') involves constructing the
18 improvements to CF Hawn Freeway (US 175 from Lamar Street to east of Bexar Street) and IH 45. In
19 addition, the proposed DC ramps between CF Hawn Freeway and IH 45 would also be constructed
20 during the first phase. SM Wright Phase I would begin in 2014 and is anticipated to be open to traffic in
21 2017. After SM Wright Phase I is completed, traffic travelling between CF Hawn Freeway and IH 45
22 would be allowed to utilize the newly constructed DC ramps. This diversion of traffic to the DCs would
23 allow SM Wright Phase II construction to begin, which involves reconstructing the existing SM Wright
24 Freeway, north of the SH 310 interchange, to a low speed, signalized six-lane urban arterial, known as
25 the proposed SM Wright Parkway. It is currently anticipated that SM Wright Phase II would begin
26 construction in 2017 and would be open to traffic by 2019. Multiple sub phases and steps would be
27 required during both phases of construction. The phasing and completion of construction for the design
28 configurations listed in **Table 2-1** are subject to the availability and mechanism of funding, to be selected
29 at a later date following the project definition process (see **Section 1.2**).

30 31 **2.2 Need and Purpose**

32 33 **2.2.1 Project Need**

34 Transportation improvements are needed along the existing US 175 (SM Wright Freeway and CF Hawn
35 Freeway) and IH 45 due to design and operational deficiencies, safety concerns, projected population
36 and employment growth in Dallas-Fort Worth (DFW), projected traffic volumes and level of service (LOS),
37 and transportation demand.

1 ***Design and Operational Deficiencies***

2 The existing interchange design at SH 310/US 175 does not meet current urban freeway design
3 standards as described in guidelines published by TxDOT⁴ and the American Association of State
4 Highway and Transportation Officials (AASHTO).⁵ The studied portion of US 175 was constructed in
5 phases in the early 1950s to early 1960s. Transportation improvements are needed to address the
6 design and operational deficiencies of the current roadway, which are discussed in more detail below.

8 Inadequate Geometry at the US 175/SH 310 Interchange

9 The US 175 interchange with SH 310 is facilitated by a sharp, 90 degree curvature in the US 175
10 alignment that only meets a 25 miles per hour (mph) design speed for current design criteria and is
11 signed as 25 mph. This sharp bend in the mainlane alignment has a long history of accidents, and is
12 commonly referred to by commuters as “dead man’s curve.” In 2008, a southbound fuel tanker
13 overturned at this interchange, burned the overhead SH 310 bridge, and required reconstruction of the
14 bridge. In addition to this sharp radius, there are locations through the interchange where shoulders are
15 not provided on either side of US 175. In the case of a freeway incident blocking the mainlanes, the
16 involved vehicle or vehicles do not have an adequate area to maneuver off of the roadway. This creates
17 excessive queuing of traffic and unsafe conditions along the freeway. Furthermore, emergency vehicles
18 do not have easy access to incidents that occur along the freeway. The northwest bound US 175
19 frontage road is discontinuous at the SH 310 interchange as well, impacting local operations and limiting
20 bypass routes during accidents. In addition to the safety concerns listed above, the 25 mph speed
21 through this interchange limits the capacity along US 175 and creates a bottleneck. Bottleneck conditions
22 can also create unsafe conditions resulting in rear-end accidents.

24 Acceleration, Deceleration, and Ramp Lengths

25 Drivers must be provided with sufficient distance in order to accelerate or decelerate safely. Some ramps
26 along the existing US 175 corridor do not provide adequate ramp length or adequate
27 acceleration/deceleration lengths at the freeway junctions. Short ramp lengths can cause substantial
28 speed variations for vehicles entering or exiting the freeway. Short acceleration lengths do not allow
29 entering vehicles the needed distance to reach the speeds of freeway vehicles, thus slowing down the
30 mainlane speeds. The friction between freeway vehicles and entering vehicles can cause unsafe and
31 undesirable operational conditions. In addition, short deceleration lengths cause exiting vehicles to slow
32 on the freeway mainlanes, which result in lower freeway speeds and increased congestion.

⁴ TxDOT (October 2006), *Roadway Design Manual*.

⁵ AASHTO (2004), *A Policy on Geometric Design of Highways and Streets 5th Edition*.

1 Interchange Spacing

2 Currently there are seven interchanges within the US 175 project area. The existing interchange
3 configurations consist primarily of full diamonds and half diamonds. However, some individual ramp
4 access for specific movements has been provided along the US 175 corridor. The interchange
5 configurations in addition to their close spacing creates short weaving distances along the mainlanes
6 which negatively impacts US 175 traffic operations and capacity.

8 Two-way Frontage Roads

9 Currently, the segment of US 175 frontage located east of SH 310 and west of Bexar Street (north of the
10 mainlanes) provides two-way access. While advantageous to driver access and convenience, two-way
11 frontage roads are disadvantageous from an operational and safety standpoint. Two-way frontage roads
12 increase conflict points and complicate operations at intersections along the frontage road. Also, this
13 segment of frontage road is discontinuous through the SH 310 interchange.

15 **Safety Concerns**

16 On March 1, 2011, TxDOT provided crash data to be analyzed and included in the Interstate Access
17 Justification Report for this proposed project. Crash data on IH 45 from 2007 to 2010 was analyzed to
18 determine the existing crash severity, crash types, and crash rates present on the interstate. For the IH
19 45 safety analysis, crashes were analyzed between mile points 17.91 and 19.73 along the interstate.

21 A total of 223 crashes were recorded in the crash data between 2007 and 2010. Of the total 223
22 recorded crashes, there were three (1.3 percent) fatality crashes (all of which were single vehicle
23 collisions with pedestrians), 85 (38.1 percent) injury crashes, 129 (57.8 percent) non-injury crashes, and
24 six (2.7 percent) crashes where crash severity was not provided. The crash severity summary is shown
25 in **Table 2-2**.

27 **TABLE 2-2. IH 45 CRASH SEVERITY SUMMARY**

Year	Total Crashes	Crash Severity			
		Fatality	Injury *	Non-Injury	No Information
2007	42	0	17	23	2
2008	58	0	33	25	0
2009	59	2	17	37	3
2010	64	1	18	44	1
Total	223	3	85	129	6
Percent (%) of Total Crashes		1.3%	38.1%	57.8%	2.7%
NOTES: * Injury includes incapacitating crashes, non-incapacitating crashes, and possible injury crashes					

28
29 The crash data was also tabulated based on crash type to show the types of accidents present on IH 45.
30 Of the 223 recorded crashes on IH 45, there were 66 (25.8 percent) multi-vehicle rear end collisions, 84
31 (39.4 percent) multi-vehicle angle or sideswipe collisions, 69 (31.8 percent) single vehicle collisions with

1 fixed objects, and four (3.0 percent) single vehicle collisions with pedestrians. The crash type summary is
 2 shown in **Table 2-3**.

3

4

TABLE 2-3. IH 45 CRASH TYPE SUMMARY

Year	Total Crashes	2+ Vehicles (Rear End)	2+ Vehicles (Angle/Sideswipe)	1 Vehicle (Fixed Object)	1 Vehicle (Pedestrian)
Full Limits of IH 45 Crash Analysis (1.83 miles)					
2007	42	13	15	14	0
2008	58	16	23	18	1
2009	59	16	19	22	2
2010	64	21	27	15	1
Total	223	66	84	69	4
Percent (%) of Segment Crashes	-	25.8%	39.4%	31.8%	3.0%
Section 1: IH 45 - 6 Lane Segment, South of Existing US 175 SMW DC's (1.35 miles)					
2007	29	10	11	8	0
2008	48	14	18	16	0
2009	37	8	15	13	1
2010	43	17	14	11	1
Total	157	49	58	48	2
Percent (%) of Segment Crashes	-	31.2%	36.9%	30.6%	1.3%
Percent (%) of Total Crashes	70.4%				
Section 2: IH 45 - 10 Lane Segment, Between Existing US 175 SMW DC's and IH 30 DC's (0.48 miles)					
2007	13	3	4	6	0
2008	10	2	5	2	1
2009	22	8	4	9	1
2010	21	4	13	4	0
Total	66	17	26	21	2
Percent (%) of Segment Crashes	-	25.8%	39.4%	31.8%	3.0%
Percent (%) of Total Crashes	29.6%				

5

6 A large proportion of the recorded collisions occurred in traffic merging and diverging zones near
 7 entrance and exit ramps. This is reflective in the analysis results as 39.8 percent of the accidents were
 8 angle or sideswipe type collisions. Additionally, a large portion of IH 45 is on structure with adjacent
 9 structural railing. This may represent a large portion of the 31.8 percent of fixed object collisions that
 10 were recorded.

11

12 The crash data was further divided into two subsections to distinguish the number of lanes present on IH
 13 45: (1) the existing 6-lane segment of IH 45 south of the existing SM Wright Freeway/US 175 direct
 14 connect (DC) ramps, and (2) the existing 10-lane segment of IH 45 between the existing SM Wright
 15 Freeway/US 175 DC ramps and the existing IH 30 DC ramps.

16

1 Section 1: IH 45 – 6 Lane Segment

2 The existing 6-lane segment of IH 45 south of the existing SM Wright Freeway/US 175 DC ramps to IH 45
 3 recorded 157 crashes between 2007 and 2010. The 157 crashes represent 70.4 percent of the total
 4 crashes being analyzed which is proportional to the length of the 6-lane segment of IH 45 over the total IH
 5 45 length being analyzed in this crash analysis (1.35 miles/1.83 miles or 73.8 percent by segment length).
 6 Of the 157 recorded crashes, there were 49 (31.2 percent) multi-vehicle rear end collisions, 58 (36.9
 7 percent) multi-vehicle angle or sideswipe collisions, 48 (30.6 percent) single vehicle collisions with fixed
 8 objects, and two (1.3 percent) single vehicle collisions with pedestrians.

9
 10 Section 2: IH 45 – 10 Lane Segment

11 The existing 10-lane segment of IH 45 between the existing SM Wright Freeway/US 175 DC ramps and
 12 the existing IH 30 DC ramps recorded a total of 66 crashes between 2007 and 2010. The 66 crashes
 13 represent 29.6 percent of the total crashes being analyzed which is proportional to the length of the 10-
 14 lane segment of IH 45 over the total IH 45 length being analyzed in this crash analysis (0.48 miles/1.83
 15 miles or 26.2 percent by segment length). Of these 66 recorded crashes, there were 17 (25.8 percent)
 16 multi-vehicle rear end collisions, 26 (39.4 percent) multi-vehicle angle or sideswipe collisions, 21 (31.8
 17 percent) single vehicle collisions with fixed objects, and two (3.0 percent) single vehicle collisions with
 18 pedestrians. The crash data was also analyzed to determine the crash rate present on existing IH 45.
 19 Crash rates are calculated per hundred million vehicle mile traveled using the following equation:

$$\text{Crash Rate (per 100 million vehicle miles)} = \# \text{ Crashes} \times 100,000,000 / \text{Vehicle Miles Traveled}$$

22 where Vehicles Miles Traveled = ADT x 365 x Segment Length

23
 24 TxDOT's statewide planning maps provided ADT volumes between 2007 and 2010 along IH 45. Using
 25 these ADT volumes and the length of each segment, a total vehicle miles traveled was then tabulated for
 26 each year. The summary of IH 45 vehicle miles traveled is shown in **Table 2-4**.

27 **TABLE 2-4. IH 45 VEHICLE MILES TRAVELED SUMMARY**

Year	Section 1: IH 45 - 6 Lane Segment			Section 2: IH 45 - 10 Lane Segment			Total
	ADT (Veh/Day)	Length (miles)	Vehicle Miles Traveled (100 million vehicle miles)	ADT (Veh/Day)	Length (miles)	Vehicle Miles Traveled (100 million vehicle miles)	Vehicle Miles Traveled (100 million vehicle miles)
2007	73,000	1.35	0.36	141,000	0.48	0.25	0.61
2008	71,000	1.35	0.35	139,000	0.48	0.25	0.60
2009	69,000	1.35	0.34	136,000	0.48	0.24	0.58
2010	69,000	1.35	0.34	139,000	0.48	0.25	0.59

28

1 Crash rates were then measured on IH 45 between 2007 and 2010. The average statewide crash rate for
 2 similar urban interstates over the four-year period is 102.21 crashes per 100 million vehicle miles
 3 traveled. Over the four-year period, the average crash rate on IH 45 was measured at 94.26 crashes per
 4 100 million vehicle miles traveled. The existing IH 45 corridor recorded, on average, approximately 8
 5 percent fewer crashes than similar urban interstates in Texas. The summary of IH 45 crash rates is
 6 shown in **Table 2-5**.

7
 8 **TABLE 2-5. IH 45 CRASH RATE SUMMARY**

Year	Total Crashes	Vehicle Miles Traveled (100 million vehicle miles)	Actual Crash Rate (per 100 million vehicle miles)	Statewide Average Crash Rate (per 100 million vehicle miles)
2007	42	0.61	68.93	111.08
2008	58	0.60	97.33	101.15
2009	59	0.58	101.59	99.27
2010	64	0.59	109.20	97.34
Average			94.26	102.21

9
 10 Crash data on US 175 from 2007 to 2010 was analyzed to determine the location of the existing crashes
 11 present on the freeway. Crash data was analyzed US 175 between mile points 0.00 and 0.51 along the
 12 freeway. There were 68 recorded accidents on US 175 between 2007 and 2010. Of the total 68
 13 accidents recorded, 23 occurred between mile point 0.00 and 0.06 which is the location of the accident
 14 prone 90 degree bend in the US 175 alignment. The remaining portion of US 175 between mile point
 15 0.06 and 0.51 recorded 45 crashes between 2007 and 2010. The limits of the existing accident prone
 16 curve along US 175 accounts for approximately 12 percent of the crash data analysis by length; however,
 17 the location accounts for 34 percent of the total crashes. While none of the 23 total recorded crashes at
 18 this connection recorded fatalities, probably due to the 25 mph speed required to traverse the curve, 6
 19 crashes involved overturning vehicles and another eight crashes involved hitting a fixed object
 20 (presumably the traffic barrier adjacent to the roadway). Also, in 2008, a southbound fuel tanker
 21 overturned at this interchange, burned the overhead SH 310 bridge, and required reconstruction of the
 22 bridge.

23
 24 While the crash data shows that existing IH 45 yielded a crash rate, on average, 8 percent less than the
 25 existing statewide average crash rate for similar urban interstates, the crash rate trends in opposing
 26 directions over the four year analysis period. The statewide average crash rate is decreasing each year
 27 by approximately 4.58 crashes per 100 million vehicle miles traveled. This descending trend could likely
 28 represent the improvements being introduced to other urban interstates in Texas. The actual crash rate
 29 on IH 45 is on the rise by approximately 13.42 crashes per 100 million vehicle miles traveled each year.
 30

1 The NCTCOG 2035 traffic data show approximately 142,000 ADT on the six-lane section of IH 45 and
 2 183,000 ADT on the 10-lane section of IH 45. These volumes will substantially increase the vehicle miles
 3 traveled on the corridor to 102 million vehicle miles expected in 2035. Based on the average crash rate
 4 of 94.26, the future traffic projections almost double the average number of crashes on IH 45 from 56
 5 crashes per year (measured between 2007 and 2010) to 92 crashes per year (2035). Without
 6 transportation improvements in the project area, there would be an increasing trend in crash rates.

8 *Projected Population and Employment Growth*

9 Continued growth in population and employment has created a need for improvements to the
 10 transportation system in the Dallas-Fort Worth (DFW) area. According to the demographic forecast
 11 prepared by the NCTCOG, the population for the twelve counties surrounding the DFW urban core
 12 (includes Wise, Denton, Collin, Hunt, Parker, Dallas, Rockwall, Tarrant, Kaufman, Hood, Johnson, and
 13 Ellis Counties) is anticipated to grow to an estimated 10.5 million persons by 2040, supporting
 14 approximately 6.6 million jobs. **Table 2-6** summarizes household population and employment projections
 15 for these 10 counties surrounding the DFW urban core.

17 **TABLE 2-6. NORTH CENTRAL TEXAS REGIONAL PROJECTIONS**

Year	2005	2035	2040	Percent Change 2005-2035	Percent Change 2005-2040
Household* Population	5,777,272	9,833,378	10,543,336	70.2	82.5
Employment	3,624,051	6,177,016	6,606,515	70.4	82.3
Source: NCTCOG, 2040 Demographic Forecast. (http://www.nctcog.org/ris/demographics/population.asp).					
Note: * excludes in group quarters such as dormitories, correctional facilities and nursing homes.					

18
 19 **Table 2-7** illustrates the percent increase in population from 2005 and the forecasted percent increase in
 20 population in both 2035 and 2040 for the City of Dallas and Dallas County.

21
 22 **TABLE 2-7. POPULATION TRENDS WITHIN AND NEAR THE PROPOSED PROJECT AREA**

Location	2005	2035 Projected	2040 Projected	Percent Increase in Population 2005-2035	Percent Increase in Population 2005-2040
Dallas	1,307,899	1,652,479	1,713,662	26.3	31.0
Dallas County	2,273,250	3,125,282	3,265,190	37.5	43.6
Source: NCTCOG 2040 Demographic Forecast: http://www.nctcog.org/ris/demographics/forecast/County2040.pdf , accessed March 2012.					

23 24 *Projected Traffic Volumes and Level of Service*

25 A collaborative effort between the NCTCOG and TxDOT's TPP Division was utilized to develop key inputs
 26 and factors for the 2035 traffic projections. In accordance with TPP guidelines, the Division does not
 27 develop traffic projections for toll facilities. Therefore, TxDOT requested that NCTCOG develop design

1 year 2035 traffic projections for the proposed project and the interaction with Trinity Parkway. TPP
 2 provided input on traffic data for the free roadway facilities. These inputs were taken into account by the
 3 NCTCOG along with the *Mobility 2035* traffic model, which includes the proposed Trinity Parkway project.

4
 5 A portion of the project area overlaps with the proposed Trinity Parkway project. The Trinity Parkway
 6 proposes additional DC ramp connections with IH 45 in the vicinity of the proposed IH 45/US 175
 7 interchange. In addition, it also would connect with US 175 east of IH 45. *Mobility 2035* lists the Trinity
 8 Parkway as being operational by the year 2030; therefore, the Trinity Parkway improvements would need
 9 to be considered as part of the 2035 operational analyses.

10
 11 NCTCOG utilized TPP's input and the *Mobility 2035* model to develop design year 2035 average daily
 12 traffic (ADT) volumes for the project's mainlanes. The NCTCOG approved 2035 ADT volumes were
 13 provided to TxDOT Dallas District on December 21, 2011. **Table 2-8** lists the TxDOT 2010 traffic counts
 14 and NCTCOG anticipated 2035 ADT volumes for the project area. As shown in **Table 2-8**, ADT volumes
 15 within the project area are anticipated to grow 127 percent along US 175 and 149 percent along IH 45,
 16 further illustrating the need for mobility and capacity improvements.

17
 18 **TABLE 2-8. 2010 AND 2035 ADT VOLUMES IN THE PROPOSED PROJECT AREA**

Roadway Section	ADT in Vehicles Per Day (vpd) ¹		Percent (%) Increase 2010-2035
	2010 ²	2035 ³	
US 175	82,000	186,200	127%
IH 45	69,000	171,800	149%
Notes:			
1. ADT includes both northbound and southbound mainlanes			
2. Source of 2010 counts is TxDOT Statewide Planning Maps			
3. Source of 2035 counts is NCTCOG (December 2011)			

19
 20 Segments of highway or roadway may be evaluated for present and/or future traffic handling capacity
 21 through use of standardized LOS grading systems. The LOS is a qualitative measure of describing
 22 operational conditions within a traffic stream or at an intersection, generally described in terms of such
 23 factors as speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience,
 24 and safety. LOS measures vary, depending on facility type. For interstates and divided highways, LOS is
 25 determined as a function of density; that is, the number of vehicles per lane per mile of roadway. For
 26 arterial streets, LOS determination is based on the average travel speed of the vehicles traveling the
 27 defined section. At intersections, both signalized and unsignalized, LOS is a function of delay. For two-
 28 lane highways, LOS is determined according to two measures: percent time spent following (which
 29 represents the freedom to maneuver and the comfort and convenience of travel) and average travel
 30 speed.⁶ The LOS ratings are designated A through F (A being the best and F the worst) and cover the

⁶ TRB (2000), *Highway Capacity Manual*.

1 entire range of traffic operations that may occur. The definitions of LOS A through F are presented in
 2 **Table 2-9.**

3
 4 **TABLE 2-9. LEVELS OF SERVICE**

LOS	DEFINITION
A	Highest quality of service. Free traffic flow, low volume, and densities. Little or no restriction on maneuverability or speed. 55+ mph. No delay.
B	Stable traffic flow, speed becoming slightly restricted. Low restriction on maneuverability. 50 mph. No delay.
C	Stable traffic flow, but less freedom to select speed, change lanes or pass. Density increasing. 45 mph. Minimal delay.
D	Speeds tolerable, but subject to sudden and considerable variation. 40 mph. Minimal delay.
E	Unstable traffic flows with rapidly fluctuating speeds and flow rates. Short headways, low maneuverability, and low driver comfort. 35 mph. Considerable delay.
F	Forced traffic flow. Speed and flow may drop to zero with high densities. Less than 25 mph. Considerable delay.

5 **Source:** *Transportation Research Board (TRB), Highway Capacity Manual, 2000.*

6 Generally, when a roadway is operating below capacity during peak hours, no improvements or travel
 7 demand reductions are warranted because the roadway is considered to be operating at an acceptable
 8 LOS. When traffic volumes approach a roadway's capacity, substantial delays are experienced with stop-
 9 and-go movements taking place along the roadway. When this occurs, any incident (e.g. a disabled car
 10 pulled onto the shoulder or inclement weather) is likely to reduce the roadway's capacity enough to
 11 produce excessive congestion and delay. When a roadway is over capacity, a breakdown in flow occurs.

12
 13 Traffic operations were evaluated for the year 2035 (design year) if the roadway improvements are
 14 implemented and if the improvements are not implemented. The analysis was conducted according to
 15 procedures outlined in the Transportation Research Board's (TRB) *Highway Capacity Manual*⁷ and using
 16 traffic volume data obtained by a collaborative effort between the NCTCOG and TxDOT's TPP Division.
 17 In 2035, SM Wright Freeway/US 175 would operate at LOS E and F if no transportation improvements
 18 are implemented. Roadway improvements are needed to manage the projected traffic volumes and
 19 decrease of LOS.

20
 21 ***Transportation Demand***

22 In many instances, rapid growth in the DFW Metropolitan Area is surpassing the existing transportation
 23 system's ability to accommodate it, resulting in increased traffic congestion. Transportation demand for
 24 the region was approximately 176 million vehicle miles traveled (VMT) in 2012, meaning that on a typical
 25 weekday, area residents travel approximately 176 million miles on area freeways, arterials, and local
 26 streets. The regional traffic demand is expected to increase to approximately 279 million VMT in 2035.
 27 This is an approximate 63 percent increase in VMT from 2012 to 2035 in the DFW Metropolitan Area.
 28

⁷ Transportation Research Board (2000). *Highway Capacity Manual*, (SR 209).

1 The IH 45 and US 175 corridors serve as major southeastern gateways to the City of Dallas. The US 175
 2 corridor is the primary connection between the Dallas Central Business District, southeastern Dallas
 3 County, and Kaufman County. The IH 45 corridor also provides a major connection between the Dallas
 4 Central Business District, southeastern Dallas County, Ellis County, and locations as far south as the
 5 Houston metropolitan area. The existing US 175 and the IH 45 corridors are currently utilized by
 6 commuters for local, regional, and/or state-wide transportation needs.

7
 8 The performance of the existing and planned future transportation system in Dallas County was
 9 measured and modeled for the regional Metropolitan Transportation Plan (MTP), also known as *Mobility*
 10 *2035: The Metropolitan Transportation Plan for the Dallas-Fort Worth Area*, prepared by NCTCOG.⁸ The
 11 Dallas Fort-Worth Regional Travel Model (DFWRTM) was used to identify and measure the extent and
 12 duration of traffic congestion. **Table 2-10** summarizes Dallas County's model results for performance
 13 characteristics for the 2012 baseline transportation system and the 2035 planned transportation system
 14 as described in *Mobility 2035 Transportation Plan*.

15
 16 **TABLE 2-10. DFWRTM PERFORMANCE SUMMARY FOR DALLAS COUNTY**

Performance Measure	2012 Transportation System (Baseline)	2035 Transportation System
Population	2,443,148	3,125,282
Employment	2,146,783	2,854,287
VMT (Millions)	67,988,931	94,857,417
Hourly Capacity (Millions of Miles)	12,749,885	14,828,437
Vehicle Hours Spent in Delay (Daily)	543,392	983,449
Percent Increase in Travel Time Due to Congestion ¹	38.5%	47.9%
Annual Cost of Congestion (Billions)	\$4.5	\$10.1
Source: NCTCOG, <i>Mobility 2035 Transportation Plan</i> , Appendix F, Regional Performance		
Note: 1. Congestion Levels: 0-19%, no congestion; 20-34%, light; 35-49%, moderate; 50% and greater, severe.		

17
 18 US 175 and IH 45 are important for the transportation of people and goods as they serve as major multi-
 19 directional transportation corridors through the south and southeastern portions of the City of Dallas and
 20 Dallas County. The existing SM Wright Freeway serves as an important local and regional access facility
 21 due to its proximity to the downtown Dallas Central Business District, Fair Park, the Trinity Corridor, and
 22 other large commercial developments throughout the City of Dallas. In addition, both US 175 and IH 45
 23 provide vital links between the Dallas Central Business District and Dallas, Kaufman, and Ellis Counties.
 24 They also connect to other major radial freeways such as Loop 12 and portions of IH 20 in Dallas County.
 25 Improvements in the project area are needed to accommodate the future demand to the existing
 26 transportation network.

27
⁸ <http://www.nctcog.org/trans/mtp/2035/index.asp>

2.2.2 Project Purpose

The purposes of the proposed project are to improve safety, operability, connections, and mobility; be compatible with local, county, and regional needs and plans; and to minimize social, economic, and environmental effects on the human environment.

The proposed project purpose were determined by 1) previous Trinity Parkway transportation studies, which directly impacted the IH 45 and US 175 corridors, 2) recent requests submitted to TxDOT, by local elected officials and transportation agency leaders, to transform/downsize the SM Wright Freeway, and 3) evidence of reoccurring collisions involving the sharp curve on US 175 at the SH 310 interchange. In addition, the concept of downsizing the existing SM Wright Freeway occurred during the southern sector elected officials meetings conducted during 2003-2004 as part of the City of Dallas' "Balanced Vision Plan" studies. All of the above listed purposes are described in the sections below.

Improve Safety

Transportation safety is of the utmost importance for the traveling public and the proposed project would facilitate safe travel. The proposed project would provide a safer and more secure driving experience for motorists. The existing alignment of US 175 contains a small radius curve connection through an approximate 90-degree curve at the US 175 interchange with SH 310. The proposed improvements would eliminate this accident-prone connection by reconstructing CF Hawn Freeway/US 175 to overpass proposed SM Wright Parkway and SH 310 and extending US 175 to connect to IH 45 through the proposed DC ramps. The proposed project would vastly improve the safety along the US 175 corridor by removing the accident-prone curve at the US 175 interchange with SH 310.

Improve Operability, Connections, and Mobility

Overall, the NCTCOG performance reports do not provide a clear indication of substantial or widespread improvement to LOS for the Build Alternative (see **Section 2.2.1**). However, the slight improvements of LOS show the project would improve operability, connections, and mobility.

ADT volumes within the project area are anticipated to grow 127 percent along US 175 and 149 percent along IH 45, further illustrating the need for mobility improvements. The realignment of the existing US 175 freeway as well as the removal of the 25 mph, accident-prone curve at the US 175/SH 310 interchange, would enhance operations of the US 175 facility by improving the design speeds through the area. This realignment of US 175 would manage congestion in the freeway-to-freeway traffic traveling west from US 175 to IH 45 and east from IH 45 to US 175. In addition, the associated improvements to IH 45 would improve the existing weaving on the facility, from less than half a mile to approximately two miles. The downsizing and downgrading of the existing SM Wright Freeway to a six-lane arterial, known as the proposed SM Wright Parkway, would provide an alternate route throughout the area for local

1 traffic, which would also assist in managing traffic congestion. Additionally, the proposed project would
2 improve pedestrian and bicycle mobility and connections within the project limits.

4 ***Compatibility with Local, County, and Regional Needs and Plans***

5 The proposed project would be compatible with local, county, and regional planning. Local government
6 officials and citizens have been active in considering the potential impacts (both beneficial and adverse)
7 associated with the proposed project. A more detailed accounting of the public involvement process thus
8 far is described in **Section 2.6**. From a regional perspective, the proposed project improvements are
9 consistent with the *Mobility 2035* MTP and the FY 2013-2016 Transportation Improvement Plan (TIP).

11 ***Minimize Social, Economic, and Environmental Effects on the Human Environment***

12 The proposed project would avoid or minimize impacts to local communities and natural resources in the
13 project area. As previously stated, active participation has occurred among public officials and citizens in
14 the consideration of potential impacts (beneficial and/or adverse) associated with the proposed project.
15 Additional planning for the proposed project would continue to emphasize avoidance, minimization, and
16 mitigation of potential adverse impacts to both human communities and the natural environment.

18 **2.3 ROW Requirements and Utility**

19 Existing ROW along SM Wright Freeway/US 175 varies from approximately 165 to 467 feet. The
20 proposed ROW for the proposed SM Wright Parkway varies from 165 to 450 feet.

22 The existing ROW for the CF Hawn Freeway/US 175 within the project limits varies from approximately
23 293 to 473 feet. The proposed ROW width along CF Hawn Freeway/US 175 varies from approximately
24 302 to 500 feet. The existing ROW along IH 45 within the project limits varies from approximately 181 to
25 630 feet. The proposed ROW width for the IH 45 improvements varies from approximately 181 to 658
26 feet.

28 Approximately 32.4 acres of ROW would be required to construct the proposed project, of which
29 approximately 4.93 acres are undeveloped, 0.7 acres are developed residential, and 25.58 acres are
30 developed non-residential. Required easements include approximately 1.15 acres on existing Union
31 Pacific Railroad (UPRR) property, which would require a joint use easement.

33 Other than potential temporary interruptions in service, no adverse impacts (i.e. termination of service or
34 long-term interruptions) to utilities, such as electrical, gas, phone, water, or sewer are expected to occur
35 from the construction of the proposed project. The proposed project may require minor adjustments to
36 existing aerial utilities. Other utilities (e.g., subterranean utilities) may also require adjustments. Utility

1 adjustments would be provided for by the affected utility. Schedules for any utility adjustments would be
2 closely coordinated to minimize disruptions and inconvenience to customers.

3 4 **2.4 Related Studies and Relevant Documents to the Proposed Improvements**

5 6 **Trinity Parkway Environmental Impact Statement**

7 The Trinity Parkway is a proposed new toll road located in the City of Dallas. The Trinity Parkway would
8 provide a reliever route generally to the west of downtown Dallas, connecting from the IH 35E/SH 183
9 interchange in the north to the US 175/SH 310 interchange in the south, a distance of approximately nine
10 miles. The FHWA, the North Texas Tollway Authority (NTTA), TxDOT, and the City of Dallas are
11 sponsors of the proposed Trinity Parkway project. The U.S. Environmental Protection Agency (EPA) and
12 the U.S. Army Corps of Engineers (USACE) are cooperating agencies for the project. A Draft
13 Environmental Impact Statement (DEIS) for the proposed Trinity Parkway project was circulated in
14 February 2005 by the FHWA. A Public Hearing for the DEIS was conducted on March 29, 2005 and
15 public comments were received in the period February 10 through April 8, 2005. A supplement to the
16 2005 DEIS, called a Supplemental Draft Environmental Impact Statement (SDEIS) containing contents of
17 the DEIS in their entirety along with new and revised material was completed and approved in February
18 2009. A Public Hearing for the SDEIS was held in May 2009. Comments received from agencies and the
19 public on the SDEIS were addressed and will be published in the Final Environmental Impact Statement
20 (FEIS). Following the Trinity Parkway Public Hearing for the SDEIS, the FHWA requested another
21 environmental document, referred to as a Limited Scope Supplemental (LSS) to the SDEIS. The purpose
22 of the LSS is to evaluate levee deficiencies identified in the USACE's 2009 *Periodic Inspection Report,*
23 *Dallas Floodway, Trinity River, Dallas, Dallas County, Texas* (Report No. 9) and future levee remediation
24 plans being developed by the City and USACE as they may relate to Trinity Parkway. In addition, prior to
25 recommending a preferred alternative, the FHWA sought further evaluation in the LSS and another
26 opportunity for public comment on the practicability of the Trinity Parkway alternatives in accordance with
27 Executive Order (EO) 11988 (*Floodplain Management*) and EO 11990 (*Protection of Wetlands*). The LSS
28 was approved by FHWA on March 7, 2012. The LSS Public Hearing was held on Tuesday, May 8, 2012
29 at the Dallas Convention Center Arena.

30
31 After evaluating the project's impacts and considering the comments from all sources, the FHWA
32 recommended preferred alternative for the proposed Trinity Parkway will be evaluated in the FEIS. In the
33 event a build alternative is selected when the FHWA issues a record of decision (ROD), the receipt of the
34 required permits, the execution of any necessary funding agreements, and authorization by the NTTA
35 Board of Directors or Texas Transportation Commission, would permit the proposed action to proceed to
36 the final design and construction phases. The anticipated ROD issued by the FHWA would be made in
37 accordance with 23 USC Section 109(h), which directs that final project decisions be made in the best

1 overall public interest, taking into account the need for fast, safe, and efficient transportation, and public
2 services.

3
4 The proposed project and the proposed Trinity Parkway both include connections to IH 45 and
5 improvements at the CF Hawn Freeway (US 175)/SH 310 interchange that require coordination. For
6 example, the southern end of Trinity Parkway would have the mainlanes cross under IH 45 and then
7 locate them between the new DC ramps between CF Hawn Freeway (US 175) and IH 45 that are part of
8 the proposed project (Note: As previously discussed, this component of the proposed project is termed
9 'SM Wright Phase I' and is formerly known as 'Trinity Parkway Phase I'). Nevertheless, the proposed
10 projects both have independent utility and would not preclude other foreseeable transportation
11 improvements within the proposed project area.

12 13 **Dallas Floodway Extension (DFE)**

14 The USACE Dallas Floodway Extension (DFE) project provides for an extension of flood protection
15 improvements downstream of the existing south end of the Dallas Floodway levee system. Major
16 components of the project include construction of a chain of wetlands to supplement overbank flow
17 capacity and extension of the levee system to provide flood protection for developed areas. The levee
18 extension would involve construction of levees along the Union Pacific Railroad (UPRR) parallel to Lamar
19 Street in the proposed project area from the DART Bridge downstream to William Blair, Jr. Park (formerly
20 Rochester Park), and on the western edge of the floodplain around the Cadillac Heights neighborhood.
21 Other elements of the project include recreation features, such as trails and access areas, as well as
22 ecosystem restoration and environmental mitigation features. The DFE project has been separately
23 processed through an EIS, and a ROD for the project was signed on December 1, 1999. The USACE
24 produced a *Final Supplement No. 1* to the EIS for the DFE project in 2003 and concluded that nothing in
25 the analysis indicated the recommended plan should be changed from the plan identified in the 1999
26 ROD. The DFE project has independent purpose and utility, focused primarily on flood control and
27 environmental restoration. It is intended to be separately funded by the City of Dallas and the USACE.

28
29 In January 2012, the USACE informed TxDOT that a supplementary document for the DFE may be
30 necessary. Coordination between the two agencies regarding the DFE and the proposed project is
31 currently ongoing.

32 33 **Trinity River Corridor Comprehensive Land Use Plan**

34 The *Trinity River Corridor Comprehensive Land Use Plan Final Report* was adopted in March 2005. The
35 *Preferred Land Use Plan* serves as the long-range land use and development plan for the corridor. The
36 Final Report divides the corridor into seven Planning Districts and 23 study areas in order to
37 communicate appropriate land use planning and design policies for each part of the corridor. For each

1 study area, a Land Use Opportunity Plan shows specific development opportunities in the study area,
2 based on expected market response to the city's Trinity River Corridor Project's major public
3 improvements. Prototype Sites located within a district are also discussed and reflect examples of the
4 types of site development that can occur consistent with the plan's policy direction.

5
6 The project area is within the North Trinity Forest Planning District as described in this plan. The North
7 Trinity Forest Planning District is cited as a primary gateway into the Great Trinity Forest and other parts
8 of the Trinity River Corridor. The greenbelt through this district not only serves as a northern gateway into
9 the river woodlands, but also brings together communities on both sides of the river with a shared
10 amenity.

11 12 **Trinity River Corridor Balanced Vision Plan (BVP)**

13 The *Balanced Vision Plan for the Trinity River Corridor* is a conceptual master plan developed by the City
14 of Dallas in 2003 for extensive development of recreational facilities, environmental restoration, and lakes
15 for the Dallas Floodway. The plan represents a 10-year vision for the Dallas Floodway to be achieved
16 with city and federal/state partnerships. The BVP study was initiated by City of Dallas Mayor Laura Miller,
17 former Dallas County Judge Lee Jackson, and interested citizens to take a new look at the possibilities for
18 the future of the Trinity River Corridor. The objectives of this study were to review and critique previous
19 study efforts and to propose an urban design vision plan for the corridor.

20
21 Section 5141 of the Water Resources Development Act (WRDA) of 2007 authorized the implementation
22 of the City of Dallas BVP and Interior Drainage Plan components if the USACE determines they are
23 technically sound and environmentally acceptable. On October 9, 2009, the USACE issued a Notice of
24 Intent to prepare a DEIS in response to a U.S. Senate Committee on Environment and Public Works
25 Resolution, dated April 22, 1988, and Section 5141 of the WRDA of 2007 seeking analysis of the potential
26 comprehensive environmental consequences of the proposed improvements for the Dallas Floodway
27 system.⁹

28 29 **Forward Dallas! Long Range Plan**

30 *Comprehensive Plan: Forward Dallas! Let's Build our Future - The City of Dallas*, as adopted on June 14,
31 2006, is a citywide comprehensive plan to guide growth and development. Related to the proposed
32 project, the comprehensive plan incorporates many elements of the previously cited studies *Trinity River*
33 *Corridor Comprehensive Land Use Plan* and *A Balanced Vision Plan for the Trinity River Corridor*. The
34 purpose is to guide development, creating a city with many neighborhoods of unique character, safe
35 parks, bustling transit centers, a thriving urban downtown and excellent employment opportunities. The

⁹ Federal Register Vol. 74, No. 195, October, 2009.

1 plan outlines a long-range vision for the city that focuses on guiding and integrating land use,
2 transportation, and economic development.

3
4 Land use designations within the proposed project area as presented on the Land Use 2002 map in
5 *Forward Dallas!* include predominantly single-family residential land use within the northern portion of the
6 proposed project and some industrial/retail within the southern portion of the proposed project and well as
7 to the west of IH 45. The Vision Illustration in *Forward Dallas!* depicts the proposed project as passing
8 adjacent to residential and urban neighborhoods for most of its length, with areas of mixed-use
9 development, floodplains, and open spaces to the south.

10 11 **Regional Rail Corridor Study and the Regional Transit Initiative**

12 According to NCTCOG, the proven ability of rail service to improve mobility will play a crucial role in
13 meeting the future transportation needs of the region. The NCTCOG's *Regional Rail Corridor Study*¹⁰
14 recommends expanding regional rail service in the DFW Metropolitan Area, including service within the
15 proposed project area. The *Regional Rail Corridor Study and Regional Transit Initiative*¹¹ recommended
16 the formation of a Regional Rail Authority. The proposed structure would include the continued growth of
17 the Dallas Area Rapid Transit (DART), the Fort Worth Transportation Authority (The T), along with a new
18 Regional Rail Authority.

19 20 **South Dallas/Fair Park Economic Development Corridor Plan**

21 The *South Dallas/Fair Park Economic Development Corridor Plan*¹² study area is generally bounded by
22 the UPRR along the north, the Southern Pacific Railroad along the eastern edge to the existing CF Hawn
23 Freeway, then along CF Hawn to the DP&L easement, and along the DP&L easement to the existing SM
24 Wright Freeway. The southwestern boundary is the Southern Pacific Railroad, parallel to and west of
25 Lamar Street. The northwestern boundary is the Santa Fe Railroad and R.L. Thornton Freeway.

26
27 In February of 2000, the Dallas City Council passed a resolution establishing a moratorium on the
28 issuance of building permits and certificates of occupancy for a number of listed uses located in the South
29 Dallas/Fair Park Community. The concentration of these uses within the community was deemed to have
30 had a negative impact by disrupting residential neighborhoods, discouraging business development,
31 promoting crime, and causing urban blight. During the moratorium, the city initiated Phase One during
32 which time the city performed appropriate analyses, conducted hearings, evaluated alternatives, and
33 prepared recommendations on the proper zoning in South Dallas/Fair Park that would address the

¹⁰ NCTCOG (July 2005), *Regional Rail Corridor Study*, Study Report,
<http://www.nctcog.org/trans/transit/planning/rrcs/index.asp>.

¹¹ NCTCOG (2004), *Regional Transit Initiative*, <http://www.nctcog.org/trans/transit/planning/rti/index.asp>.

¹² South Dallas/Fair Park Economic Development Corridor Plan.
<http://southerndallas.org/documents/planning/9%20South%20Dallas%20Fair%20Park/South%20Dallas%20Fair%20Park%20Economic%20Development%20Corridor%20Plan%202001.pdf>

1 concerns related to these uses. The Phase One Report documented existing conditions within South
2 Dallas/Fair Park in the areas of land use, Texas Alcoholic Beverage Commission (TABAC) permit data,
3 regulatory impacts, crime, and code compliance. The Phase One Report documented the results of
4 these analyses and recommended the creation of a Planned Development District (PDD) and an
5 economic development strategy focusing on the major corridors in South Dallas.

6
7 The City of Dallas then moved to implement the recommendations of Phase One with a Phase Two Plan.
8 In January 2001, the city initiated Phase Two, a two-pronged strategy to assist in the revitalization of the
9 South Dallas/Fair Park Community. The two goals of Phase Two were to:

- 10 1. Address impacts of high intensity land uses along commercial corridors in adjacent
11 residential neighborhoods through a Planned Development District.
- 12 2. Create economic development strategies to encourage desirable development along the
13 business corridors.

14
15 The *South Dallas/Fair Park Economic Development Corridor Plan* study report contains strategies to
16 encourage revitalization of the major commercial corridors in accordance with the land use plan
17 embodied in the Planned Development District (PDD). The report is structured into seven main areas:

- 18 1. Analysis of Current Conditions
- 19 2. Analysis of the Impacts of the Planned Development District
- 20 3. Review of Current Revitalization Initiatives
- 21 4. Fundamental Objectives Guiding Corridor
- 22 5. Strategies for Revitalization
- 23 6. Development Opportunity Sites
- 24 7. Development Opportunity Site Illustrations

25
26 The *South Dallas/Fair Park Economic Development Corridor Plan* study report presents the basic
27 economic development revitalization strategy recommendations needed to address commercial corridor
28 issues identified for South Dallas/Fair Park. The report also offers conceptual frameworks for developing
29 and implementing the strategies more fully and ensuring that the basic principles are follows.

30 **NCTCOG's Metropolitan Transportation Plan**

31
32 As generated and maintained by the NCTCOG, there have been eleven MTPs in the DFW region starting
33 in 1974. The current plan, adopted on March 10, 2011 by the RTC of the NCTCOG, is titled *Mobility*
34 *2035: The Metropolitan Transportation Plan for the Dallas-Fort Worth Area*.¹³ On July 14, 2011, this plan
35 was found to conform to the SIP. The *Mobility 2035 Transportation Plan* presents a system of

¹³ *Mobility 2035* was determined on July 14, 2011 to meet all the requirements for conformity under the Clean Air Act Amendments (CAAA) of 1990.

1 transportation improvements needed to maintain mobility in the DFW Metropolitan Area through the year
2 2035, and serves as a guide for the expenditure of state and federal funds for the region. Its
3 development was coordinated among local governments, transit authorities, NTTA, and TxDOT. The
4 plan was formulated through a process of forecasting future travel demand, evaluating system
5 alternatives, and selecting options, which best meet the mobility needs of the region. The proposed
6 project is listed in *Mobility 2035 Transportation Plan* as a part of the proposed SM Wright Parkway and
7 proposed Trinity Parkway improvements (see **Appendix F-1**).

8 9 **Transportation Improvement Program**

10 The NCTCOG FY 2013-2016 Transportation Improvement Program (TIP) ¹⁴ for the DFW Metropolitan
11 Area is a staged, multi-year program of projects proposed for funding by federal, state, and local sources
12 within the DFW Metropolitan Area. The TIP is developed by the NCTCOG's RTC in cooperation with
13 local governments, TxDOT, NTTA, and local transportation authorities. The projects included within the
14 FY 2013-2016 TIP were selected to implement improvements consistent with the *Mobility 2035*
15 *Transportation Plan*. Roadway improvement plans for the study area identified within the TIP may
16 provide additional traffic-carrying capability to respond to the projected population and employment
17 growth. The proposed project improvements are consistent with the FY 2013-2016 TIP, which received
18 RTC approval on April 12, 2012. The U.S. Department of Transportation (USDOT) (FHWA/Federal
19 Transit Administration [FTA]) found the MTP to conform to the SIP on July 14, 2011 and found the TIP to
20 conform on November 1, 2012.

21
22 The appropriate FY 2013-2016 TIP pages are provided in **Appendix F-2**. See **Appendix F-3** for a figure
23 depicting MTP reference numbers and limits (per the *Mobility 2035 Network Listings, 2011 Transportation*
24 *Conformity, Appendix 10.8: Roadway System [Capacity Staging]*) as well as the CSJs within the
25 proposed project limits.

26 27 **2.5 Logical Termini**

28 As previously discussed, the proposed project includes improvements to the SM Wright Freeway/US 175
29 from IH 45 to SH 310 (approximately 2.2 miles), and the realignment of the CF Hawn Freeway segment of
30 US 175 with the construction of new DC ramps between CF Hawn Freeway/US 175 and IH 45
31 (approximately 1.5 miles). In addition, the realignment of the CF Hawn Freeway and the construction of
32 the DC ramps to IH 45 would necessitate the construction of a new interchange with IH 45 and the
33 widening/restriping of IH 45 from south of Lamar Street to SM Wright Freeway/US 175 (approximately 2.3
34 miles). The proposed project has independent utility and would not preclude other foreseeable
35 transportation improvements within the project area.

¹⁴ The FY 2013-2016 TIP was determined on November 1, 2012 to meet all the requirements for a conformity under the Clean Air Act Amendments (CAAA) of 1990.

1 **2.6 Public Involvement**

2 The proposed project was initially investigated as part of the *Trinity Corridor Major Investment Study*
3 (MIS) in 1997. The proposed project was also discussed within the *Trinity Corridor Balanced Vision Plan*,
4 dated 2003 (**Section 2.5**). In addition, the project was discussed and further developed as a TxDOT
5 project during the planning of the proposed Trinity Parkway project that has been included as part of the
6 NCTCOG's Metropolitan Transportation Plan for over a decade. Interest in the proposed project was
7 accelerated by the development of the Trinity Parkway DEIS and the SDEIS.

8
9 Since 2006, TxDOT's focus for the proposed project has been primarily on the downsizing of the existing
10 SM Wright Freeway from a six-lane freeway with frontage roads to a low speed, urban arterial. In order to
11 gather valuable input from the surrounding community and to actively involve the various project
12 stakeholders in the project development process, a Stakeholder Work Group comprised of
13 representatives from TxDOT, stakeholder agencies, local government, and local community group
14 leaders was formed in 2008. This stakeholder group met a total of four times on March 31, 2008,
15 September 9, 2008, December 9, 2008, and January 13, 2009 at the Missionary Baptist Church. During
16 these Stakeholder Work Group meetings, items such as aesthetics, community priorities, potential
17 alignment alternatives, schematic design, and environmental issues were discussed and evaluated. The
18 development of potential alignment alternatives during these meetings was an iterative process involving
19 active collaboration between stakeholders, project design engineers, and TxDOT.

20
21 The following entities were invited as participants in the Stakeholder Work Group meetings:

- 22
- South Boulevard/Park Row Historic District
 - Wendelkin/Discoll Neighborhood Association
 - Queen City Neighborhood Association
 - Forest Heights Neighborhood Association
 - SouthFair Community Development Corp.
 - Forest Heights Neighborhood Development Corp.
 - Innerscity Community Development Corp.
 - St. Phillip's School and Community Center
 - H.S. Thompson Elementary School (DISD)
 - MLK, Jr. Elementary School (DISD)
 - Ideal Neighborhood Association
 - Dallas Black Chamber of Commerce
 - Grace & Mercy Missionary Baptist Church
 - Major commercial property owners
 - DHA-Turner Courts
 - DHA-Rhoades Terrace
 - Dallas Black Chamber of Commerce
 - Grace & Mercy Missionary Baptist Church
 - Major commercial property owners
 - Peoples Missionary Baptist Church
 - Greater New Zion Baptist Church
 - New Hope Baptist Church
 - South Dallas Baptist Church
 - South Dallas Nursing Home
 - Clean South Dallas
 - T.R. Hoover CDC
 - Peoples Missionary Baptist Church
 - DHA-Park Manor

1 In addition to the above-mentioned entities, various staff members from the NTTA, DART, TxDOT,
2 NCTCOG, and the City of Dallas were also invited to the Stakeholder Work Group meetings.

3

4 A detailed description of the various public, stakeholder, and general project meetings relating to the
5 proposed project, including locations and various meeting topics, is provided in **Table 2-11**.

6

TABLE 2-11. 2008-2012 PUBLIC, STAKEHOLDER, AND PROJECT MEETINGS RELATING TO THE PROPOSED PROJECT

Meeting Date	Meeting Type	Location	Attendees	Topics Discussed
December 13, 2007	Project Kick-off Briefing	Dallas City Hall	Councilwoman Carolyn Davis, TxDOT Project Team	Project Purpose and Need, Alternatives, survey on community priorities
February 5, 2008	Dallas City Council Trinity River Committee Briefing	Dallas City Hall Council Chambers	City Council Committee Members, TxDOT Project Team	Project Purpose and Need, progress to date, aesthetic design components
February 20, 2008	Meeting with family of S.M. Wright	Peoples Baptist Church	Reverend S.M. Wright and family, Project Team	Project Purpose and Need, progress to date
March 31, 2008	Stakeholder Work Group #1	Peoples Baptist Church	Community Workgroup, City of Dallas Representatives and TxDOT Project Team	Project Purpose and Need, Alternatives, survey on community priorities
September 9, 2008	Stakeholder Work Group #2	Peoples Baptist Church	Community Workgroup, City of Dallas Representatives and TxDOT Project Team	Adjacent land uses, aesthetic potential, additional project area
October 14, 2008	Community Meeting hosted by Councilwoman Davis	Peoples Baptist Church	Community Workgroup, TxDOT, City of Dallas Representatives, and community residents	Briefing on the Trinity River Corridor Update
October 25, 2008	Bus Tour hosted by Councilwoman Davis	Project Area	Councilwoman Davis, Community Members and Project Team	A tour of the project area was given with an overview of the project.
December 9, 2008	Stakeholder Work Group #3	Peoples Baptist Church	Community Workgroup, City of Dallas Representatives and TxDOT Project Team	Design Alternatives, side street/cross street access
November 18, 2008	Briefing for Churches United Luncheon	Peoples Baptist Church	Local Pastors, Representatives and TxDOT Project Team	Overview of project, project process, discussion of traffic, roadway concepts, next steps in the planning process
January 13, 2009	Stakeholder Work Group #4	Peoples Baptist Church	Community Workgroup, City of Dallas Representatives and TxDOT Project Team	Alternatives and choose preferred alignment
February 19, 2009	Briefing	Representative Eddie Bernice Johnson's office	Unify South Dallas Community Leader, City of Dallas Staff, TxDOT Project Team, Representatives of Eddie Bernice Johnson	Project Overview, Community Planning Process, Relation to DiMambro's South Dallas Action Plan, Next Steps in Planning Process
April 15, 2010	Presentation to St. Phillips Community	St. Phillips School	Representatives from St. Phillips, Forest Heights, Colonial Heights, and Cornerstone Baptist Church	Project Updates
April 21, 2009	Dallas Council Trinity River Committee Briefing	Dallas City Hall	Council Committee Members, TxDOT Project Team	Project Updates
April 28, 2009	Public Meeting #1	MLK Senior Center	General Public	Present preferred alignment
March 8, 2010	Interagency Coordination Meeting	TxDOT Dallas District	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, TxDOT ENV, TxDOT Project Team	Project overview, design analysis, schedule, and other topics

TABLE 2-11. 2008-2012 PUBLIC, STAKEHOLDER, AND PROJECT MEETINGS RELATING TO THE PROPOSED PROJECT

Meeting Date	Meeting Type	Location	Attendees	Topics Discussed
March 8, 2010	Dallas City Council Briefing	Dallas City Hall Council Chambers	City Council Members, TxDOT Project Team, representative from NCTCOG	Review Project Need, Update on Planning Process, Update on Community Involvement, Update on Transportation Alternatives, Discussion of Potential Funding Sources, Next Steps in Planning Process
March 30, 2010	Public Meeting #2	MLK Senior Center	General Public	Present alternatives for IH 45 direct connect ramps from U.S. 175/SH 310 to IH 45, review preferred alignment on SM Wright, view potential range of aesthetic improvements
April 20, 2010	Briefing to Property Owners	TxDOT Dallas District	J.B. Brown, Glenn Bragg, A.E. Arrington, Elwin Johnson, TxDOT Project Team	Review the proposed project improvements and potential ROW impacts to properties along IH 45
May 6, 2010	Interagency Coordination Meeting	TxDOT Dallas District	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, TxDOT ENV, TxDOT Project Team	Project overview, design analysis, schedule, and other topics
May 11, 2010	St. Phillips School Board Briefing	St. Phillips School	School Trustee Board, PSA meeting (parents, students and faculty), TxDOT Project Team	Present project improvements in the vicinity of the school and gather feedback
May 18 – 20, 2010	Value Engineering Study	TxDOT Dallas District	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, TxDOT DES, TxDOT Project Team	Project overview, design analysis, potential design changes, project costs
June 2, 2010	Interagency Coordination Meeting	NCTCOG	Representatives from NCTCOG and TxDOT Project Team	Proposed improvements, phasing, lane balance, and cost
June 3, 2010	Interagency Coordination Meeting	NCTCOG	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, USACE, TxDOT ENV, TxDOT Project Team	Proposed improvements and impacts to USACE flood protection assumptions and study
July 27, 2010	Briefing at City of Dallas Transportation Stakeholder Meeting	City of Dallas	Representatives from City of Dallas and TxDOT Project Team	Proposed SM Wright Improvements, ROW remainders, and potential development opportunities
August 16, 2010	Interagency Coordination Meeting	NCTCOG	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, USACE, TxDOT, and TxDOT Project Team	Proposed improvements, impacts to USACE flood protection assumptions and study
September 7, 2010	Interagency Coordination Meeting	NCTCOG	Representatives from NCTCOG and TxDOT Project Team	Proposed improvements, phasing, lane balance, and cost
September 22, 2010	Interagency Coordination Meeting	NCTCOG	Representatives from City of Dallas, FHWA, NTTA, NCTCOG, USACE, TxDOT, and TxDOT Project Team	Proposed improvements and impacts to USACE flood protection assumptions and study, ROW
January 6, 2011	Interagency Coordination Meeting	NCTCOG	Representatives from NCTCOG and TxDOT Project Team	Proposed improvements, phasing, lane balance, operational analysis, and cost
January 10, 2011	Interagency Coordination Meeting	TxDOT Dallas District	Representatives from NCTCOG and TxDOT Project Team	Proposed improvements, phasing, lane balance, operational analysis, and cost
January 13, 2011	Interagency Coordination Meeting	Webex Teleconference	Representatives from FHWA, TxDOT DES, and TxDOT Project Team	Proposed improvements, phasing, lane balance, operational analysis, IAJ Report
March 21, 2011	Project Briefing	Peoples Baptist Church	Reverend S.M. Wright Jr.	Project update and proposed planning process to project completion
April 27, 2011	Interagency Coordination Meeting	Webex Teleconference	Representatives from FHWA, TxDOT DES, and TxDOT Project Team	Proposed improvements, phasing, lane balance, operational analysis, IAJ Report

TABLE 2-11. 2008-2012 PUBLIC, STAKEHOLDER, AND PROJECT MEETINGS RELATING TO THE PROPOSED PROJECT

Meeting Date	Meeting Type	Location	Attendees	Topics Discussed
May 23, 2011	Council Member Briefing	City of Dallas	Councilwomen Davis and Linda Koop	Update on major issues and changes, project scope, SM Wright concept plans, agency coordination, funding, and next steps
June 13, 2011	Council Briefing	Dallas City Hall	Councilwomen Davis & Koop, TxDOT, NCTCOG, City of Dallas Staff	Briefing on schedule, funding and aesthetics
June 14, 2011	Trinity Interagency Executive Team (IET)	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
June 23, 2011	Briefing	Teleconference	Representatives from TxDOT Dallas, TxDOT ENV, Project Team	Historic resource survey coordination
July 12, 2011	Trinity IET	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
July 25, 2011	Briefing	Dallas City Hall	Representatives from City of Dallas Staff	Brief Dallas staff on aesthetics plan
August 9, 2011	Trinity IET	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
September 29, 2011	Council Member Briefing	Dallas City Hall	Councilwomen Davis, Koop, TxDOT, NCTCOG, Dallas Staff	Briefing on schedule, funding and aesthetics
October 4, 2011,	Coordination Meeting	Teleconference	Representatives from Transportation Planning and Programming (TPP) Division, TxDOT Dallas, NCTCOG	Coordination meeting on traffic
October 7, 2011	Coordination Meeting	Teleconference	Representatives from TPP, TxDOT Dallas, NCTCOG	Coordination meeting on traffic
October 11, 2011	Trinity IET	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
October 12, 2011	Coordination Meeting	TxDOT Dallas	Representatives from TxDOT Dallas, Baker (Design Engineer), NCTCOG	Coordination meeting on design changes on Trinity Pkwy Phase 1
October 12, 2011	Coordination Meeting	TxDOT Dallas	Representatives from TxDOT Dallas, NCTCOG	Coordination on schedule
October 24, 2011	Coordination Meeting	Teleconference	Representatives from TxDOT Dallas, ENV, DES and FHWA	Coordination on status and schedule
October 25, 2011	Dallas Trinity Partner Agency Executive Team (PAET) Meeting	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, NCTCOG, Dallas Co., etc.)	Project updates
November 2, 2011	Coordination Meeting	TxDOT Waco Office	Representatives from TPP, TxDOT Dallas, NCTCOG	Coordination meeting on traffic
November 18, 2011	Trinity IET	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
December 12, 2011	Council Member Briefing	Dallas City Hall	Councilwomen Davis & Koop, TxDOT, NCTCOG, Dallas Staff	Briefing on schedule, funding and aesthetics

TABLE 2-11. 2008-2012 PUBLIC, STAKEHOLDER, AND PROJECT MEETINGS RELATING TO THE PROPOSED PROJECT

Meeting Date	Meeting Type	Location	Attendees	Topics Discussed
December 13, 2011	Trinity IET	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, TCEQ, NCTCOG, DWU, Dallas Co., etc.)	Project updates
December 14, 2011	Coordination Meeting	TxDOT Dallas	Representatives from TxDOT Dallas, NCTCOG	Coordination meeting on traffic
January 6, 2012	Interagency Coordination Meeting	NCTCOG	Representatives from NCTCOG, FHWA, and TxDOT Project Team	Coordination regarding necessary STIP/TIP revisions (for inclusion in the May or November 2012 revisions) and possible MTP consistency issues; updates providing on the IAJ report, floodway issues, and value engineering
June 25, 2012	Dallas Elected Officials Briefing	Dallas City Hall	Councilwoman Davis, NCTCOG, TxDOT Project Team	Project Updates
July 30, 2012	Stakeholder Work Group # 5	Peoples Baptist Church	Community Workgroup, City of Dallas Representatives and TxDOT Project Team	Project Updates
August 7, 2012	Public Meeting #3	MLK Senior Center	General Public	Present alternatives development updates and general design features on SM Wright, and view potential range of aesthetic improvements
September 7, 2012	Dallas Elected Officials Briefing	Dallas City Hall	Mayor Rawlings, Councilmembers Davis, Atkins, and Koop, Representative for Congresswoman Johnson, NCTCOG, TxDOT Project Team	Present alternatives development updates and general design features on SM Wright, and view potential range of aesthetic improvements
October 19, 2012	Dallas Elected Officials Briefing	Congresswoman Johnson's Office	Congresswoman Johnson and staff, Councilwoman Davis, NCTCOG, City Staff, Reverend Britt, H. Lawson, TxDOT Project Team	Present alternatives development updates and general design features on SM Wright, and view potential range of aesthetic improvements
November 7, 2012	Elected Official Briefing	State Representative Giddings' Office	State Representative Giddings, Councilwoman Davis, TxDOT, NCTCOG, City of Dallas	Present alternatives development updates and general design features on SM Wright, and view potential range of aesthetic improvements
November 13, 2012	Meeting with Community Stakeholders	TxDOT Dallas	Reverend Britt and associates, NCTCOG, City of Dallas, TxDOT Project Team	Present alternatives development updates and general design features on SM Wright, and view potential range of aesthetic improvements
January 31, 2013	Public Hearing	Park South YMCA	General Public	Formal presentation of EA and project design; opportunity for public verbal and written comments; opportunity for public to view exhibits on project impacts and design
February 6, 2013	Elected Official Briefing	Dallas City Hall	Senator West and Congresswoman Johnson, TxDOT Project Team	Present alternatives development updates on IH 45
April 4, 2013	Elected Official Briefing	Dallas City Hall	Councilwoman Carolyn Davis, TxDOT Project Team	Present alternatives development updates on IH 45
April 12, 2013	Elected Official Briefing	Dallas City Hall	Congresswoman Johnson and TxDOT Project Team	Present alternatives development updates on IH 45
April 24, 2013	Elected Official Briefing	Dallas City Hall	Rod Givens representing Congresswoman Eddie Bernice Johnson, TxDOT Project Team	Present alternatives development updates on IH 45
May 4, 2013	Town Hall Meeting	St. Phillips School	Senator West, Councilwoman Davis, General Public, TxDOT Project Team	Present alternatives development updates on IH 45
May 20, 2013	DISD Briefing		DISD Trustees, TxDOT Project Team	Present alternatives development updates on IH 45

TABLE 2-11. 2008-2012 PUBLIC, STAKEHOLDER, AND PROJECT MEETINGS RELATING TO THE PROPOSED PROJECT

Meeting Date	Meeting Type	Location	Attendees	Topics Discussed
June 4, 2013	Dallas Trinity PAET Meeting	Dallas City Hall	Representatives from various agencies with projects along the Trinity River (City of Dallas, NTTA, USACE, TxDOT, NCTCOG, Dallas Co., etc.)	Project updates
NOTES: Interstate Access Justification (IAJ)				

1

2 **Public Meetings**

3 Three public meetings regarding the proposed project were held at the Martin Luther King Jr., Senior
 4 Center on April 28, 2009, March 30, 2010, and August 7, 2012. These meetings were open house format
 5 with the same agenda: to present the public with project specific information and to gather public
 6 comments regarding the proposed project. Meeting attendees were able to view project schematics,
 7 typical sections, constraints maps, and other exhibits. Project engineers and other project specialists
 8 (environmental, ROW, etc.) were available to answer questions from the meeting attendees. Public
 9 notices were sent to adjacent property owners and local, city, and state elected officials, and letters were
 10 sent to non-elected public officials. Public Meeting summaries have been provided below for each of the
 11 three Public Meetings.

12

13 Public Meeting Summary for Meeting held April 28, 2009

14 On April 28, 2009, TxDOT in cooperation with the City of Dallas held a Public Meeting and Open House
 15 to present the preliminary design concepts for the proposed SM Wright Parkway in the City of Dallas.
 16 The Public Meeting presented the results from several months of productive meetings with stakeholders
 17 in the South Dallas Community, which included church leaders, representatives from community
 18 development corporations, public officials, community activists, and neighborhood residents.

19

20 Notices of the Public Meeting were published in the following major newspapers:

- 21 • *The Dallas Morning News Metro Edition*, March 29 and April 4, 2009
- 22 • *Al Dia* (in Spanish), March 28 and April 18, 2009
- 23 • *Dallas Weekly* (African American Newspaper), March 26 and April 23, 2009

24

25 The meeting format consisted of an Open House from 4:30 p.m. to 6:30 p.m. followed by a presentation
 26 at 6:30 p.m. that provided an overview of the proposed project. TxDOT and City of Dallas staff were
 27 available after the presentation to answer questions regarding the proposed project, and received public
 28 comments about the proposed project improvements and the relationship of the proposed SM Wright
 29 Parkway to the proposed Trinity Parkway. The public was given the opportunity to provide written
 30 comments on the forms provided that evening, or mail the forms with comment to the designated contact

1 on or before May 8, 2009. Preliminary concept exhibits were on display for various alternatives, and a
2 copy of the PowerPoint presentation was provided as a handout. Project personnel were available to
3 assist in orientation and interpretation of the exhibits and other materials on display and discuss
4 neighborhood mobility and potential land use benefits associated with the project. The meeting consisted
5 of a total of 109 registered attendees, which included three public officials, 18 TxDOT Dallas personnel
6 and consultants, one person from the media (*Dallas Morning News*) and 87 attendees from the general
7 public.

8
9 Twenty-two written comment forms were received during the 10-day comment period, and no comments
10 were received by e-mail during the comment period. No formal verbal comments were received at the
11 public meeting. Notes were taken by staff regarding informal verbal public comments.

12
13 The context of the comments received during the 10-day comment period included support of the project,
14 support for an alternative concept developed by the South Dallas Hope Initiative organization (4-lane SM
15 Wright Parkway vs 6-lane), support for different design elements of the proposed SM Wright Parkway (i.e.
16 at-grade, landscaping, pedestrian facilities, lighting, and signage), comments regarding the public
17 involvement process as well as requests for additional information, and comments regarding the mission
18 of the proposed project (why do it?). All comments were noted and considered for the next phase of the
19 project planning.

20 21 Public Meeting Summary for Meeting held March 30, 2010

22 On March 30, 2010, TxDOT in cooperation with the City of Dallas held a Public Meeting and Open House
23 to present the preliminary design concepts for the proposed SM Wright Parkway.

24
25 Notices of the Public Meeting were published in the following major newspapers:

- 26 • *The Dallas Morning News Metro Edition*, February 27 and March 20, 2010
- 27 • *Al Dia* (in Spanish), February 27 and March 20, 2010
- 28 • *The Dallas Examiner* (African American Publication), February 25 and March 18, 2010
- 29 • *The Dallas Weekly* (African American Publication), February 25 and Thursday, March 18,
30 2010

31
32 Also, approximately 500 flyers announcing the March 30, 2010 Open House Public Meeting were
33 distributed to the following locations in the project area:

- 34 • Martin Luther King Jr. Recreation Center
- 35 • Exline Recreation Center
- 36 • Park South YMCA
- 37 • Peoples Baptist Church

- 1 • St. Paul Missionary Baptist Church
- 2 • Cornerstone Baptist Church
- 3 • South Dallas Nursing Center
- 4 • St. Philip's School and Community Center
- 5 • South Dallas/Fair Park Innercity Community Development Corporation (ICDC)
- 6

7 Businesses located on MLK near SM Wright Freeway/US 175 also received flyers, including:

- 8 • Eva's House of Bar-B-Q
- 9 • Roberts Ready-to-Wear
- 10 • NCS Cellular & Tax Services
- 11 • Davis Apparel
- 12 • Cliff's Check Cashing
- 13

14 The meeting format consisted of an Open House from 4:00 p.m. to 7:00 p.m. with no formal presentation.
15 The public was given the opportunity to provide written comments on the forms provided that evening, or
16 mail the forms with comment to the designated contact on or before April 9, 2010. Preliminary project
17 exhibits were on display, and a project synopsis showing the project location and detailing the need and
18 purpose was provided as a handout. Project personnel were available to assist in orientation and
19 interpretation of the exhibits and other materials on display and discuss possible mobility and
20 environmental effects of the proposed project. The meeting consisted of 124 registered attendees, five
21 public officials and accompanying staff members, and 21 TxDOT Dallas District personnel and
22 consultants. Two print media representatives, (one from the Dallas Morning News, and the other from the
23 Dallas Observer), were also present at the Open House Public Meeting.

24
25 There were 44 written comments received at the March 30, 2010 meeting, four written comment forms
26 were received during the 10-day comment period, and TxDOT received one email request for meeting
27 handouts during the comment period. Notes were taken by staff regarding informal verbal public
28 comments.

29
30 The context of the comments received during the 10-day comment period included support for the
31 proposed project and requests for more information. Some comments expressed concern regarding the
32 project design, aesthetics, the freeway name, potential noise impacts, potential ROW impacts, and
33 environmental justice. All comments were noted and considered for the next phase of the project
34 planning.

1 Public Meeting Summary for Meeting held August 7, 2012

2 On August 7, 2012, TxDOT in cooperation with the City of Dallas held a Public Meeting and Open House
3 to focus on alternatives development updates and general design features of the proposed SM Wright
4 Parkway.

5

6 Notices of the Public Meeting were published in the following major newspapers:

- 7 • The Dallas Morning News Metro Edition, July 5 and July 28, 2012
- 8 • Al Dia (in Spanish), July 7 and July 28, 2012
- 9 • The Dallas Examiner (African American Publication), July 5 and July 26, 2012
- 10 • The Dallas Weekly (African American Publication), July 5 and July 26, 2012

11

12 Also, approximately 1,500 flyers announcing the August 7, 2012 Open House Public Meeting were
13 distributed to the following locations in the project area:

- 14 • Martin Luther King Jr. Center (three sites)
 - 15 ○ Recreation Center
 - 16 ○ Seniors Center
 - 17 ○ Core Building
- 18 • Exline Recreation Center
- 19 • Park South YMCA
- 20 • New Hope Baptist Church
- 21 • Peoples Baptist Church
- 22 • St. Paul Missionary Baptist Church
- 23 • Cornerstone Baptist Church
- 24 • South Dallas Nursing Center
- 25 • St. Philip's School and Community Center
- 26 • SouthFair Community Development Corporation
- 27 • South Dallas/Fair Park ICDC

28

29 Businesses located on MLK near SM Wright Freeway/US 175 also received flyers, including:

- 30 • Eva's House of Bar-B-Q
- 31 • Roberts Ready-to-Wear
- 32 • Black Jack's Pizza

33

34 The meeting format consisted of an Open House from 4:00 p.m. to 7:00 p.m. with no formal presentation.
35 The public was given the opportunity to provide written comments on the forms provided that evening, or
36 mail the forms with comments to the designated contact on or before August 17, 2012. Preliminary
37 project exhibits were on display, and a SM Wright Project Concept Document showing the project location

1 and detailing the project timeline was provided as a handout. Project personnel were available to assist
2 in orientation and interpretation of the exhibits and other materials on display and discuss possible
3 mobility and environmental effects of the proposed project. The meeting consisted of 129 registered
4 attendees, four public officials and their staff members, 22 TxDOT Dallas District personnel and
5 consultants, as well as one print media representative from the Dallas Morning News.

6
7 There were 25 written comments received at the August 7, 2012 meeting, and TxDOT received 369
8 written comment forms and four emails during the 10-day comment period. Notes were taken by staff
9 regarding informal verbal public comments.

10
11 The context of the comments received during the 10-day comment period included support for the
12 proposed project, support for the No-Build Alternative (why do it?), ROW concerns, noise concerns, traffic
13 concerns, pollution concerns, safety concerns, aesthetic concerns, design concerns, community impact
14 concerns, and requests for general project information. All of these comments as well as any future
15 comments have been given or will receive full consideration during the project development process
16 before the final decision is made.

17
18 Public Hearing Summary for Hearing held January 31, 2013

19 A public hearing was held at the Park South YMCA, 2500 Romine Avenue, Dallas Texas 75215 on
20 Thursday, January 31, 2013. The public hearing presented the public with project specific information
21 and gathered public comments regarding the proposed project. Hearing attendees were able to view
22 project schematics, typical sections, constraints maps, and other exhibits. Project engineers and other
23 project specialists (environmental, ROW, etc.) were available to answer questions from the meeting
24 attendees. After TxDOT's formal presentation on the proposed project and the Opportunity for Public
25 Comment period, the hearing was adjourned.

26
27 Notices of the public hearing were published in the following major newspapers:

- 28 • The Dallas Morning News Metro Edition, December 30, 2012 and January 20, 2013.
- 29 • Al Dia (in Spanish), December 29, 2012 and January 19, 2013
- 30 • The Dallas Examiner (African American Publication), January 10, 2013 and January 24, 2013
- 31 • The Dallas Weekly (African American Publication), December 27, 2012 and January 17, 2013

32
33 Public Hearing notices were mailed to adjacent property owners and local, city, state and federal elected
34 officials, as well as to non-elected public officials. Flyers announcing the Public Hearing were posted at:
35 Martin Luther King Jr. Center, Exline Recreation Center, Park South YMCA, Peoples Baptist Church,
36 Cornerstone Baptist Church, South Dallas Nursing Center, St. Philips School and Community Center,
37 South Dallas/Fair Park Inncercity Community Development Corporation, Dallas Black Chamber of

1 Commerce; and the following businesses located on MLK near SM Wright Freeway: Eva's House of Bar-
2 B-Q, Roberts Ready-to-Wear, and Black Jack's Pizza.

3

4 There were 148 registered attendees at the Public Hearing. Seven were public and elected officials,
5 which included the following: Carolyn Davis, Dallas City Council; Brad Adams, Mayor Pro-Tem City of
6 Crandall; Rod Givens representing Congresswoman Eddie Bernice Johnson; Kerry Goodwin representing
7 State Representative Eric Johnson District 100; Tim Lott, Dallas Housing Authority; John Wiley Price,
8 Dallas County Commissioner; and Daniel Clayton representing state Senator Royce West.

9

10 Sixteen citizens made verbal comments during the Public Hearing and one citizen gave a verbal
11 comment to the court reporter during the Public Hearing recess. Nine comment forms were submitted
12 with written comments at the Public Hearing and one additional comment form was received during the
13 10-day comment period, which ended on February 11, 2013.

14

15 The context of the verbal and written comments included general support for the proposed project. Many
16 of the comments indicated that economic development in the area was a major concern and expressed
17 hope that the project would create economic development. Several citizens expressed a major concern
18 and did not support the proposed ramp configuration on IH 45. The primary concern was about
19 combining the existing ramp to Martin Luther King Jr. Blvd./Pennsylvania Avenue with the exit to Lamar
20 Street, resulting in a loss of one of the existing ramps, and requiring vehicles traveling to
21 MLK/Pennsylvania to go through the signalized interchange at Lamar Street.

22

23 Because of these concerns, TxDOT made revisions to the proposed entrance and exit ramps on IH 45 at
24 Lamar Street and Pennsylvania Avenue. The updated design change involved a split ramp configuration
25 with a bypass over Lamar Street in both the northbound and southbound directions. This allows traffic
26 traveling to or from MLK/ Pennsylvania to overpass Lamar Street and not pass through the signalized
27 intersection. The design change required the southbound entrance ramp to IH 45 from Lamar to be
28 moved further west and also required relocation of the existing McDonald Avenue intersection with Lamar
29 Street.

30

31 The changes will be presented in detail to the public at a second Public Hearing to be held June 27, 2013
32 at the Park South YMCA, 2500 Romine Avenue, Dallas, TX 75215. At this time, the communities within
33 and around the project area will have additional opportunity to state their comments and concerns.

3.0 DESCRIPTION OF EXISTING FACILITY

3.1 Existing Facility

The existing facility has been in full operation since the early 1970s, with portions of the facility in operation since the early 1950s. The existing ROW is a heavily urbanized area within the City of Dallas (**Appendices A-1 and A-7**). See **Appendix A-4, Sheet 1** for existing typical sections along the SM Wright Freeway/US 175, **Sheet 3** for existing typical sections along the CF Hawn Freeway (US 175), and **Sheet 4** for existing typical sections along IH 45.

The studied portion of US 175 was constructed in phases in the early 1950s to early 1960s. Since its introduction, the congested freeway and commuter traffic have divided the local neighborhood along SM Wright Freeway. The existing US 175 is a six-lane urban freeway, with discontinuous frontage roads utilizing both one-way and two-way operations, from the southern project limits east of Bexar Street to Martin Luther King Jr. Boulevard. North of Martin Luther King Jr. Boulevard, the roadway terminates at DC ramps with IH 45, Cesar Chavez Boulevard, and Good Latimer Expressway.

US 175 within the project limits is named both SM Wright Freeway and CF Hawn Freeway. The existing SM Wright Freeway facility connects directly to the CF Hawn Freeway through a sharp, accident-prone curve, which has a posted speed of 25 mph. The SM Wright Freeway then continues south along SH 310. The frontage roads along SH 310 terminate at the southern limits of the proposed project where SM Wright Freeway transitions from an urban freeway facility to an urban highway facility. The existing ROW width along SM Wright Freeway generally varies from 165 to 467 feet. Depending on location, either concrete traffic barrier or double-sided metal beam guard fence separates the existing mainlanes. The posted speed along the existing SM Wright Freeway is 60 mph, except for the US 175/SH 310 interchange area. Roadway design standards have improved greatly since the initial design and construction of US 175, and the current roadway exhibits several design deficiencies (**Section 2.2.1**).

As previously discussed, US 175 is referred to as the CF Hawn Freeway southeast of the interchange with SH 310. The existing CF Hawn Freeway is a six-lane urban freeway with partial two-way frontage roads along the corridor. The existing ROW width along CF Hawn generally varies from approximately 293 to 473 feet. Concrete traffic barrier separate the existing mainlanes. The posted speed along the existing freeway is 60 mph.

The studied portion of IH 45 was constructed in the late 1960s to early 1970s. Existing IH 45 is a six-lane urban freeway from the southern project limits south of Lamar Street to the interchange with existing SM Wright Freeway/US 175. The existing interchange between IH 45 and US 175 consists of a northbound two-lane DC entrance ramp from US 175 and a southbound two-lane DC exit ramp to US 175. North of

1 the existing US 175 interchange, IH 45 is a 10-lane section (six mainlanes, four auxiliary lanes) up to the
 2 southern half of the IH 30 interchange. North of the northbound exit to IH 30 and southbound entrance
 3 from IH 30, IH 45 returns to a six-lane section. The IH 45 mainlanes are on structure from the southern
 4 project limits to Lamar Street and from Martin Luther King Jr. Boulevard to the northern project limits. The
 5 mainlanes consist of 12-foot wide travel lanes with 10-foot wide inside and outside shoulders. Existing
 6 frontage roads are present between Lamar Street and Pennsylvania Avenue. The existing ROW width
 7 along IH 45 generally varies from approximately 181 to 630 feet. Identified deficiencies in the current
 8 roadway configuration include insufficient weaving distance between the US 175 and IH 30 DC
 9 ramps. The existing configuration provides approximately 2400 feet (northbound) and 1500 feet
 10 (southbound) of weaving distance between these DC ramps. These distances are insufficient to facilitate
 11 weaving volumes between the mainlanes and DC ramps.

12

13 Within the project limits, the existing facility has multiple bridge crossings, all associated with either
 14 arterials, railroad lines, or roadway connectors. A description of the crossings (overpass or underpass),
 15 their locations, and posted clearances are listed in **Table 3-1**.

16

TABLE 3-1. EXISTING BRIDGE CROSSINGS WITHIN THE PROJECT STUDY LIMITS

Existing Facility Bridge Locations	Overpass / Underpass	Vertical Clearance
IH 45 at RR Sta 480+00	Overpass	*23' 0"
IH 45 at SEB Lamar Street	Overpass	18' 6"
IH 45 at WB Lamar Street	Overpass	17' 9"
IH 45 at U-Turn North of Lamar Street	Overpass	16' 9"
IH 45 at Pedestrian Bridge	Underpass	17' 0"
NB IH 45 Frontage Roads at Pedestrian Bridge	Underpass	18' 9"
SB IH 45 Frontage Roads at Pedestrian Bridge	Underpass	17' 5"
IH 45 at U-Turn South of Pennsylvania Avenue	Overpass	15' 6"
IH 45 at EB Pennsylvania Avenue	Overpass	16' 9"
IH 45 at WB Pennsylvania Avenue	Overpass	16' 9"
IH 45 at U-Turn North of Pennsylvania Avenue	Overpass	17' 11"
IH 45 at U-Turn South of MLK Boulevard	Overpass	16' 4"
IH 45 at EB MLK Boulevard/ Forest Avenue	Overpass	15' 5"
IH 45 at WB MLK Boulevard/ Forest Avenue	Overpass	15' 6"
IH 45 at S Harwood Street	Overpass	14' 10"
IH 45 at EB South Boulevard	Overpass	16' 0"
IH 45 at WB South Boulevard	Overpass	16' 1"
IH 45 at SB Exit 283B (to MLK Jr. Blvd)	Overpass	*20' 7"
IH 45 at SB Exit 283B (to US 175/SM Wright)	Overpass	18' 9"
IH 45 at SB frontage road	Overpass	*24' 7"
IH 45 SB Exit 283B at Grand Avenue	Overpass	15' 5"
IH 45 SB Exit 283B at S Cesar Chavez Boulevard	Overpass	15' 2"
IH 45 NB Entrance from SM Wright at NB Good Latimer Expressway	Overpass	15' 5"
IH 45 NB Entrance from SM Wright at SB Good Latimer Expressway	Overpass	16' 4"
IH 45 NB Entrance from SM Wright at Grand Avenue	Overpass	*22' 7"
IH 45 at Grand Avenue	Overpass	*28' 8"
IH 45 at S Cesar Chavez Boulevard	Overpass	*30' 8"
IH 45 at S Good Latimer Expressway	Overpass	*21' 6"
US 175/CF Hawn Fwy at Bexar Street	Overpass	15' 8"

TABLE 3-1. EXISTING BRIDGE CROSSINGS WITHIN THE PROJECT STUDY LIMITS

Existing Facility Bridge Locations	Overpass / Underpass	Vertical Clearance
SH 310/SM Wright Fwy at Connecting Road U-Turn	Overpass	16' 9"
SH 310/SM Wright Fwy at SB US 175/CF Hawn Fwy	Overpass	16' 5"
SH 310/SM Wright Fwy at U-Turn North of US 175/CF Hawn Fwy	Overpass	16' 11"
US 175/SM Wright Fwy at U-Turn South of Hatcher Street	Overpass	14' 3"
US 175/SM Wright Fwy at Hatcher Street	Overpass	14' 3"
US 175/SM Wright Fwy at U-Turn North of Hatcher Street	Overpass	14' 10"
US 175/SM Wright Fwy at U-Turn South of Pine Street	Overpass	13' 9"
US 175/SM Wright Fwy at Pine Street	Overpass	13' 6"
US 175/SM Wright Fwy at U-Turn North of Pine Street	Overpass	13' 1"
US 175/SM Wright Fwy at U-Turn South of Metropolitan Avenue	Overpass	13' 9"
US 175/SM Wright Fwy at Metropolitan Avenue	Overpass	14' 1"
US 175/SM Wright Fwy at U-Turn North of Metropolitan Avenue	Overpass	13' 9"
US 175/SM Wright Fwy at U-Turn South of Pennsylvania Avenue	Overpass	14' 8"
US 175/SM Wright Fwy at Pennsylvania Avenue	Overpass	14' 9"
NB US 175/SM Wright Fwy at MLK Boulevard/Forest Avenue	Underpass	14' 4"
SB US 175/SM Wright Fwy at MLK Boulevard/Forest Avenue	Underpass	14' 5"
Notes: Vertical clearances were determined by viewing the existing vertical clearance signs posted on the bridges. Vertical clearance signs typically denote a clearance 3 inches less than the actual bridge clearance. * Vertical clearances with an asterisk were not signed with a vertical clearance sign and were determined from as-built record plans.		

1

2 3.2 Surrounding Terrain and Land Use

3 According to the Dallas East and Dallas West USGS topographic maps, the elevations within the project
 4 area range from a minimum of approximately 350 feet above mean sea level (msl) at the southern project
 5 limit to a maximum of approximately 500 feet above msl at the northern project limit (see **Appendix A-3**).
 6 The project area can be characterized as gently sloping with a local topographic trend to the south and
 7 east toward the Trinity River.

8

9 The surrounding land use within the proposed project corridor is urban, and is primarily zoned for
 10 residential, commercial, and industrial use (see aerial photographs in **Appendix A-6**). Several scattered
 11 government/institutional uses for religious establishments (**Appendix A-6**) are also included within the
 12 proposed project corridor. Vacant or undeveloped areas within the proposed project vicinity are zoned
 13 either as residential, industrial, commercial, or planned development.

14

15 Zoning along the northern portion of the SM Wright Freeway is mostly industrial and commercial, while
 16 zoning along the remainder of the facility is primarily residential. In addition, there are several vacant
 17 residential and commercially zoned parcels immediately adjacent to the freeway. Land use is typically
 18 zoned for residential and commercial uses adjacent to the CF Hawn Freeway (US 175). Zoning in the
 19 vicinity of the US 175/SH 310 interchange is dominated by residential development and small commercial
 20 establishments, which assist in supporting the local community. Land use in the immediate vicinity of IH
 21 45 is commercial, residential, and institutional, and is zoned primarily for industrial and commercial use.

1 According to the City of Dallas' online Interactive Zoning Map¹⁵, the zoned categories of land use directly
2 adjacent to the proposed project include the following: single-family and duplex residential category (R-
3 5(A), R-7.5(A) and D(A)), community mixed-use general (RS-MU), multifamily residential (MF-1(A), MF-
4 2(A), and MF-3(A)), industrial manufacturing (IM), neighborhood commercial (NC), community
5 commercial (CC), and parking (P(A)).¹⁶ See **Section 5.2.2** for additional information on land use within
6 the project area as it relates to community impacts.

7

8 **3.3 Traffic Projections**

9 As described in **Section 2.2.1**, traffic volumes¹⁷ were analyzed within the project area. TxDOT ADT
10 volumes for 2010 traffic counts show the existing US 175 at 82,000 vpd and IH 45 at 69,000 vpd. By
11 2035, these vpd numbers are anticipated to increase to 186,200 vpd (127% increase) for US 175 and
12 171,800 vpd (149% increase) for IH 45. The proposed realignment of US 175 allows for the existing SM
13 Wright Freeway/US 175 to be downsized to a low speed arterial. The proposed SM Wright Parkway is
14 projected to carry 57,500 vpd, which is an approximate 30% decrease when compared to the 2010 vpd
15 traffic counts for US 175.

¹⁵ <http://gis.dallascityhall.com/zoningweb/>

¹⁶ <http://www.dallascityhall.org/pdf/planning/ZoningDistrictStandards.pdf>

¹⁷ ADT volumes provided by NCTCOG (December 2011)

1 **4.0 ALTERNATIVES**

2

3 **4.1 No-Build Alternative**

4 The No-Build Alternative represents the case in which the proposed project would not be constructed.
5 Other transportation improvements, including those identified in the NCTCOG's *Mobility 2035*
6 *Transportation Plan*, may be constructed, depending on project development and funding availability
7 issues for each such improvement. Various planned roadway and transit system improvements,
8 bicycle/pedestrian, Intelligent Transportation Systems (ITS) measures, and other capital improvements
9 are assumed to be included in the baseline condition of the project area. Some of these planned major
10 transportation improvements are identified in **Appendix F-1**. Various planned capital improvements in
11 the vicinity of the proposed project are discussed in **Section 6.2.2**. All of these improvements comprise
12 the No-Build Alternative. There are, however, costs involved with the No-Build Alternative. These
13 include:

- 14 • Maintenance of the existing SM Wright Freeway project corridor which includes bridges,
15 frontage roads and mainlanes, along with the maintenance of the interchange at US 175 and
16 SH 310 - the longer improvements and/or reconstruction are postponed, the higher this figure
17 becomes;
- 18 • Increased vehicle operating costs on under-designed, inadequate facilities;
- 19 • Increased costs due to higher rates of accidents and incidents on existing facilities;
- 20 • The monetary value of time lost by motorists due to lower operating speeds, congested
21 roadway conditions, and restricted maneuverability on area roadways; and
- 22 • The intangible costs associated with the inconvenience for emergency services and
23 annoyance for average motorists caused by the above deficiencies.

24

25 The No-Build Alternative has the advantage of avoiding adverse impacts associated with new
26 construction, such as relocation, land use changes, and environmental disruption. This alternative could
27 allow construction funds to be shifted to other projects. Although the No-Build Alternative would avoid
28 construction impacts, the existing roadway deficiencies of the SM Wright Freeway, the interchange of
29 US 175 and SH 310 as well as IH 45 (as described in **Sections 2.2.1 and 2.2.2**), would remain. The
30 adverse impacts associated with the No-Build Alternative related to decreased pedestrian and vehicular
31 safety, traffic congestion, and decreased mobility could create an undesirable urban environment that
32 would have more long-term adverse impacts than the short-term construction impacts of the Build
33 Alternative.

34

35 For the above reasons, the No-Build Alternative would not satisfy the anticipated 2035 transportation
36 demand; however, the No-Build Alternative has been carried forward to serve as a baseline comparison

1 in the assessment of potential social, economic, and environmental effects of the Build Alternative,
2 described below.

4 **4.2 Build Alternative**

5 The Build Alternative would involve the reconstruction of the existing SM Wright Freeway (US 175/SH
6 310) from IH 45 to north of Budd Street (2.2 miles); realigning the CF Hawn Freeway segment of US 175
7 and constructing a new DC interchange with IH 45 (1.5 miles); and constructing improvements to IH 45
8 from existing US 175 (SM Wright Freeway) to south of Lamar Street (2.3 miles). The existing SM Wright
9 Freeway segment of US 175 would be downgraded to a low speed urban arterial with at-grade
10 intersections. This downgraded facility would be referred to as the SM Wright Parkway. The CF Hawn
11 Freeway segment of US 175 would be reconstructed and realigned to remove the sharp, accident prone
12 curve at the SH 310 interchange. This realignment would necessitate inside and outside widening along
13 IH 45 to facilitate proposed DC ramps and lane balance north of the proposed US 175 interchange.

14
15 The proposed ROW acquisition for the project is limited to the CF Hawn Freeway segment of US 175, the
16 proposed DC ramps between US 175 and IH 45, and IH 45 south of Lamar Street. All of the proposed
17 construction would occur within the existing and proposed US 175 (CF Hawn Freeway) ROW width of 293
18 to 500 feet and IH 45 ROW width of 181 to 658 feet. No proposed ROW is anticipated along the
19 proposed SM Wright Parkway/SH 310 and all construction would occur within the existing ROW width of
20 165 to 467 feet. Approximately 32.4 acres of new ROW would be required for the project. Details
21 regarding the proposed project improvements are provided below.

23 ***US 175 (CF Hawn Freeway)***

24 The Build Alternative's typical mainlane width for US 175 would be 12 feet throughout the project limits
25 along with 10-foot inside and outside shoulders. Beginning at the southeastern project limits, the
26 proposed number of mainlanes along US 175 varies from three lanes in each direction (east of the
27 proposed SM Wright Parkway/SH 310) to two lanes in each direction (west of the proposed SM Wright
28 Parkway/SH 310). Two-lane DC ramps in each direction would be provided west of Lamar Street to
29 facilitate the US 175 connection to IH 45. Typical sections of the existing and proposed US 175 are
30 shown in **Appendix A-4**. The design speed for US 175 would be 60 mph on the mainlanes. The DC
31 ramps design speed would be 50 mph. The existing entrance and exit ramps along the CF Hawn
32 Freeway segment of US 175 would also be reconstructed at a design speed of 40 mph.

33
34 *Mobility 2035* includes improvements for the proposed Trinity Parkway Project and a separate project for
35 US 175 from SH 310 to IH 20. Both projects are projected to be operational by the year 2035. The
36 proposed project has been coordinated with these two separate projects to maintain lane balance. After
37 the construction of these two projects, US 175 within the project limits would be restriped to four lanes

1 each direction (east of the proposed SM Wright Parkway/SH 310) and to three lanes in each direction
2 (west of the proposed SM Wright Parkway/SH 310). These three lanes in each direction west of the
3 proposed SM Wright Parkway/SH 310 could tie directly to the proposed Trinity Parkway. Mainlane widths
4 of 12 feet would be maintained along US 175.

5
6 As part of the Build Alternative, US 175 frontage roads would be reconstructed from Bexar Street to the
7 proposed SM Wright Parkway/SH 310 and converted to one-way operation. The proposed one-way
8 frontage roads would be extended on new location to Lamar Street along the proposed US 175
9 realignment. The extension of the frontage roads is necessary to facilitate local access to city streets
10 located between Lamar Street and the proposed SM Wright Parkway/SH 310. The typical configuration
11 would consist of one to two inside 11-foot wide lanes and an outside 14-foot wide lane (excluding gutter)
12 for shared use by bicycles and vehicles. Additionally, the typical sections for the frontage roads (**see**
13 **Appendix A-4**) would include 6-foot sidewalks of 1.5 percent slope adjacent to the roadway as to
14 accommodate for pedestrian travel. During the final design phase of the project, TxDOT will make every
15 effort to separate the sidewalks from the frontage road as much as possible and all proposed sidewalks
16 would meet ADA design criteria. The design speed for the frontage roads would be 40 mph.

17
18 The Build Alternative would improve Lamar Street at the proposed intersection with the US 175 frontage
19 roads. The Lamar Street configuration at the frontage road intersections would consist of three through
20 lanes in each direction, with a dedicated left turn lane to access the southeast bound frontage road. The
21 improvements to Lamar Street have been coordinated with the City of Dallas and would include six-foot
22 sidewalks of 1.5 percent slope adjacent to the roadway as to accommodate for pedestrian travel.

23 24 **IH 45**

25 From the southern IH 45 project limit to the proposed US 175 interchange, the IH 45 mainlane widths
26 would vary from 11 to 12 feet, inside shoulder widths would vary from two to 10 feet, and outside
27 shoulder widths would be 10 feet. Three mainlanes would be provided in each direction.

28
29 From the proposed US 175 interchange to the existing SM Wright Freeway interchange, the mainlane
30 widths would be 11 feet with two-foot inside shoulders and 10-foot outside shoulders. Three mainlanes
31 and one transition lane in each direction would be provided in this segment. The transitional lanes would
32 assist in facilitating the movement of traffic along the existing IH 45 six-lane section up to the existing IH
33 45 six mainlanes/four auxiliary lane section north of the existing SM Wright Freeway interchange. These
34 lanes would be created through inside widening of the existing mainlanes and/or restriping. The mainlane
35 widths would transition back to 12 feet and the inside shoulder widths would transition back to 10 feet at
36 the existing SM Wright Freeway interchange. Typical sections of IH 45 are shown in **Appendix A-4**. The
37 design speed for IH 45 would be 60 mph on the mainlanes. The half diamond set of ramps providing

1 access to Pennsylvania Avenue would be removed to facilitate the proposed US 175 interchange.
2 Access to Pennsylvania Avenue and Martin Luther King Jr. Boulevard would be maintained through the
3 proposed ramps south of Lamar Street, which would be reconstructed at a design speed of 40 mph. The
4 proposed northbound two-lane exit ramp located south of Lamar Street would split into two one-lane
5 ramps approximately 1000 feet north of the diverge from the mainlanes. One ramp would drop down to
6 provide access to Lamar Street and the other ramp would overpass Lamar Street and merge with the
7 northbound frontage road north of Lamar Street. A third lane would be added to the frontage road
8 downstream of the ramp gore. A southbound entrance ramp north of Lamar Street would be added. This
9 entrance ramp would diverge from the southbound frontage road north of Lamar Street and overpass
10 Lamar Street. The one-lane entrance ramp would merge with the proposed one-lane entrance located
11 south of Lamar Street. Downstream of the ramp merge, the one-lane entrance ramp would merge with
12 the southbound main lanes. The existing northbound entrance from Lamar Street and existing
13 southbound exit to Lamar Street would be maintained. The existing SM Wright Freeway ramps would be
14 maintained as well. Due to the proposed IH 45 lane balance and reduced traffic volumes on SM Wright,
15 the existing northbound entrance from SM Wright would be restriped from a two-lane ramp to a one-lane
16 ramp.

17
18 As part of the Build Alternative, existing IH 45 frontage roads would be maintained. The existing IH 45
19 frontage roads have lane widths varying from 11 to 12 feet. An approximate 300 feet of northbound and
20 southbound frontage road south of Lamar Street would be reconstructed. South of Lamar Street, the
21 frontage roads do not provide access to adjacent properties and the roadways terminate into ramps
22 accessing IH 45. An approximate 400 feet of southbound frontage north of Lamar Street would be
23 reconstructed to allow for the proposed southbound split entrance ramp. Limited areas of the existing
24 frontage roads between Lamar Street and Pennsylvania Avenue would be restriped or widened to allow
25 for the proposed noise walls or the proposed split ramps that bypass Lamar Street. The design speed for
26 the proposed frontage roads would be 40 mph. All existing cross streets would be maintained. The
27 McDonald Avenue intersection with Lamar Street west of IH 45 would be relocated northwest to facilitate
28 the proposed IH 45 split ramps and frontage roads. Lamar Street west of IH 45 would be widened to
29 include a right-turn lane to the southbound frontage road and a left-turn lane to McDonald Avenue.

30 31 ***SM Wright Parkway***

32 The realignment of US 175 and the proposed US 175/IH 45 interchange would allow for the existing SM
33 Wright Freeway to be downsized to a low speed arterial with at-grade intersections. Two lanes would be
34 provided in each direction between the southern project limit and the US 175 overpass. Between US 175
35 and Martin Luther King Jr. Boulevard, three mainlanes would be provided in each direction. The typical
36 configuration would consist of one to two inside 11-foot wide lanes and an outside 14-foot wide lane
37 (excluding gutter) for shared use by bicycles and vehicles. Additionally, the typical sections for the

1 proposed SM Wright Parkway (**see Appendix A-4**) would include 12-foot shared-use path of 1.5 percent
2 slope on each side of the roadway to accommodate for pedestrian and bicycle travel. The shared-use
3 path would be striped and signed in accordance with the Manual on Uniform Traffic Control Devices
4 (MUTCD), the American Association of State Highway and Transportation Officials (AASHTO) guidance,
5 and the Americans with Disabilities Act Accessibility Guidelines (ADAAG). The design speed for the
6 proposed SM Wright Parkway/SH 310 would be 35 mph.

7
8 As part of the Build Alternative, the existing overpasses at Hatcher Street, Pine Street, Metropolitan
9 Avenue, and Pennsylvania Avenue would be removed and reconfigured to at-grade, signalized
10 intersections with the proposed SM Wright Parkway (**see Appendix A-4, Sheet 7**). In addition, the public
11 requested that the downsized roadway would reconnect neighborhoods currently divided by the existing
12 freeway by providing median openings at cross streets. Median openings have been provided at the
13 intersections with Haven Street/Lowery Street, Marburg Street, Driskell Street/Hickman Street, and
14 Warren Avenue. These intersections are stop controlled along the minor cross streets and serve as mid-
15 block access points between the four signalized intersections. The cross street approaches for signalized
16 intersections would have a 30 mph design speed. The cross street approaches for stop controlled
17 intersections would have a 25 mph design speed. In multiple locations along the proposed SM Wright
18 Parkway, proposed local access roads would be constructed parallel to the roadway to maintain access
19 to adjacent properties. The design speed for these local access roads would be 30 mph. Typical
20 sections for the major cross streets and local access roads are shown on **Appendix A-4, Sheet 7**.

21
22 In addition to the roadway improvements, extensive aesthetic improvements would be constructed along
23 the proposed SM Wright Parkway. The aesthetic improvement alternatives have been presented during
24 public involvement activities to develop a concept accepted by the adjacent neighborhoods. Also, a
25 proposed rain garden would be located in the vicinity of Pine Street to facilitate local roadway drainage.

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5.0 POTENTIAL SOCIAL, ECONOMIC, AND ENVIRONMENTAL EFFECTS OF THE PROPOSED ACTIONS

5.1 Natural Resources

5.1.1 Lakes, Rivers, and Streams

No-Build Alternative

No lakes, rivers, or streams would be affected by the No-Build Alternative.

Build Alternative

Much of the proposed project is located to the east of the UPRR embankment and is on land elevated above the Trinity River floodplain, which is characterized by generally level to gently rolling topography underlain by soils derived from unconsolidated Trinity River terrace deposits. The southern portion of proposed improvements to IH 45 and the western portion of improvements to CF Hawn/US 175 are within the Trinity River floodplain and are underlain by soils formed within an active depositional environment. All runoff in the vicinity of the project corridor flows southwest into the Trinity River, or south toward White Rock Creek (which flows into the Trinity River). All storm water runoff near Lamar Street and east of it enters an existing buried urban storm sewer system which outfalls at locations within or near local floodplains. For example, drainage from the urban storm sewer system southwest of the Lamar Street flows through an ephemeral man-made ditch that parallels the north side of the UPRR embankment, flowing southeast until water crosses under the UPRR via corrugated pipe culverts. The water then makes its way across to floodplain and eventually drains into the Trinity River.

The only new stream crossing by the proposed project would be associated with the proposed CF Hawn Freeway/US 175 direct connectors, which would bridge over an ephemeral man-made drainage ditch. The existing and proposed CF Hawn Freeway (US 175) and IH 45 facilities would be on structure, and the proposed improvements to the existing SM Wright Freeway would not affect the existing storm drainage system. For additional information regarding the proposed stream crossings, see USGS topographic map in **Appendix A-3** and **Section 5.1.2**.

5.1.2 Waters of the U.S., including Wetlands

No-Build Alternative

There are no anticipated impacts to waters of the U.S., including wetlands, from the No-Build Alternative.

Build Alternative

The term “waters of the U.S.” refers to those waterways, which potentially fall within the jurisdictional authority of the USACE under the Clean Water Act (CWA), and includes wetlands that are adjacent to jurisdictional waterways. Pursuant to EO 11990 (Protection of Wetlands) and Section 404 of the CWA, an investigation was conducted to identify potential jurisdictional waters of the U.S., including wetlands, within the proposed project limits. According to the USACE, the federal agency having authority over waters of the U.S., wetlands are those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

This project would not result in the placement of temporary or permanent fill material into jurisdictional waters of the U.S., including wetlands or other special aquatic sites; therefore, a Section 404 permit would not be required. The project area crosses the floodway of the Trinity River; however, no potential waters of the U.S. were identified within the existing or proposed ROW.

An analysis of USGS topographic maps, field reconnaissance and decisions made by the USACE under similar circumstances reveals no potentially jurisdictional waters of the U.S. that would be impacted by the proposed project. Specifically, conclusions made by the USACE in issuing a jurisdictional determination for the Dallas Floodway (SWF-2011-00049) were considered when making decisions involving open water features on the land side of the BNSF railway embankment. Because the railway embankment effectively prevents normal surface flows from connecting to the Trinity River, several open water features on the eastern side of the railway embankment were determined to be non-waters of the United States.

The project would not require a USACE Section 404 Permit; therefore, a Section 401 Certification would not be required. Additionally, EO 11990 on wetlands would not apply because no wetlands would be impacted. The project does not involve work in or over a navigable water of the U.S.; therefore, Section 10 of the Rivers and Harbors Act does not apply.

5.1.3 Floodplains

No-Build Alternative

No floodplains would be affected by the No-Build Alternative.

Build Alternative

The proposed project is located within the Federal Emergency Management Agency (FEMA) *Flood Insurance Rate Map* (FIRM) for Dallas County, Texas and Incorporated Areas Map Numbers 48113C0345 J and 48113C0485 J (effective August 23, 2001). Most of the project area falls within Zone

1 X (not shaded), indicating areas outside the 500-year floodplain. Flood prone areas within the project
2 area include:

- 3 • Zone AE – special flood hazard areas or floodway areas inundated by the 100-year flood
4 (base flood elevations determined).
- 5 • Zone X (shaded) – areas of 500-year (0.2 percent annual chance) flood, areas of 100-year
6 flood with average depths less than one foot or with drainage areas less than one square
7 mile, and areas protected by levees from 100-year floods.

8
9 The project area (i.e., existing and proposed ROW) overlaps with approximately 46.8 acres of the 100-
10 year floodplain as illustrated in **Appendix B-1**. Approximately 44.3 acres of this project/floodplain overlap
11 is comprised of bridges or ramps on structure, which would be elevated above the expected water
12 surface elevations for the 100-year flood. The remaining area (2.5 acres) has either at-grade overlap with
13 the floodplain, or consists of ramps on retaining walls or embankment which would be within the
14 floodplain at the following four locations: IH 45 southbound entry ramp (0.4 acres); northbound DC from
15 CF Hawn Freeway (US 175) to IH 45 (0.7 acre); south side of SM Wright Freeway near Hatcher Street
16 (0.5 acre); and the south end of Lamar Street (0.9 acre).

17
18 Dallas County and the City of Dallas are participants in the National Flood Insurance Program. The
19 hydraulic design for this project would be in accordance with current TxDOT and FHWA design policies
20 and procedures. The proposed project would not increase the base flood elevation to a level that would
21 violate applicable floodplain regulations or ordinances. Furthermore, in cooperation with FEMA, TxDOT
22 would conform to the standard for temporary and permanent fill set by the FIRM. The proposed project
23 would provide, at a minimum, the same flow capacity, and therefore, should not adversely increase water
24 surface elevation above allowable limits.

25
26 The protection of floodplains and floodways is required by EO 11988 *Floodplain Management* and is
27 implemented by FHWA through 23 Code of Federal Regulations (CFR) 650 Subpart A, *Location and*
28 *Hydraulic Design of Encroachments on Floodplains*. The roadway facility would permit the conveyance of
29 the design year flood, inundation of the roadway being acceptable, without causing substantial damage to
30 the roadway, stream, or other property. The proposed project would not increase the base flood elevation
31 to a level that would violate applicable floodplain regulations or ordinances. The proposed project would
32 not interrupt or terminate a transportation route needed for emergency vehicles or community evacuation
33 routes, nor would it pose a substantial risk, nor adversely impact existing natural and beneficial floodplain
34 values; therefore, floodplain impacts resulting from the proposed actions would not be considered
35 substantial.

36

1 ***Trinity River and Tributaries Regional Environmental Impact Statement (TREIS) and the Corridor***
2 ***Development Certificate (CDC) Process***

3 In the mid 1980s, the USACE prepared the Trinity River and Tributaries Regional Environmental Impact
4 Statement (TREIS) in order to address extensive floodplain development that was occurring along the
5 Trinity River within the Dallas region. The Record of Decision (ROD) for the TREIS was signed in 1988
6 and established stringent criteria controlling flood elevations and any changes that might lead to erosive
7 floodwater velocities or loss of flood storage. Subsequently, the Corridor Development Certificate (CDC)
8 process was developed as a means for local governments to review/permit floodplain actions within the
9 Upper Trinity River Basin.

10

11 The 1988 ROD criteria (for projects under the USACE regulatory authority) and the CDC process ensure
12 that a development's effect, including cumulative impacts, on future flooding is considered in floodplain
13 permitting decisions. The process incorporates common permit criteria developed to ensure a consistent
14 design level of protection and minimal adverse impacts on flooding, upstream or downstream of the
15 project, unless granted a variance. CDC criteria are very similar to, and often linked with, the 1988 ROD
16 criteria. The CDC criteria include a requirement that no "significant" rise is allowed in SPF elevations
17 (compared to zero rise in the ROD criteria).

18

19 The hydraulic models used for determining if a proposed project complies with the USACE 1988 Trinity
20 River ROD criteria and the local CDC requirements reflect the federally authorized Dallas Floodway
21 Extension (DFE) project (Cadillac Heights and Lamar Levees) in the reach of the Trinity River
22 downstream of the Atchison, Topeka, and Santa Fe (AT&SF) Railroad Bridge. The proposed SM Wright
23 Project is located within the levee protected area on the landside of the proposed Lamar Levee for the
24 most part, except for where a proposed ramp would cross over the future Lamar Levee and tie into
25 Interstate Highway 45 (IH 45). To reduce the potential hydraulic impact, the new pier/columns for this
26 ramp have been designed to align with those of the existing IH 45 Bridge. Therefore, the proposed SM
27 Wright Project cannot be evaluated using the effective Trinity River ROD or CDC hydraulic models, and
28 impacts to valley storage and flood elevations are not considered relevant to this project.

29

30 Project Coordination

31 As part of the United States Army Corps of Engineers (USACE) Dallas Floodway Extension Project,
32 USACE will construct approximately three miles of new levee adjacent to the Union Pacific Railroad
33 (UPRR) that parallels Lamar Street. This new levee construction is referred to as the Lamar Levee and
34 will effectively extend the existing Dallas Floodway East Levee from the DART Bridge (located between
35 Corinth Street and Cedar Crest Boulevard) to the existing Rochester Park Levee. The addition of the
36 Lamar Levee will provide standard project flood (SPF) protection from the Trinity River Floodway for the
37 area along Lamar Street. The SPF for this levee is an 800-year storm event. This levee would also

1 provide protection for the improvements proposed within the SM Wright Study Corridor. The design
2 process for the Lamar Levee is ongoing and construction will be scheduled at a later date.

3
4 Construction began on the Rochester Park Levee in 1991 to protect the Rochester Park neighborhood
5 from flood events along both the Trinity River Floodway and the White Rock Creek Floodway. The
6 Rochester Park Levee begins in the southwest quadrant of the intersection at Haven Street and SM
7 Wright Freeway (SH 310); continues southerly for approximately 0.7 miles; turns northeasterly for
8 approximately 1.4 miles; then turns westerly to parallel the south side of CF Hawn Freeway (US 175) for
9 approximately 0.5 miles. The Rochester Park Levee effectively terminates at this location by tying into
10 the existing CF Hawn Freeway embankment as the roadway overpasses Railroad Avenue and the
11 UPRR. As part of the Rochester Park flood protection system, existing flood gates are located where CF
12 Hawn Freeway overpasses Railroad Avenue, UPRR, and Bexar Street. The design process for improving
13 the existing Rochester Park Levee in conjunction with the Lamar Levee is ongoing and construction will
14 be scheduled at a later date.

15
16 The proposed improvements associated with the SM Wright project would not preclude current concepts
17 for Lamar Levee and Rochester Park Levee improvements to be implemented and constructed by the
18 City of Dallas and/or USACE. The proposed SM Wright project improvements would be coordinated and
19 designed to accommodate the future Lamar Levee. In addition, the proposed improvements would be
20 coordinated with both the USACE and the City of Dallas (i.e., the city's Floodplain Manager).

21 22 **5.1.4 Water Quality**

23 24 **No-Build Alternative**

25 Water quality would not be affected by the No-Build Alternative.

26 27 **Build Alternative**

28 29 ***Impaired Waters***

30 According to the 2010 EPA CWA Section 303(d) list, the upper Trinity River (Segment ID 0805) is
31 classified as a threatened or impaired water for bacteria and Polychlorinated Biphenyls (PCBs) and
32 dioxins in edible tissues. Runoff from this project would discharge directly into or within 5 miles upstream
33 of the upper Trinity River. The water quality of waters in the state is required to be maintained in
34 accordance with all applicable provisions of the Texas Surface Water Quality Standards including the
35 General, Narrative, and Numerical Criteria.

1 **Texas Pollutant Discharge Elimination System**

2 Because this project would disturb more than one acre, TxDOT would be required to comply with the
3 Texas Commission on Environmental Quality (TCEQ) Texas Pollutant Discharge Elimination System
4 (TPDES) General Permit for Construction Activity. The project would also disturb more than five acres;
5 therefore, a Notice of Intent would be filed to comply with TCEQ stating that TxDOT would have a Storm
6 Water Pollution Prevention Plan (SW3P) in place during the construction period. The SW3P would utilize
7 temporary erosion control measures as outlined in TxDOT's manual *Standard Specifications for the*
8 *Construction of Highways, Streets, and Bridges*. Impacts would be minimized by avoiding construction
9 equipment work directly in stream channels and/or adjacent areas. No permanent water quality impacts
10 are expected as a result of the proposed project.

11

12 **TCEQ Section 401 Best Management Practices**

13 This project would not require a USACE Section 404 Permit; therefore, Section 401 Certification would
14 not be required.

15

16 **Other Mitigation Measures**

17 To minimize impacts to water quality during construction, the proposed project would utilize temporary
18 erosion and sedimentation control practices (i.e., silt fence, rock berm, and/or drainage swales) from
19 TxDOT's manual *Standard Specifications for the Construction of Highways, Streets, and Bridges*. Where
20 appropriate, these temporary erosion and sedimentation control structures would be in place prior to the
21 initiation of construction and would be maintained throughout the construction period. Clearing of
22 vegetation would be limited and/or phased to maintain a natural water quality buffer and minimize the
23 amount of erodible earth exposed at any one time. Upon completion of earthwork operations, disturbed
24 areas would be restored and reseeded according to TxDOT's specifications for *Seeding for Erosion*
25 *Control*.

26

27 The contractor would take appropriate measures to prevent, minimize, and control spillage of hazardous
28 materials in the construction staging area. All materials would be removed/disposed of in accordance to
29 applicable state and federal laws and as not to degrade ambient water quality. All of these measures
30 would be enforced under appropriate specifications in the plan, specification, and estimate stage of
31 project development.

32

33 Permanent soil erosion control features are to be a part of the completed project to assure economical,
34 effective, and continuous erosion control throughout the construction and post-construction periods.
35 Moreover, efforts would be made to prevent long-term water pollution by reducing fertilizer and pesticide
36 use during the installation and maintenance of landscaping. No excessive impacts to water from point
37 source and non-point source pollution associated with the project are anticipated.

5.1.5 Vegetation and Wildlife Habitat

No-Build Alternative

The No-Build Alternative would not affect existing vegetation or wildlife habitat.

Build Alternative

Existing Vegetation

Nearly all of the proposed project area is located within the 'Urban' land cover category, as described by the Texas Parks and Wildlife Department (TPWD).¹⁸ This type of land cover corresponds with areas that have been developed for commercial, industrial, transportation, residential, and other urban uses. This land cover category focuses on past man-made impacts to an area, and does not provide any information about pre-urban ecological conditions, although some remnant native vegetation may exist within the landscaping of urban areas. Additionally, the forests that flank IH 45 south of the railroad tracks occur within the 'Water Oak-Elm-Hackberry Forest' ecological subregion. This type of forest is dominated by an assortment of riparian or bottomland hardwood trees, which are typical of floodplains associated with large rivers such as the Trinity River.

Two field reconnaissance visits on June 2, 2010 and April 28, 2011 indicated the vegetation in undeveloped areas is generally consistent with the above descriptions of the two land cover categories in the project area. The project corridor is predominantly influenced by commercial, industrial, and residential development throughout. These developed areas often include native tree species that have been incorporated into facility landscaping, generally with a mowed lawn grass understory. For example, many large live oak (*Quercus virginiana*) trees are found along the frontage road curbs of the SM Wright Freeway (US 175) (see **Appendix A-7, Photographs 7, 9, and 17**). Forested areas that are not part of developed sites are also generally dominated by native species, but invasive woody and herbaceous species are commonly found in these areas. Areas dominated by grasses, primarily the non-native Bermuda grass (*Cynodon dactylon*), are generally within the ROW of major roads or within residential and commercial lawns that are frequently mowed. The proximity of grass areas to human activity and frequent mowing renders these areas of little value to wildlife as sources of food or cover.

As the project area is set primarily within a landscape that is highly urbanized, vegetation and wildlife habitat within the project area is generally isolated in patches scattered throughout the vicinity. Thus, only those wildlife species adapted to living within a disturbed environment and in close proximity to human activity would be expected to be successful within the project area. The area with the greatest

¹⁸ TPWD (1984), *The Vegetation Types of Texas* map. Map and description at: http://www.tpwd.state.tx.us/publications/pwdpubs/pwd_bn_w7000_0120/.

1 potential for wildlife habitat is the relatively contiguous bottomland/riparian forest within the Trinity River
2 floodplain that is found along the west side of IH 45.

3

4 Commonly-occurring amphibian and reptile species expected within the project area include the cricket
5 frog (*Acris crepitans*), pig frog (*Rana grylio*), bullfrog (*Rana catesbiana*), ground skink (*Leiopisma*
6 *laterale*), green anole (*Anolis carolinensis*), Texas rat snake (*Elaphe obsoleta lindheimerii*), cottonmouth
7 (*Agkistrodon piscivorus*), and water snake (*Natrix* sp.).¹⁹ Mammal species likely to occur in the project
8 corridor include the armadillo (*Dasypus novemcinctus*), bobcat (*Lynx rufus*), hispid cotton rat (*Sigmodon*
9 *hispidus*), coyote (*Canis latrans*), raccoon (*Procyon lotor*), feral hog (*Sus scrofa*), swamp rabbit
10 (*Sylvilagus aquaticus*), striped skunk (*Mephitis mephitis*), eastern fox squirrel (*Sciurus niger*), Virginia
11 opossum (*Didelphis virginiana*), and white-tailed deer (*Odocoileus virginianus*).²⁰ Such species are
12 commonly seen in both natural landscapes and in close proximity to human structures.

13

14 A variety of avian species that reside in or are migratory through Dallas County would be expected to be
15 commonly encountered within the project area.²¹ These include the great blue heron (*Ardea herodias*),
16 snowy egret (*Egretta thula*), American kestrel (*Falco sparverius*), red-tailed hawk (*Buteo jamaicensis*),
17 turkey vulture (*Cathartes aura*), mourning dove (*Zenaida macroura*), common flicker (*Colaptes auratus*),
18 scissor-tailed flycatcher (*Tyrannus forficatus*), blue jay (*Cyanocitta cristata*), American crow (*Corvus*
19 *brachyrhynchus*), northern mockingbird (*Mimus polyglottos*), American robin (*Turdus migratorus*),
20 European starling (*Sturnus vulgaris*), common grackle (*Quiscalus mexicanus*), and northern cardinal
21 (*Cardinalis cardinalis*).

22

23 The proposed project is expected to have an overall footprint of construction impacts affecting
24 approximately 203.7 acres, which includes construction activity that would occur within portions of the
25 existing ROW as well as proposed new ROW. Any existing vegetation within this footprint would be
26 temporarily disturbed by construction equipment. Areas of temporary impacts to grass-dominated areas
27 that are not ultimately paved would be revegetated with grass ground cover which would be maintained
28 by occasional mowing (i.e., "maintained grass"). The remaining impacts would affect 8.65 acres of
29 forested areas, which are discussed in detail below.

¹⁹ Conant, R. 1975. Reptiles and Amphibians of Eastern and Central North America. 2nd Edition. The Peterson Field Guide Series. Boston: Houghton Mifflin Company.

²⁰ Burt, W.H. and R.P. Grossenheider. 1976. A Field Guide to the Mammals of North America North of Mexico. Third Edition. The Peterson Field Guide Series. Boston: Houghton Mifflin Co. (Section 3.4.4, pg. 3-66, table 3-15).

²¹ Pulich, W. 1990. Field Checklist of Birds: Dallas County, Texas. Dallas: Dallas County Audubon Society. (Section 3.4.4, pg. 3-67, table 3-16).

1 The inventory of habitat types follows the guidelines established by TPWD²² for assessing and mitigating
2 impacts to wildlife habitat for transportation projects. The bulleted paragraphs below describe special or
3 unusual habitat features identified in TPWD guidelines for inclusion in environmental impact studies. The
4 general locations for areas of anticipated forest habitat removal and locations of woodland data points are
5 shown in **Appendix B-2**. In addition, the aerial photograph in **Appendix A-6** shows vegetation cover in
6 areas adjacent to the proposed project, and provides a larger context in which to view the areas within
7 existing and proposed ROW that are expected to be affected by the project. Representative site
8 photographs of these features can be found in **Appendix B-3**. Detailed information about impacts to
9 forested areas may be found in the woodland data point forms in **Appendix B-4**.

11 Riparian Forest

12 Approximately 7.57 acres of riparian/bottomland forest would be affected by the proposed project, much
13 of which is at several sites within the Trinity River floodplain. Otherwise, many of these riparian forest
14 areas are located to the east of the railroad embankment and adjacent to ephemeral stream channels
15 that carry local urban storm runoff. These areas of expected impacts vary in size from 0.2 acre to 1.6
16 acres. Riparian forests in the project area are typically dominated by American elm (*Ulmus americana*)
17 trees, often in association with hackberry (*Celtis laevigata*), box elder (*Acer negundo*), and red mulberry
18 (*Morus rubra*) trees (see **Appendix B-3, Photographs 1 through 3**). These forested areas have canopy
19 cover ranging from 90 to 100 percent and maximum tree height of approximately 70 feet. The trees
20 range in diameter at breast height (dbh) from less than one to 18 inches, but the average mature tree size
21 generally ranges from 6 to 10 inches dbh. A review of historical aerial photography as early as 1942
22 indicates that nearly all of the riparian forests inventoried were located on land that had previously been
23 cleared of forests and remained so until at least the late 1950s. Thus, most of the riparian forest
24 vegetation within the construction footprint of the proposed project is estimated to be no older than 50
25 years. The riparian forest understory is generally dominated by woody vines such as saw greenbrier
26 (*Smilax bona-nox*), grape (*Vitis* sp.), poison ivy (*Toxicodendron radicans*), and Virginia creeper
27 (*Parthenocissus quinquefolia*); forest understory also includes shrubs such as Chinese privet (*Ligustrum*
28 *sinense*), Eve's necklace (*Sophora affinis*), and crape-myrtle (*Lagerstroemia indica*), but herbaceous
29 vegetation is generally quite sparse. An estimated 943 trees greater than 6 inches dbh would be
30 removed from these riparian woodland areas. Details about the characteristics of these riparian forest
31 sites are contained in four woodlands data forms in **Appendix B-4**.

33 Unmaintained Vegetation—Upland Forest

34 The proposed project is expected to affect 1.08 acres of forests on numerous upland sites, all of which
35 are under 0.6 acre in size. These upland forest areas are nearly all landscaping trees for residences, and

²² TxDOT-TPWD Memorandum of Agreement (MOA) for the Finalization of the 1998 Memorandum of Understanding (MOU) Concerning Habitat Descriptions and Mitigation.

1 two small sites are isolated trees adjacent to large transportation facilities (see **Appendix B-3,**
2 **Photograph 5**). These sites offer relatively poor quality wildlife habitat because understory vegetation is
3 frequently mowed and generally consists almost entirely of lawn grass such as Bermuda grass. These
4 areas offer poor quality habitat for most wildlife, due to frequent mowing of the nearly monoculture
5 understory and the highly fragmented nature of the habitat. Dominant trees in these areas include tree-
6 of-heaven (*Ailanthus altissima*) and hackberry. Forest canopy cover in these areas is generally 50
7 percent, and maximum tree height is 40 feet. The landscape trees in these forests range in size from less
8 than one inch to 14 inches dbh, and the average size of mature trees is 8 inches dbh. An estimated 125
9 trees greater than 6 inches dbh would be removed from these areas. Details about the characteristics of
10 these landscaped forest sites are contained in woodlands data form for Area 4 in **Appendix B-4**.

11 12 Summary of Impacts and Mitigation

13 Based on the foregoing outline of impacts to habitat and vegetation, the proposed project improvements
14 are expected to remove approximately 1,068 trees greater than 6 inches dbh occurring on 8.65 acres of
15 combined riparian and upland forest habitat. Removal of forest vegetation would be permanent, as such
16 areas would either be replaced by paved surfaces or maintained grass cover. Impacts to forested areas
17 are unavoidable in light of the design constraints attending the reconstruction of the SM Wright Freeway
18 (US 175), and the addition of ramps, direct connects, and other improvements to the CF Hawn Freeway
19 (US 175) and IH 45 necessary to meet the purpose and need of the project. That is, adding the needed
20 new lanes, ramps, and bridges to the three existing facilities necessitate removal of forested areas
21 adjacent to the existing facilities for the three roadways involved.

22
23 During project development, TxDOT would design, use, and promote construction practices that minimize
24 adverse effects on both regulated and unregulated wildlife habitat. Existing vegetation, especially native
25 trees, would be avoided and preserved wherever practicable. In addition, although the large live oak
26 trees along SM Wright Freeway are outside the proposed project's construction footprint, final design
27 planning for the removal of existing frontage road pavement would consider the close proximity of these
28 adjacent large trees (frequently 20 to 30 inches dbh) to avoid tree damage (see **Appendix B-3,**
29 **Photograph 4**). Every effort would be made to preserve trees within the ROW and other areas where
30 they neither compromise safety nor substantially interfere with the project's construction.

31
32 In accordance with the TPWD guidelines for transportation projects cited previously, habitats given
33 consideration for non-regulatory mitigation during project planning include the following:

- 34 • Habitat for federal candidate species if mitigation would assist in the prevention of the listing
35 of species;
- 36 • Rare vegetation series (S1, S2, or S3) that also locally provide habitat for a state-listed
37 species;

- 1 • All vegetation communities listed as S1 or S2, regardless of whether or not the series in
- 2 question provide habitat for state-listed species;
- 3 • Bottomland hardwood, native prairies, and riparian areas; and
- 4 • Any other habitat feature considered to be locally important.

5

6 The proposed project would not substantially affect habitat required by threatened/endangered species,

7 nor would it disturb any rare vegetation series. One factor relevant to mitigation, as it relates to all

8 habitats potentially affected by the proposed project, is the diminished habitat quality resulting from

9 proximity of habitat areas to existing roads and other areas of frequent human activity, and the relatively

10 small size of the areas of impacts in relation to the generally large habitat requirements for most wildlife

11 species other than birds. Accordingly, non-regulatory habitat mitigation was considered, but is not

12 proposed, for impacts to the 1.08 acres of upland forest because these areas are comprised of landscape

13 trees with mowed grass understory, are not contiguous with larger forests, or are generally dominated by

14 sugarberry trees (an ubiquitous species that readily establishes or reestablishes itself throughout the

15 general area) and invasive tree-of-heaven trees. The limited acreage of these scattered forest resources

16 and the limited quality of habitat represented by them would not warrant non-regulated habitat mitigation

17 for their loss. Similarly, non-regulatory habitat mitigation was considered, but is not proposed for impacts

18 to the 3.9 acres of riparian forest located to the east of IH 45 and the railroad embankment (Areas 1 and

19 5 shown in **Appendix B-2**). Riparian forest habitat in this area is in close proximity to metal salvage

20 operations and other industrial facilities and is already quite fragmented by the railroad (see **Appendix B-**

21 **3, Photograph 4**). Additionally, the quality of these riparian areas is diminished by the presence of

22 invasive China-berry trees and past dumping of trash within and near these forests.

23

24 In addition, there are 3.6 acres of non-regulatory riparian/bottomland habitat located on the west side of

25 IH 45 (within Areas 2 and 3 shown in **Appendix B-2**). Of the 3.6 acres of riparian/bottomland forest,

26 approximately 2.35 acres is located within existing TxDOT ROW and is subject to periodic mowing. The

27 remaining 1.25 acres of riparian/bottomland forest is located within the planned Great Trinity Forest. The

28 clearing of the trees within this area would be required to meet TxDOT roadway design standards for a

29 buffer to prevent trees from interfering with the elevated structure (the IH 45 freeway). In addition, the

30 clearing of these trees is to preserve access to the facility for future inspections and maintenance.

31

32 The 1.25 acres of riparian/bottomland forest within the planned Great Trinity Forest, is located on three

33 parcels of land currently owned by the City of Dallas. Because portions of the planned Great Trinity

34 Forest are located within the federally authorized Dallas Floodway Extension (DFE) project area, TxDOT

35 must coordinate any mitigation (tree planting) with the city in order to ensure that floodway function is not

36 disturbed. In response to the TPWD recommendation, TxDOT will coordinate with appropriate city staff to

37 determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within

1 the planned Great Trinity Forest area (see **Appendix B-5**). Should a mitigation location within the
2 planned Great Trinity Forest area be identified, mitigation for the anticipated 1.25 acres of
3 riparian/bottomland forest impacts would be completed at that location in accordance with *TxDOT Dallas*
4 *District Standards for Woodlands Mitigation* (see **Appendix B-6**). **Section 5.2.3** contains a detailed
5 description of the planned Great Trinity Forest.

6 7 ***Migratory Bird Treaty Act***

8 The Migratory Bird Treaty Act (MBTA) of 1918 states that it is unlawful to kill, capture, collect, possess,
9 buy, sell, trade, or transport any migratory bird, nest, young, feather, or egg in part or in whole, without a
10 federal permit issued in accordance within the Act's policies and regulations. Between October 1 and
11 February 15, the contractor would remove all old migratory bird nests from any structures that would be
12 affected by the proposed project, and complete any bridge work and/or vegetation clearing. In addition,
13 the contractor would be prepared to prevent migratory birds from building Nests between February 15
14 and October 1, per the Environmental Permits, Issues, and Commitments (EPIC) plans. In the event that
15 migratory birds are encountered on-site during project construction, adverse impacts on protected birds,
16 active nests, eggs, and/or young would be avoided.

17 18 ***Fish and Wildlife Coordination Act***

19 The Fish and Wildlife Coordination Act (FWCA) (16 United States Code (U.S.C.) 661-666c; March 10,
20 1934, as amended), was enacted to protect fish and wildlife when federal actions result in the control or
21 modification of a natural stream or body of water. The statute requires federal agencies to take into
22 consideration the effect that water-related projects would have on fish and wildlife resources; take action
23 to prevent loss or damage to these resources; and provide for the development and improvement of
24 these resources.

25
26 This project would not result in the placement of temporary or permanent fill material into jurisdictional
27 waters of the U.S., including wetlands or other special aquatic sites; therefore, a Section 404 permit
28 would not be required. The project area crosses the floodway of the Trinity River; however, no potential
29 waters of the U.S. were identified within the existing or proposed ROW (though undoubtedly such
30 features exist within the vicinity of the project). In addition, the project area is highly urbanized with very
31 few natural stream channels. Within the project area all water features north and east of Lamar St. are
32 underground and/or man-made. Within the southern portion of the project area along IH 45, all channels
33 east of the freeway are man-made. West of IH 45, the proposed ROW is adjacent to an existing slough;
34 however, neither the slough or any stream channels would be impacted by the proposed project. For the
35 above reasons, no coordination under the FWCA would be required.

5.1.6 Threatened/Endangered Species

No-Build Alternative

No threatened or endangered species would be affected and/or impacted by the No-Build Alternative.

Build Alternative

Endangered Species Act

The Endangered Species Act affords protection for federally listed threatened and endangered species and, where designated, critical habitat for these species. The U.S. Fish and Wildlife Service (USFWS) maintains a list of federally threatened and endangered species of potential occurrence for each Texas county as does TPWD. Both the USFWS and TPWD Annotated County List of Threatened, Endangered, and Rare Species for Dallas County were reviewed on March 28, 2011 and January 20, 2012. TPWD maintains special species lists through the Natural Diversity Database (NDD) by county. Data was obtained from the Texas Natural Diversity Database (TXNDD) on November 13, 2011. The NDD review met all the requirements of the TxDOT-TPWD Memorandum of Agreement (MOA) for sharing and maintaining NDD information. The search radius was 10 miles from the project area. **Table 5.1** provides elements of occurrence of state and federally listed species within a 10-mile buffer. No federal or state listed species, rare species or managed areas were recorded within 1.5 miles of the project area. The Texas NDD is a potential presence database that cannot be interpreted as presence/absence data.

Federal and State Threatened and Endangered Species

Table 5.1 addresses, the Federal and State Threatened or Endangered Species for Dallas County, their listed status, habitat requirements, and anticipated effects from the proposed project. Field surveys were performed on June 2, 2010 and April 28, 2011. Based on these surveys, it was determined that the project area contains no habitat for federally listed threatened and endangered species. The proposed project would have no effect on federally listed species or critical habitat.

Based on these surveys, it was determined that the project area contains habitat for the state threatened Timber/Canebrake Rattlesnake. Therefore, coordination with TPWD is required (see **Appendix B-5** for the TPWD Coordination letter). Potential impacts to habitat would be minor, and the potential for encountering the species during construction is low. The proposed project is not anticipated to impact state listed species.

Preferred habitat for the timber/canebrake rattlesnake exists within forested areas with dense ground cover. The distribution of the timber/canebrake rattlesnake stretches from the East Coast westward into Texas, and as far north as New England. In the southern portions of its range, this species prefers to

1 make its den in somewhat swampy, wetland habitats. The DFW Metroplex represents the far western
2 edge of its range, and is characterized by drier conditions than generally preferred for this snake.
3 Populations tend to be higher in eastern Texas where greater concentrations of wetlands and humid
4 forests are found. Forested areas located near permanent water sources are also utilized, as fallen
5 debris from trees can act as refugia for the rattlesnake. The timber/canebrake rattlesnake is a shy animal
6 that prefers to live in areas with high amounts of cover and available refuge. Riparian/forested habitat is
7 the most likely within the DFW Metroplex to be suitable for this species. The home range of this species
8 is large, at times encompassing in excess of 100 acres. The proposed project is not anticipated to impact
9 the rattlesnake, as the amount of potential affected habitat is a small portion of its range. Further, no
10 visual sightings or evidence of the species was observed in the project area during field investigations.
11 Impacts to potential habitat would be minor, and the potential for encountering the species during
12 construction is low. To ensure a minimization of impacts, the forest, riparian, and floodplain habitat within
13 the project area would be surveyed for signs of this species prior to construction activities.

14

15 *State Species of Concern*

16 The Texas Wildlife Action Plan strives to keep “common species common” by gathering information about
17 native species before they become rare. Species that are uncommon or exhibit declining numbers may
18 be designated as SOC by TPWD. Often these designations are placed on species for which little is
19 known as a precautionary measure, and in order to focus attention on gaining insight into the species’ life
20 histories. **Table 5.1** addresses, the TPWD’s Annotated County List of Rare Species for Dallas County
21 that includes other species that the State considers rare, but have no formal regulatory status at the state
22 or federal level. Potential habitat for three rare species, the cave myotis bat, the plains spotted skunk and
23 the Texas garter snake is present within the project area. Impacts to potential habitat would be minor,
24 and the potential for encountering the species during construction is low.

TABLE 5-1. FEDERAL, STATE LISTED THREATENED/ENDANGERED SPECIES, AND TPWD SPECIES OF CONCERN, DALLAS COUNTY, AND TEXAS NDD RESULTS

SPECIES	FEDERAL STATUS	STATE STATUS	DESCRIPTION OF SUITABLE HABITAT	HABITAT PRESENT	SPECIES EFFECT	SPECIES IMPACT	JUSTIFICATION
BIRDS							
American Peregrine Falcon <i>Falco peregrinus anatum</i>	DL	T	Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	No	--	No impact	No lake shores, coastlines, or barrier islands are present within the project area.
Arctic Peregrine Falcon <i>Falco peregrinus tundrius</i>	DL		Migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.	No	--	No impact	No lake shores, coastlines, or barrier islands are present within the project area.
Bald Eagle <i>Haliaeetus leucocephalus</i>	DL	T	Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds.	No	--	No impact	No rivers or large lakes are present within the project area.
Black-capped Vireo <i>Vireo atricapilla</i>	E	E	Oak-juniper woodlands with distinctive patchy, two-layered aspect; shrub and tree layer with open, grassy spaces; requires foliage reaching to ground level for nesting cover; return to same territory, or one nearby, year after year; deciduous and broad-leaved shrubs and trees provide insects for feeding; species composition less important than presence of adequate broad-leaved shrubs, foliage to ground level, and required structure; nesting season March-late summer.	No	No effect	No impact	No oak-juniper woodlands are present within the project area.
Golden-cheeked Warbler <i>Setophaga chrysoparia</i>	E	E	Juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer.	No	No effect	No impact	No oak-juniper woodlands or ashe juniper are present within the project area.

**TABLE 5-1. FEDERAL, STATE LISTED THREATENED/ENDANGERED SPECIES, AND TPWD
SPECIES OF CONCERN, DALLAS COUNTY, AND TEXAS NDD RESULTS**

SPECIES	FEDERAL STATUS	STATE STATUS	DESCRIPTION OF SUITABLE HABITAT	HABITAT PRESENT	SPECIES EFFECT	SPECIES IMPACT	JUSTIFICATION
Henslow's Sparrow <i>Ammodramus henslowii</i>	—		Wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking.	No	--	No impact	No weedy fields or areas with bunch grasses and bare ground are present within the project area.
Interior Least Tern <i>Sterna antillarum athalassos</i>	E	E	Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc.); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony.	No	No effect	No impact	No gravel bars within braided streams, rivers, etc. within the project area.
Peregrine Falcon <i>Falco peregrinus</i>	DL*	T	Both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (<i>F. p. anatum</i>) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, <i>F.p. tundrius</i> is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.	No	--	No impact	No lake shores, coastlines, or barrier islands are present within the project area.
Piping Plover <i>Charadrius melodus</i>	E, T*	T	Wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats.	No	No effect	No impact	No beaches, bayside, mud or salt flats are present within the project area.
Sprague's Pipit <i>Anthus spragueii</i>	C*		Only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.	No	--	No impact	No native upland prairie or coastal grasslands are present within the project area
Western Burrowing Owl <i>Athene cunicularia hypugaea</i>	—		Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows.	No	--	No impact	No grasslands, prairie, or savanna, etc. are present within the project area.
White-faced Ibis <i>Plegadis chihi</i>	—	T	Prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats.	No	--	No impact	No freshwater marshes are present within the project area.
Whooping Crane <i>Grus americana</i>	E, EXPN	E	Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.	No	No effect	No impact	No plains or coastal marshes are present within the project area.

TABLE 5-1. FEDERAL, STATE LISTED THREATENED/ENDANGERED SPECIES, AND TPWD SPECIES OF CONCERN, DALLAS COUNTY, AND TEXAS NDD RESULTS

SPECIES	FEDERAL STATUS	STATE STATUS	DESCRIPTION OF SUITABLE HABITAT	HABITAT PRESENT	SPECIES EFFECT	SPECIES IMPACT	JUSTIFICATION
Wood Stork <i>Mycteria americana</i>	—	T	Forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960.	No	No effect	No impact	The project area is highly urbanized. No prairie ponds or flooded fields are present within the project area.
INSECTS							
Black Lordithon rove beetle <i>Lordithon niger</i>	—		Historically known from Texas.	No	--	--	--
MAMMALS							
Cave myotis bat <i>Myotis velifer</i>	—		Colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (<i>Hirundo pyrrhonota</i>) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore.	Yes	--	Might impact	The project area contains habitat; however, there is not recent evidence of this species in project area. Potential impacts to habitat would be minor, and the potential for encountering species during construction is low.
Plains spotted skunk <i>Spilogale putorius interrupta</i>	—		Catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie.	Yes	--	Might impact	The project area contains habitat; however, there is not recent evidence of this species in this area. Potential impacts to habitat would be minor, and the potential for encountering species during construction is low.
MOLLUSKS							
Fawnsfoot <i>Truncilla donaciformis</i>	—		Small and large rivers especially on sand, mud, rocky mud, and sand and gravel, also silt and cobble bottoms in still to swiftly flowing waters; Red (historic), Cypress (historic), Sabine (historic), Neches, Trinity, and San Jacinto River basins.	No	--	No impact	There are no perennial water bodies within the project area.
Little spectaclecase <i>Villosa lienosa</i>	—		Creeks, rivers, and reservoirs, sandy substrates in slight to moderate current, usually along the banks in slower currents; east Texas, Cypress through San Jacinto River basins.	No	--	No impact	There are no perennial water bodies within the project area.

TABLE 5-1. FEDERAL, STATE LISTED THREATENED/ENDANGERED SPECIES, AND TPWD SPECIES OF CONCERN, DALLAS COUNTY, AND TEXAS NDD RESULTS

SPECIES	FEDERAL STATUS	STATE STATUS	DESCRIPTION OF SUITABLE HABITAT	HABITAT PRESENT	SPECIES EFFECT	SPECIES IMPACT	JUSTIFICATION
Louisiana pigtoe <i>Pleurobema riddellii</i>	—	T	Streams and moderate-size rivers, usually flowing water on substrates of mud, sand, and gravel; not generally known from impoundments; Sabine, Neches, and Trinity (historic) River basins.	No	--	No impact	There are no perennial water bodies within the project area.
Texas heelsplitter <i>Potamilus amphichaenus</i>	—	T	Quiet waters in mud or sand and also in reservoirs. Sabine, Neches, and Trinity River basins.	No	--	No impact	There are no perennial water bodies within the project area.
Wabash pigtoe <i>Fusconaia flava</i>	—		Creeks to large rivers on mud, sand, and gravel from all habitats except deep shifting sands; found in moderate to swift current velocities; east Texas River basins, Red through San Jacinto River basins; elsewhere occurs in reservoirs and lakes with no flow.	No	--	No impact	There are no perennial water bodies within the project area.
REPTILES							
Alligator snapping turtle <i>Macrochelys temminckii</i>	—	T	Perennial water bodies; deep water of rivers, canals, lakes, and oxbows; also swamps, bayous, and ponds near deep running water; sometimes enters brackish coastal waters; usually in water with mud bottom and abundant aquatic vegetation; may migrate several miles along rivers; active March-October; breeds April-October.	No	--	No impact	There are no perennial water bodies within the project area.
Texas garter snake <i>Thamnophis sirtalis annectens</i>	—		Wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August.	Yes	--	Might impact	The project area contains potential habitat; however, there is no recent evidence of the species within the area. Potential impacts to habitat would be minor, and the potential for encountering species during construction is low.
Texas horned lizard <i>Phrynosoma cornutum</i>	—	T	Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September.	No	--	No impact	No arid or semi-arid regions are present within the project area.
Timber/ Canebrake Rattlesnake <i>Crotalus horridus</i>	—	T	Swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil, or black clay; prefers dense ground cover, i.e. grapevines or palmetto.	Yes	--	Might impact	The project area contains habitat; however, there is not recent evidence of this species in this area. Potential impacts to habitat would be minor, and the potential for encountering species during construction is low.

TABLE 5-1. FEDERAL, STATE LISTED THREATENED/ENDANGERED SPECIES, AND TPWD SPECIES OF CONCERN, DALLAS COUNTY, AND TEXAS NDD RESULTS

SPECIES	FEDERAL STATUS	STATE STATUS	DESCRIPTION OF SUITABLE HABITAT	HABITAT PRESENT	SPECIES EFFECT	SPECIES IMPACT	JUSTIFICATION
PLANTS							
Glen Rose yucca <i>Yucca necopina</i>	—		Texas endemic; grasslands on sandy soils and limestone outcrops; flowering April-June.	No	--	No impact	No grasslands or limestone outcroppings within the proposed project area.
Warnock's coral-root <i>Hexalectris warnockii</i>	—		In leaf litter and humus in oak-juniper woodlands on shaded slopes and intermittent, rocky creekbeds in canyons; in the Trans Pecos in oak-pinyon-juniper woodlands in higher mesic canyons (to 2000 m [6550 ft]), primarily on igneous substrates; in Terrell County under <i>Quercus fusiformis</i> mottes on terraces of spring-fed perennial streams, draining an otherwise rather xeric limestone landscape; on the Callahan Divide (Taylor County), the White Rock Escarpment (Dallas County), and the Edwards Plateau in oak-juniper woodlands on limestone slopes; in Gillespie County on igneous substrates of the Llano Uplift; flowering June-September; individual plants do not usually bloom in successive years.	No	--	No impact	No oak-juniper woodlands are within the project area.
TPWD NDD Results	<p>2952 – Rookery, Cattle egret, Little Blue Heron, Great Egret, Black-crowned night heron, Snowy egret, Federal/State status—none. Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>561 - Rookery, Cattle egret, Federal/State status—none. Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>1439 - Rookery, Cattle egret, Little Blue Heron, Great Egret, Black-crowned night heron, Snowy egret, Federal/State status—none. Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>6868 - Rookery, Cattle egret, Little Blue Heron, Great Egret, Snowy egret, Federal status—none; White-faced Ibis, State status - Threatened. Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>7284 - Interior least tern (<i>Sterna antillarum athalassos</i>), Federal/State status – E, Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>2874 - Interior least tern (<i>Sterna antillarum athalassos</i>), Federal/State status – E, Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p> <p>432—Texas garter snake (<i>Thamnophis sirtalis annectens</i>), Federal/State status—none. Listed in 10 mile buffer, but outside of 1.5 mile buffer.</p>				--	No impact.	No Element of Occurrences more than 1.5 miles from the project area.
<p>E – State or Federal Listed Endangered EXPN- Experimental population, Non-Essential T – State or Federal Listed Threatened PT-Proposed Threatened C – Federal Candidate for Listing DL – Federally Delisted “—” – No designation occurring within identified county “blank” – Rare, but with no regulatory listing status “- -” – No determination of effect or impact required because species lacks federal and/or state listing status “*” – TPWD T&E species list indicates species could be present in identified county; however, USFWS T&E species list does not indicate a listing status for the species in the county</p>							
<p>Sources: U.S. Fish & Wildlife Service (November 1, 2011), Texas Parks & Wildlife Department, Wildlife Division, Diversity and Habitat Assessment Programs, County Lists of Texas Special Species (August 17, 2011), and Field Visits (June 2, 2010 and April 28, 2011)</p>							

Invasive Species and Beneficial Landscaping

All re-vegetation and landscaping activities would comply with EO 13112, which requires TxDOT and FHWA to prevent and control the introduction and spread of invasive (non-native) plant and animal species. In consideration of the *Executive Memorandum on Beneficial Landscaping*, landscaping activities would utilize techniques that complement and enhance the local environment and seek to minimize the adverse effect that the landscaping would have on it. In particular, this means using regionally native plants and employing landscaping practices and technologies that conserve water and prevent pollution. Environmentally beneficial landscaping would include seeding and replanting the ROW in accordance with TxDOT-approved seeding specifications. See **Section 5.2.11** for a description of the aesthetic considerations for the proposed project, including landscaping.

5.1.7 Topography and Soils

No-Build Alternative

As no new ROW is required under the No-Build Alternative, impacts to topography and soils are not anticipated.

Build Alternative

The proposed project is located within the Trinity River Basin. This basin is situated within two physiographic provinces, the Central Lowland and the Coastal Plain provinces. The DFW metropolitan area is located within the Central Lowland province, near the headwaters of the Trinity River. The proposed SM Wright Parkway area is located adjacent to the Trinity River and is characterized as flat to gently dipping unconsolidated terrace and floodplain deposits. The average elevation within the project area is approximately 460 feet mean sea level (msl).

According to the Natural Resources Conservation Service (NRCS) *Soil Survey of Dallas County, Texas* (1980), there are two general soil associations within the project area, the *Trinity-Frio* and the *Silawa-Silstid-Bastsil*. The *Trinity-Frio* association, which consists of deep, nearly level, clayey soils found in floodplains, makes up the southwestern portion of the project area. These are moderately alkaline, somewhat poorly drained- and well-drained soils that have slopes of 0 to 1 percent. The remainder of the project area is made up of the *Silawa-Silstid-Bastsil* association, which consists of deep, nearly level to sloping, loamy and sandy soils found on stream terraces. These are slightly acidic to medium acidic, well-drained soils that have slopes of 0 to 8 percent.

Farmland Protection Policy Act

The project area is highly developed, zoned for urban uses, and is located entirely within the municipality of Dallas. The additional ROW required is urbanized and/or zoned for residential, commercial, or

1 industrial urban use (**Section 5.2.2**). For these reasons, the proposed project is exempt from the
2 requirements of the Farmland Protection Policy Act (FPPA) and requires no coordination with the NRCS.

4 **5.1.8 Air Quality**

6 **No-Build Alternative**

7 Implementation of the No-Build Alternative would lead to increased traffic congestion and decreased
8 mobility, resulting in decreased vehicular speed and increased stop-and-go traffic. The No-Build
9 Alternative is inconsistent with the *Mobility 2035*, which contains specific projects, programs, and policies
10 intended to improve mobility, access, and air quality in the DFW region.

12 **Build Alternative**

13 The proposed North Central Texas project is located in Dallas County, which is part of the EPA's
14 designated 10-county moderate nonattainment area for the 2008 eight-hour ozone National Ambient Air
15 Quality Standard (NAAQS);²³ therefore, the transportation conformity rules apply. The proposed action is
16 consistent with the area's financially constrained long-range MTP (*Mobility 2035*) and the FY 2013-2016
17 Transportation Improvement Program (TIP). The U.S. Department of Transportation (USDOT)
18 (FHWA/Federal Transit Administration [FTA]) found the MTP to conform to the SIP on July 14, 2011 and
19 the TIP to conform on November 1, 2012. A copy of the Corridor Fact Sheet from the *Mobility 2035* is
20 included as **Appendix F-1**, and the FY 2013-2016 TIP pages are included in **Appendix F-2**. All projects
21 in the TIP that are proposed for federal or state funds were initiated in a manner consistent with federal
22 guidelines in Section 450, of Title 23 CFR and Section 613.200, Subpart B, of Title 49 CFR. Energy,
23 environment, air quality, cost, and mobility considerations are addressed in the programming of the TIP.

24
25 See **Appendix F-3** for a figure depicting MTP reference numbers and limits (per the *Mobility 2035*
26 *Network Listings, 2011 Transportation Conformity, Appendix 10.8: Roadway System [Capacity Staging]*)
27 as well as the CSJs within the proposed project limits.

28
29 The proposed project's design year traffic exceeds 140,000 vpd; therefore, a Traffic Air Quality Analysis
30 (TAQA) is required. In addition, the project adds SOV capacity; therefore, a Congestion Management
31 Process (CMP) is required.

32

²³ Effective July 20, 2012, EPA designated the ten-county DFW nonattainment area "moderate" nonattainment for the 2008 eight-hour ozone NAAQS. In addition to the previous nine-county area, EPA also added Wise County to the nonattainment area.

1 **Traffic Air Quality Analysis**

2 The primary pollutants from motor vehicles are volatile organic compounds (VOCs), carbon monoxide
 3 (CO), and nitrogen oxides (NOx). VOCs and NOx can combine under the right conditions in a series of
 4 photochemical reactions to form ozone. Because these reactions take place over a period of several
 5 hours, maximum concentrations of ozone are often found far downwind of the precursor sources. Thus,
 6 ozone is a regional problem and not a localized condition.

7
 8 The modeling procedures of ozone require long-term meteorological data and detailed area wide
 9 emission rates for all potential sources (industry, business, and transportation) and are normally too
 10 complex to be performed within the scope of an environmental analysis for a highway project.
 11 Accordingly, concentrations of ozone for the purpose of comparing the results of the National Ambient Air
 12 Quality Standards (NAAQS) are modeled by the regional air quality planning agency for the SIP.
 13 However, concentrations for CO are readily modeled for highway projects and are required by federal
 14 regulations.

15
 16 Topography and meteorology of the area in which the proposed project is located would not seriously
 17 restrict dispersion of the air pollutants. The traffic data used in the analysis were obtained from the North
 18 Central Texas Council of Governments (NCTCOG) for the design year (2035) and from the TxDOT TPP
 19 Division for 2020, which were used as a conservatively high estimate of traffic for the estimated time of
 20 completion (ETC) year 2020. Traffic for the modeled estimated time of completion year (2020) for the SM
 21 Wright segment, the CF Hawn segment, and the IH 45 segment are estimated to be 38,800 vehicles per
 22 day, 84,600 vehicles per day, and 143,100 vehicles per day respectively. Traffic for the design year
 23 (2035) for the SM Wright segment, the CF Hawn segment, and the IH 45 segment are estimated to be
 24 57,500 vehicles per day, 186,200 vehicles per day, and 171,800 vehicles per day respectively.

25
 26 Carbon monoxide concentrations for the proposed action were modeled using CAL3QHC and the Texas
 27 Department of Transportation (TxDOT) ENV CO emissions spreadsheet factoring in adverse
 28 meteorological conditions and sensitive receptors at the ROW line in accordance with the TxDOT Air
 29 Quality Guidelines. Local concentrations of carbon monoxide are not expected to exceed national
 30 standards at any time. The results of the analysis are summarized in **Table 5-2**.

31
 32 **TABLE 5-2. PROJECT CARBON MONOXIDE CONCENTRATIONS**

Year	1-hour CO (Standard 35 ppm)	1-hour % NAAQS	8-hour CO (Standard 9 ppm)	8-hour % NAAQS
2020	5.7	16.3%	3.5	38.9%
2035	6.0	17.1%	3.7	40.9%

Note: The National Ambient Air Quality Standard (NAAQS) for CO is 35 ppm for one-hour and nine ppm for eight hours. Analysis includes a one-hour background concentration of 3.7 ppm and an 8-hour background concentration of 2.3 ppm obtained from TxDOT Air Quality Guidelines.

1 **Congestion Management Process (CMP)**

2 The Congestion Management Process (CMP) is a systematic process for managing congestion that
 3 provides information on transportation system performance and on alternative strategies for alleviating
 4 congestion and enhancing the mobility of persons and goods to levels that meet state and local
 5 needs. The proposed project was developed from NCTCOG's operational CMP which meets all
 6 requirements of amended United States Code (U.S.C.) 134(k)(3) and 49 U.S.C. 5303(k)(3), amendments
 7 incorporating the transportation planning requirements of Safe, Accountable, Flexible, Efficient
 8 Transportation Equity Act: A Legacy for Users (SAFETEA-LU). In March of 2011, the NCTCOG's RTC
 9 approved the MTP, which contains elements of the CMP.

10
 11 The CMP element of the plan would carry an inventory of all project commitments (including those
 12 resulting from major investment studies) detailing type of strategy, implementing responsibilities,
 13 schedules, and expected costs. The operational management and travel demand reduction strategies
 14 are commitments made by the region at two levels: program level and project level
 15 implementation. Program level commitments are inventoried in the regional CMP, which was adopted by
 16 the NCTCOG RTC. These would be included in the financially constrained MTP, and future resources
 17 would be earmarked for their implementation. At the project implementation level, travel demand
 18 reduction strategies and commitments would be added to the regional TIP or included in the construction
 19 plans. The regional TIP would provide for programming of these projects at the appropriate time with
 20 respect to the SOV facility implementation and project specific elements. Individual CMP projects in the
 21 area are listed in **Table 5-3**.

22
 23 **TABLE 5-3. CMP PROJECTS NEAR THE BUILD ALTERNATIVE**

Project Code	Street / Name	City	County	Implementing Agency	Project Type	Year of Implementation	Total Project Cost
51464	VA - Various Locations - Development and Integration of Software for Daltrans System	Various	Dallas	TxDOT-Dallas	ITS	2003	\$2,752,476
20062	SM Wright Blvd (US 175) from Budd St to IH 45/Julius Schepps	Dallas	Dallas	Dallas	New Roadway	2010	\$45,800,000
20135.0666	IH 45 NB at Pennsylvania	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.067	Pennsylvania at SM Wright	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.0131	Hatcher at SM Wright	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.1331	Meadow at ML King, Jr.	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.0221	ML King NB at RB Cullum	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.1332	Malcolm X at ML King, Jr.	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.0152	IH 45 at Lamar	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20135.1666	Overton at SM Wright	Dallas	Dallas	Dallas	ITS	2011	\$3,032,000
20209	US 175 from IH 45 to SM Wright (SH 310)	Dallas	Dallas	Dallas	Interchange	2010	\$1,250,000

Source: <http://www.nctcog.org/trans/tip/tipins/index.asp>, January 2012

24
 25 In an effort to reduce traffic congestion and the need for SOV lanes in the region, TxDOT and NCTCOG
 26 will continue to promote appropriate congestion reduction strategies through the Congestion Mitigation

1 and Air Quality program, the CMP, and the MTP. The congestion reduction strategies considered for the
2 proposed project would help alleviate congestion in the SOV study boundary, but would not eliminate
3 it. Therefore, the proposed project is justified. The CMP analysis for added SOV capacity projects in the
4 Transportation Management Area is on file and available for review at NCTCOG.

5 6 ***Mobile Source Air Toxics (MSATs)***

7 8 Mobile Source Air Toxics Background

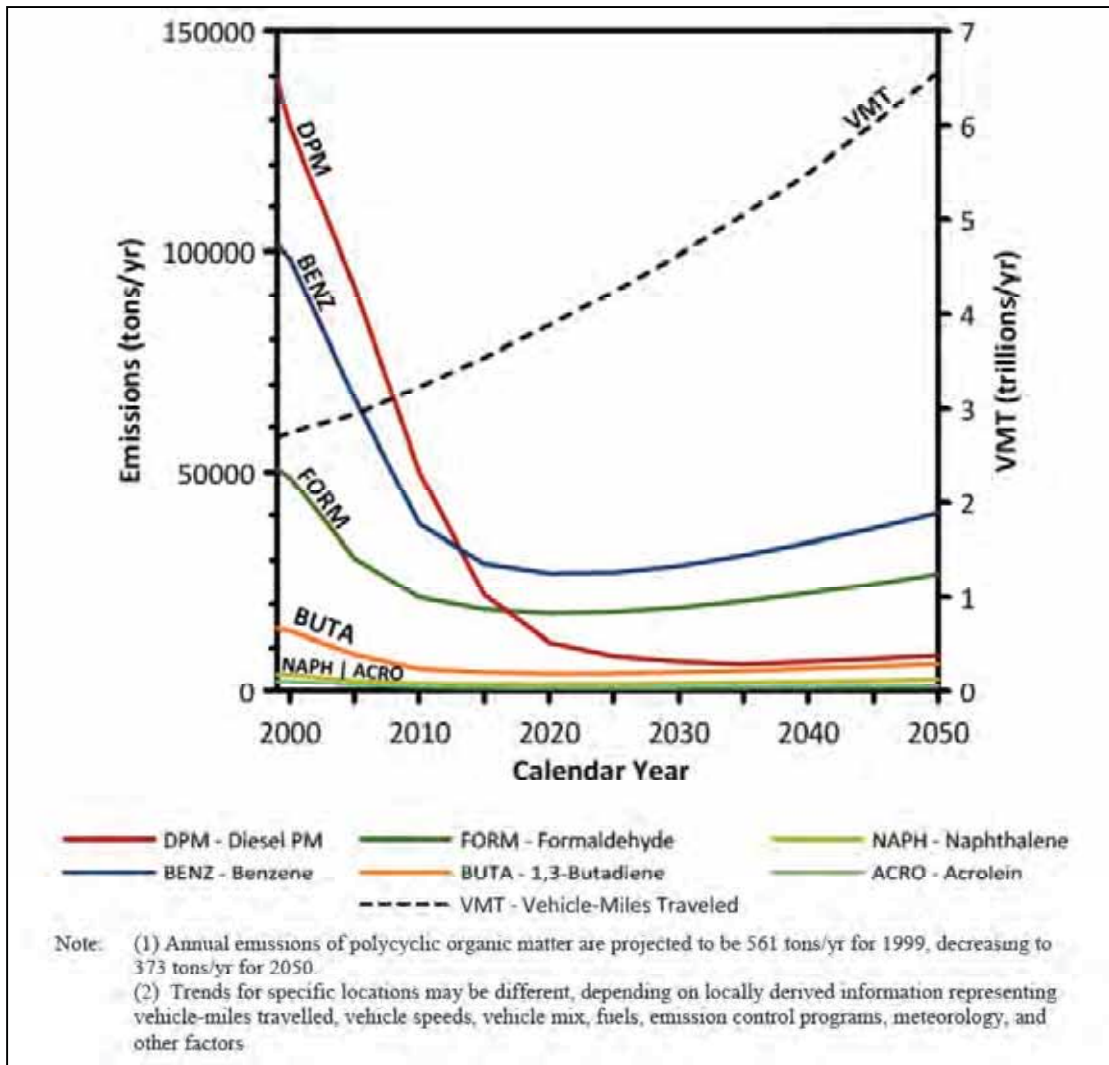
9 Controlling air toxic emissions became a national priority with the passage of the Clean Air Act
10 Amendments (CAAA) of 1990, whereby Congress mandated that the U.S. EPA regulate 188 air toxics,
11 also known as hazardous air pollutants. The EPA has assessed this expansive list in their latest rule on
12 the Control of Hazardous Air Pollutants from Mobile Sources (Federal Register, Vol. 72, No. 37, page
13 8430, February 26, 2007) and identified a group of 93 compounds emitted from mobile sources that are
14 listed in their Integrated Risk Information System (IRIS).²⁴ In addition, EPA identified seven compounds
15 with substantial contributions from mobile sources that are among the national and regional-scale cancer
16 risk drivers from their 1999 National Air Toxics Assessment (NATA).²⁵ These are acrolein, benzene, 1,3-
17 butadiene, diesel particulate matter (DPM) plus diesel exhaust (DE) organic gases, formaldehyde,
18 naphthalene, and polycyclic organic matter (POM). While FHWA considers these the priority mobile
19 source air toxics, the list is subject to change and may be adjusted in consideration of future EPA rules.

20
21 The 2007 EPA rule mentioned above requires controls that will dramatically decrease MSAT emissions
22 through cleaner fuels and cleaner engines. According to an FHWA analysis using EPA's MOBILE6.2
23 model, even if vehicle activity (vehicle-miles travelled, VMT) increases by 145 percent as assumed, a
24 combined reduction of 72 percent in the total annual emission rate for the priority MSAT is projected from
25 1999 to 2050, as shown in **Figure 5-1** and **Table 5-4**.

26
²⁴ <http://www.epa.gov/ncea/iris/index.html>

²⁵ <http://www.epa.gov/ttn/atw/nata1999>

1 **FIGURE 5-1. NATIONAL MSAT EMISSION TRENDS 1999 – 2050 FOR VEHICLES OPERATING ON**
 2 **ROADWAYS USING EPA'S MOBILE6.2 MODEL**



3
4

Source: FHWA Interim Guidance on Air Toxic Analysis in NEPA²⁶ Documents, September 30, 2009.

²⁶ National Environmental Policy Act of 1969.

TABLE 5-4. NATIONAL MSAT EMISSIONS AND PERCENT REDUCTION FOR 1999-2050 FOR VEHICLES OPERATING ON ROADWAYS USING EPA'S MOBILE 6.2 MODEL

Pollutant/VMT	Pollutant Emissions (tons) and Vehicle-Miles Traveled (VMT) by Calendar Year							Reduction 1999 to 2050
	1999	2000	2010	2020	2030	2040	2050	
Acrolein	2570	2430	1000	775	824	970	1160	-55%
Benzene	102000	98400	38000	27000	28700	33900	40500	-60%
1,3-Butadiene	14400	14100	5410	4360	4630	5460	6520	-55%
Diesel PM	139000	128000	50000	11400	7080	7070	8440	-94%
Formaldehyde	50900	48800	21400	17800	19000	22400	26800	-47%
Naphthalene	4150	4030	1990	1780	2030	2400	2870	-31%
Polycyclic Organic Matter	561	541	259	233	265	313	373	-33%
Trillions VMT	2.69	2.75	3.24	3.88	4.63	5.51	6.58	145%

Source: U.S. Environmental Protection Agency. MOBILE6.2 Model run 20 August 2009

Air toxics analysis is a continuing area of research. While much work has been done to assess the overall health risk of air toxics, many questions remain unanswered. In particular, the tools and techniques for assessing project-specific health outcomes as a result of lifetime MSAT exposure remain limited. These limitations impede the ability to evaluate how the potential health risks posed by MSAT exposure should be factored into project-level decision-making within the context of the National Environmental Policy Act (NEPA). The FHWA, EPA, the Health Effects Institute (HEI), and others have funded and conducted research studies to try to more clearly define potential risks from MSAT emissions associated with highway projects. The FHWA will continue to monitor the developing research in this emerging field.

Project Specific MSAT Assessment

A quantitative analysis provides a basis for identifying and comparing the potential differences among MSAT emissions, if any, from the various alternatives. The quantitative assessment presented below is derived in part from a study conducted by the FHWA entitled *A Methodology for Evaluating Mobile Source Air Toxic Emissions Among Transportation Project Alternatives*, found at:

http://www.fhwa.dot/environmental/air_quality/air_toxics/research_and_analysis/mobile_source_air_toxics/msatemissions.pdf.

MSAT Modeling

This analysis was completed using the latest version of the EPA's mobile emission factor model (MOBILE6.2). The MOBILE6.2 emission factors are consistent with those used to develop the SIP and conformity determination for North Central Texas. These factors do not yet reflect the EPA Final Rules on Control of Hazardous Air Pollutants from Mobile Sources²⁷, that when implemented, will substantially reduce emissions of benzene and other MSATs; the rule became effective on April 27, 2007.

²⁷ 72 FR 8427 (February 26, 2007), affecting changes to Title 40 CFR Parts 59, 80, 85 and 86.

1 The MSAT study area is composed of an “affected transportation network.” The SM Wright project
2 affected transportation network includes the proposed network links and other transportation model links
3 reflecting a plus or minus five or greater percent change in traffic volume when comparing the Build and
4 No-Build scenarios in the year 2035. The links represent roadway segments within a transportation
5 network utilized for traffic demand modeling. Each link contains, among other information, length, traffic
6 volume, number of lanes, speed, and direction of flow that characterize each link. NCTCOG provided the
7 DFW transportation networks used in this EA. The plus or minus five percent threshold was adopted as
8 the basis to determine the affected transportation network study area.

9
10 The 2012 base year scenario represents the existing condition. The affected transportation network for
11 2012 is composed of those links determined to change plus or minus five or greater percent in the 2035
12 Build/No-Build comparison, and which currently exist in the 2012 network. The parameters used to
13 characterize the travel activity utilized in the analysis included directional speeds and traffic volumes for
14 the AM peak period, PM peak period, and off-peak period. See **Appendices C-1** and **C-2** for the MSAT
15 affected transportation network maps (years 2012 and 2035, respectively).

16
17 For the purpose of this analysis, three scenarios were modeled:

- 18 • “2012 base year” or existing condition in 2012;
- 19 • “2035 design year” Build; and
- 20 • “2035 design year” No-Build.

21
22 Specific data from the MSAT study area of the NCTCOG Regional Transportation Model was used to
23 determine the mass of MSAT emissions associated with the base case or existing year 2012 and the
24 2035 Build and No-Build scenarios. The total mass of MSATs in the year 2012 was higher than either the
25 Build or No-Build scenarios in the year 2035 even though the projected total VMT was higher. This is
26 reflective of the overall national trend in MSATs as previously described.

27
28 The proposed SM Wright project quantitative MSAT analysis estimates the total amount(s) of the seven
29 priority air toxics as shown in **Table 5-5** and **Figure 5-2**.

1

TABLE 5-5. MSAT EMISSIONS BY SCENARIO (TONS/YEAR)

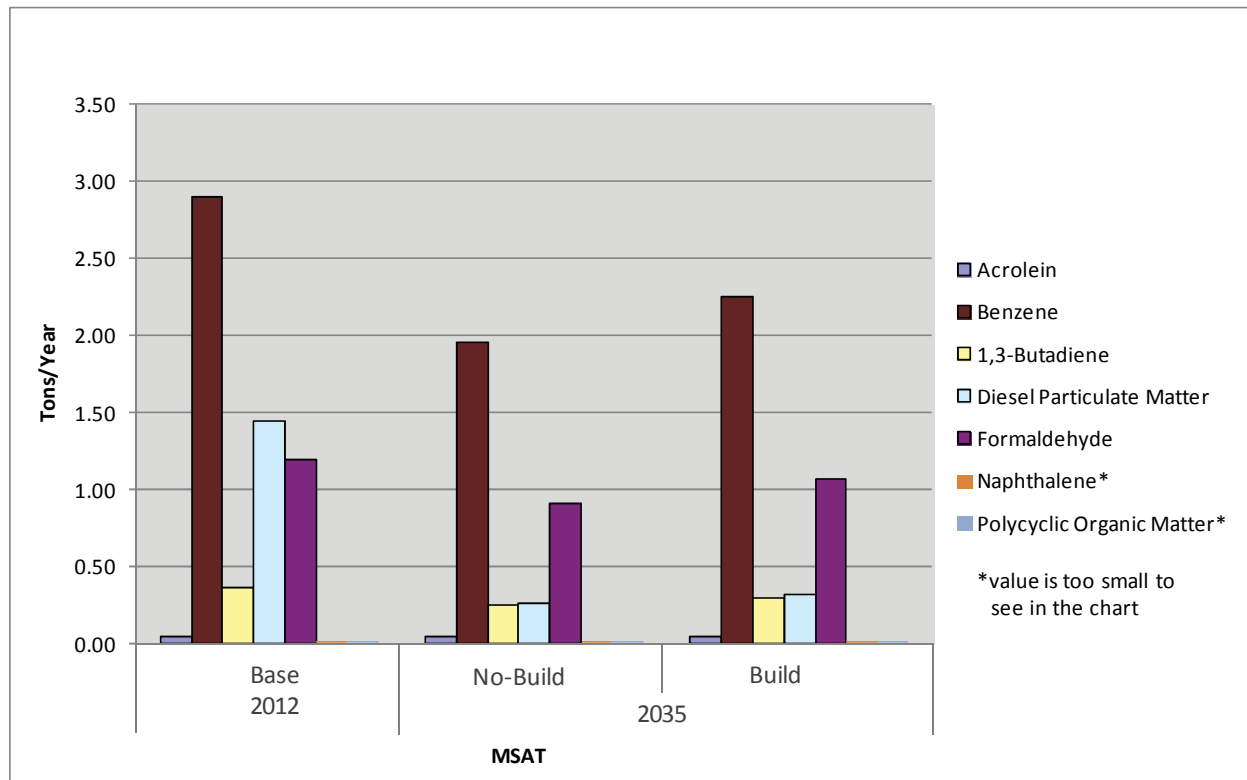
Compound (Tons/Year)	Year / Scenario			Percent Difference	
	2012 Base	2035 No-Build	2035 Build	2012 to 2035 No-Build	2012 to 2035 Build
Acrolein	0.05	0.04	0.05	-20	0
Benzene	2.90	1.95	2.25	-33	-22
1,3-Butadiene	0.36	0.25	0.29	-31	-19
Diesel Particulate Matter (DPM)	1.44	0.26	0.32	-82	-77
Formaldehyde	1.19	0.91	1.07	-24	-10
Naphthalene	0.01	0.01	0.01	0	0
Polycyclic Organic Matter (POM)	0.0015	0.0015	0.0017	0	15
Total MSAT	5.95	3.42	3.99	-43	-33
Total VMT (Miles/Year)	263,895,033	421,510,037	487,621,549	60	85

Source: NCTCOG (December 2011)

2

FIGURE 5-2. PROJECTED CHANGES IN MSAT EMISSIONS BY SM WRIGHT PROJECT SCENARIO OVER TIME

3



5

6 Source: NCTCOG data and Project Study Team (2011).

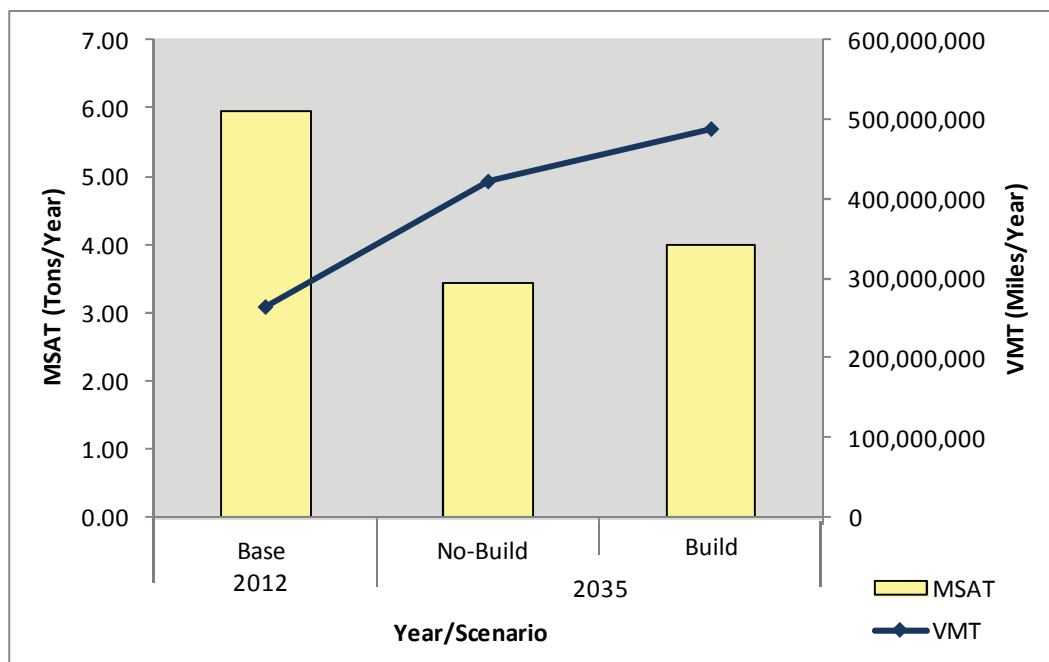
1 The analysis indicates a decrease in MSAT emissions can be expected for both the Build and No-Build
 2 Alternatives in year of 2035 as compared to the 2012 base year. The 2035 Build Alternative emissions of
 3 total MSATs are predicted to decrease by 33 percent as compared with 2012 emissions.

4
 5 Of the seven priority MSAT compounds, benzene and DPM contribute the most to the emissions total in
 6 2012. In future years, a decline in benzene is anticipated (a 22 percent reduction in benzene from 2012
 7 compared to the 2035 Build scenario), and an even larger reduction in DPM emissions is predicted (77
 8 percent decrease from 2012 compared to the 2035 Build scenario).

9
 10 As shown in **Figure 5-3**, total MSAT emissions plotted over time are predicted to decrease even though
 11 overall VMT continues to rise.

12
 13

FIGURE 5-3. COMPARISON OF MSAT EMISSIONS VERSUS VMT BY SCENARIO



Source: NCTCOG Data and Half Study Team (2011).

14
 15 The amount of MSATs emitted would be proportional to the VMT, assuming that other variables such as
 16 fleet mix are the same for each alternative. The VMT estimated for the Build scenario is higher than that
 17 for the No-Build scenario, because the additional capacity increases the efficiency of the roadway and
 18 attracts rerouted trips from elsewhere in the transportation network. This increase in VMT would lead to
 19 higher MSAT emissions for the Build scenario along the highway corridor, along with a corresponding
 20 decrease in MSAT emissions along the parallel routes. The emissions increase is offset somewhat by
 21 lower MSAT emission rates due to increased speeds; according to EPA's MOBILE6 emissions model,
 22 emissions of all of the priority MSATs except for DPM decrease as speed increases. The extent to which

1 these speed-related emissions decreases would offset VMT-related emissions increases cannot be
2 reliably projected due to the inherent deficiencies of technical models.

3

4 Emissions in the design year 2035 would likely be lower than existing levels as a result of EPA's national
5 control programs that are projected to reduce annual MSAT emissions by 72 percent from 1999 to 2050.
6 Local conditions may differ from these national projections in terms of fleet mix and turnover, VMT growth
7 rates, and local control measures. However, the magnitude of the EPA-projected reductions is so great
8 (even after accounting for VMT growth) that MSAT emissions in the study area are likely to be lower in
9 the future than they are now.

10

11 The additional travel lanes and the new DC ramps would have the effect of moving some traffic closer to
12 nearby homes, schools and businesses; therefore, there may be localized areas where ambient
13 concentrations of MSATs could be higher under the Build scenario than the No-Build scenario. The
14 localized increases in MSAT concentrations would likely be most pronounced along the improved
15 roadway sections that would be built along CF Hawn Freeway (US 175) from IH 45 to the eastern project
16 limit and IH 45 from south of Lamar Street to the northern project limit. However, the magnitude and the
17 duration of these potential increases compared to the No-Build scenario cannot be reliably quantified due
18 to incomplete or unavailable information in forecasting project-specific MSAT health impacts. In sum,
19 when a roadway is improved and, as a result, moves closer to receptors, the localized level of MSAT
20 emissions for the Build scenario could be higher relative to the No-Build scenario, but this could be offset
21 due to increases in speeds and reductions in congestion (which are associated with lower MSAT
22 emissions). Also, MSATs will be lower in other locations when traffic shifts away from them. However, on
23 a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause
24 substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be substantially
25 lower than today.

26

27 *Incomplete or Unavailable Information*

28 In FHWA's view, information is incomplete or unavailable to credibly predict the project specific health
29 impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives. The
30 outcome of such an assessment, adverse or not, would be influenced more by the uncertainty introduced
31 into the process through assumption and speculation rather than any genuine insight into the actual
32 health impacts directly attributable to MSAT exposure associated with a proposed action.

33

34 The U.S. EPA is responsible for protecting the public health and welfare from any known or anticipated
35 effect of an air pollutant. They are the lead authority for administering the Clean Air Act (CAA) as well as
36 the CAAA and have specific statutory obligations with respect to hazardous air pollutants and MSAT. The
37 EPA is in the continual process of assessing human health effects, exposures, and risks posed by air

1 pollutants. They maintain the IRIS, which is “a compilation of electronic reports on specific substances
2 found in the environment and their potential to cause human health effects.”²⁸ Each report contains
3 assessments of noncancerous and cancerous effects for individual compounds and quantitative
4 estimates of risk levels from lifetime oral and inhalation exposures with uncertainty spanning perhaps an
5 order of magnitude.

6
7 Other organizations are also active in the research and analyses of the human health effects of MSAT,
8 including the HEI. Two HEI studies are summarized in Appendix D of FHWA's *2009 Interim Guidance*
9 *Update on Mobile Source Air Toxic Analysis in NEPA Documents*, which can be found online.²⁹ This
10 Appendix also discusses a variety of FHWA research initiatives related to air toxics. Among the adverse
11 health effects linked to MSAT compounds at high exposures are cancer in humans in occupational
12 settings; cancer in animals; and irritation to the respiratory tract, including the exacerbation of asthma.
13 Less obvious is the adverse human health effects of MSAT compounds at current environmental
14 concentrations³⁰ or in the future as vehicle emissions substantially decrease.³¹

15
16 The methodologies for forecasting health impacts include emissions modeling; dispersion modeling;
17 exposure modeling; and then final determination of health impacts - each step in the process building on
18 the model predictions obtained in the previous step. All are encumbered by technical shortcomings or
19 uncertain science that prevents a more complete differentiation of the MSAT health impacts among a set
20 of project alternatives. These difficulties are magnified for lifetime (i.e., 70 year) assessments, particularly
21 because unsupportable assumptions would have to be made regarding changes in travel patterns and
22 vehicle technology (which affects emissions rates) over that time frame, since such information is
23 unavailable. The results produced by the EPA's MOBILE6.2 model, the California EPA's EMFAC2007
24 model, and the EPA's MOVES model in forecasting MSAT emissions are highly inconsistent. Indications
25 from the development of the MOVES model are that MOBILE6.2 underestimates diesel particulate matter
26 (PM) emissions and overestimates benzene emissions.

27
28 Regarding air dispersion modeling, an extensive evaluation of EPA's guideline CAL3QHC model was
29 conducted in an NCHRP study³², which documents poor model performance at 10 sites across the
30 country - three where intensive monitoring was conducted plus an additional seven with less intensive
31 monitoring. The study indicates a bias of the CAL3QHC model to overestimate concentrations near
32 highly congested intersections and underestimate concentrations near uncongested intersections. The
33 consequence of this is a tendency to overstate the air quality benefits of mitigating congestion at
34 intersections. Such poor model performance is less difficult to manage for demonstrating compliance

²⁸ EPA, <http://www.epa.gov/ncea/iris/index.html>

²⁹ http://www.fhwa.dot.gov/environment/air_quality/air_toxics/policy_and_guidance/100109guidmem.cfm

³⁰ HEI, <http://pubs.healtheffects.org/view.php?id=282>

³¹ HEI, <http://pubs.healtheffects.org/view.php?id=306>

³² http://www.epa.gov/scram001/dispersion_alt.htm#hyroad

1 with National Ambient Air Quality Standards for relatively short time frames than it is for forecasting
2 individual exposure over an entire lifetime, especially given that some information needed for estimating
3 70-year lifetime exposure is unavailable. It is particularly difficult to reliably forecast MSAT exposure near
4 roadways, and to determine the portion of time that people are actually exposed at a specific location.

5
6 There are considerable uncertainties associated with the existing estimates of toxicity of the various
7 MSAT, because of factors such as low-dose extrapolation and translation of occupational exposure data
8 to the general population, a concern expressed by HEI.³³ As a result, there is no national consensus on
9 air dose-response values assumed to protect the public health and welfare for MSAT compounds, and in
10 particular for diesel PM. The EPA³⁴ and the HEI³⁵ have not established a basis for quantitative risk
11 assessment of diesel PM in ambient settings.

12
13 There is also the lack of a national consensus on an acceptable level of risk. The current context is the
14 process used by the EPA as provided by the CAA to determine whether more stringent controls are
15 required in order to provide an ample margin of safety to protect public health or to prevent an adverse
16 environmental effect for industrial sources subject to the maximum achievable control technology
17 standards, such as benzene emissions from refineries. The decision framework is a two-step process.
18 The first step requires EPA to determine a “safe” or “acceptable” level of risk due to emissions from a
19 source, which is generally no greater than approximately 100 in a million. Additional factors are
20 considered in the second step, the goal of which is to maximize the number of people with risks less than
21 one in a million due to emissions from a source. The results of this statutory two-step process do not
22 guarantee that cancer risks from exposure to air toxics are less than one in a million; in some cases, the
23 residual risk determination could result in maximum individual cancer risks that are as high as
24 approximately 100 in a million. In a June 2008 decision, the U.S. Court of Appeals for the District of
25 Columbia Circuit upheld EPA’s approach to addressing risk in its two-step decision framework.
26 Information is incomplete or unavailable to establish that even the largest of highway projects would result
27 in levels of risk greater than safe or acceptable. Because of the limitations in the methodologies for
28 forecasting health impacts described, any predicted difference in health impacts between alternatives is
29 likely to be much smaller than the uncertainties associated with predicting the impacts. Consequently, the
30 results of such assessments would not be useful to decision makers, who would need to weigh this
31 information against project benefits, such as reducing traffic congestion, accident rates, and fatalities plus
32 improved access for emergency response, that are better suited for quantitative analysis.

³³ <http://pubs.healtheffects.org/view.php?id=282>

³⁴ <http://www.epa.gov/risk/basicinformation.htm#g>

³⁵ <http://wwwcf.fhwa.dot.gov/exit.cfm?link=http://pubs.healtheffects.org/getfile.php?u=395>

1 *Conclusion*

2 In this document, a quantitative MSAT assessment has been provided relative to the Build and No-Build
3 alternatives of MSAT emissions and has acknowledged that the Build Alternative may result in increased
4 exposure to MSAT emissions in certain locations, although the concentrations and duration of exposures
5 are uncertain, and because of this uncertainty, the health effects from these emissions cannot be
6 estimated.

7
8 **5.2 Community Impact Assessment**

9 The following assessment is an evaluation of the potential impacts of the proposed project on the
10 community and its quality of life in relation to such issues as regional and community growth, land use,
11 Section 4(f) and 6(f) properties, economic impacts, relocations and displacements, access, and
12 community cohesion. Limited English Proficiency (LEP) populations, environmental justice, public
13 facilities and services, aesthetics, noise, and traffic operations were also evaluated. As previously
14 established, the proposed project is located within the City of Dallas. **Appendix A-1** shows the project
15 location within the City of Dallas.

16
17 **5.2.1 Regional and Community Growth**

18
19 **No-Build Alternative**

20 The No-Build Alternative would not support the projected population growth and planned economic
21 development in Dallas County or the neighborhoods within and near the project area, since no roadway
22 improvements would be implemented. Mobility in the project area would be constrained.

23
24 **Build Alternative**

25 Extensive coordination occurred between the NCTCOG, Dallas County, and the City of Dallas regarding
26 potential future developments. The proposed project has taken into consideration local comprehensive
27 plans as well as 2035 demographic and economic projections in the project area. The following
28 discussion includes a brief profile of the City of Dallas, as well as general business trends, current major
29 planned development, and forecasted population trends.

30
31 ***City of Dallas***

32 The proposed project is located within the City of Dallas. Established in 1841, the City of Dallas is the
33 third largest city in the state of Texas, with a population of 1,197,816 (according to the 2010 Census) and
34 a median household income of \$42,259 per year (according to the 2007-2011 American Community
35 Survey (ACS) estimates data).³⁶ The city consists of approximately 340.52 square miles of land.

³⁶ The latest Census data has been utilized to obtain all socioeconomic data. The 2010 Census data was used to obtain population counts and basic characteristics, while the Census Bureau's American Community Survey (ACS) 2007 – 2011 estimate data was used to obtain demographic, social, economic and housing characteristics.

1 Various means of public transportation are provided within the City of Dallas including the DART rail and
2 bus services, which provide service to destinations in Dallas, Carrollton, Farmers Branch, Garland, Plano
3 and Richardson. Other services offered include the M-Line Trolley, which provides access to commuter
4 travel in the downtown area; the Trinity Railway Express (TRE) Commuter Rail, which provides access
5 between Dallas and the City of Fort Worth; and the National Railroad Passenger Corporation, Amtrak,
6 which provides access to national travel. In September of 2009, DART completed construction of the
7 Green Line in South Dallas, which included construction Transit Stations at Fair Park and the MLK Jr.
8 Station near J.B. Jackson Avenue. In addition, the construction of Hatcher Street Station at Hatcher
9 Street and Scyene Road was completed in December 2010. Associated transit oriented development
10 (TOD) is planned for the MLK Station and around the Hatcher Station. Such TOD is characteristic of the
11 continued push towards mixed-use and commercial development throughout much of the city's urban
12 core.

13
14 Additional transportation improvements are included in *Forward Dallas*³⁷, the city's comprehensive plan
15 approved by the Dallas City Council in 2006, is a guide for making decisions about growth and
16 development. The plan focuses on improving education, public safety, healthy environment, job growth,
17 convenient transportation, and the quality of life to the residents. The plan's key initiatives include
18 enhancing the economy, making quality housing more accessible, creating strong and healthy
19 neighborhoods, enhancing transportation systems, ensuring environmental sustainability, and
20 encouraging new development patterns.

21
22 The city's economy is primarily based on banking, commerce, telecommunications, computer technology,
23 energy, and transportation. Several major employers or activity centers are located within the City of
24 Dallas and are considered major traffic generators. These include healthcare, manufacturing,
25 transportation, finance, retail, administration, construction, hotels, professional/technical, wholesale, and
26 educational facilities. This involves the Southern Methodist University, the University of Texas – Dallas,
27 and the University of Dallas. Also located in the City of Dallas are two professional teams, the Dallas
28 Mavericks basketball team and the Dallas Stars hockey team.

29
30 ***Regional and Community Population Trends***

31 According to the 2010 Census, the 2010 population in the North Central Texas region is just over 6.5
32 million.³⁸ **Table 5-6** summarizes the population forecasts for Dallas County and the City of Dallas.

³⁷ <http://www.dallascityhall.com/forwardDallas/pdf/Vision.pdf>

³⁸ http://www.nctcog.org/ris/census/2010/Population_by_Age.pdf

1 **TABLE 5-6. HOUSEHOLD¹ POPULATION TRENDS FOR CITY OF DALLAS AND DALLAS COUNTY**

Location	2005	2035 Projected	2040 Projected	Percent Change 2005 to 2035	Percent Change 2005 to 2040
City of Dallas	1,307,899	1,652,479	1,713,662	26.3 (0.9%/year)	31.0 (0.9%/year)
Dallas County	2,273,250	3,125,282	3,265,190	37.5 (1.3%/year)	43.6 (1.2%/year)
Note: 1. Excludes in group quarters such as dormitories, correctional facilities, and nursing homes.					
Source: NCTCOG 2040 Demographic Forecast: http://www.nctcog.org/ris/demographics/forecast/County2040.pdf , accessed March 2012.					

2
3 As shown in **Table 5-6**, the estimated percent change in population growth from 2005 to 2035 for Dallas
4 County is projected to be higher than growth within the City of Dallas. The overall average annual rate of
5 population growth ranges from 0.9 percent to 1.3 percent for these demographic areas. Information from
6 City of Dallas planners indicates the citywide growth rate for the period 2000 through 2009 averaged 1.2
7 percent per year.

8
9 The Build Alternative would support the regional and community growth in Dallas County and in the
10 project area. The proposed improvements are included in regional, county, and municipal future
11 transportation plans, and would address the transportation needs in the corridor as well as the
12 transportation needs of Dallas County. The proposed improvements are in response to the current
13 roadway's safety concerns at the existing US 175/SH 310 interchange, other design standard
14 deficiencies, as well as the need for improved capacity and mobility within the project area.

15
16 The proposed reconstruction (which includes downsizing the SM Wright Freeway to a low speed urban
17 arterial, improvements to the CF Hawn Freeway (US 175) and the addition of DC ramps to IH 45, as well
18 as the construction of a new interchange with IH 45) would accommodate transportation needs by
19 improving safety, updating the current freeway facility to meet urban freeway design standards, managing
20 congestion, and improving mobility. In addition, the downgrading of the SM Wright Freeway facility could
21 assist with restoring connectivity within the surrounding neighborhoods.

22
23 The improved mobility resulting from the proposed project could indirectly attract and/or influence the
24 rate, type and amount of land development, thereby influencing economic growth for the area as new
25 residents commute within the region. The potential for the proposed improvements to result in such
26 indirect impacts is evaluated in **Section 6.0**.

5.2.2 Land Use

No-Build Alternative

Under the No-Build Alternative, land use would not be directly affected by the acquisition of land for transportation use. In addition, no FPPA or Section 4(f) coordination would be required.

Build Alternative

The proposed project is within the jurisdiction of the City of Dallas. The City of Dallas has an active Planning and Development Department and a current zoning ordinance. Zoning protects the rights of property owners while promoting the general welfare of the community. A zoning ordinance can govern private land use and segregate incompatible uses by dividing land into categories according to use, and setting regulations for these categories. The purpose of zoning is to locate particular land uses where they are most appropriate, considering public utilities, road access, and the established development pattern. In addition to categorizing land by uses such as residential, commercial, and industrial, a zoning ordinance also specifies such details as building setback lines, the height and bulk of buildings, the size and location of open spaces, and the intensity to which the land may be developed.

According to the City of Dallas' online Interactive Zoning Map³⁹, the zoned categories of land use directly adjacent to the proposed project include the following: single-family and duplex residential category (R-5(A), R-7.5(A) and D(A)), community mixed-use general (RS-MU), multifamily residential (MF-1(A), MF-2(A), and MF-3(A)), industrial manufacturing (IM), neighborhood commercial (NC), community commercial (CC), and parking (P(A)).⁴⁰

Land use in the project area is considered mostly urban land with some undeveloped land. Existing land use would be affected by the conversion of 32.4 acres to transportation use; however, this conversion is not anticipated to substantially change the local and regional land use planning efforts. **Table 5-7** shows a breakdown of proposed ROW acquisition by development type.

TABLE 5-7. PROPOSED ROW ACQUISITION BY DEVELOPMENT TYPE

Development Type	Acres	Percentage of Proposed ROW
Undeveloped Land	4.93	15%
Developed Residential Land	0.70	2%
Developed Non-Residential Land	25.58	79%
UPRR	1.15	4%
Undeveloped Easement	0	0%
Developed Commercial Easement	0	0%
Total ROW Required	32.4	100%

³⁹ <http://gis.dallascityhall.com/zoningweb/>

⁴⁰ <http://www.dallascityhall.org/pdf/planning/ZoningDistrictStandards.pdf>

1 The project also consists of 171.21 acres of existing ROW that is currently used for transportation.
2 Approximately 1.53 acres of this existing ROW would be converted to a different transportation use in
3 order to accommodate the US 175/CF Hawn Freeway extension between Lamar Street and the SM
4 Wright Parkway. The total construction footprint for the proposed project (including existing and proposed
5 ROW) is approximately 203.7 acres.

6 7 **5.2.3 Section 4(f) and 6(f) Properties**

8 9 **No-Build Alternative**

10 Implementation of the No-Build Alternative would not impact any Section 4(f) or Section 6(f) resources.
11

12 **Build Alternative**

13 Section 4(f) refers to the original section within the USDOT Act of 1966 (49 USC 303 and 23 USC 138)
14 which created the requirement for consideration of park and recreational lands, wildlife and waterfowl
15 refuges, and public and private historic sites in transportation project development. Section 4(f) applies to
16 all projects that receive funding from or require approval by an agency of the USDOT, including the
17 FHWA. Section 4(f) states that the FHWA shall not approve the use of publicly owned land from a public
18 park, recreation area, or wildlife and waterfowl refuge of national State, or local significance, or public or
19 private land of an historic site of national, State, or local significance (as determined by the Federal,
20 State, or local officials having jurisdiction) unless (1) there is no feasible and prudent alternative and (2)
21 all possible planning to minimize harm from such use has occurred. Section 4(f) is now implemented by
22 the FHWA through 23 CFR 774 effective March 12, 2008. Under FHWA's regulations, the "use" of a
23 Section 4(f) resource occurs when:

- 24 1. Land from a Section 4(f) property is permanently acquired for a transportation project;
- 25 2. When there is a temporary occupancy of land that is adverse in terms of the statute's
26 preservation purpose; or
- 27 3. When there is a constructive use of the Section 4(f) property. A constructive use occurs
28 when the transportation project does not physically incorporate land from a Section 4(f)
29 property, but the project's proximity impacts are so severe that the protected activities,
30 features, or attributes that qualify the property for protection under Section 4(f) are
31 substantially impaired.

32
33 There are no wildlife or waterfowl refuges in the project area. In regards to historic sites, there are no
34 previously recorded archeological historic properties (36 CFR 800.16(l)) within the project area of
35 potential effect (APE) and TxDOT determined, pursuant to the First Amended Programmatic Agreement
36 among the FHWA, TxDOT, the Texas State Historic Preservation Officer (TSHPO), and the Advisory
37 Council on Historic Preservation (ACHP) Regarding the Implementation of Transportation Undertakings

1 (PA-TU), that the proposed project is not likely to affect archeological historic properties and that no
2 survey is warranted (see **Section 5.3.2**). Two National Register of Historic Places (NRHP)-listed historic
3 districts (Colonial Hill Historic District and South Boulevard-Park Row Historic District), one NRHP-eligible
4 historic district (Central Park Historic District), and one structure (Forest Theater) were determined by
5 TxDOT to be individually eligible for listing in the NRHP and were identified within the APE for the
6 proposed project (see **Section 5.3.1**). The proposed project would not require ROW from these historic
7 properties. In addition, TxDOT evaluated potential proximity impacts and determined the proposed
8 project would have no adverse effect on these historic properties. As such, there would be no “use” of
9 these historic properties as defined under Section 4(f). TxDOT initiated Section 106 consultation with the
10 TSHPO on January 18, 2012 requesting concurrence with the determinations of eligibility and effects, and
11 a no adverse effect determination was issued on February 7, 2012 (see **Appendix C-6, Pages 1-7**). No
12 further consideration under Section 4(f) for historic sites is anticipated for these sites.

13
14 Because of community input at the January 31, 2013 Public Hearing, TxDOT made revisions to the
15 proposed entrance and exit ramps on IH 45 at Lamar Street and Pennsylvania Avenue. The design
16 change required the southbound entrance ramp to IH 45 from Lamar to be moved further west, and also
17 required relocation of the existing McDonald Avenue intersection with Lamar Street. This revision
18 required acquisition of approximately one (1) acre of land at the Dallas Independent School District
19 (DISD) facility addressed 3701 S. Lamar. The DISD facility, as identified in the earlier Trinity Parkway
20 survey, was formerly a Procter and Gamble Manufacturing Plant that has been determined eligible for
21 listing in the NRHP under Criterion A and Criterion C, both at the local level of significance. This design
22 refinement would require approximately one (1) acre of land from the property’s 27.59 acre legal parcel
23 (approximately 3%) and the relocation of McDonald Avenue which serves as a driveway into the DISD
24 facility. No buildings on the property would be displaced. The proposed ROW acquisition would take a
25 small part of the parking lot located on the northeast corner. On June 5, 2013, TxDOT completed
26 consultation on effects to this NRHP-eligible property with the SHPO under Section 106 of the NHPA.
27 The coordination determined that the proposed project would have “No Adverse Effect to the Eligible
28 Former Procter and Gamble Manufacturing Plant” and the taking of approximately 0.9 acre from the
29 facility qualifies as a *de minimis* impact finding (**Appendix C-6, Pages 8-13**).

30
31 Because the DISD property has been determined eligible for listing in the NRHP, the additional ROW and
32 proposed relocation of the driveway would constitute a use of a Section 4(f) resource. Historic sites of
33 national, State, or local significance are afforded special protections under Section 4(f) of the Department
34 of Transportation Act (49 U.S.C. 303 and 23 U.S.C 138). On May 20 and June 5, 2013, TxDOT
35 representatives met with DISD representatives to 1) provide an overview of the proposed project and the
36 design refinements impacting the DISD property at 3701 S. Lamar, and 2) to ensure the relocation of
37 Donald Avenue would continue to serve the DISD purposes for access to their facility. A coordination

1 letter has been presented to DISD requesting their concurrence that the proposed project would not
2 adversely affect the property or on-site operations (**Appendix C-6, Pages 14-16**).

3
4 Due to the minimal nature of the proposed impact, a Section 4(f) *de minimis* impact determination can be
5 sought. A finding of *de minimis* impact may be made with respect to historic sites in cases where a
6 project would have “no adverse effect” on the historic site. TxDOT has determined the proposed project
7 would have “no adverse effect” on the former Procter and Gamble Manufacturing Plant site and is not
8 expected to affect the ability of the property to convey its significance in history and architectural style.
9 Additionally, the proposed project would not “adversely affect” the activities, features, and attributes of the
10 DISD facility. TxDOT anticipates that the proposed project would result in a *de minimis* determination by
11 the Federal Highway Administration (FHWA) for the Section 4(f) resource.

12
13 Two existing public parks, Kimble Park and William Blair, Jr. Park (formerly Rochester Park), are located
14 adjacent to the project area. In addition, an area referred to as the “Great Trinity Forest” that is planned
15 for multiple uses, including flood control, ecosystem restoration and mitigation, recreation, and parkland,
16 extends into the project area. These resources and the potential impacts from the proposed project are
17 described below.

18
19 Kimble Park is a public park that is located adjacent to the east side of the existing SM Wright Freeway
20 between Pennsylvania Avenue and Warren Street. This City of Dallas urban park has an area of
21 approximately 1.23 acres, and the majority of the park area is open space (see aerial photograph in
22 **Appendix A-6, Page 3**). Amenities at Kimble Park include small playground equipment, a picnic area,
23 and a basketball court. The park is surrounded on three sides by residential streets and neighborhoods.

24
25 The proposed project would not require ROW acquisition at Kimble Park, and would not change
26 accessibility to the park or impair aesthetic features of the park. The existing northbound SM Wright
27 Freeway frontage road, mainlane embankment, and bridge crossing over Pennsylvania Avenue are
28 currently visible from the park. As previously discussed, the proposed project would downgrade the
29 facility from a freeway to a low speed arterial. The proposed reconstruction would involve shifting the
30 mainlanes slightly to the west away from the park and lowering the facility at Pennsylvania Avenue to an
31 at-grade, signalized intersection. The existing northbound frontage road located immediately adjacent to
32 the park would be removed, creating a buffer approximately 80 to 100 feet wide between the roadway
33 edge of pavement and the park. Extensive aesthetic improvement alternatives have been presented at
34 public involvement activities to develop a concept accepted by the adjacent neighborhoods would be
35 constructed along the proposed SM Wright Parkway. Based on the noise analysis (see **Section 5.2.13**),
36 Kimble Park has existing noise levels ranging from 71 to 74 dBA average/equivalent sound level (Leq),
37 which exceeds FHWA Noise Abatement Criteria (NAC). The existing noise levels at the park are primarily

1 due to existing traffic on the SM Wright Freeway. The predicted future noise levels at the park with the
2 proposed project in place range from 60 to 61 dBA Leq, a decrease of 11 to 13 dBA Leq. The reduction
3 in noise levels can be attributed to lower speeds on the downgraded facility, the minor alignment shift
4 described above, and a reduction in traffic volumes from traffic being redirected from SM Wright to IH 45
5 by the DC ramps that would be constructed between US 175/CF Hawn Freeway and IH 45 (see **Section**
6 **3.3**). As a result, the park would not be noise impacted in the predicted future condition. In sum, the
7 proposed project would not involve acquisition of land from the park or substantially impair the park's
8 activities, features, or attributes; therefore, further consideration under Section 4(f) for this property is not
9 anticipated.

10
11 William Blair, Jr. Park (formerly Rochester Park) is a large park approximately 983 acres in size generally
12 located east of IH 45 and south of US 175/CF Hawn Freeway (**Appendix A-6, Pages 4-6**). This City of
13 Dallas park is located directly south and east of the project area. Amenities at William Blair, Jr. Park are
14 primarily located in the area of the park along Municipal Street south of US 175/CF Hawn Freeway and
15 include a lake, trails, playground equipment, picnic areas, a baseball diamond, and a basketball
16 court. The majority of the park, including the area located adjacent to the east of IH 45 and the proposed
17 project, is forested open space. Accessibility to the area of the park closest to the proposed project is
18 limited as there are no park roads or maintained trails providing access to this area.

19
20 The proposed project would not require ROW acquisition at William Blair, Jr. Park and would not change
21 accessibility to the park. The proposed project would involve reconstruction of the southbound IH 45
22 entrance ramp from Lamar Street, and the proposed design places the entrance ramp merge with IH 45
23 on the opposite side of the interstate from park lands. The new visual element in this area would be
24 consistent with the existing IH 45 bridge structure and would be somewhat screened from the park by the
25 existing facility. The proposed project elements are unlikely to be observed from the park due to the
26 access limitations described above and screening provided by vegetation in the area. The proposed
27 project elements would not be visible to users of the park amenities. The traffic analysis performed for
28 the project indicates traffic volumes in the southern segment of IH 45 adjacent to the park would be the
29 same in the design year for the proposed project compared to the No-Build scenario, and as such, noise
30 levels in the area would not be affected by the proposed project. Because the proposed project would not
31 require land acquisition from the park and would not substantially impair the park's activities, features, or
32 attributes, further consideration under Section 4(f) for this property is not anticipated.

33
34 The "Great Trinity Forest" refers to an area of approximately 7,000 acres of land, of which approximately
35 4,600 acres are forested, generally located south and east of the proposed project that is planned for
36 multiple uses including parkland, recreation, ecosystem restoration, and flood control (see **Appendix C-7,**
37 **C8**, and aerial photographs in **Appendix A-6, Pages 6 and 7**). The Great Trinity Forest includes a large

1 area of floodplain associated with the main stem of the Trinity River from the south end of the Dallas
2 Floodway at the Atchison, Topeka, and Santa Fe (AT&SF) Railroad bridge downstream to IH 20 and the
3 White Rock Creek floodplain upstream from the Trinity River to IH 30. The floodplain area along IH 45
4 between the Union Pacific Railroad and the Trinity River in the project area is considered part of the
5 Great Trinity Forest (**Appendix C-8**).

6
7 In March 1997, Dallas City Council approved *The Great Trinity Forest Master Plan*, which outlined the
8 acquisition and preservation of forest and provided the framework to carefully guide development in the
9 area. The city plan set a goal for acquisition of over 2,500 acres of privately owned land that would knit
10 together existing public parks and open space into a vast, contiguous corridor of public lands. According
11 to Dallas Central Appraisal District (DCAD) records, a total of over 6,000 acres of land within the
12 boundaries suggested by the city for the Great Trinity Forest are now publicly owned (i.e., city, county,
13 and state ownership). These publicly owned lands encompass eight separate City of Dallas parks
14 (including William Blair, Jr. Park) with a combined area of approximately 1,980 acres. The city's concept
15 plan shows a proposed pedestrian trail and a proposed equestrian trail that would cross under IH 45 in
16 the project area. Currently, there is no dedicated ROW for the trail concept and no definitive date to
17 begin construction on any future Great Trinity Forest amenities in the project area.

18
19 The proposed project would require approximately 1.25 acres of ROW adjacent to IH 45 from three
20 parcels of land owned by the City of Dallas that are within the Great Trinity Forest, but are not currently
21 designated or used as a park or recreation area (**Appendix C-8**). The ROW acquisition is needed to
22 accommodate the proposed reconstruction of the IH 45 entrance ramp from Lamar Street. The
23 reconstructed ramp would be an elevated bridge structure and would not preclude future trail
24 development by the city through the area. Until such development of future access to this area, the
25 proposed project elements are unlikely to be observed from within the Great Trinity Forest. As previously
26 mentioned, noise levels in the area would not be affected by the proposed project. The proposed project
27 would result in the removal of riparian/bottomland hardwood forest from the 1.25 acres to be acquired as
28 ROW along the west side of IH 45. The ROW acquisition represents only about 0.02 percent of the total
29 acres of publicly owned lands in the Great Trinity Forest and even less of the total planned area. The
30 removal of forest from the 1.25 acres to be acquired for ROW represents only about 0.03 percent of the
31 forested area within the Great Trinity Forest.

32
33 On July 16, 2010, the FHWA issued a letter to the TxDOT Environmental Affairs Division regarding
34 Section 4(f) applicability to the Great Trinity Forest. This letter states that lands within the Great Trinity
35 Forest are subject to Section 4(f) regulations and analysis on a case-by-case basis as the Forest is a
36 multi-use property. Based on previous coordination with FHWA (see **Appendix C-9**), the 1.25 acres of

land to be converted to transportation use are not currently designated as parkland or other uses subject to Section 4(f) regulations; therefore, Section 4(f) would not apply to these areas.

Section 6(f) of the Land and Water Conservation Fund (LWCF) Act (16 U.S.C. 460l) requires that outdoor recreational lands acquired or developed with Department of Interior financial assistance under the LWCF may not be converted to non-recreational use unless approval is granted by the National Park Service. LWCF grant funds are administered by the TPWD through the Texas Recreation Park Account. The parcels to be acquired as ROW for the proposed project are not encumbered by Land and Water Conservation funds; therefore, consideration under Section 6(f) is not required.

5.2.4 Economic Impacts

No-Build Alternative

Implementation of the No-Build Alternative would not improve safety, operability, connections, or mobility to support traffic associated with the projected employment growth in the project area and Dallas County.

Build Alternative

This section presents information regarding employment trends in Dallas County. Employment forecasts reported in this section were prepared and approved by NCTCOG, and represent the North Central Texas region's adopted employment forecasts for transportation planning purposes. As summarized in **Table 5-8**, NCTCOG employment forecast data indicate that employment in both the City of Dallas and Dallas County is anticipated to grow through 2040.

TABLE 5-8. EMPLOYMENT TRENDS FOR DALLAS COUNTY AND MUNICIPALITIES WITHIN AND NEAR THE PROJECT AREA

Location	2005 Total Employment	2035 Projected Total Employment	2040 Projected Total Employment	Percent Change 2005 to 2035	Percent Change 2005 to 2040
City of Dallas	1,044,234	1,547,800	1,614,986	48 (1.6%/year)	55 (1.4%/year)
Dallas County	1,895,059	2,854,287	2,988,916	51 (1.7%/year)	58 (1.5%/year)

Source: NCTCOG 2040 Demographic Forecast <http://nctcog.org/ris/demographics/forecast/County2040.pdf>, accessed March 2012.

As shown in **Table 5-8**, the projected 2005 to 2035 employment growth rate for the City of Dallas is projected to be approximately 48 percent, and the employment growth rate Dallas County is projected to be approximately 51 percent; the average annual employment growth rate for this period is 1.6 percent for the city and 1.7 percent for the county. Based on the employment growth data shown above, employment growth within the vicinity of the project within Dallas County is expected to continue.

1 The model used by the NCTCOG for the employment forecasts (shown in **Table 5-8**) is formulated to
2 permit the integration of relevant global, national, state, and local factors into the projection process. The
3 model accounts for the cyclical nature of employment changes including economic downturns such as the
4 current one. While the model cannot predict exactly when economic downturns will occur, the projections
5 shown in **Table 5-8** are long term. Over time, the job losses incurred in the current recession would be
6 regained. None of these major employers would be impacted by ROW acquisition (see **Section 5.2.5**,
7 below).

8
9 Major employers are defined by NCTCOG as those companies that employ over 250 people. According
10 to NCTCOG data, there are 335 major employers in the City of Dallas. The major employers combined
11 employ a range of approximately 182,249 to 348,671 employees.

12
13 The Build Alternative would provide a portion of the additional mobility necessary to support the
14 increasing traffic associated with the projected employment growth in the project area.

15 16 **5.2.5 Relocations and Displacements**

17 This section describes the potential relocation and displacement impacts for the No-Build Alternative and
18 Build Alternative. Displacements were determined from project mapping and aerial photography with
19 alignment overlays. Impacts were confirmed through field inspections in the project area.

20 21 **No-Build Alternative**

22 Implementation of the No-Build Alternative would not require ROW acquisition, relocations, or
23 displacements.

24 25 **Build Alternative**

26 Of the 32.4 acres of proposed ROW acquisition required for the Build Alternative, approximately 80
27 percent (26.28 acres) is developed land. **Table 5-9** provides descriptions of the potentially displaced
28 properties, property addresses, as well as the number of potentially impacted structures and estimated
29 number of employees, if applicable. The location of each potentially displaced building is shown in
30 **Appendix A-5**, where each displacement is labeled by its corresponding ID number, listed in **Table 5-9**.

TABLE 5-9. POTENTIAL DISPLACEMENTS WITHIN THE PROJECT AREA

Schematic ID¹	Property Description	Property Address	Type of Structures Displaced	Number of Potentially Affected Employees¹ NA = not applicable
NI1131	Cash For Cans	4101 Lamar St.	1 Commercial Building	1-4
NI1132	Best Scrap Metal	4115 Lamar St.	1 Commercial Building	10-19
502	Gold Metal	4305 S Lamar St.	3 Storage Sheds ¹	NA
516*	Residential	5106 Colonial Ave.	1 House	NA
520*	Residential	5108 Colonial Ave.	1 House	NA
522A,B	Ghetto Club	1645 Starks Ave.	1 Commercial Building	1-4
523*	Residential	5114 Colonial Ave.	1 House + 2 Garages	NA
528*	Residential	5105 Colonial Ave.	1 House + 1 Garage	NA
529	Residential	5122 Colonial Ave.	1 House	NA
532 & 536*	El Resbalon Bar	5102 Lamar St.	1 Commercial Building	4
538	Residential	5117 Colonial Ave.	1 House	NA
546A,B,C*	3 J's Auto Body (former Morris Garage)	5114 S Lamar St.	1 Commercial Building	2
419	Duggan Industries	4115 Julius Schepps Fwy	1 Commercial Building + 1 Billboard	10 - 19
521*	Commercial	5131 Hohen	2 Billboards	NA
504	Commercial	1510 Mooney	1 Billboard	NA
2031*	Commercial	4702 S Lamar St.	1 Billboard	NA
574	Railroad	UPRR	1 Billboard	NA
TOTAL			24	28 - 52

Source: Manta, www.manta.com, accessed December 2011.

Notes:

1. The three potentially displaced storage sheds are adjacent to each other and cover approximately 0.16 acre (7,000 square feet) on the approximately 14-acre parcel. The proposed project ROW would require approximately four acres out of the 14-acre property and would not affect the main buildings along Lamar Street. The potential displacement of the three storage sheds will not result in a displacement of the business and it may be possible to relocate the sheds to another onsite location; therefore, employment impacts are not applicable.

* Schematic IDs noted with an asterisk are early acquisition properties that have been purchased by the City of Dallas in accordance with the Uniform Relocation Assistance and Real Property Acquisition Act of 1970. See the below **Early Acquisitions** subheading and **Appendix C-11** for additional details on early acquisition parcels.

- 1
2 As shown in **Table 5-9**, 17 developed properties would involve the displacement of structures as a result
3 of the proposed ROW acquisition. Of these 17 properties, six are residential, 10 are commercial and one
4 is a joint use easement with the Union Pacific Railroad (UPRR). These properties contain 24 structures,
5 consisting of six single-family residences (including car garages), nine commercial structures (including

1 buildings and canopies at gasoline service stations) and six billboards that would be displaced by the
2 proposed project. Four of the six displaced single-family residences (Parcel IDs 516, 520, 523 and 528)
3 have been early acquired by the City of Dallas as noted above and explained in **Appendix C-11**. No
4 multifamily units would be displaced by the proposed project. Four of the 10 commercial properties
5 (Parcel IDs 532 and 536, 546A,B,C, 521 and 2031) have been early acquired by the City of Dallas as
6 noted above and explained in **Appendix C-11**.

7 8 ***Residential Displacements***

9 All of the potential residential displacements are located in the City of Dallas. The 2012 assessed values
10 of the potentially displaced single-family residential properties range from \$6,300 to \$35,910.⁴¹ The
11 single-family homes are broken out by assessed value as follows:

- 12 • Less than \$10,000 – three properties (Parcel ID 516, 520, and 523)
- 13 • \$10,000 to \$20,000 – zero properties
- 14 • \$20,000 to \$40,000 – three properties (Parcel ID 528, 529, and 538)
- 15 • More than \$40,000– zero properties

16
17 Four of the six potentially displaced single-family residences (Parcels 516, 520, 523 and 528) have
18 already been early acquired by the City of Dallas as noted above and explained in **Appendix C-11**. Two
19 of these early acquired properties (Parcel ID 516 and 520) were unoccupied; therefore, no persons were
20 displaced.

21
22 For the remaining two potentially displaced single-family residences that have not been acquired by the
23 City of Dallas (Parcel IDs 529 and 538), a search of homes for sale that range in price from \$10,000 to
24 \$40,000 in the City of Dallas was conducted using four local residential real estate websites. The search
25 results are shown in **Table 5-10**.

26

⁴¹ Dallas Central Appraisal District (DCAD) 2012 certified data.

1

**TABLE 5-10. NUMBER OF SINGLE-FAMILY RESIDENTIAL HOMES AVAILABLE FROM
\$10,000 TO \$40,000***

Residential Real Estate Websites	Property Value Range	Dallas	Zip code 75215
texasmls.com	\$10,000-\$20,000	21	2
	\$20,000-\$40,000	112	7
	Total	133	9
Realestate.yahoo.com	\$10,000-\$20,000	55	6
	\$20,000-\$40,000	217	13
	Total	272	19
Realestate.com	\$10,000-\$20,000	25	2
	\$20,000-\$40,000	137	8
	Total	162	10
Trulia.com	\$10,000-\$20,000	36	1
	\$20,000-\$40,000	232	7
	Total	268	8

Note: * As of June 2011.

2

3 As shown in **Table 5-10**, there appears to be a number of single-family homes available for sale in Dallas
4 and within the 75215 zip code to replace the two homes potentially impacted by the proposed project,
5 which have not been early acquired.

6

7 There is the potential that renting tenants reside in some of the displaced homes. In 2009, the City of
8 Dallas reported a rental vacancy rate of 13.0 percent⁴² and a median gross monthly rent of \$784.⁴³ As of
9 January 2012, 10 homes in the 75215 zip code are available for rent within the price range of \$575 to
10 \$1,575 per month, varying in size from one bedroom/one bath to seven bedrooms/two bath.⁴⁴

11

12 The City of Dallas administers a multitude of programs and funds directed toward the creation and
13 maintenance of affordable housing. The term “affordable housing” is used with reference to the
14 standards established by the Department of Housing and Urban Development (HUD) based on family
15 size and median income, which are primary factors for determining eligibility for government housing
16 assistance programs. Affordable single-family housing alternatives are also available through the City of
17 Dallas Urban Land Bank Demonstration Program, which acquires unproductive, vacant and developable
18 lots for affordable single-family housing development. The priority for the City of Dallas is not only to
19 create single-family homes but also to make them affordable. The objective of the City of Dallas’ Urban
20 Land Bank Demonstration Program is to acquire unproductive, vacant, and developable lots as well as
21 lots improved with abandoned, vacant and uninhabitable houses to be “banked” by the Dallas Housing
22 Acquisition and Development Corporation (the “Land Bank”) for affordable housing development. The

⁴² http://www.huduser.org/portal/publications/PDF/CMAR_DallasTX_09.pdf

⁴³ <http://www.city-data.com/housing/houses-Dallas-Texas.html>

⁴⁴ www.realtor.com

1 acquisition of these lots enables new single-family homeowner development and rental housing on the
2 lots to house low and moderate income households and stabilize distressed communities.

3
4 The two potential residential displacements that have not been acquired by the City of Dallas are valued
5 at \$26,260 and \$35,910⁴⁵. Based on **Table 5-10**, the real estate websites show that a range of eight to
6 19 comparable houses are available within the 75215 zip code; therefore, the two potentially displaced
7 households do have the opportunity to relocate within the community.

8
9 Acquisition and relocation assistance would be in accordance with the TxDOT Right-of-Way Acquisition
10 and Relocation Assistance Program. Consistent with the USDOT policy, as mandated by the Uniform
11 Relocation Assistance and Real Properties Acquisition Act (as amended in 1987), the Civil Rights Act of
12 1964, and the Urban Development Act of 1974, TxDOT would provide relocation resources (including any
13 applicable special provisions or programs) to all displaced persons without discrimination. The available
14 structures must be open to persons regardless of race, color, religion, or nationality and be within the
15 financial means of those individuals affected.

16
17 TxDOT is committed to coordinate with property owners and tenants to relocate to comparable housing
18 within the community. TxDOT must provide a comparable replacement dwelling that places the displacee
19 in the same ownership or tenancy status possessed before displacement. TxDOT's obligation is fulfilled
20 when a comparable replacement dwelling is made available to the displacee in compliance with
21 provisions for last resort housing. At the request of the displacee, TxDOT may provide a dwelling which
22 changes the ownership or tenancy status of the displacee if the dwelling is available and can be provided
23 at a cost which would not exceed the amount required to relocate the displacee to a comparable dwelling
24 in the same ownership or tenancy status possessed before displacement. Replacement housing on a
25 reasonable cost basis would be provided by TxDOT when it is determined that comparable replacement
26 housing cannot be made available under normal conditions and cost limitations. Any decision to provide
27 last resort housing assistance would be adequately justified by one of the following criteria.

- 28
- 29 • on an individual basis, for good cause, which means that appropriate consideration would be
30 given to:
 - 31 ○ the availability of comparable replacement housing in the project area;
 - 32 ○ the resources available to provide comparable housing; and
 - 33 ○ the individual circumstances of the displacee.
 - 34 • by a determination that:
 - 35 ○ there is little, if any, comparable replacement housing available to the displacee within an
entire project area and last resort housing is necessary for the entire area;

⁴⁵ Dallas Central Appraisal District (DCAD) 2012 certified data.

- 1 ○ a project cannot proceed to completion in a timely manner without last resort housing
- 2 assistance; and
- 3 ○ the method selected for providing last resort housing assistance is cost effective,
- 4 considering all elements contributing to total project costs.

6 ***Business Displacements***

7 The proposed project is anticipated to displace commercial properties located adjacent to the project
8 area. As shown in **Table 5-9**, 10 of the 17 properties with structures affected by the proposed ROW
9 acquisition are commercial properties and combined these include 15 impacted structures. The 10
10 properties contain two restaurants/bars, one automotive repair garage, three metal recycling facilities, a
11 warehouse and five billboards. The UPRR joint use easement contains one billboard. Seven of the 10
12 commercial properties have businesses that would be potentially displaced by the proposed project.
13 However, two of the potential business displacements are located on early acquisition parcels acquired
14 by the City of Dallas: one restaurant/bar and the automotive repair garage (Parcel IDs 532 and 536, and
15 546A,B,C). Three of the six billboards have been early acquired by the City of Dallas, including two
16 billboards located on Parcel 521 and one billboard located on Parcel 2031. See the below ***Early***
17 ***Acquisitions*** subheading and **Appendix C-11** for additional details on early acquisition parcels.

19 Potential Relocation Sites for Commercial Displacements

20 Searches were conducted to find suitable replacements for businesses potentially impacted by the
21 proposed project. A June 2011 search of an internet real estate website⁴⁶ indicated that there are
22 approximately 43 commercial properties for sale within five miles of the project area with approximately
23 21 commercial (industrial and retail) properties for sale within the 75215 Zip Code.

24
25 Based on the available commercial real estate options, as mentioned above, the majority of the
26 businesses would have opportunities to successfully relocate within their service area. There may be
27 temporary impacts to a small community of businesses that are unlikely to remain open or likely to re-
28 establish outside of their service area. However, the demand for services, driven by growth, could aid in
29 the ability for potentially displaced businesses to relocate within the project area; or the demand could
30 shift to non-displaced businesses that meet the additional demand by creating new employment
31 opportunities. In addition, as is indicated within **Section 6.0**, the proposed improvements are anticipated
32 to influence some development along the project alignment, which in turn would likely create future
33 opportunities for employment. Ultimately, NCTCOG employment forecasts predict continued employment
34 growth within the study area; and these forecasts account for the cyclical nature of employment change,
35 including economic recession (see **Section 5.2.4**).

⁴⁶ www.loopnet.com

1 Both the United States and Texas Constitutions provide that no private land may be taken for public
2 purposes without just compensation being paid. The TxDOT Right-of-Way Acquisition and Relocation
3 Assistance Program would be conducted in accordance with the Uniform Relocation Assistance and Real
4 Property Acquisition Policy Act of 1970 as amended, the Civil Rights Act of 1964, and the Urban
5 Development Act of 1974. Relocation assistance is available to all individuals, families, businesses,
6 farmers, and non-profit organizations displaced as a result of a state highway project or other
7 transportation project. Thus, assistance applies to tenants as well as owners occupying the real property
8 needed for the project. TxDOT would relocate all displaced businesses up to 50 miles. The TxDOT
9 relocation office would also provide assistance to displaced businesses and non-profit organizations to
10 aid in their satisfactory relocation with a minimum of delay and loss in earnings. The available structures
11 must also be open to persons regardless of race, color, religion, or nationality and be within the financial
12 means of those individuals affected.

13 14 *Labor Force*

15 16 Potentially Affected Employees

17 As shown in **Table 5-9**, a total range of 28 to 52 employees could be affected by the proposed project,
18 either by job relocation or job loss associated with the anticipated business displacements.

19
20 Estimating the number of potentially affected employees is a difficult task because no local agencies or
21 organizations such as municipalities, chambers of commerce, or workforce commissions consistently
22 track employment numbers per employer. Employment statistics likely fluctuate in varying degrees per
23 business due to various economic elements such as turnover rates, regional growth, unemployment
24 trends, etc. Because of the unavailability of locally produced employment information, Manta, a website
25 providing profiles covering both large and small businesses worldwide, was utilized to assist with the
26 estimation of potentially affected employees at displaced businesses. Data were acquired on each
27 specific business in question, or if unavailable, information on a comparable business (i.e., another
28 location/branch or business similar in size, function, etc.) was used. **Table 5-9** lists the potential number
29 of affected employees for all potentially displaced businesses. Wage information cannot be provided, as
30 data at this level of detail is not available for public use.

31 32 Composition of Labor Force Potentially Affected

33 The range in labor force anticipated to be impacted by the proposed project mainly consists of low skill
34 level, minimally educated, minimum wage hourly workers (e.g., restaurant, and services occupations).
35 Because no federal, state, or local agencies (e.g., U.S. Department of Labor, Bureau of Labor Statistics,
36 Texas Workforce Commission, municipalities, chambers of commerce, or other employment-focused
37 organizations) track specific skill level, educational attainment, experience requirements, or wage

1 information for specific business entities, assumptions must be established to provide the context of the
2 range of labor force found adjacent to the project area.

3

4 According to the Bureau of Labor Statistics (BLS), approximately 59 percent of wage and salary workers
5 were paid hourly rates in 2011. Minimum wage workers tend to be young. Although workers under the
6 age of 25 represented one out of five of hourly-paid workers, they made up about half of those paid the
7 Federal minimum wage (\$7.25) or less. Among employed teenagers paid by the hour, about 23 percent
8 earned the minimum wage or less, compared with about three percent of workers age 25 and older. By
9 major occupational group, the highest proportion of hourly-paid workers earning at or below the Federal
10 minimum wage was in service occupations, at 13 percent. About 6 in 10 workers earning the minimum
11 wage or less in 2011 were employed in service occupations, mostly in food preparation and serving
12 related jobs; however for many working in this industry, tips and commissions might supplement the
13 hourly wages received. Texas is one of three states with the highest proportions of hourly-paid workers
14 earning at or below the Federal minimum wage (between eight and 10 percent).⁴⁷

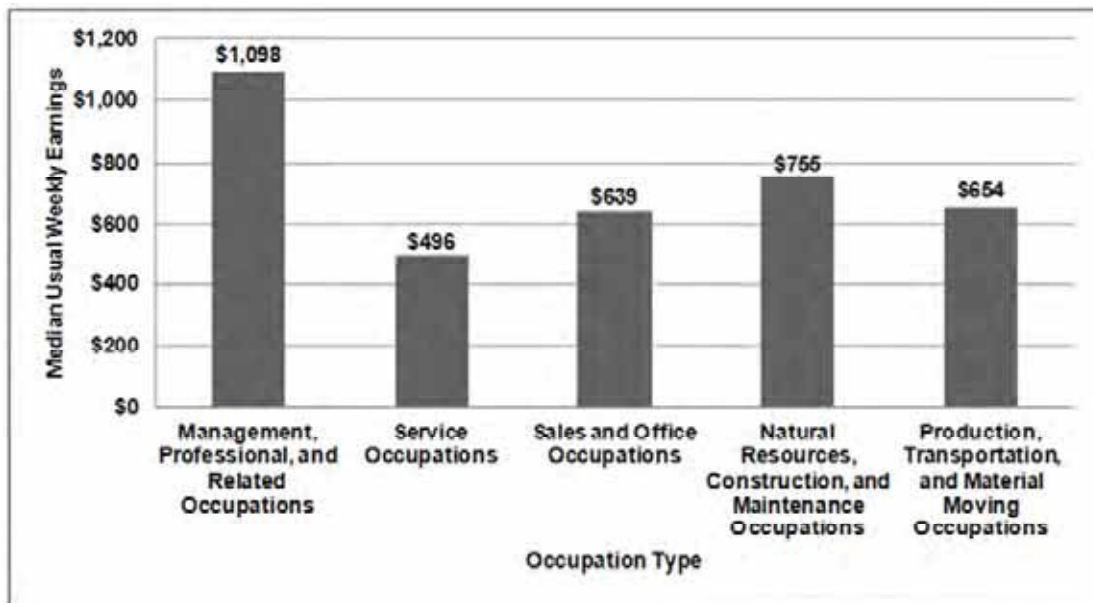
15

16 The BLS reported in January 2012 that the median weekly earnings of the nation's 101.2 million full-time
17 wage and salary workers was \$762 in the fourth quarter of 2011. This was 1.5 percent higher than a year
18 earlier, compared with a gain of three percent in the Consumer Price Index for all urban consumers over
19 the same period. As shown in **Figure 5-4**, among the major occupational groups, persons employed full
20 time in management, professional, and related occupations had the highest median weekly earnings (i.e.,
21 \$1,098) and persons employed in service occupations had the least (i.e., \$496).

⁴⁷ Bureau of Labor Statistics. "Characteristics of Minimum Wage Workers: 2011." March 2012,
<http://www.bls.gov/cps/minwage2011.htm>

1
2

FIGURE 5-4. MEDIAN USUAL WEEKLY EARNINGS OF FULL-TIME WAGE AND SALARY WORKERS BY OCCUPATION, FOURTH QUARTER 2011



3
4

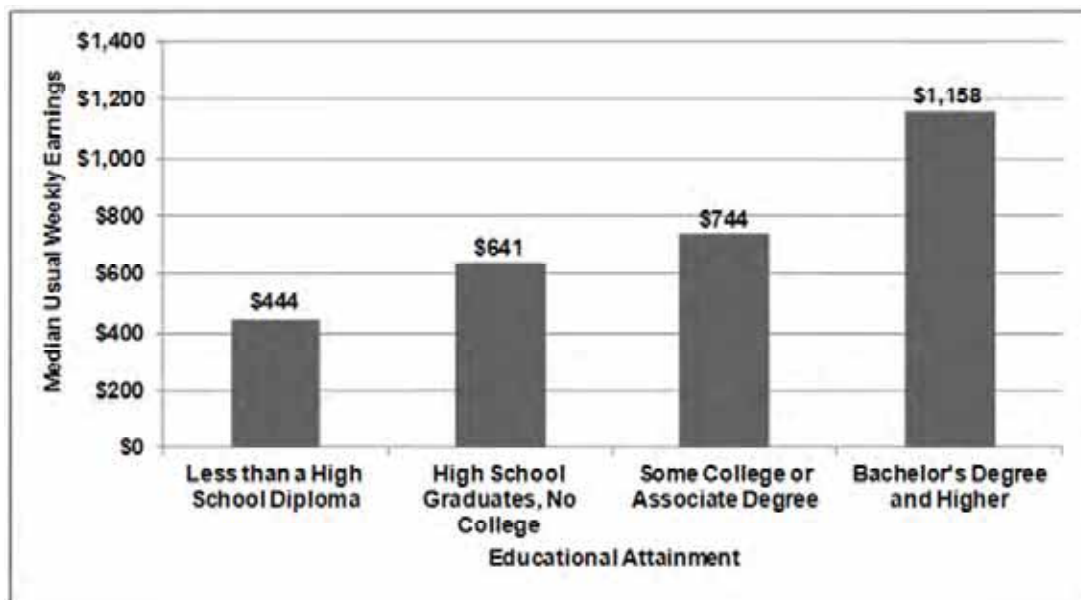
Source: Bureau of Labor Statistics, News Release USDL-12-0092, January 24, 2012.

5
6
7
8

As shown in **Figure 5-5**, by educational attainment, full-time workers age 25 and over without a high school diploma had median weekly earnings of \$444, compared to \$641 for high school graduates (no college), and \$1,158 for those holding at bachelor's degree or higher.

9
10

FIGURE 5-5. MEDIAN USUAL WEEKLY EARNINGS OF FULL-TIME WAGE AND SALARY WORKERS BY EDUCATIONAL ATTAINMENT, FOURTH QUARTER 2011

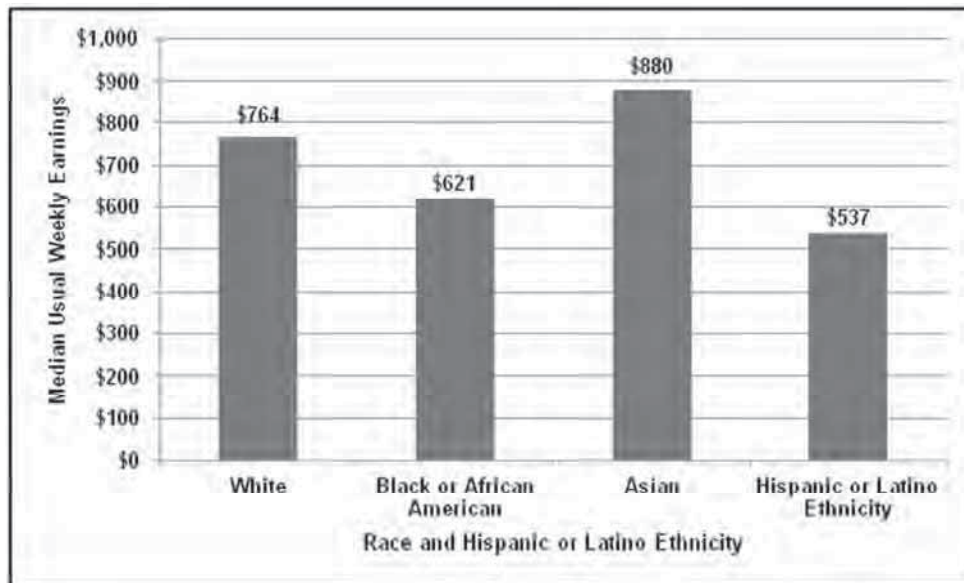


11
12

Source: Bureau of Labor Statistics, News Release USDL-12-0092, January 24, 2012.

1 **Figure 5-6** outlines the median weekly earnings among the major race and ethnicity groups. Overall,
2 median earnings of Hispanics or persons of Latino ethnicity who worked full time (\$537) were lower than
3 the median earnings of Blacks or African Americans (\$621), Whites (\$764), and Asians (\$880).
4

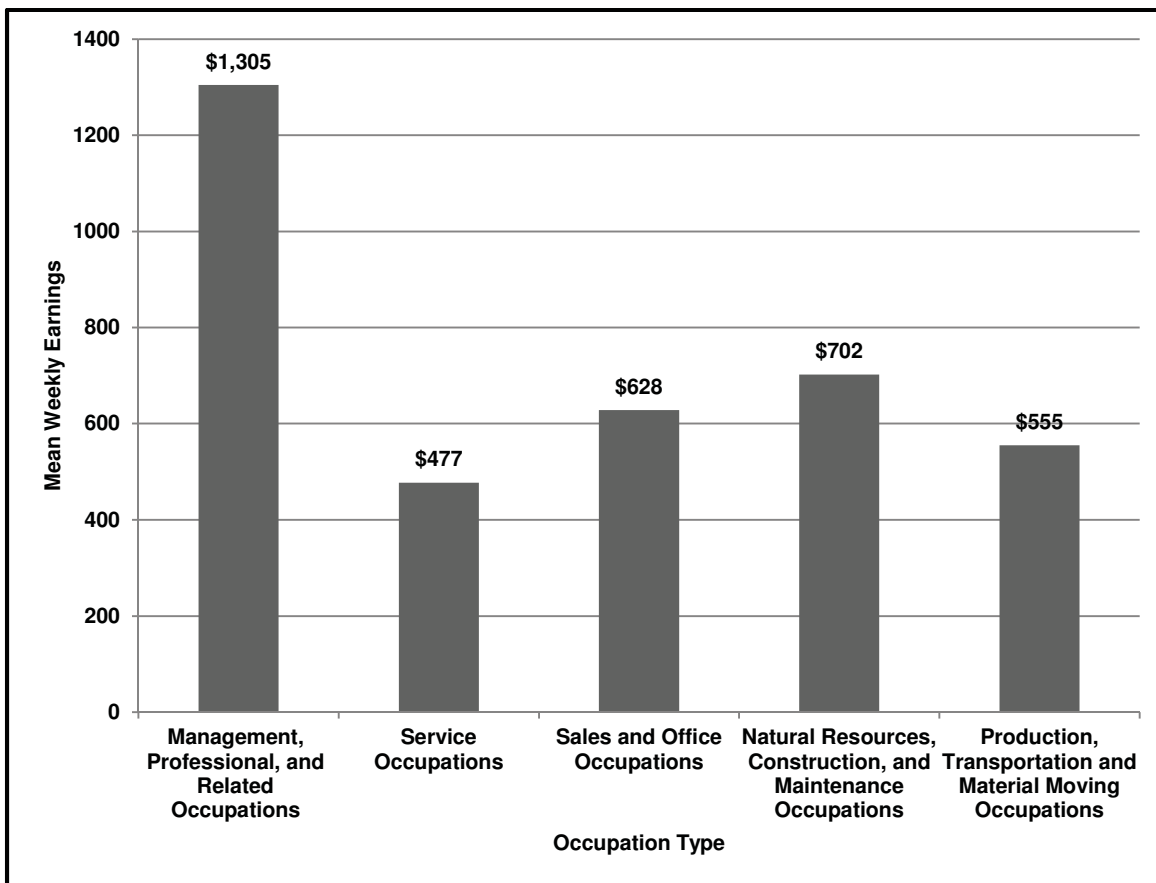
5 **FIGURE 5-6. MEDIAN USUAL WEEKLY EARNINGS OF FULL-TIME WAGE AND SALARY**
6 **WORKERS BY RACE AND HISPANIC OR LATINO ETHNICITY, FOURTH QUARTER 2011**



7 **Source:** Bureau of Labor Statistics, News Release USDL-12-0092, January 24, 2012.
8

9 The BLS reported in March 2010 the mean earnings for selected worker characteristics data for the DFW,
10 Combined Statistical Area (CSA). As shown in **Figure 5-7**, among the major occupational groups,
11 workers employed within the DFW CSA in management, professional, and related occupations had the
12 highest mean weekly earnings (i.e., \$1,305) and persons employed in service occupations had the least
13 (i.e., \$477).

1 **FIGURE 5-7. MEAN WEEKLY EARNINGS OF WORKERS BY OCCUPATION,**
 2 **DALLAS-FORT WORTH, TEXAS CSA, MARCH 2010**



3 **Source:** Bureau of Labor Statistics' National Compensation Survey, Dallas-Fort Worth, TX CSA, March 2010;
 4 <http://www.bls.gov/ncs/ocs/sp/ncbl1595.pdf>, accessed June 2012.

5
 6 The BLS only reported information for the DFW CSA regarding the earnings of workers in a variety of
 7 occupations and at different work levels; therefore, information regarding earnings according to education
 8 level and demographics are only presented at the national level to establish the context of the range of
 9 labor force found adjacent to the project area.

10
 11 A Wall Street Journal article from 2005 ranked the top 10 industries for high job turnover rates. The top
 12 10 "turnover" industries included low-level retail jobs, nurses, fast-food workers, hotel and restaurant
 13 workers, and sales people. Lower-skilled, lower wage jobs historically have had higher turnover rates
 14 than white-collar jobs; however, turnover rates in traditionally highly-skilled, white-collar jobs, especially
 15 sales, were on the rise prior to the recession, which the U.S. labor market entered in 2008.⁴⁸

⁴⁸ Gerencher, Kristen. February 23, 2005. "Where the revolving door is swiftest: Job turnover high for fast-food, retail, nursing, child care." The Wall Street Journal. <http://www.marketwatch.com>

1 All the potentially displaced businesses are made up of bar/restaurant establishments and other service
2 industries (recycling centers). According to People Report, a Dallas-based firm that tracks human
3 resource data for restaurant companies, the annual hourly turnover of 101 percent and average annual
4 management turnover of 27 percent was recorded for its members in 2005. In 2006, about 45 percent of
5 restaurant employees were between the ages of 16 and 24, and this age group is not expected to
6 increase in size by 2016. Also according to People Report, the restaurant industry is predicted to create
7 1.9 million more jobs by 2016. After losing jobs in 2009, the restaurant industry has started to reverse
8 course adding 43,000 jobs within the first three months of 2010.⁴⁹ Turnover is a lagging economic
9 indicator and is expected to remain low as the national unemployment rate remains high.⁵⁰

10
11 Based on the labor assumptions described above, a majority of the employment opportunities which
12 could be affected by either job loss or relocation due to the proposed project originate from restaurant/bar
13 establishments and service industries which typically employ low skill, low wage employees, and reflect
14 high turnover rates.

15 16 ***Future Employment Opportunities***

17 18 NCTCOG Development Monitoring

19 The NCTCOG's Development Monitoring database tracks over 8,000 major developments that are either
20 existing, under construction, or announced. Major developments are defined as being over 80,000
21 square feet and/or 80 employees; data is updated by NCTCOG on a continuous basis. Future
22 development monitoring information of "announced" projects provided by the NCTCOG was available for
23 the City of Dallas. As of January 2012, announced developments within the City of Dallas include various
24 business parks, hotels, shopping centers, single-family residential developments, and new mixed-use
25 developments (residences, office park, retail, etc.).

26 27 City of Dallas

28 Interviews with Planning Officials from the City of Dallas identified numerous development projects
29 located nearby the proposed project as well as throughout the city that are either planned, platted,
30 announced, or currently under construction. These new developments are described in detail in
31 **Section 7.4.5** of this EA. Even in the current economic climate, the City of Dallas is still maintaining a
32 level of commercial growth.

33

⁴⁹ Berta, Dina. November 20, 2006. "People Report: Worker turnover rate continues to climb." Nation's Restaurant News, <http://www.nrn.com>

⁵⁰ Berta, Dina. April 28, 2010. "Restaurants ready to hire more workers." Nation's Restaurant News, <http://www.nrn.com>

1 ***Minimization and Mitigation***

3 Texas Workforce Commission

4 The Texas Workforce Commission (TWC) is the state government agency charged with overseeing and
5 providing workforce development services to employers and job seekers for the state of Texas. For
6 employers, the TWC offers recruiting, retention, training and retraining, and outplacement services as well
7 as valuable information on labor law and labor market statistics. For job seekers, the TWC offers career
8 development information, job search resources, training programs, and unemployment benefits as
9 appropriate. While targeted populations receive intensive assistance to overcome barriers to
10 employment, all Texans can benefit from the services offered by the TWC and its network of workforce
11 partners.

12
13 The TWC is part of a local/state network dedicated to developing the workforce of Texas. The network is
14 comprised of the statewide efforts of the Commission coupled with planning and service provision on a
15 regional level by 28 local workforce boards. This network gives customers access to local workforce
16 solutions and statewide services in a single location; that is, Texas Workforce Centers.⁵¹

18 Workforce Solutions for Greater Dallas

19 The Texas Workforce Center, which serves Dallas County, the area potentially impacted by the proposed
20 SM Wright project is the Workforce Solutions for Greater Dallas (“Workforce Solutions”). Workforce
21 Solutions is the local organization mandated to implement services to enhance economic development
22 within Dallas County. The organization’s mission is to ensure competitive solutions for employers through
23 quality people and for people through quality jobs.

24
25 TxDOT is committed to coordinate available programs provided by Workforce Solutions to those
26 employees affected by the businesses potentially displaced as a result of the proposed project at the
27 Public Hearing. The Workforce Development Manager and appropriate staff will attend the Public
28 Hearing for the proposed project to answer questions or present services information on behalf of
29 Workforce Solutions.

30
31 The Workforce Solutions has employer services representatives in each workforce center to match the
32 most qualified candidates with the right employers. Services provided to employers include:

- 33 • Personal attention from one of the account managers;
- 34 • Recruiting assistance/placement;
- 35 • “Work in Texas” internet-based job posting and matching system;
- 36 • Job fairs on location or in one of the workforce centers;

⁵¹ Texas Workforce Commission, <http://www.twc.state.tx.us/twcinfor/whatis.html>

- 1 • Fee-based customized training to meet employers needs;
- 2 • Current labor market information; and
- 3 • Outplacement services for companies who are restructuring, downsizing, or closing
- 4 operations.

5

6 Services provided by the Workforce Solutions to all job seekers include:

- 7 • Determination of eligibility to receive potential services;
- 8 • Initial registration and orientation to available information and services;
- 9 • Initial assessment of skill level, aptitude, abilities, and supportive service needs;
- 10 • Job search, placement assistance, and career counseling (as appropriate);
- 11 • Job search workshops and seminars;
- 12 • Resource room services (e.g., access to telephone, fax, copier, resource library,
- 13 computer, internet, and resume assistance);
- 14 • Employment and labor market information;
- 15 • Job listings via “Work In Texas” and other on-line employment resources;
- 16 • Job referrals;
- 17 • Target occupations – required skills and earnings in those occupations;
- 18 • Eligible Training Provider System and training program information;
- 19 • Performance statistics of our local area;
- 20 • Supportive service information (e.g., child care and transportation);
- 21 • “How to” information and filing unemployment claims;
- 22 • Assistance in establishing eligibility for non-Workforce Investment Act funded training and
- 23 education programs; and
- 24 • Follow-up services (as appropriate).

25

26 Expanded services provide a more customized solution to job seekers who are enrolled in specific
27 workforce programs. The services listed below are available at this time to job seeking customers who
28 are unemployed and unable to obtain employment through core services, are determined by staff to need
29 these services in order to obtain employment, or are under-employed and determined by staff to need the
30 service in order to obtain or retain employment that allows for self-sufficiency. These services are
31 provided at local Workforce Centers and through contracts with public and private providers and include
32 the following:

- 33 • In-depth individual assessment;
- 34 • Development of an individual employment plan;
- 35 • Counseling; and
- 36 • Short-term prevocational services.

37

1 A Workforce Development Manager was interviewed in August 2012 to discuss the services offered for
2 potentially dislocated workers associated with the proposed improvements. The Workforce Development
3 Manager explained about “Rapid Response” seminars, a service that could be conducted on behalf of the
4 employers.

5

6 *Rapid Response Orientation*

7 Workforce Solutions of Greater Dallas recommends that dislocated workers attend a Rapid Response
8 Orientation. This one and one-half hour orientation is typically held on-site and provides dislocated
9 workers with information on:

- 10 • Texas Workforce Center locations and services.
- 11 • How to apply for and receive unemployment benefits.
- 12 • Government-funded retraining opportunities (with qualifications).
- 13 • Support groups and health insurance for adults and children.

14

15 *Out-Placement Seminars*

16 These seminars and services are provided at no cost to employers or employees:

- 17 • Adapting to Change / Stress Management – a three-hour workshop that provides strategies
18 for emotionally coping with a layoff or job loss. This seminar stresses maintaining a positive
19 attitude and helps to overcome psychological barriers to a successful job search and re-
20 employment.
- 21 • Resume Writing – a three-hour workshop that teaches how to prepare and use different types
22 of resumes. Chronological, functional, combination and electronic resume formats are
23 included. Time is also allotted to cover letters and job applications.
- 24 • Resume for Skilled Laborers – a three-hour workshop that will enable workers to create a
25 work history of skills acquired to the present date. The sheet list names of companies, with
26 contact information, skills used and/or acquired, as well as any awards or certificates earned.
27 This sheet is a great help when filling out job application forms.
- 28 • Interviewing Skills – a three-hour workshop that includes preparing for the interview and
29 interview techniques. Routine and behavioral questions and how to respond are discussed.
30 If possible, practice opportunities are provided. Other topics covered included networking,
31 salary negotiations and overcoming real or perceived age discrimination.
- 32 • Networking/Social Networking - a three hour workshop that stress the importance of using all
33 you resources(family, friends, church members) including the social networking systems to
34 discover new job openings.
- 35 • Social Media – a three hour customized seminar that has been developed to answer
36 questions about using social media for job search. A Wi-Fi hotspot is used so participants

- 1 can view SlideShare PowerPoint and video presentation, ask questions about social media,
2 and then watch as the presenter instantly researches answers.
- 3 • Labor Market Strategies - a three-hour workshop focusing on demand, growing and emerging
4 careers and occupations in the 21st century. Information on career paths, salaries, skills,
5 training, education and experience needed to enter these occupations is provided.
 - 6 • Debt Reduction/Financial Management - a three-hour workshop that focuses on keeping
7 finances in order while unemployed. Topics include debt reduction, budgeting, managing
8 finances after layoff and negotiating with creditors for reduced monthly payments and/or
9 interest rates.
 - 10 • Entrepreneur Seminar - a three-hour seminar focusing on how to start and manage a
11 business. This seminar includes; getting started, business plans, marketing
12 strategies/advertising/research, business ownership, cash flow, pricing, funding, sales,
13 record-keeping, profit and loss forecasting, federal taxes and risk
14 management/insurance/scams.
 - 15 • All-day Job Search Workshop – If desired, several seminars may be combined into an all-day
16 six hour workshop.

17

18 Employment Impact Conclusions

19 Relocation of commercial entities can result in unemployment and associated financial impacts. If the
20 businesses are able to relocate within the immediate municipality or community and remain viable, any
21 potential unemployment effects would be temporary. It is unknown whether businesses would reestablish
22 within close proximity to their original locations, or which business owners would choose or be able to
23 continue operation; however, sites with suitable zoning and in close proximity are currently available
24 within the City of Dallas, as previously discussed (see *Potential Relocation Sites for Commercial*
25 *Displacements* subheading).

26

27 Based on the results of replacement property searches, the majority of the businesses would have
28 options to successfully relocate within their service area. There may be temporary impacts to a small
29 community of businesses that are unlikely to remain open or likely to re-establish outside of their service
30 area. However, the demand for services, driven by growth, could aid in the ability for potentially displaced
31 businesses to relocate within the project area; or the demand could shift to non-displaced businesses that
32 meet the additional demand by creating new employment opportunities. Additionally, there appear to be
33 future employment opportunities of varying skill requirement intensities within the City of Dallas based on
34 information provided by the NCTCOG's Development Monitoring database and interviews with Planning
35 Officials from the municipalities of Dallas.

36

1 The proposed SM Wright project, along with other reasonably foreseeable transportation projects, would
2 also contribute beneficial construction and related activities for persons in many industries throughout the
3 economy. Jobs would be created by firms designing the proposed project, jobs to employers supplying
4 the materials for construction, construction labor jobs, food industry jobs servicing construction workers
5 (e.g., food trucks and restaurants), etc. TxDOT is committed to coordinate available programs provided
6 by Workforce Solutions to those employees affected by the businesses potentially displaced as a result of
7 the proposed project at the Public Hearing. The Workforce Development Manager and appropriate staff
8 will attend the Public Hearing for the proposed project to answer questions or present services
9 information on behalf of Workforce Solutions.

10
11 Further, as is indicated in **Section 6.0**, the proposed improvements are anticipated to influence some
12 development along the project alignment, which in turn would likely create future opportunities for
13 employment.

14
15 Relocation assistance payments and services would be provided to the displaced businesses in
16 accordance with the Uniform Relocation Assistance and Real Properties Acquisition Policies Act, as
17 Amended. Based on the above analysis of business and employment impacts, and considering the
18 context in which these impacts would occur, substantial impacts to businesses and employees are not
19 anticipated.

20 21 ***Early Acquisitions***

22 The City of Dallas has early acquired 19 parcels within the proposed project's required ROW. The early
23 acquisition process, along with details relating to the early-acquired parcels, is presented in **Appendix C-**
24 **11**. The 19 early acquired parcels are also shown in relation to the proposed SM Wright project ROW in
25 Attachment 1 of **Appendix C-11**. In summary, all 19 of the early acquisition parcels were acquired in
26 their entirety by the City of Dallas. The ROW required for construction of the proposed project would
27 completely encompass fourteen of the 19 early acquisition parcels; and only portions of the remaining five
28 early acquisition parcels would be required as part of the SM Wright project ROW. Of these 19 early
29 acquisition properties, five contain residential structures, two contain commercial structures (a
30 restaurant/club and automotive repair garage), one is a vacant commercial property housing two
31 billboards, and the remaining 11 are vacant parcels of either commercial or residential land use. Each
32 landowner/displacee was compensated by the City of Dallas for the purchase of their property in
33 accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act, as
34 Amended. All required records and complete documentation regarding the acquired parcels and
35 relocations are located at the City of Dallas and available for inspection by FHWA.

1 **5.2.6 Access**

2

3 **No-Build Alternative**

4 Implementation of the No-Build Alternative would not require additional control of access areas.

5

6 **Build Alternative**

7 An Interstate Access Justification (IAJ) report was prepared for the proposed project and approved by
8 FHWA in April 2012. Additional control of access areas are recommended as part of the proposed
9 project and are consistent with TxDOT design criteria and guidance. Access to adjacent properties would
10 be maintained. In areas where existing access would be prohibited by the proposed control of access,
11 alternative access routes would be provided.

12

13 **5.2.7 Community Cohesion**

14

15 **No-Build Alternative**

16 Implementation of the No-Build Alternative would not separate or isolate any distinct neighborhoods,
17 ethnic groups, or other specific groups; however, it would also not improve the current separation of the
18 neighborhoods along the existing SM Wright Freeway.

19

20 **Build Alternative**

21 Community cohesion is a term that refers to an aggregate quality of a residential area. Cohesion is a
22 social attribute that indicates a sense of community, common responsibility, and social interaction within a
23 limited geographic area. It is the degree to which residents have a sense of belonging to their
24 neighborhood or community, or a strong attachment to neighbors, groups, and institutions as continual
25 association over time.

26

27 ***Historical Context Summary of South Dallas***

28 The following is a summary taken from the No-Archeological Historic-Age Resource Reconnaissance
29 Survey prepared for this project⁵². It describes the historical context of the community of South Dallas
30 near the project area.

31

32 South Dallas underwent a transformation during the twentieth century. What started out as a mostly
33 white residential area with a range of income levels in the early part of the century quickly became a
34 haven for Dallas minorities in the second half, particularly African-Americans.

35

⁵² Non-Archeological Historic-Age Resource Reconnaissance Survey Report; SM Wright, Dallas County, TxDOT, dated December 2011.

Streetcars and Suburbs (1872-1930)

The arrival of the Houston and Texas Central Railroad in 1872 and the Texas and Pacific Railroad in 1873 paved the way for the city's tremendous commercial boom. Soon after, a network of streetcar lines were built, and suburbanization of Dallas ensued. The street railway network in Dallas grew remarkably over the next fifty years and many of the burgeoning suburbs built well into the 1920s were fueled by real-estate speculation tied to streetcar line expansions.

The development of the streetcar lines created the first real separable neighborhoods as early as Edward Browder's addition built in 1874 between today's City Hall and Farmer's Market. The Colonial Hill development two miles southeast of the downtown area was established along the original Commerce and Ervay Street car line where it jogged over south onto Colonial Avenue and continued out to Hatcher Street. Being near the industrial plants that developed along the Trinity River and railroad tracks, Colonial Hill was comprised mainly of homes built for factory workers. However, certain additions in upper Colonial Hill consisted of larger, finer homes built for the more affluent factory owners and managers, thus creating a mixed development. The project corridor forms the northeast boundary for the Colonial Hill Historic District.

On the other side of S.M. Wright Freeway lies the South Boulevard-Park Row Historic District. Platted in the 1920s, the neighborhood became comprised predominantly of an affluent Jewish community, boasting a synagogue designed by prominent architect Howard Myers. The neighborhood remained the focal point of Dallas' wealthy Jewish population until the early 1950s, when the synagogue relocated to north Dallas and residents quickly moved to follow. In their place, prominent African-Americans moved in and turned the neighborhood into a well-to-do African-American district.

African-American Settlement and Segregation (1916-1968)

In the late nineteenth century, southeast Dallas was a farming community and home to several African American farm-owners and families who settled there after the Civil War. A number of African-American churches, schools, and cemeteries were built in the area in the wake of Reconstruction further prompting the formation of an African American "section" of Dallas. However, much of the area was unofficially reserved for affluent whites. Institutionalized segregation came to Dallas neighborhoods in 1916, when the city passed a segregation ordinance requiring all neighborhoods to be labeled black or white only; mixed neighborhoods were forbidden.

In the aftermath of the ordinance, several neighborhoods in South Dallas were developed exclusively for African-Americans. Queen City Heights (approximately 1,300 feet east of the project area) developed between 1915 and 1945 around an existing concentration of African American churches, schools, and businesses. In addition, Wheatley Place, also near the project area, was platted in 1916 as the first

1 neighborhood built for and advertised directly to the African-American community. Wheatley Place
2 attracted aspiring, middle-class African-Americans. Lincoln Manor and the Roosevelt Addition, both near
3 Wheatley Place, were two additional “black only” neighborhoods.

4
5 After World War I, the growing African-American communities prompted white residents to take action
6 against a perceived intrusion and property devaluation and segregation increased. An attempt was made
7 to establish a “color line” south of Cooper Street in the Colonial Hill District, to “protect” the white
8 communities living in the exclusive neighborhoods of The Cedars and Colonial Hill.

9
10 Partially in an effort to enforce this “color line”, the area that would become Romine Avenue Historic
11 District was platted. Located east of SM Wright Freeway, this district is also in the project area. It was the
12 first to be built exclusively for African-Americans in which the houses were built substantially of brick or
13 stone. Like Wheatley Place, Romine Avenue attracted a more affluent African-American community.

14
15 By 1940, the city’s 50,400 African-Americans (out of a total population of 295,000) lived in segregated
16 neighborhoods covering only 3.5 square miles out of the city’s total area of 41 square miles. Eighty
17 percent of the housing at the time was considered “substandard” by city authorities.

18
19 After World War II, increasing industrialization brought more African-Americans to South Dallas. Many
20 African-American families finally gained financial prosperity through home ownership. The segregated
21 city, however, remained intolerant of mixed neighborhoods. Coupled with the lack of zoning, this led to
22 the abandonment by the white community to newer, more exclusive neighborhoods in north Dallas, and
23 the eventual adoption of South Dallas by the African-American community.

24
25 By the 1960s, the African-American population started making strides into political action. Dallas schools
26 were finally ordered desegregated in 1961, although the change took years to implement. Local activists
27 such as the Reverend Dr. S.M. Wright fought for African-American interests and helped prevent race riots
28 during the tumultuous 1960s. Although the neighborhood segregation law was repealed, African-
29 Americans remained largely confined to South Dallas due to economics and the lack of affordable
30 housing elsewhere in the city.

31 32 Post-War Suburbanization and Freeway Development (1945-1970)

33 The surge in the oil industry and the booming defense industry engendered by the Second World War
34 helped to usher in one of Dallas’ periods of greatest growth in the 1950s and 1960s. Personal
35 automobiles became the preferred method of travel for the post-war resident. As freeways continued to
36 encircle the city, much of the remaining farmland slowly gave way to suburban growth. Manufacturing
37 greatly increased, creating additional demand for improved infrastructure to support the transportation of

1 goods and materials. The interstate highway system replaced the railroads as the main way to move
2 machinery and farm materials into the area and agricultural production to market as well as providing for
3 the general upturn in commerce and communication for a fast-growing population.

4
5 IH 45 began construction around 1950 south of present IH 20 and was one of the first rural interstates
6 constructed in Texas. Central Expressway was constructed in 1952 along the old Houston and Texas
7 Central railroad track and served as the tie-in for IH 45 between IH 20 and downtown Dallas. IH 45 was
8 not completed between downtown and IH 20 until 1975. The section of IH 45 between downtown and the
9 Trinity River was originally designed as a strictly elevated roadway. However, the freeway's design was
10 later modified in 1970 to include an at-grade section through the Spence neighborhood (south end of
11 Colonial Hill Historic District) through the efforts of Reverend Wright and the Dallas Interdenominational
12 Ministerial Alliance. The four-mile stretch of Central Expressway known as S.M. Wright Freeway was
13 named after Reverend Wright; he was the first African-American to have a Dallas freeway named in his
14 honor.

15 16 ***Present-Day Community Characteristics***

17 Since neighborhoods represent a geographic unit that can be readily identified by community members, a
18 correlation of the affected block groups to the project area neighborhoods is shown in **Table 5-11**. An
19 exhibit depicting area neighborhoods can be found in **Appendix C-3**. The table provides the block group
20 level statistics on minority composition, income level, and poverty status for the neighborhoods in the SM
21 Wright project corridor.

TABLE 5-11. DEMOGRAPHIC CHARACTERISTICS OF AFFECTED NEIGHBORHOODS/CENSUS BLOCK GROUPS OF CONCERN

Neighborhood District/ Neighborhood	Census Tract/ Block Group	Type of Impact	Total Population ¹	Percent Minority ¹	Total Households ²	Percent Households Below Poverty Level ²	Median Household Income ³
South Dallas Neighborhood District							
Forest Heights	34/1	None	562	97%	300	37%	\$16,371
	40/1		636	99%	173	29%	\$22,390
Colonial Hills	40/1	2 single-family residential displacements	636	99%	173	29%	\$22,390
	40/2		446	100%	192	18%	\$28,750
South Boulevard / Park Row	203/1	None	466	76%	155	28%	\$31,458
	203/2		1,314	98%	582	48%	\$14,005
	204/2		2,040	60%	641	16%	\$43,355
Queen City	37/2	None	736	98%	375	32%	\$18,699
	37/4		466	99%	190	56%	\$12,273
	38/1		531	99%	281	37%	\$17,438
	203/3		788	98%	409	53%	\$13,082
Park Row	34/2	None	584	79%	334	32%	\$26,250
Exline	38/1	None	531	99%	281	37%	\$17,438
	38/3		593	99%	117	44%	\$11,354
Ideal	39.02/1	None	452	98%	176	32%	\$18,828
	39.02/2	None	1,408	99%	545	32%	\$21,635
	115/4	None	827	99%	202	68%	\$10,893
Rochester	39.02/1	None	452	98%	176	32%	\$18,828
	115/3	None	262	99%	130	35%	\$18,636
	115/4	None	827	99%	202	68%	\$10,893

Sources:

1. U.S. Census Bureau 2010, Summary File 1, Table P9
2. U.S. Census Bureau ACS 2007-2011 5-year estimates, Table B17017
3. U.S. Census Bureau ACS 2007-2011 5-year estimates, Table B19013

Notes:

The latest Census data has been utilized to obtain socioeconomic data. The 2010 Census data is used to obtain population counts and basic characteristics, while the Census Bureau's ACS 2007 – 2011 estimate data is used to obtain demographic, social, economic and housing characteristics.

Neighborhoods and district boundaries do not correspond exactly with the census tracts or block groups. A rough correlation has been established so that Census data can be used to provide a general description of population, income, and poverty characteristics.

1 There are potentially two single-family residential displacements associated with the Build Alternative. As
 2 shown in **Table 5-11**, these residential displacements would occur within the Colonial Hills Neighborhood
 3 District. The combined population in the associated Census block groups (Census block groups 1 and 2,
 4 Census tract 40) in Colonial Hills is 1,082 people. A review of the Census 2010 demographic data of the
 5 associated block groups encompassing Colonial Hills indicated that of the residents there, approximately
 6 87.0 percent (or 940 people) are black or African-American, 11.0 percent (or 122 people) are Hispanic,
 7 0.8 percent (or 9 people) are two or more races, 0.6 percent (or 7 people) are White, 0.3 percent (or 3
 8 people) are American Indian or Alaska Native, and 0.1 percent (or one person) is Some Other Race. The
 9 loss of six residential properties from the neighborhood is unlikely to negatively affect the overall
 10 cohesiveness and nature of this community.

11

TABLE 5-12. ELEMENTARY SCHOOL ATTENDANCE ZONES ADJACENT TO THE PROPOSED PROJECT

Elementary School	School District	Attendance Zone Size (acres)	Number of Residential Displacements
Albert Sidney Johnston	Dallas	1,616	0
Martin Luther King Jr.	Dallas	1,153	0
Charles Rice	Dallas	971	2*
City Park	Dallas	2,281	0
J.P. Starks	Dallas	1,121	0
H.S. Thompson	Dallas	1,504	0
Source: http://www.dallasisd.org/demo/schoolinfo/eszones2009.htm			
Note: *2 single-family homes			

12

13 Elementary school attendance zones were also used as a means to determine potential communities
 14 adjacent to the proposed project. Elementary schools are one aspect of a community and provide a
 15 known boundary of populations in similar living arrangements. The extent that an individual identifies the
 16 community as based on a specific elementary school's geographic boundaries is unknown. However,
 17 social bonds are formed through playground use, school activities, after school programs, and parent
 18 teacher association meetings, all of which are centered around elementary schools. Elementary school
 19 attendance zone data are presented in **Table 5-12** and in **Appendix C-4**.

20

21 Enrollment and demographic data for the six elementary schools adjacent to the proposed project are
 22 displayed in **Table 5-13**. The attendance zone of these six schools can be seen in **Appendix C-4**.
 23 Average enrollment for the 6 elementary schools is 353 students, with a high of 521 and a low of 220.
 24 Approximately 99 percent of students are minority with 67.5 percent black or African-American, 31.5
 25 percent Hispanic, and 0.23 percent Asian. In addition, approximately 22.5 percent of students are LEP
 26 and 96.2 percent are considered economically disadvantaged.

TABLE 5-13. ELEMENTARY SCHOOL ENROLLMENT/DEMOGRAPHIC DATA

Elementary School	Enrollment	White	Black African-American	Native American	Asian	Hispanic	LEP Student Count	Economically Disadvantaged ¹
		Percent					Number/Percent	
Albert Sidney Johnston	521	0.2	65.8	0	0	34	137 / 26.3	513 / 98.5
Martin Luther King Jr.	285	0.7	94.4	0	0	4.9	6 / 2.1	274 / 96.1
Charles Rice	510	0.2	97.8	0	0	2	3 / 0.6	481 / 94.3
City Park	220	2.7	14.5	0	1.4	81.4	154 / 70	212 / 96.4
J.P. Starks	357	0	81.2	0	0	18.8	35 / 9.8	348 / 97.5
H.S. Thompson	223	0.4	51.6	0	0	48	65 / 29.1	222 / 99.6

Source: <http://ritter.tea.state.tx.us/perfreport/aeis/2010/campus.srch.html>, accessed June 2011

Note: 1. Economically disadvantaged includes the following: Students eligible for free or reduced price meals under the National School Lunch and Child Nutrition Program, students from a family with an annual income at or below the official poverty line, students eligible for Temporary Assistance to Needy Families (TANF) or other public assistance, or students that received a Pell Grant or comparable state program of need-based financial assistance.

1

2 There are potentially two single-family residential displacements associated with the Build Alternative. As

3 shown in **Table 5-12**, these residential displacements would occur within the Charles Rice Elementary

4 School attendance zone. Enrollment at Charles Rice Elementary School is approximately 510 students.

5 A review of the demographic data and 2010 school enrollment records of Charles Rice Elementary

6 indicated that of the students enrolled there, 97.8 percent are black or African-American, two percent are

7 Hispanic, and 0.2 percent are White. The loss of six residential properties from a large elementary school

8 attendance zone is unlikely to negatively affect the overall cohesiveness and nature of this community.

9

10 The Build Alternative would allow for the conversion of SM Wright Freeway to an at-grade, landscaped

11 urban arterial, known as the SM Wright Parkway. City planning documents include community cohesion

12 among the beneficial effects of reconstructing SM Wright Freeway as a city parkway. For example, in the

13 Balanced Vision Plan, the City of Dallas recognizes that through the conversion of the existing freeway to

14 an at-grade urban arterial, "This [project] would link the residential neighborhoods on both sides of the

15 roadway, and strengthen the viability of the neighborhood currently between SM Wright and Lamar."⁵³

16 Throughout the public involvement process, local government and community members have been

17 involved in developing the project alternatives for the downgrade of the existing SM Wright Freeway. The

18 proposed project would positively impact the community/neighborhood areas that are currently divided by

19 the existing SM Wright Freeway by improving community cohesion.

20

21 **5.2.8 Limited English Proficiency**

22 Under both the No-Build and Build Alternatives of the proposed project, LEP individuals would be

23 afforded the opportunity to participate in the decision-making process as discussed below.

24

⁵³ A Balanced Vision Plan for the Trinity River Corridor, December 2003

1 EO 13166, *Improving Access to Services for Persons with Limited English Proficiency*, requires federal
 2 agencies to examine the services they provide and identify any need for services to LEP populations.
 3 This EO requires federal agencies to work to ensure that recipients of federal financial assistance provide
 4 meaningful access to their LEP applicants and beneficiaries. Failure to ensure that LEP persons can
 5 effectively participate in or benefit from federally assisted programs and activities may violate the
 6 prohibition under Title VI of the Civil Rights Restoration Act of 1987 and Title VI regulations.

7
 8 An analysis was conducted to identify residents in the project area with LEP, since these residents may
 9 not understand the outreach materials. LEP populations were determined using Census block group
 10 level data from the U.S. Census Bureau, 2007-2011 ACS data.⁵⁴ Census block groups were assessed
 11 within 0.25 mile of the project ROW (i.e., project area). Within the population that is five years of age and
 12 older, persons who speak English less than “very well” are considered to have a limited English
 13 proficiency. There are 18 block groups within 0.25 mile of the proposed project ROW (see **Appendix C-**
 14 **5**). The populations that speak English less than “very well” according to ACS 2007 to 2011 5-year
 15 estimates data are presented in **Table 5-14**.

**TABLE 5-14. PERCENT OF PROJECT AREA¹ POPULATION THAT SPEAKS ENGLISH LESS THAN
 “VERY WELL”**

Census Tract/Block Group	Total Population	LEP Population	Percent LEP	Languages Spoken by LEP Populations % (No. of persons)			
				Spanish	Indo-European	Asian/Pacific Island	Other
34/ 1	588	23	4%	4% (23)	0	0	0
34/ 2	545	30	6%	6% (30)	0	0	0
37/ 2	975	0	0	0	0	0	0
37/ 3	512	0	0	0	0	0	0
37/ 4	474	0	0	0	0	0	0
38/ 1	590	0	0	0	0	0	0
38/ 3	159	0	0	0	0	0	0
39.02/ 1	377	40	11%	11% (40)	0	0	0
39.02/ 2	1,293	93	7%	7% (93)	0	0	0
40/ 1	330	0	0	0	0	0	0
40/ 2	440	7	2%	2% (7)	0	0	0
86.03/ 1	847	119	14%	14% (119)	0	0	0
115/ 3	335	63	19%	19% (63)	0	0	0
115/ 4	599	56	11%	11% (56)	0	0	0
203/ 1	320	8	3%	0	0	0	3% (8)
203/ 2	1,294	0	0	0	0	0	0
203/ 3	650	8	1%	1% (8)	0	0	0
204/ 2	1,268	322	26%	25% (315)	1% (7)	0	0

Source: U.S. Census Bureau ACS 2007-2011 5-year estimates, Table B16004
Note:
 1. Project area for the purposes of the LEP analysis includes the Census block groups within 0.25 mile of the proposed project ROW (i.e., 18 block groups).

⁵⁴ The latest Census data has been utilized to obtain all socioeconomic data. The 2010 Census data is used for population counts and basic characteristics, while the Census Bureau’s American Community Survey (ACS) 2007 – 2011 estimate data is used for the demographic, social, economic and housing characteristics.

1 As shown in **Table 5-14**, the percentages of LEP populations in the individual block groups within the
2 project area range from zero to 26 percent. Of the 11,596 persons within all of the block groups,
3 approximately 7 percent of the population (776 persons) speak English less than “very well.” Of this LEP
4 population, the predominant language spoken is Spanish (approximately 98 percent). Other
5 representative languages include 1 percent Indo European languages and 1 percent other languages. A
6 windshield survey of the project area indicated that English was the primary language used for building
7 signage and other forms of posted information and advertisements along the project corridor. Included
8 were scattered areas of Spanish language signage, postings, and advertisements.

9
10 Efforts have been made to include all affected communities and populations, including potential minority
11 and low income populations, in the public involvement and decision making process. Steps have been
12 taken to ensure that LEP persons have access to the programs, services, and information TxDOT
13 provides. The SM Wright Public Meetings were held on April 28, 2009, March 30, 2010 and August 7,
14 2012 at the Martin Luther King Jr. Senior Center. See **Section 2.6** for the description of Public
15 Involvement that has occurred thus far and Public Meeting summaries. Public notices were sent to
16 adjacent property owners and local, city, and state officials, and letters were sent to non-elected public
17 officials. In addition, public notices were advertised in the Dallas Examiner, Dallas Weekly, and Al Dia
18 newspapers. Notices were published in Spanish, and included contact information for anyone with
19 special needs, including interpretation. Also, at each of the Public Meetings there was at least one
20 bilingual representative available for any Spanish speaking citizen in need of a translator. A proactive
21 public involvement program will continue for the proposed project and all populations affected will have a
22 continuing opportunity to participate in the development of the project. Future information released to the
23 public concerning the proposed project would also be made available in English and Spanish. For any
24 LEP population, similar services would be provided where needed.

25 26 **5.2.9 Environmental Justice (EJ)**

27 28 **No-Build Alternative**

29 Implementation of the No-Build Alternative would not have disproportionately high and adverse human
30 health or environmental effects on minority and/or low-income populations.

31 32 **Build Alternative**

33 34 ***Regulatory Guidance***

35 Potential impacts were evaluated for compliance with applicable laws and regulations. The evaluation
36 measures included identifying whether minority or low-income populations exist in the project area,
37 identifying impacts that would potentially affect minority and low-income communities of concern,

1 determining whether the proposed project would have disproportionate effects on minority and/or low-
2 income groups, and identifying mitigation strategies for any EJ groups that were identified.

3
4 EO 12898 entitled *Federal Actions to Address Environmental Justice in Minority Populations and Low-*
5 *Income Populations* mandates that federal agencies identify and address, as appropriate,
6 disproportionately high and adverse human health or environmental effects of the programs on minority
7 and low-income populations. The EPA defines EJ as the fair treatment for people of all races, cultures,
8 and incomes, regarding the development of environmental laws, regulations, and policies.

9
10 FHWA Order 6640.23A⁵⁵ establishes the policies and procedures for the FHWA to use in complying with
11 EO 12898 and is a key element in the EJ strategy adopted by the FHWA to implement EO 12898. The
12 following definitions are contained in FHWA Order 6640.23A and are intended to be consistent with the
13 draft definitions for EO 12898 that have been issued by the CEQ and the EPA:

- 14
- 15 • **Minority:** A person who is (1) Black (a person having origins in any of the black racial groups
16 of Africa); (2) Hispanic or Latino (a person of Mexican, Puerto Rican, Cuban, Central or South
17 American, or other Spanish culture or origin, regardless of race); (3) Asian American (a
18 person having origins in any of the original peoples of the Far East, Southeast Asia, or the
19 Indian subcontinent); (4) American Indian and Alaskan Native (a person having origins in any
20 of the original people of North America, South America (including Central America), and who
21 maintains cultural identification through tribal affiliation or community recognition); (5) Native
22 Hawaiian and Other Pacific Islander (a person having origins in any of the original peoples of
23 Hawaii, Guam, Samoa, or other Pacific Islands).
 - 24
 - 25 • **Minority Population:** Any readily identifiable groups of minority persons who live in geographic
26 proximity, and, if circumstances warrant, geographically dispersed/transient persons (such as
27 migrant workers or Native Americans) who will be similarly affected by a proposed FHWA
28 program, policy, or activity.
 - 29
 - 30 • **Low-Income Population:** Any readily identifiable group of low-income persons who live in
31 geographic proximity, and, if circumstances warrant, geographically dispersed/transient
32 persons (such as migrant workers or Native Americans) who would be similarly affected by a
33 proposed FHWA program, policy, or activity.

⁵⁵ FHWA Order 6640.23A, *FHWA Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* (June 14, 2012). <http://www.fhwa.dot.gov/legsregs/directives/orders/664023a.htm>.

- 1
- 2 • The 2013 poverty guideline is \$23,550 for a four-person family as defined by the U.S.
- 3 Department of Health and Human Services (HHS).
- 4
- 5 • Adverse Effects: The totality of significant individual or cumulative human health or
- 6 environmental effects, including interrelated social and economic effects, which may include,
- 7 but are not limited to: bodily impairment, infirmity, illness or death; air, noise, and water
- 8 pollution and soil contamination; destruction or disruption of man-made or natural resources;
- 9 destruction or diminution of aesthetic values; destruction or disruption of community cohesion
- 10 or a community's economic vitality; destruction or disruption of the availability of public and
- 11 private facilities and services; vibration; adverse employment effects; displacement of
- 12 persons, businesses, farms, or nonprofit organizations; increased traffic congestion, isolation,
- 13 exclusion or separation of minority or low-income individuals within a given community or
- 14 from the broader community; and the denial of, reduction in, or substantial delay in the receipt
- 15 of, benefits of FHWA programs, policies, or activities.
- 16
- 17 • Disproportionately High and Adverse Effect on Minority and Low-Income Populations: An
- 18 adverse effect that (1) is predominately borne by a minority population and/or a low-income
- 19 population; or (2) will be suffered by the minority population and/or low-income population
- 20 and is appreciably more severe or greater in magnitude than the adverse effect that would be
- 21 suffered by the nonminority population and/or non-low-income population.
- 22

23 EO 12898 is an administrative directive to federal agencies and does not create any judicially enforceable

24 rights; therefore, EJ proponents also look to the judicial system for guidance. Federal court decisions

25 under Title VI have provided several criteria by which compliance with EO 12898 can be assessed. The

26 following section deals with the application of these Title VI criteria, as well as EO 12898, to the case of

27 the proposed project. Among the most important EJ criteria that have evolved out of Title VI litigation are

28 the requirements that:

- 29 • Defendants justify their actions by showing a legitimate non-discriminatory purpose; and
- 30 • Plaintiffs demonstrate that there is a reasonable alternative to the proposed action that is also
- 31 non-discriminatory.
- 32

33 ***Project Area Demographics***

34 The 2010 U.S. Census data were analyzed to identify areas with high concentrations of minority and low-

35 income populations. For the purpose of the demographic data analysis, the project area is defined as the

36 Census tracts, block groups, and blocks located in proposed project ROW and within 0.25 mile of it.

37 There are nine Census tracts, 18 Census block groups, and 427 Census blocks that contain the analyzed

1 population; all 427 Census blocks locations are shown in **Appendix C-4**. Data obtained from the Census
2 Tracts, Census blocks and block groups were analyzed to determine race and income characteristics of
3 the population affected by the proposed project. The race, ethnicity, and low-income characteristics
4 within these analyzed statistical geographies are presented in **Appendix C-5**.

5
6 Of the 427 Census blocks, a total of 5,913 persons were recorded within 223 Census blocks in 2010.
7 The remaining 204 Census blocks did not contain a residential population. Of the 5,913 persons
8 approximately 82 percent are Black or African American, 13 percent are Hispanic or Latino, three percent
9 are White, and one percent are Two or More Races. The combined populations of American Indian and
10 Alaskan Native, Asian, as well as Hawaiian and other Pacific Islander make up less than one percent of
11 the analyzed population. Based on the analysis, it can be deduced that the project area is largely
12 comprised of predominantly “Black or African American” and “Hispanic or Latino of Any Race”
13 populations.

14
15 The nine Census tracts and 18 Census block groups located in the project area all have minority
16 populations greater than 50 percent. In addition, of the 223 Census blocks with residential populations,
17 217 Census blocks contain minority populations that are 50 percent or greater, as shown in **Appendix**
18 **Table 5-15**. Using this method of comparison, it is concluded that an EJ population exists in the project
19 area.

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TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
34/ 1	--	562	3%	78%	0%	0%	0%	0%	1%	18%	546	97%
--	1005	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%
--	1006	29	0%	59%	0%	0%	0%	0%	0%	41%	29	100%
--	1007	6	17%	83%	0%	0%	0%	0%	0%	0%	5	83%
--	1029	9	0%	44%	0%	0%	0%	0%	0%	56%	9	100%
--	1036	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%
--	1037	85	0%	78%	1%	0%	0%	0%	2%	19%	85	100%
--	1038	33	0%	45%	0%	0%	0%	0%	0%	55%	33	100%
--	1039	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%
--	1041	8	0%	100%	0%	0%	0%	0%	0%	0%	8	100%
--	1042	32	0%	94%	0%	0%	0%	0%	3%	3%	32	100%
--	1043	41	10%	56%	0%	0%	0%	0%	0%	34%	37	90%
--	1044	34	0%	100%	0%	0%	0%	0%	0%	0%	34	100%
--	1045	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%
--	1047	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	1048	15	0%	93%	0%	0%	0%	7%	0%	0%	15	100%
--	1049	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%
--	1050	18	0%	89%	0%	0%	0%	0%	0%	11%	18	100%
--	1051	21	14%	48%	0%	0%	0%	0%	0%	38%	18	86%
--	1052	51	2%	67%	0%	0%	0%	0%	2%	29%	50	98%
--	1053	21	0%	81%	0%	0%	0%	0%	0%	19%	21	100%
--	1055	3	0%	0%	0%	0%	0%	0%	0%	100%	3	100%
34/ 2	--	584	21%	66%	1%	0%	0%	0%	1%	11%	460	79%
--	2004	12	33%	8%	0%	0%	0%	0%	0%	58%	8	67%
--	2006	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	2014	55	2%	98%	0%	0%	0%	0%	0%	0%	54	98%
--	2024	14	21%	79%	0%	0%	0%	0%	0%	0%	11	79%
--	2027	52	13%	81%	6%	0%	0%	0%	0%	0%	45	87%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	2028	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%
--	2030	88	6%	80%	0%	0%	0%	0%	0%	15%	83	94%
--	2031	4	25%	75%	0%	0%	0%	0%	0%	0%	3	75%
--	2038	28	0%	93%	0%	0%	0%	0%	0%	7%	28	100%
--	2039	40	0%	75%	5%	0%	0%	0%	0%	20%	40	100%
--	2040	5	0%	100%	0%	0%	0%	0%	0%	0%	5	100%
--	2041	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%
--	2044	9	11%	89%	0%	0%	0%	0%	0%	0%	8	89%
--	2053	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	2060	23	0%	70%	0%	0%	0%	0%	0%	30%	23	100%
--	2061	5	0%	80%	0%	20%	0%	0%	0%	0%	5	100%
--	2062	44	0%	100%	0%	0%	0%	0%	0%	0%	44	100%
--	2063	10	40%	50%	0%	0%	0%	0%	0%	10%	6	60%
--	2064	12	8%	67%	0%	0%	0%	0%	0%	25%	11	92%
--	2065	4	0%	25%	0%	0%	0%	0%	0%	75%	4	100%
37/ 2	--	736	2%	93%	0%	0%	0%	0%	1%	5%	720	98%
--	2015	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%
--	2019	33	6%	85%	0%	0%	0%	0%	6%	3%	31	94%
--	2020	32	6%	81%	0%	0%	0%	0%	0%	13%	30	94%
--	2021	79	3%	96%	0%	0%	0%	0%	1%	0%	77	97%
--	2022	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%
--	2023	19	5%	95%	0%	0%	0%	0%	0%	0%	18	95%
--	2024	20	0%	80%	0%	0%	0%	0%	0%	20%	20	100%
--	2025	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%
--	2026	52	6%	92%	0%	0%	0%	0%	0%	2%	49	94%
--	2027	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
37/ 3	--	840	2%	86%	1%	0%	0%	0%	1%	11%	827	98%
--	3014	24	0%	67%	0%	0%	0%	0%	4%	29%	24	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	3015	26	0%	96%	0%	0%	0%	0%	4%	0%	26	100%
37/ 4	--	466	1%	92%	0%	0%	0%	0%	2%	6%	463	99%
--	4000	30	3%	93%	0%	0%	0%	0%	3%	0%	29	97%
--	4001	64	0%	100%	0%	0%	0%	0%	0%	0%	64	100%
--	4002	40	3%	98%	0%	0%	0%	0%	0%	0%	39	98%
--	4003	36	0%	94%	0%	0%	0%	0%	0%	6%	36	100%
--	4004	13	0%	100%	0%	0%	0%	0%	0%	0%	13	100%
--	4005	97	1%	86%	0%	0%	0%	0%	0%	13%	96	99%
--	4006	24	0%	100%	0%	0%	0%	0%	0%	0%	24	100%
--	4008	14	0%	93%	0%	0%	0%	0%	0%	7%	14	100%
--	4012	30	0%	93%	0%	0%	0%	0%	0%	7%	30	100%
--	4013	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%
--	4014	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%
--	4015	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%
--	4016	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%
--	4017	37	0%	57%	0%	0%	0%	0%	16%	27%	37	100%
38/ 1	--	531	1%	96%	0%	0%	0%	0%	0%	2%	524	99%
--	1001	19	0%	100%	0%	0%	0%	0%	0%	0%	19	100%
--	1002	39	0%	100%	0%	0%	0%	0%	0%	0%	39	100%
--	1003	30	0%	100%	0%	0%	0%	0%	0%	0%	30	100%
--	1004	18	0%	100%	0%	0%	0%	0%	0%	0%	18	100%
--	1005	40	0%	100%	0%	0%	0%	0%	0%	0%	40	100%
--	1006	38	0%	79%	0%	0%	0%	0%	0%	21%	38	100%
--	1007	16	0%	100%	0%	0%	0%	0%	0%	0%	16	100%
--	1008	28	4%	93%	0%	0%	0%	0%	0%	4%	27	96%
--	1009	28	0%	96%	4%	0%	0%	0%	0%	0%	28	100%
--	1010	38	0%	97%	3%	0%	0%	0%	0%	0%	38	100%
--	1011	38	0%	100%	0%	0%	0%	0%	0%	0%	38	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	1012	32	0%	100%	0%	0%	0%	0%	0%	0%	32	100%
--	1015	107	3%	93%	0%	0%	1%	0%	1%	3%	104	97%
--	1022	42	7%	93%	0%	0%	0%	0%	0%	0%	39	93%
--	1023	18	0%	100%	0%	0%	0%	0%	0%	0%	18	100%
38/ 3	--	593	1%	94%	0%	0%	0%	0%	2%	4%	590	99%
--	3002	91	0%	91%	0%	1%	0%	0%	2%	5%	91	100%
--	3009	4	0%	75%	0%	0%	0%	0%	25%	0%	4	100%
--	3010	46	0%	89%	0%	0%	0%	0%	4%	7%	46	100%
--	3011	56	0%	91%	0%	0%	0%	0%	0%	9%	56	100%
--	3012	94	0%	100%	0%	0%	0%	0%	0%	0%	94	100%
--	3013	83	0%	92%	0%	0%	0%	0%	2%	6%	83	100%
--	3014	63	0%	97%	0%	0%	0%	0%	0%	3%	63	100%
39.02/ 1	--	452	2%	62%	0%	0%	0%	0%	2%	35%	445	98%
--	1000	22	0%	68%	0%	0%	0%	0%	0%	32%	22	100%
--	1003	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
--	1005	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
--	1006	45	0%	4%	0%	0%	0%	0%	0%	96%	45	100%
--	1007	41	0%	85%	0%	0%	0%	0%	0%	15%	41	100%
--	1008	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%
--	1009	20	0%	100%	0%	0%	0%	0%	0%	0%	20	100%
--	1010	11	0%	73%	0%	0%	0%	0%	0%	27%	11	100%
--	1011	9	11%	67%	0%	0%	0%	0%	0%	22%	8	89%
--	1012	36	0%	78%	0%	0%	0%	0%	0%	22%	36	100%
--	1013	28	0%	75%	0%	0%	0%	0%	0%	25%	28	100%
--	1014	31	0%	77%	0%	0%	0%	0%	0%	23%	31	100%
--	1015	7	0%	0%	0%	0%	0%	0%	0%	100%	7	100%
--	1017	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%
--	1018	25	0%	52%	0%	0%	0%	0%	24%	24%	25	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	1019	26	0%	31%	0%	0%	0%	0%	0%	69%	26	100%
--	1020	26	0%	92%	0%	0%	0%	0%	0%	8%	26	100%
--	1021	12	8%	42%	0%	0%	0%	0%	0%	50%	11	92%
--	1023	9	0%	22%	0%	0%	0%	0%	0%	78%	9	100%
--	1025	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	1026	21	0%	29%	0%	0%	0%	0%	5%	67%	21	100%
--	1027	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%
--	1030	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%
--	1031	22	18%	36%	0%	0%	0%	0%	0%	45%	18	82%
--	1032	9	0%	67%	0%	0%	0%	0%	0%	33%	9	100%
--	1033	7	0%	100%	0%	0%	0%	0%	0%	0%	7	100%
39.02/ 2	--	1408	1%	77%	0%	0%	0%	0%	1%	21%	1393	99%
--	2001	92	0%	99%	0%	0%	0%	0%	0%	1%	92	100%
--	2002	7	0%	100%	0%	0%	0%	0%	0%	0%	7	100%
--	2012	13	0%	100%	0%	0%	0%	0%	0%	0%	13	100%
--	2016	29	0%	79%	0%	0%	0%	0%	0%	21%	29	100%
--	2017	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%
--	2018	46	0%	100%	0%	0%	0%	0%	0%	0%	46	100%
--	2019	67	0%	73%	0%	0%	0%	0%	0%	27%	67	100%
--	2020	29	0%	79%	0%	0%	0%	0%	0%	21%	29	100%
--	2027	113	2%	85%	1%	0%	0%	2%	1%	10%	111	98%
--	2028	43	0%	91%	0%	0%	0%	0%	0%	9%	43	100%
--	2029	20	0%	60%	0%	0%	0%	0%	0%	40%	20	100%
--	2030	65	0%	77%	0%	0%	0%	0%	0%	23%	65	100%
--	2031	40	0%	63%	0%	0%	0%	0%	3%	35%	40	100%
--	2032	8	0%	38%	0%	0%	0%	0%	0%	63%	8	100%
--	2033	19	5%	95%	0%	0%	0%	0%	0%	0%	18	95%
--	2034	39	0%	51%	0%	0%	0%	0%	0%	49%	39	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	2035	15	0%	100%	0%	0%	0%	0%	0%	0%	15	100%
--	2036	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
--	2037	43	0%	53%	0%	0%	0%	0%	0%	47%	43	100%
--	2038	5	0%	80%	0%	0%	0%	0%	20%	0%	5	100%
--	2039	16	19%	75%	0%	0%	0%	0%	0%	6%	13	81%
--	2040	83	2%	64%	0%	0%	0%	0%	0%	34%	81	98%
--	2041	45	2%	89%	0%	0%	0%	0%	0%	9%	44	98%
--	2042	51	4%	73%	0%	0%	0%	0%	2%	22%	49	96%
--	2043	29	0%	93%	0%	0%	0%	0%	0%	7%	29	100%
--	2051	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%
40/ 1	--	636	1%	92%	0%	0%	0%	0%	0%	8%	631	99%
--	1001	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%
--	1002	16	0%	69%	0%	0%	0%	0%	0%	31%	16	100%
--	1003	45	0%	96%	0%	0%	0%	0%	0%	4%	45	100%
--	1004	38	0%	97%	0%	0%	0%	0%	0%	3%	38	100%
--	1006	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%
--	1007	27	4%	74%	0%	0%	0%	0%	0%	22%	26	96%
--	1008	29	0%	100%	0%	0%	0%	0%	0%	0%	29	100%
--	1009	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%
--	1010	19	0%	89%	0%	0%	0%	0%	0%	11%	19	100%
--	1011	68	3%	96%	0%	0%	0%	0%	0%	1%	66	97%
--	1012	35	0%	89%	0%	0%	0%	0%	0%	11%	35	100%
--	1013	59	0%	97%	0%	0%	0%	0%	0%	3%	59	100%
--	1014	25	4%	96%	0%	0%	0%	0%	0%	0%	24	96%
--	1015	15	0%	87%	0%	0%	0%	0%	0%	13%	15	100%
--	1018	33	0%	100%	0%	0%	0%	0%	0%	0%	33	100%
--	1019	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%
--	1020	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	1021	39	3%	82%	0%	0%	0%	0%	0%	15%	38	97%
--	1028	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%
--	1030	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%
--	1033	13	0%	85%	0%	0%	0%	0%	0%	15%	13	100%
--	1034	62	0%	77%	0%	0%	0%	0%	0%	23%	62	100%
--	1042	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%
--	1043	14	0%	86%	0%	0%	0%	0%	0%	14%	14	100%
40/ 2	--	446	0%	80%	1%	0%	0%	0%	2%	16%	444	100%
--	2000	27	4%	59%	4%	0%	0%	0%	15%	19%	26	96%
--	2002	21	0%	95%	0%	0%	0%	0%	0%	5%	21	100%
--	2004	36	0%	86%	0%	0%	0%	0%	0%	14%	36	100%
--	2005	32	0%	78%	0%	0%	0%	0%	0%	22%	32	100%
--	2006	24	0%	100%	0%	0%	0%	0%	0%	0%	24	100%
--	2007	38	0%	68%	3%	0%	0%	0%	3%	26%	38	100%
--	2008	28	0%	93%	0%	0%	0%	0%	0%	7%	28	100%
--	2009	34	0%	91%	0%	0%	0%	0%	0%	9%	34	100%
--	2010	5	0%	0%	0%	0%	0%	0%	0%	100%	5	100%
--	2014	20	0%	95%	0%	0%	0%	0%	0%	5%	20	100%
--	2015	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%
--	2016	6	0%	50%	0%	0%	0%	0%	50%	0%	6	100%
--	2017	15	7%	87%	7%	0%	0%	0%	0%	0%	14	93%
--	2018	25	0%	64%	0%	0%	0%	0%	0%	36%	25	100%
--	2019	39	0%	77%	0%	0%	0%	3%	0%	21%	39	100%
--	2020	21	0%	71%	0%	0%	0%	0%	0%	29%	21	100%
--	2021	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%
--	2025	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	2026	1	0%	0%	0%	0%	0%	0%	0%	100%	1	100%
--	2027	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	2030	14	0%	64%	0%	0%	0%	0%	0%	36%	14	100%
--	2031	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%
--	2033	9	0%	33%	0%	0%	0%	0%	11%	56%	9	100%
--	2041	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
--	2045	11	0%	100%	0%	0%	0%	0%	0%	0%	11	100%
86.03/ 1	--	764	2%	85%	0%	0%	0%	0%	2%	11%	752	98%
--	1007	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
115/ 3	--	262	1%	31%	0%	0%	0%	0%	0%	68%	260	99%
--	3004	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%
--	3006	6	0%	0%	0%	0%	0%	0%	0%	100%	6	100%
115/ 4	--	827	1%	48%	0%	0%	0%	0%	1%	49%	820	99%
--	4053	23	0%	87%	0%	0%	0%	0%	0%	13%	23	100%
--	4060	31	0%	45%	0%	0%	0%	0%	0%	55%	31	100%
--	4071	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%
203/1	--	466	24%	60%	0%	0%	0%	0%	0%	15%	353	76%
--	1090	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
--	1104	5	0%	80%	0%	0%	0%	0%	0%	20%	5	100%
--	1109	11	0%	100%	0%	0%	0%	0%	0%	0%	11	100%
--	1121	2	0%	50%	0%	0%	0%	0%	0%	50%	2	100%
203/ 2	--	1314	2%	95%	0%	0%	0%	0%	1%	3%	1291	98%
--	2016	64	0%	100%	0%	0%	0%	0%	0%	0%	64	100%
--	2017	67	0%	90%	0%	0%	0%	0%	1%	9%	67	100%
--	2018	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%
--	2020	8	0%	88%	13%	0%	0%	0%	0%	0%	8	100%
--	2021	6	0%	83%	17%	0%	0%	0%	0%	0%	6	100%
--	2022	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%
203/ 3	--	788	2%	90%	0%	0%	0%	0%	2%	5%	772	98%
--	3022	16	0%	100%	0%	0%	0%	0%	0%	0%	16	100%

TABLE 5-15. 2010 CENSUS BLOCKS WITH MINORITY POPULATIONS OF 50 PERCENT OR GREATER

Census Geography		Race and Ethnicity										
Census Tract/Block Group	Census Block	Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority
--	2023	21	0%	86%	0%	0%	0%	0%	0%	14%	21	100%
--	3024	19	0%	100%	0%	0%	0%	0%	0%	0%	19	100%
--	3025	21	5%	57%	0%	0%	0%	0%	0%	38%	20	95%
--	3026	6	0%	67%	0%	0%	0%	0%	33%	0%	6	100%
--	3027	221	6%	86%	0%	0%	0%	0%	1%	7%	208	94%
--	3028	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%
--	3030	4	0%	0%	0%	0%	0%	0%	0%	100%	4	100%
204/ 2	--	2040	40%	22%	0%	4%	0%	0%	2%	32%	1224	60%
--	2107	12	0%	0%	0%	0%	0%	0%	0%	100%	12	100%
--	2182	4	50%	50%	0%	0%	0%	0%	0%	0%	2	50%
--	2183	2	50%	0%	0%	0%	0%	0%	0%	50%	1	50%

Source: U.S. Census Bureau 2010, Summary File 1, Table P9

Note:

Census blocks associated with the locations of the residential displacements in the Colonial Hills neighborhood are **bolded**.

The latest Census data has been utilized to obtain socioeconomic data. The 2010 Census data is used to obtain population counts and basic characteristics, while the Census Bureau's ACS 2007–2011 5-year estimate data is used to obtain demographic, social, economic and housing characteristics.

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1 **Table 5-16** shows the median household income characteristics of the 18 Census block groups in the
 2 project area. Of the 18 Census block groups, 13 Census block groups contain populations whose median
 3 household incomes are less than the HHS 2013 poverty guideline of \$23,550 for a four-person family.
 4 Therefore, low-income populations exist in the project area.

5
 6 **TABLE 5-16. CENSUS BLOCK GROUP MEDIAN HOUSEHOLD INCOME**

Census Geography	Median Household Income in the Past 12 Months (in 2011 inflation-adjusted dollars) ¹	Total Households ²	Poverty Status in the Past 12 Months by Household (%) ²
Block Group 1, Census Tract 34	\$16,371	300	37%
Block Group 2, Census Tract 34	\$26,250	334	32%
Block Group 2, Census Tract 37	\$18,699	375	32%
Block Group 3, Census Tract 37	\$25,926	260	17%
Block Group 4, Census Tract 37	\$12,273	190	56%
Block Group 1, Census Tract 38	\$17,438	281	37%
Block Group 3, Census Tract 38	\$11,354	117	44%
Block Group 1, Census Tract 39.02	\$18,828	176	32%
Block Group 2, Census Tract 39.02	\$21,635	545	32%
Block Group 1, Census Tract 40	\$22,390	173	29%
Block Group 2, Census Tract 40	\$28,750	192	18%
Block Group 1, Census Tract 86.03	\$22,647	312	46%
Block Group 3, Census Tract 115	\$18,636	130	35%
Block Group 4, Census Tract 115	\$10,893	202	68%
Block Group 1, Census Tract 203	\$31,458	155	28%
Block Group 2, Census Tract 203	\$14,005	582	48%
Block Group 3, Census Tract 203	\$13,082	409	53%
Block Group 2, Census Tract 204	\$43,355	641	16%
Sources:			
1. U.S. Census Bureau ACS 2007-2011 5-year estimates, Table B19013			
2. U.S. Census Bureau ACS 2007-2011 5-year estimates, Table B17017			
Notes: Census block groups that have populations whose median household incomes are less than the HHS 2013 poverty guideline of \$23,550 for a four-person family are bolded .			

7
 8 Transient Population

9 During field work in April 2011, what appeared to be transient/homeless make-shift camp was observed
 10 under the northbound mainlanes of IH 45 just east of the railroad. Based on the temporary shelters, it
 11 appeared that approximately 10 people could find shelter at this location. Chained dogs were present,
 12 but no people were observed.

Potential Impacts to EJ Populations

Section 5.2.14 summarizes the community impact assessment for this project. Since the project area is has a predominately minority population with sizeable low-income, both impacts and benefits of the proposed project discussed in **Section 5.2.14** would be borne by EJ populations. Therefore, an analysis of disproportionate impacts and mitigation strategies for this vulnerable population are described below.

Potential Disproportionate Impacts to EJ Populations

Based on the definition of ‘adverse effect’ previously discussed, displacements from the proposed project are considered to be adverse impacts, and these adverse effects would predominately be borne by a minority population and/or a low-income population. Also, these impacts would be suffered by the minority population and/or low-income population and are appreciably more severe or greater in magnitude than the adverse effect that would be suffered by the nonminority population and/or non-low-income population. This is due to the location of the existing roadway being within a predominant EJ community. Therefore, there would be adverse disproportionate impacts to EJ populations associated with the proposed project. However, the same EJ populations that would be adversely affected would benefit from the mitigation commitments for these impacts, as well as, the proposed roadway improvements to improve safety, operations, connectivity, and mobility. As a result of these measures, disproportionate impacts are not considered high.

Proposed Mitigation Strategies

Any potential adverse impacts on EJ populations would be offset in part by project related benefits and mitigation efforts as described below.

Community Outreach

Based upon the EJ community within the project area, extensive public outreach and mitigation measures have been incorporated into the project development process. To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process, efforts have been made to include all affected communities and populations, including potential minority and low income populations. Steps have been taken to ensure that all applicable persons have access to the programs, services, and information TxDOT provides. Various stakeholder work group meetings and general project meetings have occurred regarding the proposed SM Wright Parkway, as well as, three Public Meetings (**Section 2.6**). A proactive public involvement program will continue for the proposed project and all populations affected will have a continuing opportunity to participate in the development of the project, in accordance with applicable federal and state laws.

1 LEP Populations

2 Steps have been and would continue to be taken to ensure that LEP populations have access to the
3 programs, services, and information TxDOT provides (see **Sections 2.6** and **5.2.8**).

4

5 Relocations and Displacements

6 As discussed in **Section 5.2.5**, residential and business displacement are associated with the proposed
7 project. EJ populations are anticipated to be impacted by these displacements. TxDOT is committed to
8 coordinate available programs provided by Workforce Solutions to those employees affected by the
9 businesses potentially displaced as a result of the proposed project at the Public Hearing. The Workforce
10 Development Manager and appropriate staff will attend the Public Hearing for the proposed project to
11 answer questions or present services information on behalf of Workforce Solutions (see **Section 5.2.5**
12 and **Section 8.0**). EJ populations would benefit through relocation benefits for businesses, residential
13 home owners, and tenants. Displaced businesses and dislocated workers would benefit from Workforce
14 Solutions programs.

15

16 Local services, such as, The Bridge are available to provide homeless/transient populations within the
17 project corridor options for shelter both in the immediate future as well as the construction phase of this
18 project. TxDOT is committed to contacting The Bridge and working with the City of Dallas Police
19 Department in the event homeless/transient populations are within the immediate work area at the time of
20 construction.

21

22 Opened in May 2008, The Bridge is dedicated to serving homeless individuals, with the primary focus
23 being the chronically homeless. Based on a unique Public-Private Partnership, the funds for construction
24 were generated through a \$23.8 million City Bond Program passed in 2005. The annual budget is
25 uniquely funded through public funds and private donations. Services at The Bridge are managed
26 through a private, non-profit organization, Metro Dallas Homeless Alliance. Nineteen Metro Dallas
27 Homeless Alliance (MDHA) organizations collaborate to provide services at The Bridge. The Bridge is a
28 unique multi-service campus providing a continuum of care developed to engage people experiencing
29 long-term homelessness in both emergency care and housing and transitional care and housing, in one
30 location. Transitional services are available to people residing at The Bridge as well as to people residing
31 in emergency housing throughout the Dallas area. Fifty-two MDHA organizations collaborate to provide
32 outplacements into transitional, permanent, and permanent supportive housing for people experiencing
33 homelessness accessing services at The Bridge.

1 Community Cohesion

2 This proposed project offers a much needed and desired enhancement for the local community with
3 regard to improved community cohesion. EJ populations would benefit from improved safety, operability,
4 connections, and mobility.

5

6 Aesthetic Considerations

7 Due to the proximity of the NRHP-listed neighborhoods adjacent to the proposed SM Wright Parkway,
8 efforts would be made to preserve the historic character of the adjacent neighborhood. The proposed
9 improvements are not anticipated to change the aesthetic character of the surrounding communities.
10 Aesthetic structural and landscape design considerations would be incorporated during final project
11 design Plans, Specifications, and Estimates as described in **Section 5.2.11**.

12

13 Noise

14 The proposed project would result in a traffic noise impact. Sixteen noise barriers would be feasible and
15 reasonable for a total of 136 benefited receivers.

16

17 **Conclusion**

18 Commitments have been made to mitigate for disproportionately adverse impacts on minority and/or
19 low-income populations to prevent the denial of, reduction in, or significant delay in the receipt of
20 benefits by minority and low-income populations. Therefore, the requirements of applicable laws
21 and regulations appear to be satisfied.

22

23 **5.2.10 Public Facilities and Services**

24

25 **No-Build Alternative**

26 Implementation of the No-Build Alternative would not adversely affect any public facilities or services;
27 however, the No-Build Alternative would not improve mobility to access these facilities and services.

28

29 **Build Alternative**

30 **Table 5-17** lists public facilities identified within the municipalities encompassing the proposed
31 project. There are six health care facilities, five civil service facilities, one library, two senior living centers,
32 13 schools, 76 worship centers, one cultural center, one municipal building, and 13 parks located within
33 and around the vicinity of the project area.

TABLE 5-17. PUBLIC FACILITIES LOCATED WITHIN AND IN THE VICINITY OF THE PROJECT AREA

FACILITY	PROPERTY ADDRESS
Health Care	
Peabody Health Care Center	1906 Peabody Avenue, Dallas, TX 75215
Hirsch Clinic	1902 Martin Luther King Junior Boulevard, Dallas, TX 75215
Senior Care Health & Rehab	2815 Martin Luther King Junior Boulevard, Dallas, TX 75215
Baylor Senior Center	2835 Grand Avenue, Dallas, TX 75215
City of Dallas: Martin Luther King Jr. Health Center	2922 Martin Luther King Junior Boulevard, Dallas, TX 75215
South Dallas Community Medical and Health	2929 Martin Luther King Junior Boulevard, Dallas, TX 75215
Civil Service	
Dallas Police Department	6500 Bexar Street, Dallas, TX, 75215
DART Transit Police	3021 Oak Lane, Dallas, TX 75226
Dallas Police Association Office	1412 Griffin Street East, Dallas, TX 75215
Dallas Police Department	1400 South Lamar Street, Dallas, TX 75215
Dallas City Fire Station, Number 6	2808 Harwood/1902 Park Row, Dallas, TX 75215
Library	
Martin Luther King Junior Library	2922 Martin Luther King Junior Boulevard, Dallas, TX 75215
Senior Living	
South Dallas Nursing Home	3808 South Central Expressway, Dallas, TX, 75215
Bridge at Fair Park – Senior Day Care Center	2535 Martin Luther King Junior Boulevard, Dallas, TX 75215
School	
HS Thompson Learning Center	5700 Bexar Street, Dallas, TX, 75215
St. Philips Episcopal School	1600 Pennsylvania Avenue, Dallas, TX, 75215
Charles Rice Elementary School	2425 Pine Street, Dallas, TX, 75215
Martin Luther King Elementary School	1817 Warren Avenue, Dallas, TX, 75215
Dallas Bethlehem Center – Kindergarten School	4410 Leland Avenue, Dallas, TX 75215
J P Starks Elementary School	3033 Tips Boulevard, Dallas, TX , 75215
City Park Elementary School	1738 Gano Street, Dallas, TX, 75215
Lamar School	1403 Corinth Street, Dallas, TX 75215
Cornerstone Crossroads Academy	2711 South Ervay Street, Dallas, TX 75215
Lincoln High School	5000 Malcolm X Boulevard, Dallas, TX 75215
St. Anthony School	3732 Myrtle Street, Dallas, TX, 75215
Phyllis Wheatley Elementary	2908 Metropolitan Avenue, Dallas, TX 75215
DISD Facility Services Center	3701 S. Lamar, Dallas, TX 75215
Worship	
The Lord's Missionary Baptist Church	6722 Bexar Street, Dallas, TX, 75215
Mount Eria Baptist Church	Municipal Street/Myrtle Street SE Corner, Dallas, TX, 75215
Grand Central Missionary Baptist Church	2620 Rochester Street, Dallas, TX 75215
Mohammed Mosque	2429 Martin Luther King Junior Boulevard, Dallas, TX 75215
Bread of Life primitive Baptist Church	Valentine Street/Bexar Street, Dallas, TX, 75215
Evangelist Temple Church	2627 Dorris Street, Dallas, TX 75215
True Light Missionary Baptist Church	2314 Dyson Street, Dallas, TX 75215
Christ's Willing Workers Baptist	2213 Lowery Street, Dallas, TX 75215
Church of the Living God	2414 Bethurum Avenue, Dallas, TX 75215
Anointed Fellowship Church	2529 Bethurum Avenue, Dallas, TX 75215
Mosley Chapel CME Church	2246 Anderson Street, Dallas, TX 75215
Morning Star Baptist Church	2662 Anderson Street, Dallas, TX 75215
Harding Street Baptist Church	2238 Harding Street, Dallas, TX 75215

TABLE 5-17. PUBLIC FACILITIES LOCATED WITHIN AND IN THE VICINITY OF THE PROJECT AREA

FACILITY	PROPERTY ADDRESS
New Galilee Baptist Church	2601 Starks Avenue, Dallas, TX 75215
Rhodes Terrace Bible Fellowship	2427 Macon Street, Dallas, TX 75215
Friendly Church of God in Christ	2510 Ghent Street, Dallas, TX 75215
Willow Grove Baptist Church	5040 Marne Street, Dallas, TX 75215
Love Chapel Baptist Church	2727 Brigham Lane, Dallas, TX 75215
Trinity Missionary Baptist Church	2635 Brigham Lane, Dallas, TX 75215
Body Of Christ Assembly	5001 Crozier Street, Dallas, TX 75215
Freeman Chapel Primitive Baptist	4911 Wanda Street, Dallas, TX 75215
New Hope Baptist Church	5002 South Central Expressway, Dallas, TX 75215
Rose of Sharon Baptist Church	2251 Lawrence Street, Dallas, TX 75215
New Mt. Moriah Baptist Church	2735 Marder Street, Dallas, TX 75215
Full Gospel Pentecostal Church	2601 Stephenson Drive, Dallas, TX 75215
Church of Christ	2600 Lawrence Street, Dallas, TX 75215
Third Ave Baptist Church	2408 Hatcher Street, Dallas, TX 75215
New Horizon Missionary Baptist Church	2407 Warren Avenue, Dallas, TX 75215
St James Church - God in Christ	2230 Greer Street, Dallas, TX 75215
Greater New Zion Baptist Church	2210 Pine Street, Dallas, TX 75215
Meadow Hill Baptist Church	2922 Marburg Street, Dallas, TX 75215
Oak Hill Baptist Church	4440 Malcolm X Boulevard, Dallas, TX 75215
Baldwin Chapel Church of God	4430 Crozier Street, Dallas, TX 75215
Triumph the Church of God	2314 Greer Street, Dallas, TX 75215
St Paul's Baptist Church	1600 Pear Street, Dallas, TX 75215
Salem Institutional Baptist Church	3918 Crozier Street, Dallas, TX 75215
Romine Avenue Christian Church	2302 Romine Avenue, Dallas, TX 75215
Greater New Bethel Baptist Church	3817 Malcolm X Boulevard, Dallas, TX 75215
Avenue Baptist Church	3745 Dildock Street, Dallas, TX 75215
St Paul AME Church	2420 Metropolitan Avenue, Dallas, TX 75215
Opportunity Church of God and Christ	Malcolm X Boulevard, Dallas TX 75215
St. Mathew Baptist Church	2600 Warren Avenue, Dallas, TX 75215
St. Anthony's Church	2711 Romine Avenue, Dallas, TX 75215
Sunlight Missionary Baptist	2308 Cooper Drive, Dallas, TX 75215
Pleasant Grove Baptist Church	3711 Malcolm X Boulevard, Dallas, TX 75215
Greater St John Baptist Church	3633 Atlanta Street, Dallas, TX 75215
New Friendship Missionary Baptist	2419 Metropolitan Avenue, Dallas, TX, 75215
Mount Moriah Missionary Baptist Church	3611 Latimer Street, Dallas, TX 75215
Ideal Christian Center	3501 Malcolm X Boulevard, Dallas, TX 75215
Haynes Chapel Church of God	3605 Ruskin Street, Dallas, TX 75215
Greater St Luke Missionary	2530 Lenway Street, Dallas, TX 75215
Warren Avenue Christian Church	2431 Warren Avenue, Dallas, TX 75215
Olivet Missionary Baptist	2702 Warren Avenue, Dallas, TX 75215
In His Image Church	1719 Pine Street, Dallas, TX 75215
God House of Worship	2939 Lenway Street, Dallas, TX 75215
Mt Carmel Church of God	3122 Metropolitan Avenue, Dallas, TX 75215
Wheatley Church of God	3118 Metropolitan Avenue, Dallas, TX 75215
Greater Calvary Baptist Church	3733 Myrtle Street, Dallas, TX 75215
Memorial Baptist Church	2312 J B Jackson Junior Boulevard, Dallas, TX 75210

TABLE 5-17. PUBLIC FACILITIES LOCATED WITHIN AND IN THE VICINITY OF THE PROJECT AREA

FACILITY	PROPERTY ADDRESS
Praise Temple	2409 Pennsylvania Avenue, Dallas, TX 75215
Forest Avenue Baptist Church	2502 Martin Luther King Junior Boulevard, Dallas, TX 75215
Warren United Methodist Church	3028 Malcolm X Boulevard, Dallas, TX 75215
Spirit of Hope Primitive Baptist Church	Warren Avenue, Dallas, TX 75215
Israel of God	2903 Martin Luther King Junior Boulevard, Dallas, TX 75215
Church of the Lord Jesus	3015 Malcolm X Boulevard, Dallas, TX 75215
Mt Olive Lutheran Church	3100 Martin Luther King Junior Boulevard, Dallas, TX 75215
Faith Cumberland Presbyterian	2903 Grand Avenue, Dallas, TX 75215
Church of Christ	3220 Park Row Avenue, Dallas, TX 75210
Wayside Missionary Baptist Church	1518 Beaumont Street, Dallas, TX 75215
Gethsemane Church	1823 Richardson Avenue, Dallas, TX 75215
Good Shepherd Primitive Baptist	1833 Richardson Avenue, Dallas, TX 75215
Dallas Masjid Of al-Islam	2604 South Harwood Street, Dallas, TX 75215
Cornerstone Baptist Church	1819 Martin Luther King Junior Boulevard, Dallas, TX 75215
Joy Tabernacle AME Church	3203 Holmes Street, Dallas, TX 75215
New Faith Missionary Baptist Church	3400 Holmes Street, Dallas, TX 75215
Damascus Missionary Baptist Church	3600 Cleveland Street, Dallas, TX 75215
Cultural	
City of Dallas: Juanita Craft Civil Rights House	2618 Warren Avenue, Dallas, TX 75215
Municipal	
City of Dallas: Housing Authority of Park Manor	3333 Edgewood Street, Dallas, TX 75215
Park	
Rhoads Terrace Park	East of Municipal St./ South of C R Hawn Fwy, Dallas, TX, 75215
Exline Park	North Corner of Pine Street/Latimer Street, Dallas, TX, 75215
William Blair, Jr. Park (formerly Rochester Park)	3000 Municipal Street, Dallas, Texas 75215
Lagow Park	3322 Reed Lane, Dallas, TX 75215
Moore Park	East 8 th Street/Rockefeller, Dallas, TX, 75215
Opportunity Park	Roberts Avenue/Rutledge Street, Dallas, TX, 75215
Nelson Park	Cason Street/Hatcher Street, Dallas, TX, 75215
Sargent Park	East Overton Road/Sargent Road, Dallas, TX, 75215
Robert Oren Park	East Overton Road/Sargent Road, Dallas, TX, 75215
Trinity Greenbelt Park	IH 35E/South Riverfront Boulevard, Dallas, TX, 75215
Wheatley Park	McDermott Avenue/Havana Street, Dallas, TX, 75215
Old City Park	S Harwood Street/Beaumont Street, Dallas, TX, 75215
Dallas Heritage Village	S Harwood Street/Gano Street, Dallas, TX, 75215
Source: http://www.google.com (May 2011 and January 2012); Field reconnaissance (April 2010).	
Note – These public facilities are located within less than 0.5 mile from the proposed project.	

- 1
- 2 The proposed project would improve mobility to access the facilities and services listed in **Table 5-**
- 3 **17**. Implementation of the proposed SM Wright project would not displace any of the facilities listed in
- 4 **Table 5-17**.

5.2.11 Aesthetic Considerations

No-Build Alternative

Aesthetic impacts are not anticipated under the No-Build Alternative.

Build Alternative

As previously discussed, the proposed project would include improvements to the existing SM Wright Freeway/US 175, from IH 45 to north of Budd Street; to the CF Hawn Freeway (US 175) from east of Bexar Street to IH 45; and the construction of a new interchange with IH 45 and the widening/restriping of IH 45 from south of Lamar Street to the SM Wright Freeway/US 175. The visual landscape near the proposed project area is characterized by a combination of urban land uses including: existing roadways, commercial, industrial, institutional, residential developments, and vacant land.

The SM Wright Freeway portion of the proposed project involves the downsizing the existing SM Wright Freeway facility to a six-lane urban arterial facility, known as the SM Wright Parkway. There are two NRHP-listed historic districts, the Colonial Hill Historic District and the South Boulevard-Park Row Historic District, located adjacent to the existing SM Wright Freeway (US 175) (see **Section 5.3.1** for additional information). As this portion of the project area is located within a known NRHP-listed historic district, it is important to enhance the aesthetics of the facility while preserving the historic character of the adjacent neighborhood. Various stakeholder work group meetings, public meetings, and general project meetings have occurred regarding the potential aesthetics for the proposed SM Wright Parkway (**Section 2.6**). Aesthetic design guidelines have been developed based on coordination with various project stakeholders, which resulted in the proposed SM Wright Parkway – Landscape and Aesthetic Concept Plan.

In detail, The SM Wright Parkway – Landscape and Aesthetic Concept Plan includes enhanced landscape plantings along the streetscape and at key intersections would provide an inviting environment for pedestrian and motorists. Aesthetically pleasing, native and adaptive plants have been selected to promote low water requirements and minimal maintenance needs. Visibility clearances would be maintained to meet TxDOT and City of Dallas standards. The potential landscaping plants include the following:

- Trees: Bald Cypress, Live Oak, Shumard Oak, Cedar Elm
- Ornamental Trees: Texas Redbud, Desert Willow, Southern Wax Myrtle, Possumhaw, Yaupon Holly, Afghan Pine, Cherry Laurel, Savannah Holly
- Shrubs: Texas Sage, Tam Juniper, Abelia, Red Yucca
- Ornamental Grass: Adagio Miscanthus, Mexican Feather Grass, Gulf Muhly, Indian Grass
- Perennials: Plumbago, Gregg's Salvia, Russian Sage, Lantana
- Turf Grass: Buffalograss, Bermuda Grass, Annual Rye Grass

1 Various sizes of gateway monuments would also be included throughout the corridor. The largest type,
2 corridor gateway monuments, would be located off MLK Jr. Boulevard to the north and the connection to
3 CF Hawn Freeway to the south. These large monuments would range in height from 40 to 60 feet and
4 would create bookends to the corridor. Smaller neighborhood monuments would be located at the
5 intersections of Hatcher St., Pine St., Metropolitan Ave., and Pennsylvania Ave. At 20 to 30 feet tall,
6 these would serve as iconic identity markers for each neighborhood. The smallest monuments are trail
7 gateway monuments. These are pedestrian scale and range in height from 7 to 10 feet. The design of
8 each monument is representative of the historic character of the adjacent neighborhoods and would
9 promote a sense of pride and ownership in the community.

10
11 The proposed design would be consistent with the City of Dallas' 2005 Trails Master Plan and the 2011
12 Dallas Bike Plan. The project would include multi-use hike and bike trails located on both sides of the
13 roadway within the landscaped parkway of the proposed SM Wright Parkway. All multi-use trails would
14 be 12 feet wide and designed to meet current AASHTO trail design standards. Not only will this serve
15 pedestrians but it will also serve as a subsidiary bike path to the shared bike lane provided within the
16 outside lane of the roadway facility This project would also include on-street bike facilities that would be
17 accommodated by 16-foot (14-foot and 2-foot shoulder) wide outside vehicular travel lanes. The design
18 speed for SM Wright Parkway is 35 mph to promote low speed vehicular operation and facilitate safe
19 bicycle and vehicular integration in the outside lane.

20
21 The proposed design would be compliant with the Americans with Disabilities Act (ADA) Accessibility
22 Guidelines as well as the Manual on Uniform Traffic Control Devices (MUTCD). Additionally, stamped
23 concrete, brick and/or concrete pavers would be utilized to help delineate pedestrian access across busy
24 streets. Intersections would be highlighted with hardscape to alert drivers of pedestrian crossings, the
25 design would emphasize the neighborhood gateways. Pedestrian crossings would include ADA
26 accessible ramps in compliance with the Texas Accessibility Standards including detectable warning
27 surfacing, audible alert systems, and rapid flash vehicular warning signage.

28
29 Along the CF Hawn Freeway and IH 45 portions of the proposed project, the aesthetic character of the
30 communities is not anticipated to noticeably change because the proposed project consists of
31 improvements to existing roadways and interchanges. Further, the proposed project is in compliance with
32 local development plans. Aesthetic design guidelines that would apply to the mainlanes and cross street
33 bridges of the proposed project are also being developed. Aesthetic treatments for structural components
34 (retaining walls, bridges, etc.) and landscaping would be incorporated into the proposed project during
35 final design, and stakeholder input would be considered during this design process so as to minimize the
36 potential for aesthetic impacts. Additional aesthetic design concepts would be dependent on additional
37 funding from local governments, interest groups, and organizations. Finally, the SM Wright Parkway –

1 Landscape and Aesthetic Concept Plan presumes a continuance of the aesthetic contribution made by
2 the dozens of large (frequently 20 to 30 inches dbh) live oak trees lining SM Wright Freeway. As
3 discussed in **Section 5.1.5**, these large trees are generally just outside the proposed project's
4 construction footprint and final design planning for the removal of existing frontage road pavement would
5 consider the close proximity of these trees to avoid damage to them. Every effort would be made to
6 preserve trees within the ROW and other areas where they neither compromise safety nor substantially
7 interfere with the project's construction.

8 9 **5.2.12 Noise**

10 11 **No-Build Alternative**

12 Highway traffic is the dominant source of noise in developed areas adjacent to the proposed SM Wright
13 project. The predicted increase in future traffic volumes on US 175 (SM Wright Freeway and CF Hawn
14 Freeway), SH 310, and IH 45 would likely increase future ambient noise levels.

15 16 **Build Alternative**

17 This analysis was accomplished in accordance with TxDOT's (FHWA approved) April 2011 Guidelines for
18 Analysis and Abatement of Roadway Traffic Noise.

19
20 Sound from highway traffic is generated primarily from a vehicle's tires, engine and exhaust. It is
21 commonly measured in decibels and is expressed as "dB."

22
23 Sound occurs over a wide range of frequencies. However, not all frequencies are detectable by the
24 human ear; therefore, an adjustment is made to the high and low frequencies to approximate the way an
25 average person hears traffic sounds. This adjustment is called A-weighting and is expressed as "dB(A)."

26
27 Also, because traffic sound levels are never constant due to the changing number, type and speed of
28 vehicles, a single value is used to represent the average or equivalent sound level and is expressed as
29 "Leq." The traffic noise analysis typically includes the following elements:

- 30 • Identification of land use activity areas that might be impacted by traffic noise.
- 31 • Determination of existing noise levels.
- 32 • Prediction of future noise levels.
- 33 • Identification of possible noise impacts.
- 34 • Consideration and evaluation of measures to reduce noise impacts.

1 The FHWA has established the following Noise Abatement Criteria (NAC) (**Table 5-18**) for various land
 2 use activity areas that are used as one of two means to determine when a traffic noise impact would
 3 occur.

4

5

TABLE 5-18. NOISE ABATEMENT CRITERIA

Activity Category	FHWA dB(A) Leq	Description of Land Use Activity Areas
A	57 (exterior)	Lands on which serenity and quiet are of extra-ordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B	67 (exterior)	Residential.
C	67 (exterior)	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.
D	52 (interior)	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E	72 (exterior)	Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in A-D or F.
F	--	Agricultural, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G	--	Undeveloped lands that are not permitted.

6

7 A noise impact occurs when either the absolute or relative criterion is met:

8

9 Absolute criterion: the predicted noise level at a receiver approaches, equals or exceeds the NAC.
 10 “Approach” is defined as one dB(A) below the NAC. For example: a noise impact would occur at a
 11 Category B residence if the noise level is predicted to be 66 dB(A) or above.

12

13 Relative criterion: the predicted noise level substantially exceeds the existing noise level at a receiver
 14 even though the predicted noise level does not approach, equal or exceed the NAC. “Substantially
 15 exceeds” is defined as more than 10 dB(A). For example: a noise impact would occur at a Category B
 16 residence if the existing level is 54 dB(A) and the predicted level is 65 dB(A).

17

18 When a traffic noise impact occurs, noise abatement measures must be considered. A noise abatement
 19 measure is any positive action taken to reduce the impact of traffic noise on an activity area.

20

21 The FHWA traffic noise modeling software was used to calculate existing and predicted traffic noise
 22 levels. The model primarily considers the number, type and speed of vehicles; highway alignment and
 23 grade; cuts, fills and natural berms; surrounding terrain features; and the locations of activity areas likely
 24 to be impacted by the associated traffic noise.

- 1 Existing and predicted traffic noise levels were modeled at receiver locations (**Table 5-19** and **Appendix**
 2 **C-10, Pages 1, 2, and 3**) that represent the land use activity areas adjacent to the proposed project that
 3 might be impacted by traffic noise and potentially benefit from feasible and reasonable noise abatement.
 4

TABLE 5-19. TRAFFIC NOISE LEVELS dB(A) LEQ

Representative Receiver	NAC Category	NAC Level	Existing	Predicted 2035	Change (+/-)	Noise Impact
CF Hawn Freeway (US 175) (Appendix C-10, page1)						
R1 residential	B	67	59	67	+8	Y
R2 residential	B	67	59	68	+9	Y
R3 residential	B	67	59	71	+12	Y
R4 residential	B	67	59	71	+12	Y
R5 residential	B	67	71	72	+1	Y
R6 residential	B	67	69	70	+1	Y
R7 residential	B	67	72	72	0	Y
R8 residential	B	67	67	68	+1	Y
R9 residential	B	67	72	71	-1	Y
R10 residential	B	67	72	71	-1	Y
R11 residential	B	67	73	71	-2	Y
R12 residential	B	67	72	72	0	Y
R13 residential	B	67	72	70	-2	Y
R14 residential	B	67	72	69	-3	Y
R15 residential	B	67	70	69	-1	Y
R16 residential	B	67	62	65	+3	N
R17 Future Dallas Police Station	F	--	68	71	+3	--
R18 residential	B	67	69	70	+1	Y
R19 residential	B	67	66	69	+3	Y
R20 Thompson Learning Center	C	67	64	65	+1	N
R21 residential	B	67	69	69	+0	Y
R22 residential	B	67	66	67	+1	Y
R23 residential	B	67	63	67	+4	Y
R24 residential	B	67	63	66	+3	Y
R25 residential	B	67	62	65	+3	N
SM Wright Freeway (US 175/SH 310) (Appendix C-10, page 2)						
R1 residential	B	67	67	60	-7	N
R2 church	D	52	67	62	-5	N
R3 residential	B	67	67	64	-3	N
R4 residential	B	67	67	62	-5	N
R5 zoned commercial	F	--	66	66	-0	--
R6 residential	B	67	70	67	-3	Y
R7 residential	B	67	75	65	-10	N
R8 residential	B	67	72	67	-5	Y
R9 restaurant bar	E	72	74	64	-10	N
R10 church playground	C	67	73	64	-9	N
R10A church interior	D	52	48	39	-9	N
R11 residential	B	67	72	63	-9	N
R12 residential	B	67	73	63	-10	N
R13 church	D	52	46	40	-6	N
R14 residential	B	67	71	65	-6	N
R15 residential	B	67	71	63	-8	N
R16 residential	B	67	75	63	-12	N
R17 residential	B	67	75	64	-11	N
R18 residential	B	67	74	64	-10	N
R19 residential	B	67	74	63	-11	N
R20 residential	B	67	71	65	-6	N
R21 church	D	52	47	44	-3	N

TABLE 5-19. TRAFFIC NOISE LEVELS dB(A) LEQ

Representative Receiver	NAC Category	NAC Level	Existing	Predicted 2035	Change (+/-)	Noise Impact
R22 residential	B	67	73	65	-8	N
R23 residential	B	67	74	63	-11	N
R24 church	D	52	75	64	-11	N
R25 residential	B	67	75	64	-11	N
R26 residential	B	67	76	63	-13	N
R27 nursing home	D	52	51	41	-10	N
R28 residential	B	67	72	63	-9	N
R29 residential	B	67	70	64	-6	N
R30 residential	B	67	71	64	-7	N
R31 residential	B	67	72	64	-7	N
R32 residential	B	67	71	62	-9	N
R33 residential apartment	B	67	74	61	-13	N
R34 residential	B	67	75	64	-11	N
R35 residential	B	67	74	62	-12	N
R36 residential	B	67	76	64	-12	N
R37 residential	B	67	74	64	-10	N
R38 residential	B	67	70	64	-6	N
R39 Kimble Park	C	67	71	60	-11	N
R40 residential	B	67	72	65	-7	N
R41 residential	B	67	71	64	-7	N
R42 Peabody Health Center	D	52	44	36	-8	N
IH 45 (Appendix C-10, page 3)						
R1 residential	B	67	68	69	+1	Y
R2 residential	B	67	69	73	+4	Y
R3 residential	B	67	72	77	+5	Y
R4 residential	B	67	74	77	+3	Y
R5 residential duplex	B	67	73	75	+2	Y
R6 residential	B	67	75	78	+3	Y
R7 residential	B	67	74	76	+2	Y
R8 residential apartment	B	67	76	78	+2	Y
R9 residential duplex	B	67	72	75	+3	Y
R10 residential	B	67	72	72	0	Y
R11 residential	B	67	69	71	+2	Y
R12 residential apartment	B	67	69	73	+4	Y
R13 duplex	B	67	70	72	+2	Y
R14 school	D	52	43	45	+2	N
R15 duplex	B	67	69	71	+2	Y
R16 residential	B	67	69	71	+2	Y
R17 church	D	52	45	47	+2	N
R18 fire station	F	--	73	75	+2	--
R19 church	D	52	44	46	+2	N

1
2 As indicated in **Table 5-19**, the proposed project would result in a traffic noise impact and the following
3 noise abatement measures were considered: traffic management, alteration of horizontal and/or vertical
4 alignments, acquisition of undeveloped property to act as a buffer zone and the construction of noise
5 barriers.

6
7 Before any abatement measure can be proposed for incorporation into the project, it must be both
8 feasible and reasonable. In order to be "feasible," the abatement measure must be able to reduce the
9 noise level at greater than 50% of impacted, first row receivers by at least five dB(A); and to be

1 “reasonable,” it must not exceed the cost-effectiveness criterion of \$25,000 for each receiver that would
2 benefit by a reduction of at least five dB(A) and the abatement measure must be able to reduce the noise
3 level at least one impacted, first row receiver by at least seven dB(A).

4
5 Traffic management: control devices could be used to reduce the speed of the traffic; however, the minor
6 benefit of one dBA per five mph reduction in speed does not outweigh the associated increase in
7 congestion and air pollution. Other measures such as time or use restrictions for certain vehicles are
8 prohibited on state highways.

9
10 Alteration of horizontal and/or vertical alignments: any alteration of the existing alignment would displace
11 existing businesses and residences, require additional ROW and not be cost effective/reasonable.

12
13 Buffer zone: the acquisition of undeveloped property to act as a buffer zone is designed to avoid rather
14 than abate traffic noise impacts and, therefore, is not feasible.

15
16 Noise barriers: this is the most commonly used noise abatement measure. Noise barriers were evaluated
17 for each of the impacted receiver locations.

18
19 Noise barriers would not be feasible and reasonable for any of the following impacted receivers and,
20 therefore, are not proposed for incorporation into the project:

21
22 ***SM Wright***

23 R8: This receiver represents an area of mixed use, with three residential properties and two
24 retail/commercial properties. The properties front Hohen Avenue, which is located between the receivers
25 and SM Wright. A continuous noise barrier along Hohen Avenue would restrict access to the residential
26 and retail/commercial properties. Gaps in the noise barrier would satisfy access requirements but the
27 resulting non-continuous barrier segments would not be sufficient to achieve the minimum, feasible
28 reduction of five dB(A) or the noise reduction design goal of seven dB(A).

29
30 ***IH 45***

31 R1 and R2: These receivers represent an area of mixed use. Five retail/commercial properties front the
32 IH 45 northbound frontage road. Two front-row residences and three second-row residential properties
33 front Holmes Street to the east. A continuous noise barrier along the frontage road (at ground level)
34 would restrict access to the retail/commercial properties. Gaps in the noise barrier would satisfy access
35 requirements but the resulting non-continuous noise barrier segments would not be sufficient to achieve
36 the minimum, feasible reduction of five dB(A) or the noise reduction design goal of seven dB(A).

R5: This receiver represents a residential structure surrounded on each side by retail/commercial properties. A continuous noise barrier would restrict access to these structures. Gaps in the noise barrier would satisfy access requirements but the resulting non-continuous barrier segments would not be sufficient to achieve the minimum, feasible reduction of five dB(A) or the noise reduction design goal of seven dB(A).

Summary

Noise barriers would be feasible and reasonable for the following impacted receivers and, therefore, are proposed for incorporation into the project as shown in **Table 5-20**.

TABLE 5-20. NOISE BARRIER PROPOSAL (PRELIMINARY)

Barrier	Representative Receivers	Total # Benefited	Length (feet)	Height (feet)	Total Cost	\$/Benefited Receiver
CF Hawn Barrier Proposal						
1	R1, R2, R6, R10	11	1620	8, 10, 12, 14, 16	\$331,920	\$30,175
2	R3, R4, R9, R12	17	1870	8, 10, 12, 14, 16	\$394,560	\$23,209
3	R5	4	380	10	\$68,400	\$17,100
4	R7, R8	7	860	12	\$185,760	\$26,537
5	R11, R14, R15	11	735	10, 12, 14, 16	\$187,200	\$17,018
6	R13	8	595	10, 12, 14, 16	\$140,400	\$17,550
7	R18, R21, R22	12	750	16	\$216,000	\$18,000
8	R19, R23, R24	12	725	16	\$208,800	\$17,400
Total CF Hawn		82	7535	n/a	\$1,733,040	\$21,135
IH 45 Barrier Proposal						
1 *	R1, R2, R3, R4, R6, R8	32	2030	8, 10, 12	\$408,680	\$12,803
2	R7, R9	8	730	12	\$157,680	\$19,710
3	R10, R11	4	270	14	\$68,040	\$17,010
4	R12	2	140	14	\$35,280	\$35,280
5			55	14	\$13,860	\$13,860
6	R13	4	270	18	\$87,480	\$21,870
7	R15	2	170	14	\$42,840	\$21,420
8	R16	2	190	14	\$47,880	\$23,940
Total IH 45		54	3855	n/a	\$862,740	\$15,977
Note: * Noise barrier located along ramp and elevated mainlanes						

Any subsequent project design changes may require a reevaluation of this preliminary noise barrier proposal. The final decision to construct the proposed noise barrier will not be made until completion of the project design, utility evaluation and polling of adjacent property owners.

To avoid noise impacts that may result from future development of properties adjacent to the project, local officials responsible for land use control programs must ensure, to the maximum extent possible, no new

1 activities are planned or constructed along or within the following predicted (2035) noise impact contours
 2 as shown in **Table 5-21**.

3 **TABLE 5-21. NOISE CONTOURS**

LAND USE	IMPACT CONTOUR	DISTANCE FROM ROW
CF HAWN		
NAC category B & C	66 dB(A)	400 feet
NAC category E	71 dB(A)	100 feet
SM WRIGHT		
NAC category B & C	66 dB(A)	60 feet
NAC category E	71 dB(A)	ROW
IH 45		
NAC category B & C	66 dB(A)	400 feet
NAC category E	71 dB(A)	100 feet

4
 5 **Construction Noise**

6 Noise associated with the construction of the project is difficult to predict. Heavy machinery, the major
 7 source of noise in construction, is constantly moving in unpredictable patterns. However, construction
 8 normally occurs during daylight hours when occasional loud noises are more tolerable. None of the
 9 receivers is expected to be exposed to construction noise for a long duration; therefore, any extended
 10 disruption of normal activities is not expected. Provisions will be included in the plans and specifications
 11 that require the contractor to make every reasonable effort to minimize construction noise through
 12 abatement measures such as work-hour controls and proper maintenance of muffler systems.

13
 14 A copy of this traffic noise analysis will be available to local officials. On the date of approval of this
 15 document (Date of Public Knowledge), FHWA and TxDOT are no longer responsible for providing noise
 16 abatement for new development adjacent to the project.

17
 18 **5.2.13 Traffic Operations**

19
 20 **No-Build Alternative and Build Alternative**

21 As described in **Section 2.2.1**, a traffic operations analysis performed for the proposed project design
 22 year (2035) determined that LOS would improve under the proposed Build Alternative as compared to the
 23 No-Build Alternative (see **Table 2-6**). Implementation of the No-Build Alternative would result in safety
 24 issues, increased congestion, and poor traffic flow.

25
 26 **5.2.14 Summary of Community Impact Assessment**

27
 28 The following is a summary of the community impact assessment for the proposed project:
 29

1 **Regional and Community Growth:** Forecasted regional and community growth and economic
2 conditions in the project area would benefit from the implementation of the proposed project. The
3 proposed reconstruction, which includes the downsizing for the SM Wright Freeway to a low speed urban
4 arterial, improvements to the CF Hawn Freeway (US 175) and the addition of DC ramps to IH 45, as well
5 as the construction of a new interchange with IH 45, would accommodate transportation needs by
6 improving safety, as well as, improving operations, connection, and mobility. In addition, the downgrading
7 of the SM Wright Freeway facility could assist with restoring connectivity within the surrounding
8 neighborhoods.

9
10 **Land Use, and 4(f) and 6(f) Properties:** Current land use would be impacted by the conversion of 32.4
11 acres to public transportation ROW. Local and regional land use planning efforts are not anticipated to be
12 substantially altered by this conversion to transportation ROW. The proposed project would require
13 approximately 0.9 acre of ROW from the DISD facility (former Procter and Gamble Manufacturing Plant)
14 addressed 3701 S. Lamar Street, which has been determined eligible for listing in the NRHP, at the local
15 level of significance. TxDOT anticipates that the proposed project would result in a *de minimis*
16 determination by the FHWA for the Section 4(f) resource. The parcels to be acquired as ROW for the
17 proposed project are not encumbered by Land and Water Conservation funds; therefore, consideration
18 under Section 6(f) is not required.

19
20 **Relocations and Displacements:** A total of 17 developed properties would involve the displacement of
21 structures as a result of the proposed ROW acquisition. These properties contain 24 structures, six
22 single-family residences (including car garages), nine commercial structures (including buildings and
23 canopies at gasoline service stations) and six billboards that would be displaced by the proposed project.
24 Four of the six displaced single-family residences and four of the 10 commercial properties have been
25 early acquired by the City of Dallas (see **Appendix C-11**). All property owners would receive just
26 compensation for their property and relocation assistance would be provided for all affected parties in
27 accordance with applicable state and federal requirements. All potential residential displacements and all
28 potential commercial displacements are located in the City of Dallas. Based on the results of
29 replacement residential and commercial property searches, there appear to be sufficient available
30 replacement properties to accommodate those residences and businesses potentially displaced by the
31 proposed project. Job relocation or loss could occur in association with the impacted businesses;
32 however, NCTCOG employment forecasts, which account for the cyclical nature of employment changes
33 (including economic recessions), predict future employment growth for Dallas (see **Section 5.2.4**) as this
34 municipality responds to increased demand spurred by forecasted population growth (see **Table 2-3**)
35 TxDOT is committed to coordinate available programs provided by Workforce Solutions to those
36 employees affected by the businesses potentially displaced as a result of the proposed project. The
37 Workforce Development Manager and appropriate staff will attend the Public Hearing for the proposed

1 project to answer questions or present services information on behalf of Workforce Solutions at the Public
2 Hearing (see **Section 5.2.5** and **Section 8.0**).

3
4 **Access:** An IAJ report was prepared for the proposed project and approved by FHWA in April 2012.
5 Implementation of the Build Alternative would require additional control of access areas relative to the No-
6 Build Alternative; however, alternative access routes to adjacent properties would be maintained.

7
8 **Community Cohesion:** Since neighborhoods represent a geographic unit that can be readily identified
9 by community members, a correlation of affected block groups to project area neighborhoods was used to
10 determine communities adjacent to the proposed project. All of the potential residential displacements
11 are located in one neighborhood or two Census block groups (40/1 and 40/2), which have a combined
12 population of 1,082 people. The loss of six residential properties from the neighborhood is unlikely to
13 negatively affect the overall cohesiveness and nature of this community. Potential communities were also
14 delineated according to elementary school attendance zones, as many social activities within a
15 community often center around elementary schools. All of the potential residential displacements (two
16 single-family homes) are located within one elementary school attendance zone comprised of
17 approximately 971 acres. It is not anticipated that the loss of two total residences within an attendance
18 zone of this size would negatively affect the overall cohesiveness and nature of the encompassing
19 communities. The downgrading of the SM Wright Freeway facility is expected to assist with restoring
20 connectivity within the surrounding neighborhoods.

21
22 **LEP:** Of the 11,596 persons within the block groups located within 0.25 mile of the proposed project,
23 approximately 7 percent of the population (776 persons) speaks English less than “very well.” Steps have
24 been and would continue to be taken to ensure that LEP populations have access to the programs,
25 services, and information TxDOT provides (see **Sections 2.6** and **5.2.8**).

26
27 **Environmental Justice:** Commitments have been made to mitigate for disproportionately adverse
28 impacts on minority and/or low-income populations to prevent the denial of, reduction in, or significant
29 delay in the receipt of benefits by minority and low-income populations. Therefore, the requirements of
30 applicable laws and regulations appear to be satisfied.

31
32 **Public Facilities and Services:** There are no public facility buildings that would be displaced by this
33 proposed project. In general, the proposed project would improve mobility to the facilities and services
34 within and near the project area.

35
36 **Aesthetic Considerations:** Due to the proximity of the NRHP-listed neighborhoods adjacent to the
37 proposed SM Wright Parkway, efforts would be made to preserve the historic character of the adjacent

1 neighborhood. The proposed improvements are not anticipated to change the aesthetic character of the
2 surrounding communities. Aesthetic structural and landscape design considerations would be
3 incorporated during final project design Plans, Specifications, and Estimates as described in
4 **Section 5.2.11**.

5
6 **Noise:** The proposed project would result in a traffic noise impact. Sixteen noise barriers would be
7 feasible and reasonable for a total of 136 benefited receivers (see **Table 5-19**). The total cost for the
8 barriers along CF Hawn would be \$1,733,040, a total of \$21,135 per benefited receiver and the total cost
9 for barriers along IH 45 would be \$862,740, a total of \$15,977 per benefitted receiver (see **Table 5-20**).
10 See **Appendix C-10** for noise receiver and proposed noise wall locations.

11
12 **Traffic Operations:** Compared to the No-Build Alternative, the Build Alternative results in improved
13 operations, connectivity, and mobility.

14 **5.3 Cultural Resources**

15 Cultural resources are structures, buildings, archeological sites, districts (a collection of related structures,
16 buildings, and/or archeological sites), cemeteries, and objects. Both federal and state laws require
17 consideration of cultural resources during project planning. At the federal level, NEPA and the National
18 Historic Preservation Act (NHPA) of 1966, among others, apply to transportation projects such as this
19 one. In addition, state laws such as the Antiquities Code of Texas apply to these projects. Compliance
20 with these laws often requires consultation with the Texas Historical Commission (THC)/ TSHPO and/or
21 federally recognized tribes to determine the project's effects on cultural resources. Review and
22 coordination of this project followed approved procedures for compliance with federal and state laws.
23

24 **5.3.1 Non-Archeological Historic Resources**

25 **No-Build Alternative**

26
27 Under the No-Build Alternative, additional ROW would not be acquired; therefore, no impacts to historic
28 resources are anticipated.
29

30 **Build Alternative**

31 A portion of the project area was surveyed between 2000 and 2009 as part of the proposed Trinity
32 Parkway Project (CSJ: 0918-45-121). For the proposed project, a reconnaissance-level survey and
33 associated fieldwork was conducted in 2010, with a cut-off date of 1968 for the identification of standing
34 historic-age structures. The 2010 survey was conducted in a variable APE, which extended to 150 feet
35 from the existing ROW along the SM Wright Freeway (US 175) and IH 45 project segments, and to 300
36 feet from the proposed ROW in the new location segment for the DCs from CF Hawn Freeway (US 175)
37

1 to IH 45. A site visit revealed that there are 585 historic-age resources on 465 sites (built prior to 1968),
2 located within the project APE. Additional information regarding specific historic-age resources within the
3 APE may be viewed in the Non-archeological Historic-Age Resource Reconnaissance Survey Report,
4 dated December 2011.⁵⁶

5
6 The record search revealed no previously recorded State Archeological Landmarks (SAL), Recorded
7 Texas Historic Landmarks (RTHL), or Official Texas Historical Markers (OTHM) within the APE. A review
8 of the NRHP indicated that there are two NRHP-listed historic districts within the APE, the Colonial Hill
9 Historic District and the South Boulevard-Park Row Historic District. TxDOT Historians determined and
10 THC concurred in January 2012 (**Appendix C-6, Pages 1-7**) that within the APE there is one property,
11 the Former Forest Theater, and one historic district, the Central Park Historic District, which are eligible
12 for inclusion in the NRHP. Upon further review, TxDOT Historians determined and THC concurred that
13 the proposed project would have no adverse effects to the two NRHP-listed districts, the NRHP-eligible
14 property, and/or the NRHP-eligible district within the proposed project APE. This information has been
15 coordinated with the City of Dallas Historic Preservation Officer, Preservation Dallas, as well as the Dallas
16 County Historical Commission.

17
18 Because of community input at the January 31, 2013 Public Hearing, TxDOT and the project team made
19 revisions to the proposed entrance and exit ramps on IH 45 at Lamar Street and Pennsylvania Avenue.
20 The design change required the southbound entrance ramp to IH 45 from Lamar to be moved further
21 west, and also required relocation of the existing McDonald Avenue intersection with Lamar Street. This
22 revision required acquisition of approximately one (1) acre of land at the DISD facility addressed 3701 S.
23 Lamar. The DISD facility, as identified in an earlier Trinity Parkway survey, was formerly a Procter and
24 Gamble Manufacturing Plant that has been determined eligible for listing in the NRHP under Criterion A
25 for its role in community and economic development, transportation, and industrial development; and
26 under Criterion C, Architecture, for its design/construction, both at the local level of significance. This
27 design refinement would require approximately one (1) acre of land from the property's 27.59 acre legal
28 parcel (approximately 3%), and would not displace any buildings on the property. The proposed ROW
29 acquisition would take a small part of the parking lot located on the northeast corner. On June 5, 2013,
30 TxDOT completed consultation on effects to this NRHP-eligible property with the SHPO under Section
31 106 of the NHPA. The coordination determined that the proposed project would have "No Adverse Effect
32 to the Eligible Former Procter and Gamble Manufacturing Plant" and the taking of approximately 0.9 acre
33 from the facility qualifies as a *de minimis* impact finding (**Appendix C-6, Pages 8-13**).

34

⁵⁶ Non-Archeological Historic-Age Resource Reconnaissance Survey Report; SM Wright, Dallas County, TxDOT, dated December 2011.

1 Pursuant to Stipulation VI “Undertakings with the Potential to Affect Historic Resources” of the First
2 Amended Programmatic Agreement Regarding the Implementation of Transportation Undertakings (PA-
3 TU) between the FHWA, the TSHPO, the Advisory Council on Historic Preservation, and the TxDOT and
4 the Memorandum of Understanding (MOU), TxDOT Historians have determined that the proposed action
5 will not adversely affect historic properties and that the proposed undertaking would have no reasonably
6 foreseeable adverse effects that may occur later in time, be farther removed in distance, or be
7 cumulative.

8 9 **5.3.2 Archeological Resources**

10 11 **No-Build Alternative**

12 Under the No-Build Alternative, additional ROW would not be acquired; therefore, no impacts to
13 archeological sites are anticipated.

14 15 **Build Alternative**

16 Since 2011, there have been revisions to the proposed project with additional areas of new proposed
17 ROW and easement. A project coordination request has been sent to TxDOT and coordination is
18 ongoing. Previous coordination conclusions are described below.

19
20 In July of 2011, an archeological background review report⁵⁷ was prepared for the proposed project. A
21 review was conducted through the online THC Historic Sites Atlas and the Archeological Sites Atlas for
22 NRHP properties, SALs, previously recorded archeological sites and surveys that have occurred within a
23 one-kilometer (.61 miles) radius of the APE. Additionally, Sanborn Fire Insurance maps from 1921 were
24 consulted to evaluate prior land use. The background study found that there are no previously recorded
25 archeological sites within the APE of the proposed project. There is some potential for historic period
26 archeological remains to be present in areas adjacent to some parts of the APE; however, the proposed
27 project would require no new ROW in those areas and all work would take place within the limits of the
28 existing pavement. The APE, including areas of proposed new ROW, was inspected by a TxDOT
29 archeologist and found to have low potential for archeological resources. Therefore, the background
30 study found that an archeological survey within the APE of the proposed undertaking is not warranted.

31
32 TxDOT archeologists completed their review of this project on November 29, 2011. It was determined
33 that the project will have no effect or no adverse effect on archeological sites or cemeteries that would be
34 afforded further consideration under cultural resource laws. No consultation with the THC/TSHPO was

⁵⁷ Archeological Background Review of IH 45 at US 175 to Lamar, and US 175 at IH 45 to SH 310, and US 175 at SH 310 to IH 45 in Dallas County, Texas; CSJs: 0093-01-052 and 09718-45-121, dated July 2011.

1 required. In addition, no public controversy exists regarding the project's potential impacts on
2 archeological sites or cemeteries.

3
4 Consultation with federally-recognized Native American tribes with a demonstrated historic interest in the
5 area was initiated and ended on January 23, 2012. No objections or expressions of concern were
6 received within the comment period.

7
8 In the event that unanticipated archeological deposits are encountered during construction, work in the
9 immediate area would cease, and TxDOT archeological staff would be contacted to initiate post-review
10 discovery procedures.

11 12 **5.4 Other Resources/Issues**

13 14 **5.4.1 Hazardous Materials**

15 16 **No-Build Alternative**

17 Under the No-Build Alternative, additional ROW would not be acquired; therefore, no impacts from
18 hazardous materials sites are anticipated.

19 20 **Build Alternative**

21 Based on the following project activities: proposed additional ROW acquisition and excavations
22 exceeding three feet; an Initial Site Assessment (ISA) was conducted to identify potential hazardous
23 materials in the project area. The ISA consisted of the following actions: land use review, regulatory
24 database search, and a site survey.

25
26 Pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
27 and the Resource Conservation and Recovery Act (RCRA), a preliminary investigation was conducted to
28 identify sites within the project area which are "at risk" of environmental contamination by hazardous
29 wastes and substances.

30
31 Sites considered likely to be contaminated and within the proposed ROW or sites which have the
32 potential to pose a hazard to construction of the proposed project are categorized as "high risk."
33 Examples of "high risk" sites include landfills, sites that have a subsurface plume of contamination with
34 the potential to have migrated within the project limits, and sites with a history of contamination where the
35 proposed project would require ROW acquisition or where project excavation/trenching would occur
36 during construction. Sites are categorized as "low risk" if available information indicates that some

1 potential for contamination exists, but the site is not likely to pose a contamination problem to highway
2 construction.

3

4 The TxDOT Dallas District has procedures intended to minimize cost and construction delays when
5 petroleum-contaminated soils are encountered during roadway construction. The Dallas District has a
6 contractor to remove underground tanks, and a contractor to excavate and haul petroleum-contaminated
7 soils. This procedure has reduced the degree of impact that underground storage tanks could have on
8 TxDOT construction activities. If this or any other type of encounter with hazardous substances does
9 occur, it would be handled according to all applicable state, federal, and local regulations.

10

11 The project area includes vacant land and developed land consisting of residential neighborhoods,
12 institutional facilities, places of worship, office buildings, retail establishments, commercial/light industrial,
13 public roadways, and railroad easements.

14

15 Sections of the proposed project would require excavation and would be depressed relative to the
16 existing roadway. Other sections of the proposed project would require deep excavations for the
17 installation of columns supporting elevated ramps and bridge structures. The sections of the roadway
18 where excavations are required are listed in **Table 5-22**.

19

TABLE 5-22. LOCATIONS OF THE PROPOSED PROJECT REQUIRING EXCAVATION

Location	Type & Approximate Depth of Excavation
SM Wright from Martin Luther King Jr. Blvd. to Pennsylvania Ave.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 18 feet
SM Wright from Pennsylvania Ave. to Warren Ave.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 16 feet
SM Wright from Warren Ave. to Metropolitan Ave.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
SM Wright from Metropolitan Ave. to Driskell St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 7 feet
SM Wright from Driskell St. to Pine St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
SM Wright from Pine St. to Marburg St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
SM Wright from Marburg St. to Hatcher St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
SM Wright from Hatcher St. to Garden St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
SM Wright from Garden St. to CF Hawn	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 17 feet
SM Wright from CF Hawn to Haven St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 17 feet
SM Wright from Haven St. to Budd St.	Reconstruct freeway overpasses to six lane divided arterial with at grade intersections 0 to 3 feet
CF Hawn from Bexar St. to SM Wright	Reconstruct freeway mainlanes and frontage roads 0 to 3 feet Reconstruct overpasses (column drilled shafts) - 20 to 35 feet
CF Hawn from SM Wright to Lamar St.	Reconstruct freeway mainlanes and frontage roads 0 to 6 feet Construct columns (drilled shafts) 20 to 35 feet
CF Hawn from Lamar St. to IH 45	Construct columns (drilled shafts) 20 to 35 feet
IH 45 from Lamar St. to Pennsylvania Ave.	Inside and outside widening 0 to 3 feet Construct retaining wall 0 to 10 feet
IH 45 from Pennsylvania Ave. to Martin Luther King Jr. Blvd.	Inside Widening 0 to 3 feet
IH 45 from Martin Luther King Jr. Blvd. to SM Wright	Restriping only
Source: TxDOT Schematic 2011 and as-built plans for existing bridges.	

1 The scope of the preliminary investigation consisted of a review of the TxDOT-specified federal and state
 2 environmental regulatory databases supplemented with field surveys to confirm information from the
 3 databases and note additional field observations. No land use history searches, title searches, historic
 4 aerial photographs/historic maps review, interviews, or consultation with local/state/federal authorities
 5 were conducted. The databases and specified search distances are shown in **Table 5-23**.

6

TABLE 5-23. FEDERAL AND STATE ENVIRONMENTAL DATABASE SEARCH RADII

Database	Search Radius
Federal National Priorities List (NPL)	1.0 mile
Federal Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) facilities list	1.0 mile
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list	0.5 mile
Federal RCRA Treatment, Storage, and Disposal (TSD) facilities list	0.5 mile
Federal RCRA Generators RCRA (G)	Proposed project limits (existing and proposed ROW) and Adjoining
Federal Emergency Response Notification System (ERNS) list	Proposed project limits (existing and proposed ROW)
Aerometric Information Retrieval System/ Air Facility Subsystem (AIRSAFS)	Proposed project limits (existing and proposed ROW)
Biennial Reporting System (BRS)	Proposed project limits (existing and proposed ROW)
Facility Registry System (FRS)	Proposed project limits (existing and proposed ROW)
Integrated Compliance Information System (ICIS)	Proposed project limits (existing and proposed ROW)
Toxic Release Inventory (TRI)	Proposed project limits (existing and proposed ROW)
Brownfields Management System (BF)	0.5 mile
No Further Remediation Action Planned Sites (NFRAP)	0.5 mile
Clandestine Drug Laboratory Locations (CDL)	Proposed project limits (existing and proposed ROW)
EPA DOCKETS DATA (DOCKETS)	Proposed project limits (existing and proposed ROW)
Federal Engineering Institutional Control Sites (EC)	Proposed project limits (existing and proposed ROW)
Hazardous Material Incident Reporting System (HMIRS)	Proposed project limits (existing and proposed ROW)
Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)	Proposed project limits (existing and proposed ROW)
Material Licensing Tracking System (MLTS)	Proposed project limits (existing and proposed ROW)
National Pollutant Discharge Elimination System (NPDES)	Proposed project limits (existing and proposed ROW)
PCB Activity Database System (PADS)	Proposed project limits (existing and proposed ROW)
Permit Compliance System (PCS)	Proposed project limits (existing and proposed ROW)
CERCLIS LIENS (SFLIENS)	Proposed project limits (existing and proposed ROW)
Section Seven Tracking System (SSTS)	Proposed project limits (existing and proposed ROW)

TABLE 5-23. FEDERAL AND STATE ENVIRONMENTAL DATABASE SEARCH RADII

Database	Search Radius
Toxic Substance Control Act Inventory (TSCA)	Proposed project limits (existing and proposed ROW)
No Longer Regulated RCRA Generator Facilities (NLRRCRAG)	Proposed project limits (existing and proposed ROW) and Adjoining
Land Use Control Information System (LUCIS)	0.5 mile
No Longer Regulated RCRA NON-CORRACTS TSD Facilities (NLRRCRAT)	0.5 mile
Open Dump Inventory (ODI)	0.5 mile
Delisted National Priority List (DNPL)	1.0 mile
Department of Defense Sites (DOD)	1.0 mile
Formerly Used Defense Sites (FUDS)	1.0 mile
No Longer Regulated RCRA Corrective Action Facilities (NLRRCRAC)	1.0 mile
Proposed National Priority List (PNPL)	1.0 mile
Record of Decision System (RODS)	1.0 mile
State landfill and/or solid waste disposal site list	0.5 mile
Texas Voluntary Compliance Program (TX VCP) list	0.5 mile
State Registered Leaking Petroleum Storage Tank (LPST) list	0.5 mile
State Registered Petroleum Storage Tank (PST) list	0.25 mile
State Spills List (SPILLS)	Proposed project limits (existing and proposed ROW)
State Groundwater Contamination Cases (GWCC)	Proposed project limits (existing and proposed ROW)
State Notice of Violations (NOV)	Proposed project limits (existing and proposed ROW)
State Dry Cleaner Registration Database (DCR)	0.25 mile
State Industrial and Hazardous Waste Sites (IHW)	0.25 mile
State Affected Property Assessment Reports (APAR)	0.5 mile
State Closed & Abandoned Landfill Inventory (CALF)	0.5 mile
State Innocent Owner / Operator Database (IOP)	0.5 mile
State Tier II Chemical Reporting Program Facilities (TIER II)	0.5 mile
State Recycling Facilities (WMRF)	0.5 mile
State Historic Groundwater Contamination Cases (HISTGWCC)	Proposed project limits (existing and proposed ROW)
State TCEQ LIENS (LIENS)	Proposed project limits (existing and proposed ROW)
State Municipal Setting Designations (MSD)	Proposed project limits (existing and proposed ROW)
State Institutional/ Engineering Control Sites (SIEC01)	Proposed project limits (existing and proposed ROW)
State Permitted Industrial Hazardous Waste Sites (PIHW)	0.25 mile
State Brownfields Site Assessments (BSA)	0.5 mile
State Railroad Commission VCP and Brownfield Sites (RRCVCP)	0.5 mile
State Radioactive Waste Sites (RWS)	0.5 mile
State Superfund Sites	1.0 mile
Source: <i>TxDOT Hazardous Materials Manual, September 2007.</i>	

1

1 **Table 5-24** provides a summary of the hazardous material database search results. Twenty-five of the 58
 2 databases are shown in the table because no entries or listings were discovered for the remaining
 3 databases. The database identified 188 facilities within the specified distance parameters. **Table 5-24**
 4 lists the databases that had entries or listings of recognized environmental conditions (RECs).
 5

TABLE 5-24. HAZARDOUS MATERIAL SITES IN THE PROJECT AREA

Database	Search Distance (miles)	Facilities Within Search Distance	Date Database Updated
Federal Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) facilities list	1.0 mile	4	12/2009
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list	0.5 mile	1	12/2009
Federal RCRA Generators RCRA (G)	Proposed project limits (existing and proposed ROW) and Adjoining	6	12/2009
Federal Emergency Response Notification System (ERNS) list	Proposed project limits (existing and proposed ROW)	3	12/2009
Aerometric Information Retrieval System/ Air Facility Subsystem (AIRSAFS)	Proposed project limits (existing and proposed ROW)	2	3/2009
Biennial Reporting System (BRS)	Proposed project limits (existing and proposed ROW)	1	1/2003
Facility Registry System (FRS)	Proposed project limits (existing and proposed ROW)	25	6/2009
Integrated Compliance Information System (ICIS)	Proposed project limits (existing and proposed ROW)	1	3/2009
Toxic Release Inventory (TRI)	Proposed project limits (existing and proposed ROW)	1	12/2007
Brownfields Management System (BF)	0.5 mile	2	1/2010
No Further Remediation Action Planned Sites (NFRAP)	0.5 mile	4	1/2010
State landfill and/or solid waste disposal site list (MSWLF)	0.5 mile	1	12/2009
Texas Voluntary Compliance Program (TX VCP) list	0.5 mile	5	1/2010
State Registered Leaking Petroleum Storage Tank (LPST) list	0.5 mile	40	1/2010
State Registered Petroleum Storage Tank (PST) list	0.25 mile	32	1/2010
State Spills List (SPILLS)	Proposed project limits (existing and proposed ROW)	3	12/2009
State Groundwater Contamination Cases (GWCC)	Proposed project limits (existing and proposed ROW)	1	12/2008
State Notice of Violations (NOV)	Proposed project limits (existing and proposed ROW)	1	12/2009
State Dry Cleaner Registration Database (DCR)	0.25 mile	2	12/2009
State Industrial and Hazardous Waste Sites (IHW)	0.25 mile	16	12/2009
State Affected Property Assessment Reports (APAR)	0.5 mile	3	1/2010
State Closed & Abandoned Landfill Inventory (CALF)	0.5 mile	2	11/2005
State Innocent Owner / Operator Database (IOP)	0.5 mile	3	1/2010
State Tier II Chemical Reporting Program Facilities (TIER II)	0.5 mile	28	12/2007
State Recycling Facilities (WMRF)	0.5 mile	1	3/2009
Source: GeoSearch Radius Report – Job # 14944 dated March 2, 2010.			
Note: LPST sites can also be included in the PST totals			

6

1 As shown in **Table 5-25** and described below, the database review indicated six sites which were
 2 deemed to pose a high risk to ROW acquisition and/or construction of the proposed project. An additional
 3 25 sites (labeled A through Y in **Table 5-25**) were identified from other available records, which were
 4 deemed to have REC and/or pose a high risk to ROW acquisition and construction of the proposed
 5 project. The site locations are shown in **Appendix A-6, Pages 4 and 7**.

6

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID # 1	Gold Metal Recyclers / 4305 S Lamar/ Parcel ID 502, 502B, and 505	Yes	Yes	Yes	Level	From Beginning of Project to South of Lamar Street Bridge the drilled shaft range is 21'-41'. There are drilled shafts on Properties 502 and 505, thus deep excavation is required. 502B would not require deep excavation.	LPST, PST, Tier II, VCP, WMRF, CERCLIS, ERNS, FRS, IHW	Metal Recycling facility. ERNS - a spill of unknown material was emitted to the air from this site. The database listed the spill as a possible fire. No other information was available. CERCLIS - in continuation to the above air emission violation the "potentially responsible party emergency removal" investigation was started on September 3, 2008. The removal investigation was completed on September 4, 2008. The Priority Level was listed as "cleaned up." VCP - Identification No. 2244, January 2009. The Site was described as having VOCs, heavy metals, and total petroleum hydrocarbon (TPH) affected soils and groundwater. The phase was listed as "investigation." A Certificate of Completion (COC) had not been issued for the Site. LPST Priority - Minor soil contamination occurred, however a remedial action plan was not required. LPST Status - Final Concurrence, Case Closed."
Page 4 of 9 ID # 2	Trinity Recycling / 4801 S Lamar/ Parcel ID 539	Yes	Yes	Yes	Level	Both Direct Connectors are on structures as they cross Parcel ID 539 thus deep excavation is required.	PST	Scrap metal collection and sorting plant. PST - A 6,000-gallon out of use diesel above ground storage tank (AST) is on the site. This out of use AST is located in a concrete secondary containment. Previous Environmental Investigations - The site was identified on regulatory databases as a large quantity generator of hazardous wastes from at least 1980 until at least 2008 with several recorded violations. - A stormwater compliance inspection of the site noted several violations. - Information received from the Fire Department included two violations involving the burning of automobile parts on the site.

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID # 3	Duggan Industries /3901 S. Lamar/ Parcel ID 416 & 4115 Julius Schepps Fwy/ Parcel ID 419	No	Yes	Yes	Level	At Lamar Street Overpass the drilled shaft range is 11'-33'. There are drilled shafts on Parcel ID 419 thus deep excavation is required. Parcel ID 416 does not have any columns on it; however retaining wall construction would involve excavation to depths less than 5 feet.	PST	Structural Steel Product Supplier (former scrap metal facility). PST - An 8,000-gallon diesel UST and a 2,000 gallon gasoline UST were installed at this facility in 1990
Page 4 of 9 ID # 4	Herman Gibbons / 5003 S. Lamar/ Parcel ID 553	No	Yes	Yes	Level	Both Direct Connectors are on structures as they cross Parcel ID 553 thus deep excavation is required.	CALF	Inactive Landfill. CALF - The facility accepted household trash (municipal solid waste), construction/demolition debris, tires, and brush. The hazardous waste acceptance status for the facility was not reported. Additional information from the NCTCOG indicated that the facility operated as an unauthorized landfill. According to the CALF database, it is currently an inactive landfill (TCEQ Permit # 34259). Previous Environmental Investigations - Historical resources indicated that the site was developed with a machine/auto repair shop associated with a meat processing facility during the 1940s and 1950s. - By the 1990s, the site had been utilized for landfill activity - By the 2000s the site appeared to be utilized as an equipment storage yard.

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 7 of 9 ID # 5	Kreck Foods /4115 S Lamar/ Parcel ID N1132	Yes	Yes	Yes	Level	From Beginning of Project to South of Lamar Street Bridge the drilled shaft range is 21'-41'. There are drilled shafts on Parcel ID N1132 thus deep excavation is required.	PST, FRS, IHW	Metal Recycling facility. PST - A17-year old, 4,000-gallon diesel UST and a 24-year old, 10,000-gallon gasoline UST were removed from the ground at this site in 1988 Brownfield in Vicinity - Across the street from the Kreck Foods Plant there is a 0.95 acre site (4106-4110-4114 S Lamar Street, Texas, Map ID, BF-29, Parcel ID N1129 and N1130): According to the database, the site was a commercial facility used for truck, bus, automotive or construction equipment repair and service for multiple tenants from 1945 to 1999. The site received a hazardous substance brownfields assessment grant and was assigned a BF ID # 91841. IHW - conditionally exempt small quantity generator.
Page 4 of 9 ID # 6	Vacant Station /5006 S Lamar/ Parcel ID 510	No	No	Yes	Level	No deep excavation would be required on this property.	PST , LPST	Automotive repair facility. PST - Four 13-year old tanks were removed from the ground at this site in 2000. LPST - A subsurface release of petroleum hydrocarbons from this site was reported (date unknown). Groundwater was impacted, no apparent threats or impacts to receptors. The TCEQ is monitoring this site.
REC Sites Identified from Phase I ESA Reports in the Project Area								
Page 4 of 9 ID # A	5211 S Lamar/ Parcel ID 560	No	No	Yes	Level	There are drilled shafts on Parcel ID 560 thus deep excavation is required.	N/A	Previous Environmental Investigations - Various automotive repair facilities, gas stations, and auto body shops were located on and around the site from at least the 1950s until at least the 1990s - Site utilized as a wrecking/salvage yard since at least the 1980s until the 2000s. - The southwestern portion of the site was utilized for the placement of fill from at least the 1990s until the 2000s. The origin and environmental quality of the fill materials placed on the site is unknown. - A gas station was located adjacent to the east of the site at 5309 S Lamar Street from the 1930s to 1970s. The USTs at the gas station had been reportedly filled in place or removed from the ground between 1989 and 1999.

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID # B	5019 S Lamar Street/ Parcel ID 534	No	No	Yes	Level	There are drilled shafts close to Property 534 (30 ft) thus deep excavation may be considered.	N/A	<u>Previous Environmental Investigations</u> - Tire shop in the 1950s and later as an automotive repair shop from at least the 1960s until the 1970s - Utilized for salvage/wrecking yard storage and for dumping activities in the 1990s. - By 2004, the site appeared to be undeveloped.
Page 4 of 9 ID # C ID # D	5102 S Lamar Street/ Parcel ID 532 5106 S Lamar Street/ Parcel ID 536	Yes Parcel 532	Yes	Yes	Level	There are drilled shafts on Property 536 thus deep excavation is required.	N/A	<u>Previous Environmental Investigations</u> - Site was used as a drycleaners, automobile repair, and tool manufacturing facilities in the 1950s. - Moreover, automobile repair facilities and a gas station were located in close proximity (i.e., less than 50 feet) to the southeast and northwest of the site.
Page 4 of 9 ID# E ID # F	5110 Lamar Street/ Parcel ID 540 5114 S Lamar Street/ Parcel ID 546	Yes Parcel 546	Yes	Yes	Level	There are drilled shafts on Parcel ID 540 and 546 thus deep excavation is required.	N/A	<u>Previous Environmental Investigations</u> - An automobile repair facility was located on the western portion of Parcel 546 in 1952, and was expanded to the eastern portion of the Parcel by 1965. - Morris Garage and Alber's Auto Body were listed at the site from 1955 to 2008 and 1993 to 2008, respectively. - Parcel 540 has been vacant land since at least 1922.
Page 4 of 9 ID # G ID# H	5202 S Lamar Street/ Parcel ID 550 5206 S Lamar Street/ Parcel ID 552	No	No	Yes	Level	No deep excavation would be required on this property.	N/A	<u>Previous Environmental Investigations</u> - An automobile repair facility was located at the site from at least 1945 to 1985. - An automobile repair facility has been located approximately 50 feet north and cross-gradient of the site since at least 1952.

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID# I	5103 Colonial Avenue/ Parcel ID 525	Yes Parcel 528	Yes	Yes	Level	There are drilled shafts on Properties 535, 538, and 543 thus deep excavation is required.	N/A	<p><u>Previous Environmental Investigations</u></p> <ul style="list-style-type: none"> - This approximately 0.98-acre site is divided into six smaller parcels and has been developed with various residential structures from at least 1922 to present. - The area surrounding the site has historically been retail, laundry facilities, automobile repair facilities, filling stations, manufacturing facilities, and residential properties.
ID# J	5105 Colonial Avenue/ Parcel ID 528							
ID# K	5109 Colonial Avenue/ Parcel ID 531							
ID# L	5115 Colonial Avenue/ Parcel ID 535							
ID# M	5117 Colonial Avenue/ Parcel ID 538							
ID# N	5123 Colonial Avenue/ Parcel ID 543							

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID# O	5106 Colonial Avenue/ Parcel ID 516	Yes Parcel 516 & 523	Yes	Yes	Level	There are drilled shafts on Properties 523, 527, and 529 thus deep excavation is required.	N/A	<p><u>Previous Environmental Investigations</u></p> <ul style="list-style-type: none"> - The site consists of a rectangular-shaped tract of land with a total area of approximately 0.81-acre which is divided into five adjoining parcels - A dry cleaning facility, filling station, and automobile repair facilities were identified in close proximity (i.e., less than 300 feet) to the north of the site from at least the 1930s until at least 1965. - The five adjoining tracks were always developed and used for single-family residential purposes
ID# P	5108 Colonial Avenue/ Parcel ID 520							
ID# Q	5114 Colonial Avenue/ Parcel ID 523							
ID# R	5118 Colonial Avenue/ Parcel ID 527							
ID# S	5122 Colonial Avenue/ Parcel ID 529							
Page 4 of 9 ID# T	5115 Hohen Avenue/ Parcel ID 509	Yes Parcel 509 & 512	Yes	Yes	Level	There are drilled shafts close to these parcels (33 ft) thus deep excavation may be considered.	N/A	<p><u>Previous Environmental Investigations</u></p> <ul style="list-style-type: none"> - This 0.29-acre site is composed of two adjoining parcels, Parcel 509 and Parcel 512. - The site was developed with a residential structure from at least 1922 until at least 1984. - A dry cleaning facility, filling station, and automobile repair facilities were identified in close proximity (i.e., less than 300 feet) to the northwest of the site from at least the 1930s until at least 1965.
ID# U	5119 Hohen Avenue/ Parcel ID 512							

TABLE 5-25. POTENTIAL HIGH PRIORITY HAZARDOUS MATERIALS SITES

Map Location Appendix A-6	Facility Name /Address/ Parcel ID	Displacement	ROW Acquisition	Adjacent to ROW	Gradient Relative to Project	Excavation, Trenching, Columns, Piers	Database Information	Comments
Page 4 of 9 ID# V ID# W ID# X	5127 Hohen Avenue/ Parcel ID 517 5131 Hohen Avenue/ Parcel ID 521 1645 Starks Avenue/ Parcel ID 522			Yes	Level	There are drilled shafts on Properties 517, 521, and 522 thus deep excavation is required	N/A	Previous Environmental Investigations - The site is 0.24- acre and is composed of Parcel 517, Parcel 521, and Parcel 522 which were developed with residential structures from at least 1922 until at least 1958. - From at least 1965 until at least 1984, the site appeared to be developed with two commercial structures. The site was developed with a single commercial structure and associated parking areas, from at least 1995 to present. The commercial structure appeared to be primarily utilized as restaurants/stores. - Based on historical resources reviewed, a dry cleaning facility, filling station, and auto repair facility were identified in close proximity (i.e., less than 400 feet) to the northwest and up-gradient of the site from at least the 1930s until at least 1965.
Page 4 of 9 ID# Y	5305 South Central Expressway/ Parcel ID 530, 533. And 537	Yes Parcel 537	Yes	Yes	Level	There would be a column within 20' of property 530 and 45' of properties 533 and 537, thus deep excavation activities associated with construction of the proposed project would occur within the vicinity of this site.	N/A	Previous Environmental Investigations - The building on the site was constructed in 1958 when lead based paint (LBP) and asbestos containing material (ACM) were frequently used in construction. - ACM could have been used in any of the building materials including Heating, Ventilating and Air Conditioning (HVAC) insulations, floor tiles, ceiling etc. - There may be pre-1974 fluorescent lighting in the building with PCBs in the ballast.

1

2 The High Priority Sites are described in further details as follows:

3

4 **Map ID 1** -- Gold Metal Recyclers, 4305 S Lamar Street, Dallas, Texas (Parcel ID 502, 502B and 505):

5 This site is located east of IH 45, south of Pine Street. It is adjacent to IH 45 and at an even gradient.

6 Three small storage sheds located at the southwest side of Parcel 502 is a proposed displacement.

7 Project ROW would be required from this site. There are drilled shafts on Parcels 502 and 505 thus deep

8 excavation is required, though 502B would not require deep excavation. According to the ERNS

9 database, a spill of an unknown material was reportedly emitted to the air from this site. The database

10 listed the spill as a possible fire and noted that the fire department was dispatched to the site. No other

11 information pertaining to the spill was reported. According to the CERCLIS database, the "potentially

12 responsible party emergency removal" investigation was started on September 3, 2008. The removal

1 investigation was completed on September 4, 2008. The Priority Level was listed as “cleaned up.” The
2 Site was also assigned a VCP Identification No. 2244 in January 2009. The Site was described as having
3 VOCs, heavy metals, and total petroleum hydrocarbon (TPH) affected soils and groundwater. The phase
4 was listed as “investigation.” A Certificate of Completion (COC) has not been issued for the Site. Three
5 21-year old 10,000-gallon steel USTs were removed from the ground at this site in May 1992. According
6 to a Remedial Action Report (RAR) provided for review by the TCEQ, the three 10,000-gallons USTs
7 were utilized by a FINA filling station that was located on the northern portion of the property from 1976
8 until 1978. The USTs were then utilized by Gold Metal Recyclers for approximately three years in the late
9 1980s. Affected soil was discovered in the tank hold after the tanks were removed from the ground in
10 1992. According to the LPST database, a subsurface release of petroleum hydrocarbons from this site
11 was reported on April 22, 1992. Minor soil contamination occurred, however a remedial action plan was
12 not required. The TCEQ has issued “Final Concurrence, Case Closed.” The site visit confirmed that Gold
13 Metal Recyclers is an ongoing business at this location. A sheet metal fence was located along the
14 majority of the perimeter of the site, which limited observations. Based on the proximity of the LPST site
15 relative to the project, and database information, this site poses a high risk to proposed project ROW
16 acquisition and construction.

17

18 **Map ID 2** -- Trinity Recycling (Former Orkon Iron and Metals Company), 4801 S Lamar Street, Dallas,
19 Texas (Parcel ID 539): This site is located west of S Lamar Street south of Hatcher Street. It is adjacent
20 to S Lamar Street and at an even gradient. Project ROW would be required from this site. Both direct
21 connectors are on structures as they cross Parcel 539, thus deep excavation is required. The site
22 consists of a 10.73 acres irregular-shaped tract of land. The site is currently occupied by Trinity Metal
23 Recyclers and is utilized for scrap metal collection and sorting including vehicles, automobile engines,
24 miscellaneous 55-gallon drums, removed underground storage tanks, and used tires prior to shipment to
25 off-site recycling facilities for further processing. A 6,000-gallon out of use diesel above ground storage
26 tank (AST) is on the site. This out of use AST is located within a concrete secondary containment. The
27 site visit confirmed that Trinity Recycling is still operating as a current business at this site. A sheet metal
28 fence was located along the majority of the perimeter of the site, which limited observations; however,
29 based on a site reconnaissance of the site on August of 2009 (for a Phase I ESA completed for Trinity
30 Parkway) the site was utilized as a metal press facility, a smelting and refining facility, and a metal
31 recycling and material storage facility. The materials processed, chemicals used and waste management
32 practices at the facilities located on the site were unknown. The site was identified on regulatory
33 databases as a large quantity generator of hazardous wastes from at least 1980 until at least 2008 with
34 several recorded violations. Previous environmental investigations at the site identified several areas of
35 heavy hydrocarbon staining, a complaint involving the alleged dumping of batteries and acid residue, and
36 spent cyanide solution. In addition, a stormwater compliance inspection of the site noted several
37 violations that included oil spills, exposed and rusted scrap metal, a stockpile of residue from the

1 aluminum smelting process, gasoline and diesels spills, lead acid battery storage, and a benchmark
2 stormwater sample collected from the site that contained concentrations of metals which exceeded
3 stormwater quality limits. Information received from the Fire Department included two violations involving
4 the burning of automobile parts on the site. Based on the proximity of the site relative to the project and
5 project ROW requirements, this site poses a high risk to proposed project ROW acquisition and
6 construction.

7
8 **Map ID 3** -- Duggan Industries, 3901 S Lamar Street, Dallas, Texas (Parcel ID 416 and 419): This site is
9 located west of IH 45 south of McDonald Avenue. It is adjacent to IH 45 and at an even gradient. Project
10 ROW would be required from this site. There are drilled shafts on Parcel 419 thus deep excavation is
11 required. Parcel 416 does not have any columns on it; however retaining wall construction would involve
12 excavation to depths less than 5 feet. An 8,000-gallon diesel UST and a 2,000 gallon gasoline UST were
13 installed at this facility in 1990. The UST tank material/containment is reported as steel/jacketed. The
14 pipe material is reported as steel. The tank release detection, the pipe releases detection and the spill
15 and overflow protection are not reported. The site visit indicated that a business by the name of Duggan
16 & Dimco is currently operating at this site. A chain link fence was located along the majority of the
17 perimeter of the site and from what was visible there was no obvious evidence of contamination, such as
18 stressed vegetation, stained soils, or unusual odors. No obvious evidence of the storage, treatment, or
19 disposal of hazardous wastes was observed at the site. There were no obvious or evident aboveground
20 or underground storage tanks observed at the site. Based on database information and ROW
21 requirements, this site poses a high risk to proposed project ROW acquisition and construction of the
22 project.

23
24 **Map ID 4** -- Herman Gibbons, 5003 S Lamar Street, Dallas, Texas (Parcel ID 553): This site is located
25 west of S Lamar Street south of Hatcher Street. It is adjacent to S Lamar Street and at an even gradient.
26 Project ROW would be required from this site. Both direct connectors are on structures as they cross
27 Parcel 553 thus deep excavation is required. The site consists of an 11.3-acre irregular-shaped tract of
28 land. Review of the historical data indicated that the site was developed with a horse stable in 1922 and
29 then developed with commercial/industrial buildings associated with a meat packing/processing plant
30 from at least 1942 until the late 1970s. Historical resources also indicated that the site was developed
31 with a machine/auto repair shop associated with the meat processing facility during the 1940s and 1950s.
32 By the 1990s, the site had been utilized for landfill activity and by the 2000s the site appeared to be
33 utilized as an equipment storage yard. According to the CALF database, the site was identified as
34 "Herman Gibbons." The initial date the Herman Gibbons facility occupied the site was not listed and the
35 facility was closed in 1994. The facility accepted household trash (municipal solid waste),
36 construction/demolition debris, tires, and brush. The hazardous waste acceptance status for the facility
37 was not reported. Additional information from the NCTCOG indicated that the facility operated as an

1 unauthorized landfill. According to the CALF database it is currently an inactive landfill (TCEQ Permit #
2 34259). Based on database information and ROW requirements, this site poses a high risk to proposed
3 project ROW acquisition and construction.
4

5 **Map ID 5** -- Kreck Foods Plant, 4115 S Lamar Street, Dallas, Texas (Parcel ID N1132): This site is
6 located east of IH 45 north of Pine Street. It is adjacent to IH 45 and at an even gradient. ROW would be
7 required from the site. There are drilled shafts on Parcel ID N1132 thus deep excavation is required and
8 the site is a displacement. A 17-year-old, 4,000-gallon diesel UST and a 24-year-old, 10,000-gallon
9 gasoline UST were removed from the ground at this site in 1988. Information on the UST tank
10 material/containment was not reported. The site visit indicated that a business by the name of Green
11 Earth Metal Recycling was currently operating at this facility. A chain link fence was located along the
12 majority of the perimeter of the site. Observations did not include any obvious evidence of contamination,
13 such as stressed vegetation, stained soils, or unusual odors. No obvious evidence of the storage,
14 treatment, or disposal of hazardous wastes was observed at the site. There were no obvious or evident
15 aboveground storage tanks found at the site. The location of the former tank bed could not be
16 ascertained. Across the street from the Kreck Foods Plant there is a 0.95 acre site (4106-4110-4114 S
17 Lamar Street, Texas, Map ID, BF-29, Parcel ID N1129 and N1130). According to the database, this site
18 was a commercial facility used for truck, bus, automotive or construction equipment repair and service for
19 multiple tenants from 1945 to 1999. The site received a hazardous substance brownfields assessment
20 grant and was assigned a BF ID # 91841. Since the type and extent of contamination that triggered the
21 Brownfield Assessment Grant is not mentioned in the database search; therefore, the extent of the
22 contamination plume, if any, cannot be ascertained and this plume may be encountered when the Kreck
23 Foods Facility is displaced and/or during the deep excavation. This former Kreck Foods Plant site thus
24 poses a high risk to proposed project ROW acquisition and construction of the project.
25

26 **Map ID 6** -- A site listed as Vacant Station, 5006 S Lamar Street, Dallas, Texas (Parcel ID 510): This site
27 is located east of Lamar Street south of Emery Street. It is adjacent to the Lamar Street and at an even
28 gradient. Deep excavation activities associated with construction of the proposed project would not occur
29 within the vicinity of this site. Proposed project ROW would not be required from the site. Four 13-year
30 old tanks were removed from the ground at this site in 2000. According to the database, a subsurface
31 release of petroleum hydrocarbons from this site was reported (date unknown). Groundwater was
32 impacted, but there were no apparent threats or impacts to receptors. The TCEQ is monitoring this site.
33 The site visit indicated that Parcel ID 508, 510 and 513 were all owned by the same owner with a building
34 on the middle parcel (parcel 510). The other two parcels had a metal fence and construction equipment,
35 a couple of backhoes, a truck and a trailer parked on them. The building on Parcel 510 appears to be an
36 automotive repair facility. The site visit did not reveal any obvious evidence of contamination, such as
37 stressed vegetation, stained soils, or unusual odors. No obvious evidence of the storage, treatment, or

1 disposal of hazardous wastes was observed at the site. There were no obvious or evident aboveground
2 or underground storage tanks found at the site. Based on database information and proximity of the site
3 relative to the project, this site poses a high risk to construction of the project.
4

5 ***REC Sites Identified from Phase I ESA Reports in the Project Area***

6 Based on the review of the TxDOT-specified federal and state environmental databases, the
7 aforementioned six sites were deemed to pose a high risk to ROW acquisition and/or construction of the
8 proposed project. In addition to the above sites, the following paragraphs describe additional sites which
9 have RECs within the proposed ROW acquisition and/or adjacent to the proposed ROW. The information
10 associated with these REC sites was based on the review of the Phase I ESA Reports completed for the
11 City of Dallas from Fall 2009 through Spring 2010 for the Trinity Parkway Project. Because the limits of
12 the Trinity Parkway study area overlap with the project area, the hazardous material data compiled for the
13 Trinity Parkway project was reviewed to identify other potential hazardous material sites in the project
14 area. The additional potential RECs are discussed below, and their locations are illustrated in **Appendix**
15 **A-6, Page 4.**
16

17 **Map ID A** -- 5211 S Lamar Street, Dallas, Texas (Parcel ID 560): This site is located west of S Lamar
18 Street south Hatcher Street. It is adjacent to S Lamar Street and at an even gradient. There are drilled
19 shafts on Parcel ID 560 thus deep excavation is required. Proposed project ROW would not be required
20 from the site. A review of the site history indicates that various automotive repair facilities, gas stations,
21 and auto body shops were located on and around the site from at least the 1950s until at least the 1990s.
22 The site has also been utilized as a wrecking/salvage yard since at least the 1980s until the 2000s. The
23 chemical use and waste management practices associated with the historic auto salvage operations is
24 unknown. The southwestern portion of the site was utilized for the placement of fill from at least the
25 1990s until the 2000s. The origin and environmental quality of the fill materials placed on the site is
26 unknown. A gas station was located adjacent to the east of the site at 5309 S. Lamar Street from the
27 1930s to 1970s. The USTs at the gas station had been reportedly filled in place or removed from the
28 ground between 1989 and 1990. Based on historic uses of the site, this site poses a high risk to
29 proposed project construction.
30

31 **Map ID B** -- 5019 S. Lamar Street, Dallas, Texas (Parcel ID 534): This site is located west of S. Lamar
32 Street south Emery Street. It is adjacent to S. Lamar Street and at an even gradient. There are drilled
33 shafts close to Property 534 (30 ft) thus deep excavation may be considered. Proposed project ROW
34 would not be required from the site. A review of the site history indicates that the site was developed with
35 a commercial structure in 1942. The structure was subsequently labeled for use as a tire shop in the
36 1950s and later as an automotive repair shop from at least the 1960s until the 1970s. The site appeared
37 to be utilized for salvage/wrecking yard storage and for dumping activities in the 1990s. By 2004, the site

1 appeared to be undeveloped. Occupants of the site have included Black and Rubber Manufacturing Co.,
2 Vurch Tire Co., Jones Auto Wrecking, Danials Auto Parts and Wrecking Yard, B&M Wrecking, and C&C
3 Wrecking. Based on historic use of the site, this site poses a high risk to proposed project construction.
4

5 **Map ID C and D** -- 5102 and 5106 S. Lamar Street, Dallas, Texas (Parcel ID 532 and Parcel ID 536):
6 This site is located east of S. Lamar Street north of Starks Avenue. It is adjacent to S. Lamar Street and
7 at an even gradient. Parcel 532 is a proposed displacement. There are drilled shafts on Parcel 536 thus
8 deep excavation is required and ROW would be required from the site. A review of the site history
9 indicates that the 0.25-acre site was used as a drycleaners, automobile repair, and tool manufacturing
10 facility in the 1950s. Moreover, automobile repair facilities and a gas station were located in close
11 proximity (i.e., less than 50 feet) to the southeast and northwest of the site. The specific chemical use
12 and waste management practices at the drycleaners, automobile repair, and tool manufacturing facilities
13 is unknown. Based on and the historic use of the site and ROW requirements, this site poses a high risk
14 to proposed project ROW acquisition and construction.
15

16 **Map ID E and F** -- 5110 and 5114 S. Lamar Street, Dallas, Texas (Parcel ID 540 and Parcel ID 546): This
17 site is located east of S. Lamar Street north of Starks Avenue. It is adjacent to S. Lamar Street and at an
18 even gradient. Parcel 546 is a proposed displacement. There are drilled shafts on Parcels 540 and 546
19 thus deep excavation is required and ROW would be required from the site. A review of the site history
20 indicates that Parcel 546 had been developed with a residential structure and a small storage structure by
21 at least 1922. Parcel 546 was vacant land in 1942 and was re-developed with the existing commercial
22 structures from at least 1958 until the present. An automobile repair facility was located on the western
23 portion of Parcel 546 in 1952, and was expanded to the eastern portion of the Parcel by 1965. Morris
24 Garage and Alber's Auto Body were listed at the site from 1955 to 2008 and 1993 to 2008, respectively.
25 Parcel 540 has been vacant land since at least 1922. The area surrounding the site has historically been
26 occupied by retail stores, a laundry facility, automobile repair facilities, filling stations, manufacturing
27 facilities, and residential properties since at least the 1950s. The chemical use and waste management
28 practices at the automobile repair facilities, laundry facility, and filling stations in close proximity or
29 adjacent to the site is unknown. Based on historic use of the site, this site poses a high risk to proposed
30 project ROW acquisition and construction.
31

32 **Map ID G and H** -- 5202 and 5206 S. Lamar Street, Dallas, Texas (Parcel ID 550 and Parcel ID 552):
33 This site is located east of S. Lamar Street north of Starks Avenue. It is adjacent to S. Lamar Street and
34 at an even gradient. Deep excavation activities associated with construction of the proposed project
35 would not occur within the vicinity of this site and no ROW would be required from the site. A review of
36 the site history indicates that an automobile repair facility was located at the site from at least 1945 to
37 1985. The chemical use and waste management practices at the automobile repair facility is unknown.

1 Moreover, an automobile repair facility has been located approximately 50 feet north and cross-gradient
2 of the site since at least 1952. Based on the historic uses at and in the vicinity of this site, it site poses a
3 high risk to proposed project construction.

4
5 **Map ID I, J, K, L, M, and N** -- 5103, 5105, 5109, 5115, 5117, and 5123 Colonial Avenue, Dallas, Texas
6 (Parcel ID 525, Parcel ID 528, Parcel ID 531, Parcel ID 535, Parcel ID 538, and Parcel ID 543): This site
7 is located west of SM Wright north of Starks Avenue. It is adjacent to Starks Avenue and the proposed
8 direct connectors would pass over this location. Parcel 528 is a proposed displacement. There are drilled
9 shafts on Parcels 535, 538, and 543, thus deep excavation is required and ROW would be required from
10 the site. This approximately 0.98-acre site is divided into six smaller parcels and has been developed
11 with various residential structures from at least 1922 to present. Land use in the site vicinity was
12 generally residential, commercial/retail, industrial, and public roadways. The area surrounding the site
13 has historically been retail, laundry facilities, automobile repair facilities, filling stations, manufacturing
14 facilities, and residential properties. The chemical use and waste management practices at the
15 automobile repair facilities, laundry facilities, and filling stations in close proximity or adjacent to the site
16 are unknown. Based on the historic uses of the site and ROW requirements, this site poses a high risk to
17 proposed project ROW acquisition and construction.

18
19 **Map ID O, P, Q, R and S** -- 5106, 5108, 5114, 5118, and 5122 Colonial Avenue, Dallas, Texas (Parcel ID
20 516, Parcel ID 520, Parcel ID 523, Parcel ID 527, and Parcel ID 529): This site is located west of SM
21 Wright north of Starks Avenue. It is adjacent to Starks Avenue and the proposed direct. Parcel 516 and
22 523 are proposed displacements. There are drilled shafts on Parcels 523, 527, and 529, thus deep
23 excavation is required and ROW would be required from the site. The site consists of a rectangular-
24 shaped tract of land with a total area of approximately 0.81-acre, which is divided into five adjoining
25 parcels. Based on historical review, a dry cleaning facility, filling station, and automobile repair facilities
26 were identified in close proximity (i.e., less than 300 feet) to the north of the site from at least the 1930s
27 until at least 1965. The five adjoining tracks however, were always developed and used for single-family
28 residential purposes. Based on the adjacent land uses and ROW requirements, this site poses a high
29 risk to proposed project ROW acquisition and construction.

30
31 **Map ID T and U** -- 5115 and 5119 Hohen Avenue, Dallas, Texas (Parcel ID 509 and Parcel ID 512): site
32 is located west of Hohen Avenue north of Starks Avenue. It is adjacent to Hohen Avenue and the
33 proposed direct connectors would pass over this location. There are drilled shafts close to these parcels
34 (33 ft) thus deep excavation may be considered. This 0.29-acre site is composed of two adjoining
35 parcels, Parcel 509 and Parcel 512. Both Parcel ID 509 and Parcel ID 512 would be displaced. The site
36 was developed with a residential structure from at least 1922 until at least 1984. A dry cleaning facility,
37 filling station, and automobile repair facilities were identified in close proximity (i.e., less than 300 feet) to

1 the northwest of the site from at least the 1930s until at least 1965. The specific chemical use and waste
2 management practices at these facilities are unknown. Based on the adjacent land uses, this site poses a
3 high risk to proposed project ROW acquisition and construction.

4
5 **Map ID V, W, and X** -- 5127 and 5131 Hohen Avenue and 1645 Starks Avenue, Dallas, Texas (Parcel ID
6 517, Parcel ID 521, and Parcel ID 522): This site is located west of SM Wright north of Starks Avenue. It
7 is adjacent to the SM Wright Freeway and at an even gradient. There are drilled shafts on Properties
8 517, 521 and 522 thus deep excavation is required, but no ROW would be required from the site. The
9 site is 0.24-acre and is composed of Parcel 517, Parcel 521, and Parcel 522, which were developed with
10 residential structures from at least 1922 until at least 1958. From at least 1965 until at least 1984, the site
11 appeared to be developed with two commercial structures. The site was developed with a single
12 commercial structure and associated parking areas, from at least 1995 to present. The commercial
13 structure appeared to be primarily utilized as restaurants/stores. Based on historical resources reviewed,
14 a dry cleaning facility, filling station, and auto repair facility were identified in close proximity (i.e., less
15 than 400 feet) to the northwest and up-gradient of the site from at least the 1930s until at least 1965.
16 The specific chemical use and waste management practices at these facilities are unknown. Based on
17 the historic adjacent land uses, this site poses a high risk to proposed project construction.

18
19 **Map ID Y** -- 5305 South Central Expressway, Dallas, Texas (Parcel ID 530, 533 and 537): This site is
20 located west of SM Wright south of Starks Avenue. It is adjacent to Starks Avenue and the proposed
21 direct connectors would pass over this location. Parcel 537 is a proposed displacement. Project ROW
22 would be required from this site. There would be a column within 20' of Parcel 530 and 45' of Parcels
23 533 and 537, thus deep excavation activities associated with construction of the proposed project would
24 occur within the vicinity of this site. The building on the site was constructed in 1958 when LBP and ACM
25 were frequently used in construction. ACM could have been used in any of the building materials
26 including Heating, Ventilating and Air Conditioning (HVAC) insulations, floor tiles, ceiling etc. Only LBP
27 and ACM sampling can ascertain the presence or absence of such materials. Moreover, there may be
28 pre-1974 fluorescent lighting in the building with PCBs in the ballast. Since this building is to be
29 displaced, therefore these items must be handled accordingly. Based on the age of the structure on this
30 site and its proximity to the project, this site poses a high risk to proposed project ROW acquisition and
31 construction.

32
33 Prior to ROW acquisition and construction of the project, it is recommended that subsurface
34 investigations be conducted within the vicinity of the sites described above to determine if hazardous
35 materials from any of these facilities have adversely affected the subsurface conditions of the proposed
36 project. The subsurface investigations would consist of the sampling of one or more soil borings and
37 associated groundwater or perched water (if applicable) at appropriate location(s), and laboratory

1 analysis of the cuttings/groundwater. Based on the results of the subsurface investigation, remediation
2 might be required. The subsurface investigation and resulting remediation (if required) would be
3 conducted in a manner complying with applicable federal, state, and local laws.

4
5 It is further recommended that any pre-1978 displaced buildings be inspected for LBP and ACM before
6 demolition. ACM could have been used in any of the building materials including Heating, Ventilating and
7 Air Conditioning (HVAC) insulations, floor tiles, ceiling etc. Only LBP and ACM sampling can ascertain
8 the presence or absence of such material. Moreover, there may be pre-1974 fluorescent lighting in the
9 building with PCBs in the ballast. These items, if found, must be handled according to applicable state
10 and federal abatement laws and regulations.

11
12 The proposed project includes the demolition and/or renovation of several bridges along the project
13 corridor including the replacement of the existing CF Hawn Overpass over Bexar Street, the removal of
14 the existing SH 310 overpass over CF Hawn, and the removal of the existing SM Wright overpasses over
15 Hatcher Street, Pine Street, Metropolitan Avenue, and Pennsylvania Avenue. The bridges may contain
16 ACM and shall be inspected to verify the presence or absence of ACM. Prior to the bridge demolition(s),
17 a 10-Day Notification shall be submitted to the Department of State Health and Human Services (DSHS).

18
19 Bridge demolition or renovation may include the removal of steel beam(s) that may have the potential to
20 contain LBP. Prior to project letting, the steel coatings on the bridges to be demolished/renovated would
21 be analyzed for the presence or absence of LBP. If LBP is discovered, contingencies would be
22 developed to address worker safety, material recycling and proper management of any paint related
23 wastes, as necessary.

24
25 A visual survey of the project limits and surrounding area was performed by qualified personnel to identify
26 possible hazardous materials within the proposed project ROW. No surface evidence of contamination
27 was observed. Documentation of the initial site assessment is maintained in the project files.

28
29 Additionally, the contractor would take appropriate measures to prevent, minimize, and control the spill of
30 hazardous materials in the construction staging area. The use of construction equipment within sensitive
31 areas would be minimized or eliminated entirely. All construction materials used for this project would be
32 removed as soon as work schedules permit.

1 **5.4.2 Items of a Special Nature**

2

3 ***Airway-Highway Clearance***

4

5 **No-Build Alternative**

6 The No-Build Alternative would result in no change in airway-highway clearance.

7

8 **Build Alternative**

9 The nearest airport to the proposed project is the Dallas Executive Airport, which is located approximately
10 eight miles from the project area. Dallas Love Field, is located approximately nine miles from the
11 proposed project area. Due to the distance between the project area and the nearest runway facility, no
12 impacts to airway-highway clearance are anticipated. In accordance with 23 CFR 620.103, because the
13 proposed project is not located within two miles of an airport, coordination with a local airport and/or the
14 Federal Aviation Administration (FAA) regarding airway-highway clearance would not be required.

15

16 ***Coastal Zone Management Plan***

17 The proposed project is not located within the Texas Coastal Zone Management Program boundary;
18 therefore, the proposed project is not subject to the guidelines of the associated plan.

19

20 ***Wild and Scenic Rivers***

21 There are no wild and scenic rivers in the proposed project area; therefore, there would be no impacts to
22 a river designated as a component or proposed for inclusion in the national system of Wild and Scenic
23 Rivers.

24

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6.0 INDIRECT IMPACTS

This section presents an analysis of the potential indirect impacts (or effects) related to the proposed SM Wright Project. CEQ regulations define a project's direct impacts as those "which are caused by the action and occur at the same time and place."⁵⁸ Accordingly, the discussion of direct impacts in **Section 5.0** of this document focuses on impacts within the project construction footprint (i.e., approximately 203.7 acres within existing ROW and proposed new ROW that would undergo ground disturbing construction activity), as well as subsequent operation of the facility within that same footprint. In contrast, the CEQ defines indirect impacts as follows:

"... effects, which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth-inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems."⁵⁹

As the CEQ definitions indicate, both direct and indirect impacts are caused by project activities, but indirect impacts extend beyond the construction/operation footprint and/or may occur at some point after the proposed project is completed.

The analysis of indirect impacts discussed in this document follows the seven step process outlined in TxDOT guidance on conducting indirect and cumulative impact analyses ('TxDOT ICI Guidance').⁶⁰ In keeping with the TxDOT ICI Guidance, the National Cooperative Highway Research Program (NCHRP) Report 466⁶¹ and the adjunct NCHRP Report 25-25, Task 22⁶² were also used to prescreen and/or analyze potential indirect impacts associated with the proposed project. The TxDOT ICI Guidance and the NCHRP Report 466 suggest indirect impacts can occur in three broad categories:

1. Encroachment-Alteration Impacts – Alteration of the behavior and functioning of the physical environment expected as a result of project design features (e.g., stream channel modifications that produce impacts downstream beyond the limits of the project ROW);

⁵⁸ 40 CFR 1508.8(a).

⁵⁹ 40 CFR 1508.8(b).

⁶⁰ TxDOT (September 2010). TxDOT's Guidance on Preparing Indirect and Cumulative Impact Analyses, Revised.

⁶¹ Transportation Review Board (TRB) (2002), NCHRP Report 466, Desk Reference for Estimating the Indirect Effects of Proposed Transportation Projects.

⁶² NCHRP – Transportation Research Board (2007), Report 25-25, Task 22, Forecasting Indirect Land Use Effects on Transportation Projects.

- 1 2. Project-Induced Land Use Change – Alteration of traffic, access, and mobility that induces
2 change in land use through new development (including redevelopment of already developed
3 land), or accelerates the rate of new development; and,
- 4 3. Impacts Resulting from Project-Induced Land Use Change – Impacts to the human and natural
5 environment expected when project-induced development occurs.

6
7 For transportation projects, examples of Category 1 impacts could include fragmentation of habitat by a
8 roadway or dispersal of pollutants onto adjacent lands, or the attenuation of impacts that naturally radiate
9 or disperse away from the project (e.g., traffic noise and air emissions). Indirect impacts from Categories
10 2 and 3 are typically encountered outside of the project ROW, and are most likely to result from actions
11 taken by other parties, such as private land developers not directly associated with the project. Indirect
12 impacts are therefore subject to some level of conjecture as to the extent of changes that may be
13 expected in the project corridor, with and without the project in place. The CEQ definition above indicates
14 the analysis of indirect impacts should identify impacts that are “reasonably foreseeable,” and CEQ has
15 issued guidance that equates “reasonably foreseeable” with “probable.”⁶³ In its guidance, CEQ explains
16 that whether a future estimate is speculative, as opposed to probable, should be evaluated in the same
17 manner that an informed land developer would approach the purchase of a parcel of real estate (i.e.,
18 based on market trends and other relevant economic information). The TxDOT ICI Guidance elaborates
19 on this topic by suggesting that information such as development trends and local government plans
20 should be used to ensure that judgments about future impacts are based on a logical analysis of
21 reasonably available and relevant information, and that a person of ordinary prudence would consider this
22 information in making important economic decisions.

23
24 With regard to encroachment-alteration impacts (Category 1), it is important to note that the scope of the
25 direct impacts analysis presented in **Section 5.0** necessarily includes a discussion of the impacts of some
26 resources/issues that virtually always extend beyond the project construction/operation footprint. This is
27 true for air quality impacts, water quality impacts, noise impacts, and some aspects of community impacts
28 (e.g., traffic operations). The discussion of indirect aspects (i.e., encroachment-alteration impacts) of
29 these topics is traditionally included with direct impacts in environmental assessments because both
30 aspects of project-related impacts are closely interwoven. Thus, the cause-effect relationships between
31 the Category 1 impact-causing activities of the proposed improvements and these resources/issues once
32 they extend beyond the project footprint have already been addressed in **Section 5.0**, and any further
33 discussion of such cause-effect relationships in this section is either abbreviated or omitted.

⁶³ 46 FR 18026 (March 23, 1981), *Forty Most Asked Questions Concerning CEQ's NEPA Regulations* (see Question 18, re Uncertainties about Indirect Effects of a Proposal).

1 The indirect impacts analysis was conducted in accordance with the seven-step process described in the
 2 TxDOT ICI Guidance for assessing indirect impacts. This approach, which is adapted from the NCHRP
 3 Report 466, is outlined in **Table 6-1**.

4

TABLE 6-1. SEVEN STEP APPROACH TO ESTIMATE INDIRECT IMPACTS

Step 1 – Initial Scoping: Determine the basic approach and level of effort expected for the analysis by examining the scope of key issues, and establish the geographical boundaries of the extent of anticipated indirect impacts.
Step 2 – Identify the Study Area’s Goals and Trends: Assemble information on the community goals and general trends regarding demographic, economic, social, and ecological aspects of the study area.
Step 3 – Inventory the Study Area’s Notable Features: Highlight the baseline environmental conditions in the study area, emphasizing its notable features including sensitive species and habitats, environmental components of value to the community, unusual landscape features, and vulnerable elements of the population.
Step 4 – Identify Impact-Causing Activities of Proposed Action and Alternatives: Describe the impact-causing activities of the proposed project based on anticipated construction, operation, and maintenance activities.
Step 5 – Identify Potentially Substantial Indirect Impacts for Analysis: Compare the expected impact-causing activities (Step 4) with the study area’s goals, trends, and notable features (Steps 2 and 3) to determine which impacts are potentially substantial and therefore merit further analysis in Step 6 .
Step 6 – Analyze Indirect Impacts and Evaluate Results: Qualitative and quantitative techniques are employed to estimate the magnitude of the potentially substantial impacts identified in Step 5 and describe future conditions with and without the proposed transportation improvement. This step also includes a discussion of the assumptions used in the analysis, and the uncertainty of the results based on the limitations of available information.
Step 7 – Assess Consequences and Consider/Develop Mitigation, as Appropriate: The consequences of indirect impacts are evaluated in the context of the full range of project effects. Strategies to avoid or lessen any impacts found to be unacceptable are developed. Impacts are reevaluated in the context of those mitigation strategies.
Sources: TxDOT (2010) <i>Revised Guidance on Preparing Indirect and Cumulative Impact Analyses</i> ; and, TRB (2002), NCHRP Report 466, <i>Desk Reference for Estimating the Indirect Effects of Proposed Transportation Projects</i> .

5

6 **6.1 Step 1: Scoping and Determination of a Study Area**

7 The first objective of **Step 1** is to define the scope of the analysis by considering the types of potential
 8 indirect impacts and the possible geographic range of those impacts. This is done by considering the
 9 attributes and context of the proposed project, and leads to a general assessment of the level of impacts
 10 anticipated. In addition, the assessment considers the distance from the project construction footprint
 11 necessary for those impacts to attenuate to a negligible level. This approach helps determine the level of
 12 effort and approach needed to complete the analysis, and is also vital in achieving the second objective of
 13 determining the geographic extent of the indirect impacts study area or Area of Influence (AOI). The
 14 scoping process continues in **Steps 2** through **5** to identify and eliminate from detailed study (**Step 6**)
 15 those resources or issues which do not have the potential for creating substantial indirect impacts.

16

17 An essential aspect of scoping the proposed project for potential indirect impacts is coordination with
 18 municipal planners who are intimately acquainted with the characteristics of the community and plans for
 19 addressing socioeconomic issues. Accordingly, to obtain input relevant to defining the AOI, as well as
 20 identifying current planning documents, proposed development projects, and other data relevant to the

1 analysis of the proposed project's indirect and cumulative impacts, planners in the City of Dallas offices
2 shown below were consulted during May–July, 2010:

- 3 • Sustainable Development and Construction Department (Chief Planner, Senior Planner,
4 Senior Program Manager for Transportation Planning, Senior Transportation Planner, and
5 Geographic Information Systems (GIS) Analyst);
- 6 • Dallas Design Studio (Senior Planner);
- 7 • Housing/Community Services Department (Chief Planner, and Planner II);
- 8 • Office of Economic Development (Chief Planner, Economic Development Analyst, and
9 Research Information Planner); and
- 10 • Trinity River Corridor Project (Director).

11
12 In addition, information was obtained from the Senior Coordinator for the South Dallas/Fair Park Trust
13 regarding community conditions, plans, and projects relating to indirect and cumulative impacts.
14 Information from interviews, planning databases, and maps obtained from the municipal planners
15 described above (hereinafter referred to collectively as “city planners”) is provided in the discussion of
16 indirect impacts in this section, and in the analysis of cumulative impacts in **Section 7.0**. Information from
17 city planners also guided the exercise of planning judgment that necessarily extends throughout the
18 analysis of both indirect and cumulative impacts.

19

20 **6.1.1 Project Attributes and Context**

21 As described in **Sections 1.0** and **2.0**, the proposed project consists of three interrelated transportation
22 components imbedded within the South Dallas area, all of which were constructed at different times.
23 Most prominent in this triangular-shaped project is the proposed downgrading of the SM Wright
24 Freeway/US 175 (2.2 miles) from a controlled-access highway to a low-speed urban parkway. The
25 creation of direct connections between CF Hawn Freeway/US 175 (1.5 miles) and IH 45 are central to the
26 creation of the SM Wright Parkway, and the safety and mobility improvements associated with removing
27 commuter traffic that now passes through South Dallas neighborhoods via the SM Wright Freeway. The
28 proposed improvements are expected to have the overall effect of integrating these three roadways to
29 serve the objectives of commuter transportation via freeways and to transform SM Wright Freeway to a
30 low-speed parkway that would benefit both safety and cohesion within the South Dallas community.
31 Construction sequencing would focus first on creating the connections between CF Hawn Freeway/US
32 175 and IH 45 to remove commuter traffic from SM Wright Freeway. This would be followed by a
33 complete reconstruction of the SM Wright Freeway and construction of the SM Wright Parkway. Design
34 plans for the SM Wright Parkway include signal intersections at major cross streets and construction of
35 sidewalks on both sides of the parkway.

1 The existing IH 45 and SM Wright/US 175 freeways have been major north-south transportation corridors
2 since the 1950s and 1960s, providing connections between the City of Dallas, south Dallas County and
3 regions to the south. The SM Wright/US 175 facility is a local urban freeway that carries a substantial
4 amount of local neighborhood traffic as well as through-traffic heading to and from CF Hawn/US 175 and
5 SH 310 toward downtown Dallas and other South Dallas destinations. In addition, SM Wright serves as a
6 parallel freeway for drivers who wish to bypass IH 45 for approximately two miles between the Dallas
7 CBD and the Trinity River, Lamar Boulevard, Loop 12 and IH 20 to the south. The elevated IH 45 within
8 the study corridor is a major interstate highway, handling substantial amounts of through traffic between
9 the City of Dallas, south Dallas County, and numerous municipalities in route to the City of Houston,
10 approximately 225 miles south of the Dallas CBD. There is an interchange of the CF Hawn/US 175
11 Freeway and SM Wright/US 175, south of which SH 310 is a small north-south connector that carries
12 traffic between the Dallas CBD and IH 45 at its southern terminus.

13
14 The proposed project extends through a highly urbanized area within the City of Dallas and has an
15 estimated construction footprint of approximately 203.7 acres. This includes approximately 32.4 acres of
16 new ROW and easements which would affect 4.93 acres of undeveloped land, 26.28 acres of developed
17 property (0.7 acres residential and 25.58 acres non-residential), and 1.15 acres of a joint use easement
18 within the UPRR ROW. The project area is on nearly flat land, most of which is within the Trinity River
19 floodplain or on an adjacent, gently sloping terrace to the east. The project area was characterized
20 prehistorically by bottomland forest and prairie savannah vegetation cover, and then was largely
21 converted to crop and pasture use. Much of the project area has been urbanized for over a century, and
22 the SM Wright Freeway has several historic neighborhoods located adjacent to or near it. Much of the
23 prehistoric Trinity River floodplain was initially cleared of trees for agriculture use, but these areas have
24 either been developed for mixed retail/commercial use, industrial use, residential use, parks, or have
25 remained undeveloped and have experienced regrowth of bottomland forests. In general, the
26 demographics of the project area include a predominantly African-American population (i.e., greater than
27 90%), with a substantial portion of the population living on incomes that are below the HHS poverty level
28 standard. In recent years this EJ community within and near the project area has received substantial
29 attention in terms of city planning initiatives to revitalize South Dallas neighborhoods and to encourage
30 economic development and redevelopment. Improvements to traffic circulation patterns and travel safety
31 are an important component of municipal plans involving South Dallas. Continued land
32 development/redevelopment and urban growth is anticipated throughout the corridor and in the region,
33 and a major purpose for the proposed project is to manage mobility generated by this growth while
34 enhancing access and community cohesion at the local neighborhood level.

6.1.2 Geographic Boundary of the AOI

The basic objective in creating an AOI is to delineate a study area within which all substantial project-related impacts are expected to occur. As the assessment of direct project impacts generally stops at the limits of the construction area within existing and proposed ROW/easements ('project footprint'), establishing an AOI extends the area of consideration to the point where all impacts are expected to attenuate to a negligible level.

The process for establishing an AOI for the proposed project first considered the potential reach of project-induced land use changes. This approach seeks to define an area beyond which the proposed project would not be likely to alter current conditions sufficient to cause investors or land developers to develop undeveloped land or redevelop urban areas. This is essentially a judgment based on the nature of the community to be served by the proposed project and the project's influence on traffic circulation and access to land. For example, access-controlled roadways, such as CF Hawn Freeway and IH 45, would be unlikely to affect changes in land use other than near highway access points or along frontage roads.⁶⁴ Within the project area, the proposed project would not create new exit/entry points or frontage roads for these freeways, and most of the improvements to CF Hawn Freeway and nearly all of the improvements to IH 45 would affect bridges or elevated ramps. Consequently, the process of defining the AOI focused primarily on the location of the SM Wright Freeway because it is proposed to be converted to an at-grade parkway that is surrounded by an existing residential community with a substantial commercial component located along major city streets.

As indicated above, within the context of a transportation improvement project, defining the AOI considers primarily the potential effect that improvements to a roadway would have on creating new access to surrounding properties or in increasing the efficiency of existing avenues of access. As the South Dallas area has an abundant network of major and minor roads, it is expected that the influence of reconstructing the SM Wright Parkway on changes in land use would attenuate before reaching major parallel roadways or railroad corridors. Thus, the northern boundary of the AOI follows SH 352 and the Texas and New Orleans Railroad. The western boundary of the AOI follows the route of the Gulf, Colorado, and Santa Fe Railroad corridor. The Trinity River forms a natural boundary to the south, and the Rochester Levee and an electrical transmission line corridor form the boundary to the east. The influence of floodplains and forests to the south and east of the SM Wright Freeway/US 175 ensure the attenuation of any potential project-induced land use change beyond those boundaries. This combination of natural and man-made constraints was used to establish the AOI boundary shown in **Appendix D-1**. The boundaries of the AOI are approximately 0.5 mile or more from the north and south ends of expected SM Wright Parkway construction footprint.

⁶⁴ See NCHRP Report 466, page 27.

1 The AOI boundary, which was included in the coordination with city planners discussed above, comprises
 2 an area of approximately 4,069 acres. The general characteristics of existing land use throughout the
 3 AOI are illustrated in **Appendix D-2**, which also includes a table of acreages for the types of land use
 4 shown.

5
 6 It is anticipated that any potential encroachment-alteration indirect impacts would occur within the AOI
 7 boundary described above. For example, based on the ephemeral nature of storm runoff channels and
 8 gently sloping topography of the project area, it is anticipated that most heavy construction-related
 9 sediment would be deposited near the construction site, and that after construction the quality of the
 10 water leaving the SM Wright and related roadway facilities would be similar to the quality of runoff from
 11 the existing facilities. Further, the impacts to riparian forest areas within the project footprint would not
 12 affect the vegetation, habitat, or wildlife beyond the direct impacts of the project. In light of the nature of
 13 the proposed improvements to existing roadways within this highly urbanized environment, the AOI
 14 boundary shown in **Appendices D-1** and **D-2** also serves as the outermost limit for all anticipated indirect
 15 impacts (both encroachment-alteration and project-induced land use impacts).

16 17 **6.1.3 Time Frame for Assessing Indirect Impacts**

18 A temporal frame of reference is necessary in addressing the range of impacts that may be caused by the
 19 proposed project in the future. The discussion below considers indirect impacts that may occur between
 20 the time of project construction and 2035, the project's design horizon year. The future year 2035 also
 21 correlates with the time frame for the *Mobility 2035* MTP.

22 23 **6.2 Step 2: Development Trends and Community Goals in the AOI**

24 This step presents information on general demographic, economic, social, and ecological trends within
 25 the AOI, in addition to goals of the community as reflected in local plans.

26 27 **6.2.1 Regional and Local Trend Data**

28 As indicated in **Table 6-2**, Dallas County is predicted to have increased growth in population and
 29 employment through 2035.

30
31
TABLE 6-2. DALLAS COUNTY POPULATION AND EMPLOYMENT GROWTH

Demographic	2005	2035	Growth	Percent Change
Population	2,273,250	3,125,282	852,032	37.5
Employment	1,895,059	2,854,287	959,228	50.6
Source: NCTCOG 2040 Demographic Forecast http://www.nctcog.org/ris/demographics/forecast/County2040.pdf , accessed January 2012.				

1 The indirect impacts AOI encompasses the South Dallas portion of the City of Dallas. As indicated in
 2 **Table 6-3**, the City of Dallas is forecasted to experience growth in both household population and
 3 employment from 2005 to 2035.

4 **TABLE 6-3. CITY OF DALLAS POPULATION, HOUSEHOLD AND EMPLOYMENT GROWTH**

Demographic	2005	2035	Growth	Percent Change
Household Population	1,307,899	1,652,479	344,580	26.3
Employment	1,044,234	1,547,800	503,566	48.2

Source: NCTCOG 2040 Demographic Forecast
<http://www.nctcog.org/ris/demographics/forecast/County2040.pdf>, accessed March 2012.

5
 6 Digital GIS maps obtained from the NCTCOG were used to identify land use categories and acreage
 7 within the AOI for 2010, as shown in **Table 6-4** and in **Appendix D-2**. Half of the AOI is roughly divided
 8 between residential and infrastructure land uses. Commercial and industrial uses comprise nearly 600
 9 acres and government/education uses make up 193 acres. There are approximately 496 acres of
 10 undeveloped land outside the 100-year floodplain in the AOI.

11 **TABLE 6-4. LAND USE WITHIN THE AOI**

Land Use Type	Acreage	Percent
Residential	941	23.1
Commercial	496	12.2
Industrial	98	2.4
Government/Education	193	4.8
Infrastructure ¹	981	24.1
Parks/Open Space	398	9.8
Undeveloped within Floodplain ²	413	10.1
Undeveloped outside Floodplain ²	496	12.2
Water	53	1.3
Total	4,069	100

Source: NCTCOG Land Use (2010).
Notes:
 1. Includes transportation and utilities.
 2. Includes undeveloped vacant, undeveloped under construction, and undeveloped parking.

12
 13 **6.2.2 Regional and Local Plans**
 14 A variety of plans exists to promote, guide, and monitor various development activities ranging from
 15 regional transportation infrastructure to residential, commercial, or industrial activities. **Section 2.4** of this
 16 EA provides brief descriptions of the following plans related to the project area: Trinity Corridor
 17 Comprehensive Land Use Plan (CLUP), the Balanced Vision Plan for the Trinity River Corridor (BVP), the
 18 Forward Dallas! Comprehensive Plan, regional rail transportation plans, the South Dallas/Fair Park
 19 Economic Development Corridor Plan, the MTP, and the TIP. As discussed in **Section 2.2**, the proposed
 20 project would implement a portion of regional transportation plans (i.e., MTP and TIP) to enhance regional
 21 mobility by improving the connectivity and safety of existing freeways. The reconstruction of SM Wright

1 Freeway as the SM Wright Parkway is part of the regional transportation plans as well, but also is a key
2 component of City of Dallas urban planning in recent years.

3
4 The *Forward Dallas! Comprehensive Plan* reflects the policies of the Dallas City Council for making
5 decisions about growth and development through 2020. The plan sets forth provisions on land use,
6 transportation, and public facilities and is the city's guide for the establishment of strong development
7 codes (updated in 2007). The Dallas Development Code describes in detail requirements for a variety of
8 land uses including transportation, infill development, site development, and protection of environmentally
9 sensitive areas. The *Forward Dallas!* plan assumes the reconstruction of SM Wright Freeway to a city
10 parkway to accommodate the city's development plans. An action plan for the South Dallas/Fair Park
11 neighborhood is included in the *Forward Dallas!* plan which articulates the city's vision for the future. The
12 indirect impacts AOI falls within the South Dallas portion of the action plan, which focuses attention on the
13 need for redevelopment to attract additional retail stores, removing unsightly landscapes, and
14 preservation of the neighborhood's identity. The action plan summarizes initiatives that are targeted
15 toward preserving and enhancing the relatively contiguous residential community that forms the core of
16 the South Dallas neighborhood, with major commercial/industrial areas located to the west of MLK Jr.
17 Boulevard and to the south of Lamar Street. The *Forward Dallas!* plan incorporates by reference specific
18 planning initiatives for the South Dallas neighborhood that are discussed in the CLUP and BVP.
19 Additionally, the *Forward Dallas!* plan references the South Dallas/Fair Park Economic Development
20 Corridor Plan which includes many area-specific initiatives designed to revitalize the neighborhood. The
21 following listing of planning objectives and initiatives summarize key provisions of these four land use
22 plans as they relate to the South Dallas community:

- 23 • Protect existing residential areas, and enhance them by providing better access to regional
24 trails and parks, and by providing greater access to quality retail shopping in adjacent areas;
25
- 26 • Commercial nodes for retail development and redevelopment to support the residential
27 neighborhood should include the intersections of Malcolm X Boulevard and MLK Jr.
28 Boulevard, Malcolm X Boulevard and Hatcher Street, along MLK Boulevard south of Lamar
29 Street, and along Bexar Street north of the CF Hawn/US 175 Freeway;
30
- 31 • Mixed use development/redevelopment should be encouraged in the area south of Lamar
32 Street near the CF Hawn/US 175 Freeway after extensions of the Dallas Floodway levee
33 system are constructed to provide protection from floodwater (existing plans also indicate
34 development/redevelopment of this area and the area south of CF Hawn/US 175 and east of
35 SH 310 would have potential for economic revitalization upon completion of the Trinity
36 Parkway);

- The conversion of SM Wright Freeway to a landscaped boulevard is not viewed primarily as an opportunity for introducing new commercial/retail development along it but to better link residential neighborhoods on both sides of the roadway and promote a greater sense of community.

In addition to the comprehensive and area land use plans discussed above, zoning rules form a key component of city management of urban land use. By enacting city ordinances that establish special purpose districts, the City of Dallas has created numerous zoning subdistricts with designated use authorizations and restrictions associated with each. For example, most of the AOI is located within Special Use District PD 595, which is predominantly comprised of single-family residential subdistricts, along with lesser amounts of duplex and multifamily subdistricts. Also within PD 595 are areas zoned as neighborhood or community commercial subdistricts with allow uses such as retail stores, offices, and personal services. In relation to the SM Wright Freeway, there are five such areas on the south side of the freeway zoned for neighborhood commercial use that total 8.5 acres, ranging in size from 0.7 to 3.4 acres. Additionally, a larger area (16.0 acres) at the intersection of SM Wright Freeway with MLK Jr. Boulevard is zoned for community commercial use. In addition to zoning management of land use, land development regulations also affect the natural resources of the area by regulating such activities as the removal of large trees and by restricting construction within floodplains.

A noteworthy implementation of regional transportation planning includes the completion of DART transit stations in South Dallas for the Green Line at Fair Park (northwest of the AOI limits) and the MLK Jr. Station near J.B. Jackson Avenue. In addition, DART service is now provided to Hatcher Street Station at Hatcher and Scyene Roads. Associated transit oriented development (TOD) is planned for the MLK Station (within the AOI) and around the Hatcher Station. Such TOD is characteristic of the continued push towards mixed-use and commercial development throughout much of the city's urban core.

6.3 Step 3: Inventory the Notable Features within the AOI

The third step in the indirect impacts assessment framework involves conducting an inventory of notable features within the AOI. Notable features include sensitive habitats and species, environmental components of value to the community, relatively unique or sensitive landscape features, and vulnerable elements of the population. The TxDOT ICI Guidance indicates that identifying notable features is important in assessing whether potential indirect impacts are substantial because such features may be more vulnerable or highly valued. The absence of mentioning a notable feature within the AOI does not indicate an absence of indirect impacts, but may be taken as an indication that there is less potential for the impacts to be substantial.

6.3.1 Sensitive Habitats and Species

Past agricultural land use and subsequent widespread urbanization within the AOI have rendered the scattered remnants of high quality forest habitat quite rare. A study of historical aerial photography combined with field reconnaissance indicate the highest quality bottomland/riparian forests in the AOI have reestablished within the past 50 years, and are located to the west of IH 45. Forest habitat of equivalent quality is uncommon to the east of IH 45 due to several factors including past site disturbance, proximity to industrial operations, and general site degradation by invasive species. Accordingly, remaining stands of bottomland forest west of IH 45 that are relatively contiguous are considered a sensitive resource, particularly where trees occur within the area outlined for the Great Trinity Forest. In addition, there are forested wetlands and open water features found in the vicinity of IH 45 that provide habitat to resident and migrating birds that are also sensitive habitat features. With regard to threatened or endangered species and species of concern, as discussed above in **Section 5.1.6**, the AOI does not include wildlife habitat that is essential to the survival of such species.

6.3.2 Valued Environmental Components

The City of Dallas has established several parks within the AOI that preserve open space and provide recreation opportunities for the community, including the following: Exline Park, Kimble Park, Moore Park, Nelson Park, Old City Park, Opportunity Park, and Wheatley Park (see list in **Table 5-19**). In addition, William Blair, Jr. Park (formerly Rochester Park) is a particularly large park which includes substantial bottomland/riparian forest habitat. William Blair, Jr. Park is also included within the much larger area designated for the creation of the Great Trinity Forest Park, which would provide opportunities for outdoor recreation within the forests of the Trinity River floodplain. Similarly, within the highly urbanized upland portion of the AOI, remnant forests have been removed except for individual trees that have survived as landscaping trees within a largely residential setting. Although not particularly valuable for habitat, the large live oak trees (some exceeding 20 inches dbh) that flank the SM Wright ROW are considered an important and sensitive aspect of the urban environment of the AOI.

The City of Dallas has been profoundly influenced by its proximity to the Trinity River, particularly in relation to the history of flooding. For over a century the response to flooding has been to construct and maintain a system of levees and manage the Trinity River floodplain to facilitate the conveyance of flood waters and protect human settlements. Consequently, a variety of governmental agencies have cooperated for decades to prevent encroachments that would diminish the flood storage capacity of the floodplain or interfere with the movement of flood waters through the area. Similarly, levees such as the Rochester Levee and the anticipated Dallas Floodway Extension are key components to the city's approach to co-existing within this flood prone environment.

6.3.3 Relatively Unique or Sensitive Landscape Features

As discussed above in **Step 2**, civic management policies relating to the AOI are reflected in zoning districts/subdistricts, development regulations, and land use plans. It is clear from a review of relevant municipal plans that the City of Dallas places a premium AOI municipalities anticipate continued managed growth and development in accordance with zoning plans. The zoning designations indicate community values in terms of the particular mix and locations of existing and future land uses. Clearly, the preservation and enhancement of residential communities in South Dallas is regarded as an important component of all city plans. For example, city planning documents include community cohesion among the beneficial effects of reconstructing SM Wright Freeway as a city parkway. Moreover, the historical importance of this well-established community is emphasized by the several historic residential districts that have been placed on the NRHP, as well as additional neighborhoods that may be eligible for NRHP listing. There are several historic cemeteries in the AOI, including the following: Oakland Cemetery, Mount Auburn Cemetery, Confederate Cemetery, and L. Butler Nelson Cemetery. There are also numerous NRHP listed or eligible sites (e.g., Forest Theater) within the AOI, along with state historic markers. Collectively, these cultural resources represent unique landscape features within the AOI.

6.3.4 Vulnerable Elements of the Population

The predominantly residential South Dallas community is characterized by several types of vulnerable populations. As discussed in the demographic analysis presented in **Section 5.2.9**, the neighborhoods surrounding the proposed project corridor are inhabited primarily by a relatively low-income African-American population. This population is protected by federal and state EJ policies that seek to avoid or minimize adverse impacts of infrastructure projects to protected populations.

In addition to EJ populations, certain categories of people may find it more difficult to bear the impacts of a transportation project than other groups. These sensitive elements of the AOI population include the elderly, children, medical patients, and persons with disabilities. Although people meeting these criteria may be found throughout the AOI, they tend to concentrate in facilities such as schools, childcare centers, elder care facilities and nursing homes.

6.3.5 Summary of Notable Features

The notable features within the AOI identified in the foregoing discussion are summarized below in **Table 6-5**.

TABLE 6-5. SUMMARY OF NOTABLE FEATURES IN THE AOI

Category of Notable Feature	Description
Sensitive Habitats and Species	Bottomland/riparian forest habitat
	Forested wetlands and open water near IH 45
Environmental Components	City parks and recreation areas
	Recreation areas within the Trinity River floodplain
	Large live oak trees along SM Wright Freeway/US 175
	Trinity River floodplain and levee systems
Unique/Sensitive Landscape Features	Residential community cohesion throughout South Dallas
	Historic residential districts and other cultural resources
Vulnerable Elements of Population	Environmental justice (i.e., low-income minority) population
	Elderly people, children, or persons with disabilities who live in or attend facilities that are proximate to sources of exhaust emissions and/or particulates

1

2 **6.4 Step 4: Identify Impact-Causing Activities of Proposed Action**

3 This step summarizes the impact-causing activities of the proposed project from the beginning of
 4 construction to maintaining the operating facility. The purpose of this step is to identify the anticipated
 5 project-related activities that may come into conflict with the community goals and notable features
 6 discussed above in **Step 2** and **Step 3**, respectively.

7

8 The proposed project would remove frontage roads and bridges, and reconstruct the SM Wright Parkway
 9 within existing ROW. Construction of the direct connectors between IH 45 and CF Hawn Freeway/US
 10 175 would require 32.4 acres of additional ROW and UPRR easement. It is estimated that existing
 11 pavement and vegetation ground cover would be removed to create the improved meandering SM Wright
 12 Parkway design. However, removal of frontage road pavement near the limits of the SM Wright ROW
 13 would be accomplished so as to preserve the large live oak trees that are located just beyond the
 14 frontage road curbs. Otherwise, vegetation would be removed within a 20-foot construction zone
 15 extending from the outer edge of proposed new pavement surfaces. Earth grading equipment would alter
 16 the existing facility's vertical alignment according to design specifications, and perform other grading
 17 activity within existing and proposed ROW. The overall construction footprint for the proposed project
 18 would affect approximately 203.7 acres of land.

19

20 Based on the foregoing summary of expected construction activity, descriptions of potential impact-
 21 causing activities are summarized in **Table 6-6**. The major headings for items in the table are presented
 22 in the same order they appear in **Section 5.0** to facilitate cross-referencing with the corresponding
 23 discussion of direct impacts. This assessment of impact-causing activities is based on the assumption
 24 that construction and operation of the proposed facility would be in accordance with current industry
 25 standards and practices, and consistent with the experience from previous transportation projects. The
 26 various types of activities noted in **Table 6-6** are based on the examples provided in the TxDOT ICI

1 Guidance and NCHRP Report 466, and have been tailored to fit the design and environmental context of
 2 the proposed project.

3

TABLE 6-6. IMPACT-CAUSING ACTIVITIES OF THE PROPOSED PROJECT

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
Natural Resources (see Section 5.1)	
Modification of Regime – Storm Water Drainage	The reconstruction of SM Wright Freeway to create a parkway would not require replacement of storm drains that cross the facility. Likewise, the construction of direct connectors between IH 45 and CF Hawn Freeway/US 175 would utilize existing cross drainage structures or bridge over open storm drainage channels. No aspect of the proposed project would affect water features that are jurisdictional under Section 404 of the CWA. [See Sections 5.1.1 and 5.1.2]
Modification of Regime – Floodplain Intersection	Approximately 2.5 acres of at-grade portions of the proposed project overlap with the 100-year floodplain for the Trinity River. Other portions of the proposed project which overlap the floodplain would be on structures elevated above the expected water surface elevation for the 100-year floodplain; bridge columns for these structures would have a negligible impact to the floodplain beneath these elevated structures. The SM Wright Freeway is not within a 100-year floodplain except for 0.5 acre near Hatcher Street. The hydraulic design of the project would permit conveyance of the 100-year flood, and potential inundation of the small roadway sections within the 100-year floodplain would not cause substantial damage to the roadway, the Trinity River or its floodplain, or other property. [See Section 5.1.3]
Modification of Regime – Soil Disturbance and Water Quality	Ground disturbance during site grading to create cut and fill to meet design specifications would create the potential for increased erosion of soil, which could lead to sedimentation in local storm runoff channels. During construction, BMPs would be in place (e.g., SW3P) to minimize erosion through temporary reseeded activity, detention facilities, and various approved soil stabilization methods. After construction, herbaceous ground cover would be reestablished with seeding mixtures and techniques that meet TxDOT specifications. Operation of the facility after construction would not be expected to degrade water quality in the area beyond that caused by the existing facilities. [See Section 5.1.4]
Modification of Regime – Vegetation Removal	The construction footprint for the project is approximately 203.7 acres, of which 195.05 acres is existing paved surfaces and associated maintained grass. The remaining 8.65 acres would have permanent impacts to forested habitat during land clearing and grading as described below: <ul style="list-style-type: none"> • 7.57 acres – riparian/bottomland forest (e.g., American elm and hackberry); • 1.08 acres – upland forest that is primarily landscaping for developed areas. The estimated total number of trees greater than 6 inches dbh to be removed is 1,068 trees. Permanent herbaceous ground cover would be created for cleared areas that are not used for the new facility. [See Section 5.1.5] The removal of the 8.65 acres of upland and riparian forest vegetation noted above may affect wildlife habitat available for animal species that commonly occur in the project area. In light of the quantity and quality of this habitat, and its proximity to the human urban environment, no adverse effects are expected to any threatened or endangered species that are thought to occur within Dallas County where preferred habitat exists. In response to the TPWD recommendation, TxDOT will coordinate with appropriate city staff to determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity Forest area (see Appendix B-5). [See Section 5.1.6]
Modification of Regime – Loss of Prime Farmland	The project is located within the City of Dallas limits and all areas identified for new ROW are zoned for urban uses. Consequently, impacts that might otherwise occur to prime farmland soils are exempt from the provisions of the FPPA. [See Section 5.1.7]
Type of Activity – Alter Air Quality	The current and future operation of the three major roadway components of the proposed project would produce air emissions from the mobile sources. The traffic volume for the design year and accompanying air emissions that contribute

TABLE 6-6. IMPACT-CAUSING ACTIVITIES OF THE PROPOSED PROJECT

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
	to the creation of atmospheric ozone are consistent with the MTP and TIP. A modeling study of CO emissions from the project in its design year indicates that air quality standards would not be exceeded. Modeling of MSAT emissions expected from the project indicates that MSAT emissions in the design year would be substantially less than at present; quantitative modeling analysis indicates that, despite an increase in VMT expected for the project, the implementation of EPA’s vehicle emission control standards would outpace the effects of increased traffic in terms of MSAT emissions. [See Section 5.1.8]
Community Impact Assessment (see Section 5.2)	
Changes in Traffic – Influence on Growth	The estimated increase in population and employment from 2005 to 2035 for Dallas County is 37.5 percent and 50.6 percent, respectively. The projected population and employment growth rates from 2005 to 2030 for the City of Dallas are 13.4 percent and 25.2 percent, respectively. The proposed project would remove commuter traffic from the reconstructed SM Wright Parkway, thereby facilitating municipal plans to enhance community cohesion and encourage economic revitalization. Direct freeway connection between IH 45 and CF Hawn Freeway/US 175 would improve mobility in support of expected regional and community growth by facilitating the movement of goods and commuters. [See Sections 2.2, 5.2.1, and 5.2.4]
Land Alteration – Conversion to ROW	<p>Approximately 32.4 acres of land would be converted to transportation ROW for the proposed project. This acquisition of new ROW would alter the following amounts and types of land use: 4.93 acres undeveloped; 0.7 acres developed residential; 25.58 acres developed non-residential and 1.15 acres UPRR ROW. The proposed roadway improvements have been coordinated with city planning officials and are included in municipal planning documents. Conversion of land to ROW and construction of the project would require adjustments to existing utilities, but only temporary interruptions in service are anticipated. [See Sections 2.4 and 5.2.2]</p> <p>The project would affect structures on 17 properties (six residential, 10 commercial and one on joint use easement with the UPRR. These properties contain 24 structures, six single-family residences (including car garages), nine commercial structures (including buildings and canopies at gasoline service stations) and six billboards that would be displaced by the proposed project. Four of the six residences and four of the 10 commercial properties have been early acquired by the City of Dallas. [See Section 5.2.5 and Appendix C-11]</p> <p>The changes in land use associated with the project are not anticipated to alter the aesthetic character of the surrounding South Dallas community. [See Section 5.2.11]</p>
Land Alteration – Alter Section 4(f) Land	<p>A survey of the project area indicates there are three Section 4(f) resources, Kimble Park, William Blair, Jr. Park (formerly Rochester Park), and the future Great Trinity Forest located adjacent to the project. No physical impacts would occur to either of the parks, and 1.25 acres of new IH 45 ROW would be required from the future Great Trinity Forest to accommodate design changes. Based on previous coordination with FHWA, the 1.25 acres of land to be converted to transportation use are not currently designated as parkland or other uses subject to Section 4(f) regulations; therefore, Section 4(f) would not apply to these areas. [See Section 5.2.3]</p> <p>The proposed project would require approximately 0.9 acre of ROW from the DISD facility (former Procter and Gamble Manufacturing Plant) addressed 3701 S. Lamar Street, which has been determined eligible for listing in the NRHP, at the local level of significance. Due to the minimal nature of the proposed impact, a Section 4(f) <i>de minimis</i> impact determination can be sought. TxDOT anticipates that the proposed project would result in a <i>de minimis</i> determination by the FHWA for the Section 4(f) resource. See Section 5.2.3 for details.</p> <p>A traffic noise analysis was conducted to determine whether the proposed project would cause proximity impacts to Kimble Park or William Blair, Jr. Park. The design of the proposed project, including noise abatement walls, would not require the use of, nor substantially impair the purposes of these parks. [See Section</p>

TABLE 6-6. IMPACT-CAUSING ACTIVITIES OF THE PROPOSED PROJECT

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
	5.2.12]
Access Alteration – Alter Travel Circulation	<p>An IAJ report was prepared for the proposed project and approved by FHWA in April 2012. The proposed project would not change access to either IH 45 or CF Hawn Freeway/US 175, but construction of the direct connectors between these facilities would divert commuter traffic from the existing SM Wright Freeway. Control of access for ramps and frontage roads of IH 45 and CF Hawn Freeway/US 175 would be consistent with TxDOT design criteria and would effectively maintain existing access routes to abutting properties. The proposed project would generally improve mobility for both local and regional traffic flow [See Sections 2.2.1 and 5.2.6].</p> <p>The reconstruction of the SM Wright Freeway as a city parkway would remove frontage roads and ramps to create a parkway, thereby obviating control of access. The conversion of the existing controlled-access facility would remove pass-through commuter traffic and convert the existing facility into an urban parkway that would promote cohesion within the adjacent residential neighborhoods. [See Section 5.2.7]</p> <p>Of the 11,596 persons within the 18 Census block groups located within 0.25 mile of the proposed project ROW, approximately 7 percent (776 people) speak English less than “very well.” Steps have been and would continue to be taken to ensure all LEP populations have access to programs, services, and information provided by TxDOT. [See Section 5.2.8]</p> <p>An analysis of the 223 Census blocks with residential populations, within 0.25 mile of the proposed project ROW indicates that 217 contain minority populations of 50 percent or greater. The demographic data for the Census blocks indicate a predominance of an African American and Hispanic populations throughout the project area. Accordingly, much of the project area consists of EJ populations. Additionally, the percentage of the households within the 18 Census block groups reporting median household incomes below the poverty level ranges from 16 percent to 68 percent. Based on the totality of effects from the proposed project (impacts not borne by only EJ populations, impacts not appreciably more severe on EJ populations, and benefits associated with the proposed improvements to be felt by both EJ and non-EJ populations), disproportionately adverse impacts on minority and/or low income populations are not anticipated. Indeed, the particular design of the proposed project is expected to result in beneficial effects for EJ and low-income populations in the project area. [See Section 5.2.9]</p> <p>The project would generally improve mobility to public facilities and services within the project area. [See Section 5.2.10]</p>
Modification of Regime – Traffic Noise	The project would result in traffic noise impacts and implementation of noise abatement measures would occur in accordance with FHWA/TxDOT guidelines. [See Section 5.2.12]
Changes in Traffic – Alter Traffic Operations	Overall, the NCTCOG performance reports do not provide a clear indication of substantial or widespread improvement to LOS for the Build Alternative. However, the slight improvements of LOS show the project would improve operability, connection, and mobility. [See Section 2.2.1 ; see also Section 5.2.13]
Cultural Resources (see Section 5.3)	
Modification of Regime – Non-Archeological Historic Structures	The proposed project would require approximately 0.9 acre of ROW from the DISD facility addressed 3701 S. Lamar Street. The facility was formerly the Procter and Gamble Manufacturing Plant that has been determined eligible for listing in the NRHP, at the local level of significance. On June 5, 2013, TxDOT completed consultation on effects to this NRHP-eligible property with the State Historic Preservation Officer (SHPO) under Section 106 of the National Historic Preservation Act (NHPA). The coordination determined that the proposed project would have “No Adverse Effect to the Eligible Former Procter and Gamble Manufacturing Plant.” [See Section 5.3.1]
Modification of Regime – Archeological Sites	Based on coordination with TxDOT archeologist in 2011, the proposed project would affect no archeological sites listed in, or determined eligible for designation in, the NRHP. Since 2011, there have been revisions to the proposed project with

TABLE 6-6. IMPACT-CAUSING ACTIVITIES OF THE PROPOSED PROJECT

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
	additional areas of new proposed ROW and easement. Coordination is ongoing. [See Section 5.3.2]
Other Resources/Issues (see Section 5.4)	
Modification of Regime – Hazardous Wastes	A total of 31 sites were determined to pose a high risk to ROW acquisition and/or construction of the proposed project. It is expected that subsurface investigations (soil boring samples, ground water samples, etc.) would be conducted within the vicinity of the identified high risk sites prior to ROW acquisition and construction to determine if site remediation is necessary. Measures would be taken during construction to prevent, minimize, and control the spill of hazardous materials and ensure workers' safety. [See Section 5.4.1]
Modification of Regime – Airway-Highway Issues and Other Potential Issues	Airway-highway clearance is not required, as the proposed improvements are at least 8 miles away from the nearest airport facility. The proposed project would have no impacts on the Texas Coastal Zone Management Program or on federally-designated Wild and Scenic Rivers. [See Section 5.4.2]
Facility Operation Issues	
Chemical Treatment – Road Maintenance	Various post-construction maintenance activities would be resumed for the project, including grass mowing and use of chemicals, as necessary, for weed or pest control. It is also expected that sand, salt, or a mixture of both would be applied as necessary to road surfaces to prevent icing during cold weather. These activities would be conducted in accordance with standard TxDOT practices and are not expected to affect any change from the activities currently applied to the existing roadway facilities.

1

2 **6.5 Step 5: Identify Potential Indirect Impacts for Analysis**

3 The objective of this step is to screen the various types of potential indirect impacts for those impacts
4 considered substantial, which are then examined in greater detail in **Step 6**. This approach applies the
5 understanding of impact-causing activities discussed in detail as part of the direct impacts analysis (i.e.,
6 **Section 5.0**) and summarized in **Step 4** to explore cause-effect relationships with the study area's goals
7 and notable features (**Steps 2** and **3**). As noted in TxDOT's ICI Guidance, "Whether an impact is
8 substantial is a function of the context, the likelihood of the impact, and the reversibility of the impact."
9 The guidance also points out that evaluating impacts in light of area goals is important because impacts
10 that conflict with area goals would likely be considered substantial. Impacts affecting any of the notable
11 features within an AOI would also likely be considered substantial. This step builds upon the initial
12 screening of potential indirect impacts examined in **Step 1** and used to define the AOI.

13

14 In the discussion that follows, relevant aspects of area goals and notable features are considered for
15 each of the three categories of indirect impacts. These goals and notable features were evaluated in
16 terms of whether the impact-causing activities outlined in **Table 6-6** would likely extend beyond the
17 project construction footprint and, if so, the relative magnitude of the expected impacts. The method for
18 this screening step applied the qualitative inference technique discussed in NCHRP Report 466⁶⁵ which
19 uses "professional judgment of the possible changes that the proposed project would entail." This
20 approach draws heavily upon an understanding of ecological, economic, demographic, and social

⁶⁵ See, NCHRP Report 466, page 66.

1 information developed during the analysis of direct impacts. This step of the analysis assesses whether
2 notable features within the AOI would likely receive indirect impacts attributable to the proposed project.
3 Potential indirect impacts identified in this step as substantial are then evaluated further in **Step 6**. For
4 those types of potential indirect impacts that are not considered to result in substantial impacts, a brief
5 statement of rationale is provided.

6 7 **6.5.1 Encroachment-Alteration Impacts**

8 9 ***Ecological Encroachment-Alteration Impacts***

10 This subsection first considers whether the proposed project would be likely to encroach upon the
11 forested wetlands and open water areas near IH 45, which are notable sensitive habitat features. As
12 suggested in the discussion in **Step 1**, impacts to water resources are not expected to result in
13 substantial impacts that would reach beyond the project construction footprint. As no impacts are
14 expected to water features subject to Section 404 jurisdiction, there would also be no opportunity for fill to
15 be added to jurisdictional water features beyond the construction footprint. Similarly, the minor
16 encroachments to the Trinity River 100-year floodplain (i.e., 2.5 acres) would be limited to the at-grade
17 portions of the proposed project, as the remaining overlap with the floodplain (46.8 acres) would be on
18 structures elevated above the expected water surface level of the 100-year flood. With regard to erosion
19 of soil from construction sites, some sedimentation is possible despite the implementation of erosion and
20 sediment control measures that would be part of the SW3P. Such impacts, however, are expected to be
21 minor and temporary, and would effectively cease upon establishing permanent vegetation cover after
22 construction. In light of local goals and notable features in the AOI, this temporary and limited possibility
23 of erosion and sedimentation is not considered a substantial indirect impact.

24
25 A second notable feature, bottomland/riparian forest habitat which also occurs primarily near IH 45, was
26 examined for potential encroachment-related impacts. The effects of removing bottomland/riparian forest
27 habitat from the proposed project would not likely extend beyond the forested areas that would be cleared
28 of woody vegetation. The riparian forest impacts to the west of IH 45 would affect the edge of a rather
29 contiguous bottomland forest, but would not result in fragmentation impacts that could extend beyond the
30 cleared area. That is, the principal fragmentation impacts occurred decades ago with the construction of
31 IH 45 and the Union Pacific Railroad, and removing 1.25 acres of additional forest habitat from the forest
32 edge would not be expected to add appreciably to the existing condition. Moreover, potential indirect
33 impacts would be moderated because, as with the existing IH 45 facility, the proposed access ramp
34 would be on structure approximately 30 feet above the forest floor. This condition allows ground-dwelling
35 wildlife the opportunity to cross underneath IH 45 to access forested areas on either side of the highway.
36 Accordingly, impacts to riparian habitat would be limited to the area of direct impacts and no
37 encroachment impacts are expected to bottomland/riparian forests located beyond the project

1 construction footprint. The limited direct impacts of the proposed project on forest habitat are not
2 expected to affect the populations of any rare species in the area, nor is it expected that there would be
3 indirect impacts to such species elsewhere as a result of forest habitat removal. In response to the
4 TPWD recommendation, TxDOT will coordinate with appropriate city staff to determine if mitigation for
5 impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity
6 Forest area (see **Appendix B-5**).

7
8 The proposed project was evaluated for potential encroachments to the environmental component
9 notable features in **Table 6-5**. With the exception of two parks, all construction aspects of the proposed
10 project would be at least 400 feet removed from any park or recreation area. This distance, when
11 considered within the urban context of the project, would make it very unlikely for proposed roadway
12 improvements to have any encroachment effects on parks or recreation areas. Adverse encroachment
13 alteration impacts are also not expected to Kimble Park and William Blair, Jr. Park (formerly Rochester
14 Park), both of which are adjacent to project roadways. Kimble Park is located north of the proposed SM
15 Wright Parkway, between Warren Avenue and Pennsylvania Avenue, and would benefit from
16 improvements to downgrade the existing freeway which would reduce the traffic noise level by seven
17 dB(A) (see **Table 5-19**, Receiver R39). No adverse encroachment impacts are expected to William Blair,
18 Jr. Park because the park is located on the east side of IH 45, which is opposite the location of a
19 proposed southbound access ramp and nearly 250 feet from it. In addition, this park would be farther
20 removed from any effects of the proposed ramp because the ramp would be built on structure. Similarly,
21 existing and potential future recreation areas within the Trinity River floodplain would not be adversely
22 affected by the addition of a southbound access ramp build on structure on the west side of IH 45.
23 Finally, the large live oak trees along SM Wright Freeway/US 175 are not expected to be harmed by
24 roadway improvements, provided that construction contractors take suitable precautions to prevent injury
25 to these trees during construction in nearby areas.

26
27 The analysis of the “direct” impacts of the proposed project to air quality is essentially a study of
28 encroachment-alteration indirect impacts because the impacts are realized after the project is constructed
29 and impacts occur away from the construction footprint. As discussed in detail in **Section 5.1.8**, no
30 substantial impacts are expected in terms of air quality, as air pollutants of concern either attenuate
31 quickly as they move away from the roadway (e.g., CO and MSATs) or are included in air emission
32 budgets that are part of regional ozone abatement plans. As the DFW region is in nonattainment for
33 ozone, the EPA regulates progress toward compliance with the CAA through implementation of emission
34 reduction strategies outlined in the SIP. Mobile source emissions associated with the proposed project
35 improvements are included in regional plans for SIP compliance, and further analysis of potential indirect
36 impacts of ozone-related emissions is not warranted. With regard to MSAT emissions, it is possible that
37 MSAT levels may temporarily increase near sensitive receptor locations in the AOI (e.g., elder care

1 facilities, schools, youth recreation centers, and child care facilities) during project construction. However,
2 over time MSAT emissions would decrease as EPA's national vehicle engine and fuel regulations are
3 implemented. Further consideration of potential indirect impacts of MSAT, CO, and other vehicle
4 emissions relating to vulnerable elements of the local population would not be warranted.

6 *Socioeconomic Encroachment-Alteration Impacts*

7 As discussed in detail in **Section 2.2** and summarized in **Section 6.1.1**, the proposed improvements are
8 designed to improve mobility and enhance safety for all three of the major roadways comprising the
9 proposed project. To a great extent, these major components of the “need” for the proposed project are
10 also a source of anticipated encroachment-alteration indirect impacts. Consequently, several aspects of
11 the Community Impact Assessment that are expected to be affected by changes in travel patterns will be
12 explored further in **Step 6**, including matters relating to the alteration of traffic circulation and traffic
13 operations. Likewise, the proposed project is expected to facilitate the growth of population and
14 employment within the AOI, enhance community cohesion, and encourage economic revitalization, all of
15 which are considered important local area goals. Accordingly, it is expected that beneficial effects to the
16 notable feature relating to community cohesion would result from the proposed project, and further
17 consideration of this aspect of potential encroachment impacts would be unnecessary. Similarly, the
18 community cohesion and safety aspects of the proposed downgrade of SM Wright Freeway would benefit
19 a vulnerable element of the community, which is predominantly an EJ population.

20
21 The potential for the proposed project to adversely affect notable cultural resources (e.g., historic
22 residential districts and landmarks) was examined in this step. As with the observation regarding
23 community cohesion above, it is expected that the proposed design to downgrade SM Wright Freeway to
24 a parkway facility would be beneficial for adjacent or nearby historic resources because it would tone
25 down the presence of the roadway within this residential community. The analysis of direct impacts to
26 cultural resources in **Section 5.3** also included an assessment of proximity impacts to cultural resources,
27 which is effectively an examination of encroachment alteration effects of the proposed project. As neither
28 direct nor proximity impacts are anticipated to cultural resources, further consideration of potential indirect
29 impacts to cultural notable features would be unwarranted.

31 **6.5.2 Project-Induced Land Use Change**

32 Undeveloped land and potential sites for redevelopment are present within the AOI. The proposed
33 project is anticipated to result in improvements to mobility that, along with forecasted growth, could
34 influence property values and the overall supply and demand for goods and services within the AOI. As
35 the proposed improvements could result in a change to the type, amount, or timing of development within
36 the AOI, additional analysis is warranted in **Step 6**.

6.5.3 Impacts Resulting from Project-Induced Land Use Change

As indicated above, an evaluation of expected project-induced changes in land use are included in **Step 6**. It follows that changes in land cover and other potential impacts to the natural and human environment would accompany changes in land use, which are discussed in **Step 6**.

6.6 Step 6: Analyze Indirect Impacts and Evaluate Results

The purpose of this step is to determine if the indirect impacts identified in **Step 5** are likely to be substantial by further analyzing the magnitude, probability of occurrence, timing and duration, and degree to which the impact can be controlled or mitigated.⁶⁶ An integral component to this step is to reconsider key assumptions used in the indirect impacts analysis and evaluate the extent to which uncertainty associated with these assumptions may affect the results of the analysis.

6.6.1 Encroachment-Alteration Impacts

As determined in **Step 5**, substantial encroachment-alteration impacts are not anticipated within the AOI except for several topics related to socioeconomic impacts discussed below. As noted above in **Section 6.5.1**, the discussions of direct impacts for several resources or issues traditionally and appropriately extend the reach of direct impacts beyond the construction footprint of the project and well into the future. Unavoidably, this creates overlap between the direct impacts analysis and the evaluation of indirect impacts for topics such as air quality, traffic noise, and most of the issues addressed in the Community Impacts Assessment in **Section 5.2**. For this reason, references to discussions in the direct impacts analysis (**Section 5.0**) are provided below to avoid unnecessary repetition of information already covered.

Alteration of Travel Circulation

The proposed project improvements would profoundly alter the current circulation of traffic patterns along the SM Wright Freeway/US 175. The reconstruction of the SM Wright Freeway as a low-speed parkway would eliminate the commuter traffic that would be diverted to/from IH 45 by way of the direct connectors to CF Hawn/US 175. The sharp-turn safety hazard located where CF Hawn connects with SM Wright Freeway would be removed. The reconstructed SM Wright Parkway would have stop lights at major cross streets and sidewalks would be created in the place of existing frontage roads. These changes to the purpose and functioning of the SM Wright facility would have a transforming effect on the community. Instead of a high-speed controlled access roadway dividing neighborhoods there would be a landscaped city street that would foster greater cohesion within this community characterized by historic neighborhoods and sites. The removal of existing frontage roads and replacement with pedestrian sidewalks would be an important component to this transformation.

⁶⁶ See, Step 6 of NCHRP Report 466, page 71.

1 This beneficial effect to cohesion is particularly valuable within the AOI in light of the EJ populations that
 2 have been adversely affected since the construction of the existing facility. In addition, other vulnerable
 3 elements of the population (i.e., elderly people, children, persons with disabilities) near the SM Wright
 4 facility would benefit from the lower vehicle speed and traffic volume, increase in safety, and
 5 corresponding reduction in traffic noise and exhaust emissions. The overall result would be a safer and
 6 more aesthetic roadway that would dovetail with objectives reflected in City of Dallas planning
 7 documents. Although such beneficial indirect effects cannot easily be quantified, they are nevertheless
 8 substantial and important to the community. Moreover, such benefits would not be achieved at the
 9 expense of regional mobility because the direct connectors between IH 45 and CF Hawn/US 175 would
 10 create a safer and more efficient route for commuter and regional traffic.

11

12 Alteration of Traffic Operations

13 Changes in traffic operations have been assessed for the design year using NCTCOG data for the
 14 proposed SM Wright improvements. Utilizing a traffic study area (3,834 acres) developed by the
 15 NCTCOG, performance reports were generated for freeways, frontage roads, principal and minor
 16 arterials, collector roads, and freeway ramps. These performance reports allowed for a direct comparison
 17 of changes in average speed and LOS within the traffic study area. Project-related data for the 2035
 18 average loaded speed on the various roadway classifications for the No-Build and Build alternatives are
 19 provided in **Table 6-7**. The average loaded speed is the volume-weighted average speed on roadways
 20 with traffic on the road. An increase in average loaded speed indicates a faster trip time and a decrease
 21 in average loaded speed indicates a slower trip time. The NCTCOG performance reports indicate the
 22 average daily loaded speed for the Build Alternative (as compared to the No-Build Alternative) increases
 23 for freeway ramps and frontage roads, increases slightly for minor arterials and collectors, but decreases
 24 slightly for freeways and major arterials.

25

TABLE 6-7. ESTIMATED AVERAGE LOADED SPEED FOR 2035

Roadway Classification	No-Build – Miles per Hour			Build – Miles per Hour			Percent Change		
	AM	PM	Daily	AM	PM	Daily	AM	PM	Daily
Freeways	34.08	35.65	42.47	33.21	35.63	40.86	- 2.6	- 0.1	- 3.8
Principal Arterials	21.90	25.74	25.41	22.76	23.82	25.20	3.9	- 7.5	- 0.8
Minor Arterials	24.64	25.54	25.68	25.69	26.41	26.82	4.3	3.4	4.4
Collectors	19.97	20.29	21.18	20.63	21.14	21.86	3.3	4.2	3.2
Freeway Ramps	24.30	25.33	27.88	28.05	30.40	33.17	15.4	20.0	19.0
Frontage Roads	23.15	24.49	25.47	24.31	28.13	27.66	5.0	14.9	8.6

Source: NCTCOG TransCAD® data for 2035 Average Loaded Speed - Build and No-Build Alternatives (Complete Performance Report for the proposed SM Wright Project area, November 2011).

26

1 NCTCOG performance reports also contain modeled LOS results for the No-Build and Build alternatives
 2 under estimated traffic conditions for the design year. These results for the traffic study area are provided
 3 in **Table 6-8**. These data suggest improvement in the number of lane-miles with LOS A-B-C under the
 4 Build Alternative for principal arterials, but only a slight improvement for minor arterials. Otherwise, the
 5 results vary widely with respect to LOS changes relating to freeways and freeway-related components.
 6 Overall, the NCTCOG performance reports do not provide a clear indication of substantial or widespread
 7 improvement to LOS for the Build Alternative.

8

TABLE 6-8. ESTIMATED DAILY LEVEL OF SERVICE FOR 2035

Roadway Classification	LOS	No-Build – Lane Miles	Build – Lane Miles	Percent Change
Freeways	A-B-C	6.99	5.73	- 18.0
	D-E	22.34	13.76	- 38.4
	F	13.04	18.10	38.8
Principal Arterials	A-B-C	16.98	19.74	16.3
	D-E	4.90	8.05	64.3
	F	3.78	5.70	50.8
Minor Arterials	A-B-C	12.52	12.58	0.5
	D-E	0.00	0.00	n/a
	F	0.00	0.00	n/a
Collectors	A-B-C	33.04	32.90	- 0.4
	D-E	3.07	4.42	44.0
	F	0.55	0.51	- 7.3
Freeway Ramps	A-B-C	6.37	6.72	5.5
	D-E	0.33	0.39	18.2
	F	3.14	1.46	- 53.5
Frontage Roads	A-B-C	11.76	5.64	- 52.0
	D-E	0.00	0.14	n/a
	F	0.44	0.39	- 11.4

Source: NCTCOG TransCAD® data for 2035 Lane Miles at LOS - Build and No-Build Alternatives (Complete Performance Report for the proposed SM Wright Project, November 2011).

9

10 *Socioeconomic Impacts*

11 It is expected that the combined effects of altered travel circulation and some improvement in non-
 12 highway travel speeds and LOS would positively impact local transit, emergency, and other public
 13 services, as time spent in congestion is anticipated to decrease with the overall improvement in roadway
 14 operational conditions. This proposed project would succeed if all components are constructed to allow a
 15 substantial portion of future traffic to be diverted away from the SM Wright facility as a result of the IH 45
 16 and CF Hawn/US 175 direct connectors. Improved access to these services is a benefit to all
 17 populations, including sensitive elements such as the elderly, children, minority groups, and low-income
 18 groups. Increased mobility and improved LOS could also stimulate economic growth in the AOI
 19 surrounding the SM Wright Parkway, and thereby could result in infill development of residential and
 20 commercially zoned parcels. Such infill of existing vacant properties would be consistent with
 21 development goals as outlined in City of Dallas comprehensive plans and ordinances. Improved mobility

1 could also increase visits to the Fair Park tourist attraction as motorists originating their travel from both
2 inside and outside the AOI experience decreased congestion levels on the SM Wright facility.

3
4 As the above travel-related impacts are either consistent with the objectives of the City of Dallas for the
5 AOI and with regional transportation plans and do not adversely impact notable features, the anticipated
6 encroachment-alteration effects would be positive. These impacts would also be expected to create a
7 slight increase in demand on the existing undeveloped land of the AOI as well as already developed land
8 that with structures in poor condition. Over the long term, as mobility along the proposed SM Wright
9 Parkway and CF Hawn/US 175 is improved and as growth continues, residential and commercial infill
10 could reach a maximum thereby decreasing supply such that the demand for further new developments
11 increases. The aforementioned would serve as contributing factors to project-induced land use change,
12 which is further discussed in **Section 6.6.2** below.

13 14 **6.6.2 Project-Induced Land Use Change**

15 The evaluation of whether the proposed project is likely to result in project-induced land use change is
16 patterned after the procedures in the NCHRP Report 25-25, Task 22. Project-induced land use change
17 can include project-induced development, the redevelopment of already developed land, or a change in
18 the rate of development/redevelopment. Of the six land use forecasting tools introduced in the report, the
19 “planning judgment” forecasting tool was used as the framework for the analysis. The planning judgment
20 method requires the use of a stepwise methodology developed for the Oregon Department of
21 Transportation.⁶⁷ The planning judgment methodology seeks to make reasonable judgments about
22 potential project-induced impacts based on information gained from the opinions and experience of
23 professionals, through literature review, and through an assessment of existing and forecasted local
24 conditions. To this end, input from local planners was obtained via questionnaires and/or interviews in an
25 effort to assess the potential for project-induced land use impacts. The City of Dallas planners and other
26 officials consulted are listed above in **Section 6.1**.

27
28 As described in the NCHRP Report 25-25, Task 22, **Table 6-9** summarizes key variables that might
29 contribute to measurable changes in local development patterns in response to a transportation
30 improvement project.

⁶⁷ ECONorthwest and Portland State University for the Oregon Department of Transportation (2001), *A Guidebook for Evaluating the Indirect Land Use and Growth Impacts on Highway Improvements*.

TABLE 6-9. KEY VARIABLES CONTRIBUTING TO INDUCED LAND USE CHANGE

Key Variable	Standards of Assessment	Assumption
Change in Accessibility	Measured in travel time or delay, if available; or ratio of volume/capacity (v/c) or change in access.	The larger the travel time savings or greater the change in LOS, the stronger the potential for project-induced land use change.
Change in Property Value	Likelihood of changes in land price that would influence development.	The greater the change in property values, the stronger the potential for induced land use change.
Forecasted Growth	Measured as population, employment, and land development for a region, city, or sub-area; forecasted population and employment trends may indicate the demand for land development where access and other public services may be available.	If a proposed transportation project improves access and the average annual population/employment growth rate is relatively high, then the stronger the potential for project-induced land use change.
Relationship between Supply and Demand	Measured as population, employment, and land development; determine how much vacant, buildable land is available within a reasonable sub-area.	The more limited the supply is relative to demand, the more likely improved access would increase the probability of development.
Availability of Non-transportation Services and Other Market Factors	Do details exist (i.e. favorable market conditions, utilities, etc.) that would promote or limit development or possible barriers to service?	Access alone is not sufficient to trigger development; favorable market conditions as well as other key public facilities often must be available in the study area at a reasonable cost. If they are, improvements in access are more likely to facilitate land use change.
Public Policy	Are land use plans closely followed and enforced such that development pressures can be resisted?	If there are no policies or weak enforcement, then the potential for land use change would be strong.
Source: NCHRP Project 25-25, Task 22, <i>Forecasting Indirect Land Use Effects on Transportation Projects</i> (TRB, 2007).		

- 1
- 2 The assessment of these key variables relating to indirect land use change should take into consideration
- 3 two questions:
- 4 1. How likely is it that a transportation project would be followed by some noticeable change in
- 5 land use that would not have occurred in the absence of the project or sooner than
- 6 anticipated?; and
- 7 2. If such changes did occur, would they be consistent with the comprehensive plans and other
- 8 future planning efforts?
- 9

10 The evaluation of project-induced land use change, in accordance with the NCHRP Report 25-25, Task

11 22 methodology, is described below and is broken down into two major parts. The first evaluates the

12 existing and forecasted conditions of the indirect impacts AOI (**Section A**, below). Then, based on these

13 evaluations, the second part generates an overall conclusion relating to project-induced land use change

14 (**Section B**, below). It is through this methodology that specific locations of potential project-induced land

15 use change within the AOI are identified. The impacts resulting from project-induced land use change are

16 then assessed in **Section 6.6.3**.

1 **A. Project-Induced Land Use Change Assessment Part 1 (NCHRP Report 25-25, Task 22):**
2 **Evaluation of Existing and Forecasted Conditions**

3
4 **AOI and Time Frame**

5 A detailed description of the methodology used to delineate the indirect impacts AOI in relation to project-
6 induced land use change is presented in **Section 6.1.2** and the 4,069-acre AOI is shown in **Appendix**
7 **D-1**. In summary, the AOI was established by considering both natural constraints (i.e., Trinity River and
8 its floodplain) as well as proximity to major transportation facilities in the vicinity. The time frame for
9 assessing project-induced land use change is from the time of the proposed project's construction to
10 2035, which correlates with the MTP.

11
12 **Basic Demand Drivers**

13 Land use and transportation planning is driven by population and employment forecasts. As such,
14 forecasted growth tends to help provide an understanding as to the demand for development on a
15 regional and city level. In turn, these regional and city forecasts provide insight as to growth and
16 development trends within the AOI. As these data have already been presented in detail in **Sections**
17 **2.2.1** and **6.2.1**, the discussion below is limited to essential conclusions that can be drawn from available
18 demographic data and forecasts.

19
20 The NCTCOG demographic forecast for north central Texas anticipates approximately 70 percent growth
21 in population and employment by the year 2035. The growth forecast for Dallas County is expected to be
22 approximately 38 percent for population and 50 percent for employment. Growth estimates for the City of
23 Dallas are approximately 13 percent for population and 25 percent for employment. Although growth
24 trends for the AOI are less than regional and county estimates, growth in population and employment are
25 nevertheless to be expected.

26
27 **Relevant Plans and Conditions of the Study Area**

28 A key element to identifying the potential for indirect land use impacts involves reviewing of local
29 comprehensive plans and related documents in order to provide a general indication of what land use
30 patterns and densities are desired, expected, and allowed within the AOI. Another key aspect involves
31 gathering data, including opinions, from representatives of the AOI municipalities. These representatives
32 have first-hand knowledge regarding property values, forecasted growth, supply and demand, other
33 market factors affecting their jurisdictions, and the most applicable public policies that would promote and
34 protect future development. A description of the regional and local planning documents in relation to the
35 AOI is provided above in **Section 2.4** and **Section 6.2.2**. A description of the interview process with local
36 planners listed in **Section 6.1** is presented below.

1 During May–July 2011, city planners from the City of Dallas were contacted for their assistance in
2 ascertaining the potential for indirect impacts resulting from the proposed project. These planners were
3 interviewed regarding factors influencing development within the AOI, including the following:

- 4 • The economy (e.g., population and employment growth, strength of regional economy, and
5 employment centers nearby);
- 6 • Travel time to places of interest (e.g., employment, services, retail, medical, entertainment,
7 and education);
- 8 • Infrastructure (e.g., transportation network, water, wastewater, and electric);
- 9 • Development advantages (e.g., low land cost, good availability, and natural amenities);
- 10 • Development constraints (e.g., high land cost, low availability, terrain, soils, floodplains,
11 regulatory constraints, environmental regulations, and local ordinances); and
- 12 • Social considerations (e.g., proximity to schools, churches, neighborhoods, and parks).

13
14 The city planners were also asked for information relating to areas likely to be developed under both the
15 Build and No-Build alternatives. This included questions relating to the amount, type, location, and timing
16 of potential land use change.

17
18 It was the consensus among the city planners contacted that existing land use plans for the City of Dallas
19 accurately reflect the community and economic vision for the AOI. Several factors influential to land use
20 change that were emphasized by city planners include the following:

- 21 • The extent of the 100-year floodplain is a major constraint to development, and development
22 or redevelopment in such areas is not expected until the construction of the Lamar Levee
23 removes the threat of flooding from those areas;
- 24 • Preservation of historic residential districts and landmarks is a priority, making large scale
25 development or redevelopment within residential areas (particularly historic residential
26 districts) unlikely; and
- 27 • Conversion of the SM Wright Freeway to a community parkway would have a positive effect
28 in terms of development or redevelopment of properties adjacent to it (e.g., access to the
29 properties would be improved by removing one-way frontage roads).

30
31 City planners also shared GIS shape files and other data relating to development permits and other
32 indicia of both constraints and growth relating to economic development within the AOI. City planners
33 also cited a number of reasonably foreseeable activities and pre-existing catalyst projects and plans that
34 would precede the construction of the SM Wright Project which may have substantial influence on
35 development activities in the AOI. For example, the completion of the DART Green Line at the north end
36 of the AOI is seen as an important transportation facility for assisting commuters access job opportunities.

37

Land Use Capacity and Development Potential

An assessment of land use capacity can provide a municipality with information that helps to monitor the acreage of developed versus undeveloped land supply, growth pressures, demographic trends, and development patterns. The inventory of land use (**Appendix D-2**) prepared by the City of Dallas in 2010 provides an initial indication of undeveloped areas that may be available for development. Undeveloped land within the AOI located outside the 100-year floodplain comprises 496 acres, most of which is located northwest of MLK Jr. Boulevard. Interviews with city planners indicated that urban infill of undeveloped areas adjacent to the proposed SM Wright Parkway would be anticipated.

Future Development Patterns of the AOI

The approach for assessing future development patterns within the AOI involves identifying areas where it would be reasonable to expect shifts in development. In order to identify areas within the AOI where potential future impacts could occur, GIS mapping and analytical techniques were first used to identify existing land use patterns and map areas where existing natural, governmental, or other constraints would make a future change in land use unlikely. Within the densely developed AOI, areas that are already developed and would be unsuitable or unlikely for future development activities are shown in **Appendix D-3** and include the following:

- Existing public facilities (e.g., TxDOT ROW, schools, hospitals, and municipal facilities);
- Public parks and recreation facilities and other city-owned open-space areas;
- Areas owned and/or used for major utilities (e.g., electric substations and transmission lines);
- Areas within the 100-year floodplain and flood protection levees;
- NRHP listed or eligible historic properties, historic neighborhood districts, and cemeteries; and
- Areas currently developed for single-family residential use, and which are reflected as remaining residential in City of Dallas land use plans and zoning ordinances.

What is left following the above identification of land use constraints are those areas to be assessed for potential project-induced land use change.

Another aspect relevant to project-induced land use change is the limited effect construction of the IH 45 and CF Hawn/US 175 direct connectors would have on local land development decisions. For example, improvements to IH 45 and CF Hawn/US 175 do not include the addition of any new entry or exit ramps, nor would any new frontage roads be constructed. Thus, there would be virtually no change at the access points or on frontage roads for the commuter or regional travelers who are the predominant users of these facilities. In addition, the proposed direct connectors would be almost entirely above-ground structures, which effectively eliminates any opportunity for the direct connectors to affect land development decision making in the vicinity. This is particularly so at present because the absence of

1 levee protection places most of the land near the direct connectors within the 100-year floodplain, thus
2 precluding development that might otherwise occur.

3
4 As indicated by city planners, the AOI as a whole could experience a change in the rate, type, and
5 amount of development due to the proposed reconstruction of the SM Wright Parkway when coupled with
6 other on-going plans and investments within the AOI and near vicinity, and activities of the local
7 Community Development Corporations, which are active in the AOI.⁶⁸ However, it is expected that
8 potential development would ultimately be more heavily influenced by market forces, planning
9 regulations, and existing sub-area planning efforts (e.g., the Balanced Vision Plan, and the Trinity
10 Corridor CLUP) than the proposed SM Wright improvements. It is possible that the implementation of the
11 No-Build Alternative could result in less development/redevelopment within the AOI as a result of
12 increased congestion coupled with safety concerns on CF Hawn/US 175, and a continued reduction in
13 neighborhood accessibility and cohesion.

14
15 The No-Build Alternative is inconsistent with the City of Dallas planning documents for the AOI because
16 the proposed project is included in the future development plans and thoroughfare plans. The proposed
17 improvements are included within the regional *Mobility 2035* MTP and the FY 2013-2016 TIP.

18 19 **Influence of Changes in Travel Patterns**

20 Travel safety, efficiency, and circulation patterns are key transportation measures for estimating impacts
21 on residential and commercial development. Larger traffic volumes or decreased congestion that result
22 from transportation improvements could support an increase of demand for retail and commercial
23 properties along a transportation corridor, which in turn could contribute to the potential for land use
24 changes. Similarly, the substantial changes planned for construction the SM Wright Parkway would
25 remove one-way frontage roads and replace them with safer and more aesthetic landscaping, which
26 would be expected to make residential lots more attractive as home sites. The key questions are whether
27 that potential is sufficient to cause property owners and developers to build faster and differently than
28 they otherwise would have, and whether city plans or zoning would have to be changed in any substantial
29 way to allow that change in development. As discussed in detail in **Section 2.4** and **Section 6.6.1**, the
30 changes in travel patterns would be substantial and are expected to affect development/redevelopment
31 decisions within the AOI. The effect of the SM Parkway improvements on traffic operations is expected to

⁶⁸ A community development corporation is a non-profit, community-based organization that anchors capital locally through the development of both residential and commercial property, ranging from affordable housing to developing shopping centers and even owning businesses. Community development corporations are typically neighborhood-based, 501(c)3 non-profit corporations with a board composed of at least one-third community residents that promote the improvement of the physical and social infrastructures in neighborhoods with populations substantially below the area median income. Many community development corporations perform a wide variety of roles, including housing, commercial, and retail development, as well as leading community planning, assisting with community improvement programs (improved lighting, streetscapes, and the like) and providing social services. Source: <http://www.community-wealth.org/strategies/panel/cdcs/index.html>.

1 be moderate, and, considering the existing well-developed road network within the AOI, this would
 2 suggest that the influence of those improvements would diminish rapidly with increasing distance from the
 3 parkway.
 4

5 **B. Project-Induced Land Use Change Assessment Part 2 (NCHRP Report 25-25, Task 22):**
 6 **Overall Determination of Indirect Land Use Impacts**

7
 8 **Potential for Land Use Change Assessment**

9 As previously discussed, the potential for land use change can be measured by changes in accessibility,
 10 changes in property value, expected growth, the relationship between supply and demand, availability of
 11 public services, market factors, and public policy. **Table 6-10** summarizes the potential for land use
 12 change within the AOI as influenced by these indicators of potential change. The summary is based on
 13 quantitative and qualitative assessments of the AOI as evaluated in **Section A** above (Project-Induced
 14 Land Use Change Assessment Part 1) via spatial analysis techniques and using information gathered
 15 from city planners. This was then analyzed using thresholds and assumptions described in NCHRP
 16 Report 25-25, Task 22.
 17

TABLE 6-10. ASSESSMENT OF INDIRECT LAND USE IMPACTS

CHANGE	DATA SOURCES	ANTICIPATED INDIRECT IMPACTS	POTENTIAL FOR LAND USE CHANGE
<p>Change in Accessibility</p> <p><i>Measured as change in travel time or delay, if available. Otherwise, assessment of v/c or change in access.</i></p>	<p>Performance reports provided by NCTCOG; expert opinion of city planners and transportation engineers.</p>	<ul style="list-style-type: none"> • Within the NCTCOG traffic study area (3,834 acres) portion of the AOI, the average loaded speed increases by 3.3-4.4 percent in the AM, PM, and Daily scenarios for the Build Alternative as compared to the No-Build Alternative for minor arterials and collectors, and increases 5 to 20 percent for freeway ramps and frontage roads; increased loaded speed is predicted for major arterials in the AM (3.9 percent), but decreases for PM (7.5 percent) and daily (0.8 percent) estimates; thus average local trip times for travel within the AOI are somewhat less with the proposed improvements. • According to NCTCOG performance reports: for the Build Alternative, there is a 16.3 percent increase in lane-miles operating at LOS A-B-C for principal arterials and 0.5 percent increase for minor arterials; however, there would be a 50.8 percent increase in lane-miles for principal arterials operating at LOS F; other results for freeway and freeway-associated facilities are variable and do not indicate an overall improvement in LOS for these facilities under the Build Alternative as compared to the No-Build Alternative within the NCTCOG traffic study area. • Despite mixed results in terms of improvement based on average loaded speed and LOS, the project would provide travel benefits not reflected in the modeling results summarized above. The removal of the unsafe curve on CF Hawn/US 175 would be an important benefit for the community. Likewise, downgrading the SM Wright Freeway from a high-speed controlled access 	<p><u>NCHRP Report 25-25 Scale</u> (a) Less than a couple minutes of time savings for an average trip, or no change in v/c = <i>none to very weak</i> (b) 2-5 minutes = <i>weak to moderate</i> (c) 5-10 minutes = <i>strong</i> (d) more than 10 minutes = <i>very strong</i></p> <p><u>Summary of Reasoning</u> Unmodeled benefits in terms of safety and internal community travel patterns and aesthetics are expected to have substantial effects on future development decision making. In addition, results of traffic modeling for the design year, although variable, demonstrate improvements in average loaded speed and LOS for city streets within the AOI for the Build Alternative.</p> <p><u>Conclusion of Potential</u> Strong with respect to the SM Wright Parkway and cross streets; weak to moderate for the remainder of the AOI.</p>

TABLE 6-10. ASSESSMENT OF INDIRECT LAND USE IMPACTS

CHANGE	DATA SOURCES	ANTICIPATED INDIRECT IMPACTS	POTENTIAL FOR LAND USE CHANGE
		<p>facility to a low-speed landscaped parkway would have a dramatic effect on within-community travel circulation and safety. As indicated in interviews with city planners and transportation engineers, these improvements are likely to favorably influence the rate, type, and amount of land use change in the area and should be given great weight.</p>	
<p>Change in Property Value</p> <p><i>Measured in dollars.</i></p>	<p>Planning documents for the City of Dallas; interviews with City of Dallas planners.</p>	<ul style="list-style-type: none"> ● The proposed project has been accounted for in planning documents for the City of Dallas. ● It is an established goal of the City of Dallas to maintain areas of residential development (neighborhoods) and to protect these established areas from non-conforming uses. ● Although an exact percent change in property value is unknown for the Build Alternative, city planners acknowledged on-going planning efforts by CDCs, the City of Dallas, and DART would have more potential to increase property values than would potentially occur as a result of project-induced land use change. They also concur, however, that land use changes would primarily be driven by market forces, not the proposed SM Wright improvements. For example, additional future commercial development/redevelopment along MLK Jr. Boulevard and at several major street intersections in the AOI would be expected to occur under the No-Build Alternative in response to existing market influences and city plans to encourage such activity. However, changing SM Wright to a parkway would be expected to greatly improve the likelihood of economic incentives for residential and commercial development for undeveloped land or land with deteriorated structures located adjacent to the proposed SM Wright Parkway. ● In relation to the economy, city planners anticipate that property values could decrease somewhat in the immediate future, but that forecasted growth and investments in the AOI should aid in stabilizing and eventually increasing property values over the long-term. 	<p><u>NCHRP Report 25-25 Scale</u></p> <p>(a) No change = <i>none to very weak</i> (b) 0-20 percent increase = <i>weak to moderate</i> (c) 20-50 percent increase = <i>strong</i> (d) More than 50 percent increase = <i>very strong</i></p> <p><u>Summary of Reasoning</u></p> <p>Percent change in property value for the Build Alternative is unknown; however, city planners acknowledge a potential increase in property value for certain properties adjacent to SM Wright under the Build Alternative, but that any AOI-wide increases resulting from the proposed project would generally be outweighed by market conditions.</p> <p><u>Conclusion of Potential</u></p> <p>Generally weak for the AOI as a whole, but strong relative to developable properties adjacent to the proposed SM Wright Parkway.</p>

TABLE 6-10. ASSESSMENT OF INDIRECT LAND USE IMPACTS

CHANGE	DATA SOURCES	ANTICIPATED INDIRECT IMPACTS	POTENTIAL FOR LAND USE CHANGE
<p>Forecasted Growth</p> <p><i>Measured as population, employment, land development; for region, city, or sub-area.</i></p>	<p>NCTCOG 2035 forecast; planning documents for the City of Dallas; interviews with City of Dallas planners.</p>	<ul style="list-style-type: none"> Based on input from City of Dallas planners, the annual growth rate (average for years 2000 through 2009) for the city is 1.2 percent. NCTCOG estimates (Table 5-6) of average annual population growth through 2035 are 0.9 percent to 1.3 percent for the city and county, respectively. NCTCOG estimates (Table 5-8) of average annual employment growth through 2035 are 1.6 percent and 1.7 percent for the city and county, respectively. According to City of Dallas planners, land use conversion is limited in many areas throughout the AOI due to the presence of constraining factors to development such as 100-year floodplains, dedicated parklands, listed or eligible historic residential districts and sites, cemeteries, and/or residential zoning. For the City of Dallas, population and employment projections city-wide increase from 2005 to 2035. The rate of residential and commercial growth could slow somewhat under the current economic conditions, but the forecasted trend of population growth is still expected. It is important to note that estimated population and employment increases from 2005 to 2035 (provided by the NCTCOG) represent long-term projections that generally account for the cyclical nature of economic downturns. 	<p>NCHRP Report 25-25 Scale (a) <1 percent = <i>none to very weak</i> (b) 1 to 2 percent = <i>weak to moderate</i> (c) 2 to 3 percent = <i>strong</i> (d) over 3 percent = <i>very strong</i></p> <p>Summary of Reasoning AOI municipality total average annual population and employment growth rates are both weak to moderate. Population and employment forecasts account for the cyclical nature of the economy.</p> <p>Conclusion of Potential Weak to moderate for both population and employment growth.</p>
<p>Relationship between Supply and Demand</p> <p><i>Measured as population, employment, and development.</i></p>	<p>Planning documents for the City of Dallas; interviews with City of Dallas planners.</p>	<ul style="list-style-type: none"> The amount of undeveloped land located outside the 100-year floodplain is 496 acres, or 12 percent of the AOI. Applying the 1.2 percent growth rate from city planners, the predicted build-out year for the AOI would be within 10 years. In addition, the size and context of individual undeveloped parcels may substantially reduce the likelihood of development (e.g., proximity to residential neighborhoods or historic properties/districts). Accordingly, it is anticipated that the supply of developable land would extend to approximately 10 years. Also, given the age and condition of many commercial structures, redevelopment of already developed areas is likely and may be the preferred alternative to undeveloped land (although the extent and location of redevelopment cannot be determined from available information). Finally, planned construction of levee improvements (e.g., Lamar Levee) would augment the existing supply of undeveloped land by providing flood protection, thereby extending the supply of developable land beyond 10 years. City planners cite market forces as the primary factor in meeting the build-out year estimate above. For example, the weakening of the regional economy in recent years has slowed the progress of some development projects and it is impossible to predict when that trend may reverse. However, even though growth rate in the immediate future may continue to unusually slow in the near term, the overall trend for population and employment growth is still anticipated in the AOI over the long term. 	<p>NCHRP Report 25-25 Scale (a) More than 20-year supply of land types = <i>none to very weak</i> (b) 10 to 20-year supply = <i>weak to moderate</i> (c) Less than 10-year supply = <i>strong</i> (d) Less than 10-year supply and identified problems within the study area = <i>very strong</i></p> <p>Summary of Reasoning Based on the city growth rate and supply of undeveloped land, market demand for land should be weak to moderate. The recent downturn in the economy makes it difficult to estimate the build-out year in light of slowed progress of some development projects. However, even though growth in the immediate future may continue to be slow due to economic conditions, the overall trend of weak to moderate population and employment growth is still anticipated for the AOI. As such, continued (and perhaps increased) demand is also expected to accompany this growth.</p> <p>Conclusion of Potential Weak in the immediate future; moderate over the long-term.</p>

TABLE 6-10. ASSESSMENT OF INDIRECT LAND USE IMPACTS

CHANGE	DATA SOURCES	ANTICIPATED INDIRECT IMPACTS	POTENTIAL FOR LAND USE CHANGE
<p>Availability of Non-transportation Services</p> <p><i>Measured number of people or employees that can be served; or barriers to service provision.</i></p>	<p>Planning documents for the City of Dallas; interviews with City of Dallas planners.</p>	<ul style="list-style-type: none"> The areas of existing development within the AOI are, in general, outfitted with necessary infrastructure (streets, sewer, sidewalk, curb, gutter, etc.), and are currently engaging in plans to enhance parks and recreation. Where infrastructure proves to be unavailable for a particular type of economic development, the City of Dallas has a planning process that would readily program and provide necessary services. Through the city's Economic Development Office and other departments, encouraging development/redevelopment of areas such as the AOI remains a priority as reflected in current comprehensive planning documents. 	<p>NCHRP Report 25-25 Scale</p> <p>(a) Key services not available and difficult to provide = <i>none to weak</i> (b) Not available and can be provided = <i>weak to moderate</i> (c) Not available, easily provided and programmed = <i>strong</i> (d) Available now = <i>very strong</i></p> <p>Summary of Reasoning Within the AOI, in general, key services are available; if unavailable, easily provided and programmed through capital improvement programs (CIP) or other planning regulations.</p> <p>Conclusion of Potential Strong</p>
<p>Other Factors that Impact the Market for Development</p>	<p>Planning documents for the City of Dallas; interviews with City of Dallas planners; current economic development activities in surrounding area.</p>	<ul style="list-style-type: none"> The City of Dallas accounts for the proposed SM Wright and associated improvements within existing planning documents. City planners acknowledge that the proposed project could somewhat influence the value of existing land near areas of expected project-induced development; however, changes to such property values would be driven primarily by market forces and influenced by local planning documents, not the proposed SM Wright improvements. Based on current market forces, city planners anticipate a somewhat weaker market for development in the immediate future. However, even with the economic downturn, overall population growth is still anticipated within the AOI. In turn, continued demand is expected in order to accommodate this forecasted growth. Over the long-term, forecasted growth is expected to create a stronger market for development/redevelopment. Highly localized development/redevelopment is more likely for properties that are adjacent to the proposed SM Wright Parkway. In contrast, project-induced land use change is much less likely to occur because the AOI has an existing road network that the proposed project would only marginally affect. 	<p>NCHRP Report 25-25 Scale</p> <p>(a) Weak market for development = <i>none to very weak</i> (b) Weak to moderate market = <i>weak to moderate</i> (c) Strong market = <i>strong</i> (d) Very strong market = <i>very strong</i></p> <p>Summary of Reasoning City planners indicate an overall weak market for development is anticipated based on current economic conditions. However, the proposed SM Wright Parkway would dramatically change the potential for land use changes for adjacent undeveloped or deteriorated developed properties.</p> <p>Conclusion of Potential AOI-wide: weak to moderate in the immediate future; stronger over the long-term. Properties adjacent to SM Wright: strong potential for development or redevelopment.</p>

TABLE 6-10. ASSESSMENT OF INDIRECT LAND USE IMPACTS

CHANGE	DATA SOURCES	ANTICIPATED INDIRECT IMPACTS	POTENTIAL FOR LAND USE CHANGE
Public Policy	NCTCOG plans; planning documents for the City of Dallas; interviews with City of Dallas planners.	<ul style="list-style-type: none"> • The proposed improvements to SM Wright Project roadway segments are accounted for within both regional and local planning initiatives. • As determined in interviews with city planners and a review of city land use plans, the City of Dallas supports the proposed SM Wright Project because the it would facilitate the city's objectives for the AOI. • The City of Dallas has a strong commitment to land policy (i.e., zoning) enforcement and its commitment to maintaining the overall character and mix of land uses within the AOI is reflected in relevant comprehensive planning documents. • City planning documents support and encourage the type of land use change that may be induced as a result of the proposed SM Wright improvements, which would be consistent with existing zoning and CLUPs. 	<p>NCHRP Report 25-25 Scale (a) Strong policy and record of policy enforcement and implementation = <i>none to very weak</i> (b) Weak policy and enforcement = <i>moderate to strong</i> (c) No policy, weak enforcement = <i>very strong</i></p> <p>Summary of Reasoning The City of Dallas has a strong commitment to policy enforcement, and would likely ensure that any development or redevelopment would conform to existing zoning designations.</p> <p>Conclusion of Potential None to very weak.</p>
<p>Format Reference: TRB (2007), NCHRP Report 25-25, Task 22, <i>Forecasting Indirect Land Use Effects on Transportation Projects</i>.</p>			

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Conclusions Regarding Project-Induced Land Use Change

As indicated in **Table 6-10**, conditions within the AOI vary from “none to very weak” to “strong” in terms of the potential to influence land use change. However, AOI conditions relative to properties adjacent to the proposed SM Wright Parkway suggest a predominance of “moderate” and “strong” change indicators/categories listed in **Table 6-10**, especially with regard to properties adjacent to the proposed project. In addition, feedback from city planners suggested that future development generally throughout the AOI is less likely to be influenced by the proposed SM Wright improvements than by market forces and regulations established within planning documents.

Taking into consideration current/future zoning and land use, and input from city planners relating to access issues, the presence of constraining factors (e.g., the 100-year floodplain), and current market and development trends within the AOI, 14 locations of potential project-induced land use change were identified (labeled Sites 1-14 in **Appendix D-4**). These 14 sites located along the proposed SM Wright Parkway account for approximately 10.8 acres of project-induced development/redevelopment for properties ranging in size from 0.2 acre to 3.6 acres. These locations of potential land-use change fall into the following categories:

1. Undeveloped land zoned for residential use that would likely result in construction of a residence (or, could possibly be rezoned for neighborhood commercial use);
2. Undeveloped land zoned for neighborhood commercial use that would likely be developed;
3. Developed commercial land with structures that are either abandoned or in deteriorated condition that would likely be redeveloped.

1 Of these 14 sites, 10 are vacant lots comprising 5.2 acres. The other four sites comprise 5.6 acres, and
 2 are a mixture of developed (2.3 acres) and undeveloped (3.3 acres) land. The developed portion of these
 3 sites includes 11 structures, which include two residential structures (one is partially collapsed and the
 4 other is boarded up), two abandoned commercial buildings, and seven operating commercial structures,
 5 as follows: two retail liquor stores, three nightclubs, one diner, and one barber shop.

6 **6.6.3 Impacts Resulting from Project-Induced Land Use Change**

7 The potential for the expected project-induced land use change described above is consistent with City of
 8 Dallas plans, policies, and/or ordinances. However, additional discussion is necessary because project-
 9 induced land use conversion could potentially impact sensitive habitats and species, valued
 10 environmental components, sensitive landscape features, and/or any vulnerable elements of the
 11 population associated with the specific locations of land use change. In order to ensure a comprehensive
 12 assessment, any resource/issue assessed for direct impacts was also screened for potential impacts
 13 resulting from project-induced land use conversion of 10.8 acres (14 sites) adjacent to the proposed SM
 14 Wright Parkway. As a continuation of **Step 5**, the objective of this screening process is to determine the
 15 extent to which the 14 sites (10.8 acres) of expected land use change could result in substantial impacts
 16 to each resource/issue category by assessing the context, likelihood, and reversibility of the types of
 17 project-related impact-causing activities discussed in **Table 6-6**. The results of this process, as applied to
 18 the 10.8 acres of anticipated land use change, are summarized in **Table 6-11**. However, a new category
 19 not found in **Table 6-6**, Land Alteration – Induced Land Development and/or Redevelopment, has been
 20 included in the table below because it reflects an entirely indirect consequence of the SM Wright Project
 21 and is not a direct result of it. A review of the impacts in **Table 6-11** indicate that only the potential
 22 impacts to upland forest resources and project-induced land development and/or redevelopment warrant
 23 further discussion.
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TABLE 6-11. POTENTIAL IMPACTS OF INDUCED LAND USE CHANGE

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
Natural Resources (see Section 5.1)	
Modification of Regime – Storm Water Drainage	None of the properties include in land use change would affect any surface water features, and drainage would be to the existing storm drainage system.
Modification of Regime – Floodplain Intersection	None of the land use change properties are within the 100-year floodplain.
Modification of Regime – Soil Disturbance and Water Quality	Ground disturbance during site grading for building foundations and landscaping would create the potential for increased erosion of soil, which could lead to sedimentation in local storm sewer systems. However, construction activity is expected to comply with City of Dallas construction permit requirements which prescribe BMPs to minimize erosion. After construction, herbaceous ground cover would be reestablished in accordance with city landscaping requirements. No appreciable long-term degradation of water quality is expected.
Modification of Regime – Vegetation Removal	It is presumed that development of the 14 sites of expected land use change would potentially result in the removal of all existing vegetation cover from the total of the 10.8 acres. The 14 sites are comprised of existing buildings or paved surfaces, maintained lawns, and upland forest cover (i.e., solitary trees or small

TABLE 6-11. POTENTIAL IMPACTS OF INDUCED LAND USE CHANGE

Type of Activity – Project Specific Activity	Relevant Details about Project Specific Activity
	groups of trees). The amount of upland forest cover that would potentially be removed from these sites would be a total of 3.7 acres. These impacts are discussed further at the end of this table. No impacts to protected species are anticipated as a result of potential removal of existing vegetation.
Modification of Regime – Loss of Prime Farmland	All development of the 14 sites is presumed to be non-federal and would therefore not be subject to the FPPA.
Type of Activity – Alter Air Quality	Based on existing zoning, development/redevelopment of the 14 sites would result in residential buildings or buildings that meet the requirements for areas zoned as neighborhood commercial (e.g., personal services, small retail). These potential uses would not be expected to have substantial mobile source or stationary source air pollution sufficient to affect ambient air quality.
Community Impact Assessment (see Section 5.2)	
Changes in Traffic – Influence on Growth	The creation of residences or small businesses on the 14 sites would be expected to contribute to the overall well-being of the community, as the development would be consistent with zoning requirements and city planning documents. The estimated infill development that could be induced by the proposed project is not expected to have a substantial effect on growth elsewhere in the AOI.
Land Alteration – Conversion to ROW	Not applicable.
Land Alteration – Project-Induced Land Development and/or Redevelopment	The project would be expected to induce the development of 10 vacant lots comprising 5.2 acres, and the redevelopment of four sites comprising 5.6 acres. The potential redevelopment sites are a mixture of developed (2.3 acres) and undeveloped (3.3 acres) land. The developed portion of these sites two residential structures (one is partially collapsed and the other is boarded up), two abandoned commercial buildings, and seven operating commercial structures, as follows: two retail liquor stores, three nightclubs, one diner, and one barber shop. Workforce Solutions programs are available for displacement employers and dislocated employees.
Land Alteration – Alter Section 4(f) Land	All development of the 14 sites is presumed to neither be transportation related nor involve federal funding and would therefore not be subject to Section 4(f).
Access Alteration – Alter Travel Circulation	Private development of the 14 sites would not affect travel circulation. It is expected that any development/redevelopment would be subject to City of Dallas oversight, which would ensure conformity with city planning objectives. Also, as all development would comply with city zoning requirements. Workforce Solutions programs are available for displacement employers and dislocated employees.
Modification of Regime – Traffic Noise	Any traffic noise associated with development/redevelopment would be subject to City of Dallas zoning and other regulations, and is presumed to be insubstantial.
Changes in Traffic – Alter Traffic Operations	It is presumed that any development of the 14 sites would be subject to City of Dallas oversight regarding impacts to local traffic to insure impacts would be mitigated to insubstantial levels.
Cultural Resources (see Section 5.3)	
Modification of Regime – Non-Archeological Historic Structures	As any development of the 14 sites would be subject to City of Dallas oversight, it is presumed that all of the sites would be required to conform to city protections of cultural resources such as historic residential districts.
Modification of Regime – Archeological Sites	Development of the 14 sites would not be expected to affect any archeological sites.
Other Resources/Issues (see Section 5.4)	
Modification of Regime – Hazardous Wastes	It is presumed that property owners would perform due diligence research to ensure appropriate remediation of any site contamination prior to development or redevelopment.
Modification of Regime – Other Potential Issues	No other issues are anticipated for the 14 sites of project-induced land use change.
Facility Operation Issues	
Chemical Treatment – Road Maintenance	Not applicable.

1 As indicated above, potential impacts to 3.7 acres of upland forest is the only notable type of impact
2 expected for the project-induced land use changes assessed the proposed project. These forest
3 resources consist of individual trees or small groups of trees loosely scattered throughout the 14 sites of
4 expected land use change. Similar to the upland forest habitat described in **Section 5.1.5**, these sites
5 offer relatively poor quality wildlife habitat because understory vegetation is mowed lawn grass and
6 because of the highly fragmented nature of the trees or groups of trees. The location of all of these sites
7 within a residential setting near a major roadway further detracts from habitat value. Although these
8 areas do not offer much in terms of wildlife habitat other than for squirrels and birds, the removal of trees
9 from the sites would be subject to site development requirements in the City of Dallas tree preservation
10 ordinance.⁶⁹ More important, it is expected that the economic and aesthetic qualities of mature trees
11 would be valued by developers as an enhancement to property value and that site development plans
12 would be designed to preserve the most valued trees (i.e., in terms of tree species and tree size).

13

14 **6.6.4 Evaluation of Conclusions**

15 As indicated in NCHRP Report 466 (Page 92), “[t]here is inherent uncertainty in estimating indirect
16 effects.” Various methods were utilized to gather information on the existing and forecasted conditions of
17 the AOI under the Build and No-Build Alternatives. These included: spatial analysis of geographic data,
18 assessment of demographic trends, literature review of planning documents and ordinances, and
19 interviews and information acquired from City of Dallas planners. Communications from city planners
20 provided the benefits professional judgments based on years of service, knowledge of development
21 trends particular to the AOI, and backgrounds as informed stakeholders in the planning and development
22 of the proposed SM Wright Project. The input from city planners provided essential insights into the
23 potential for both encroachment-alteration effects and project-induced land use change within the AOI.
24 The overall consensus of city planners is that economic conditions would be the primary factor affecting
25 land use change within the AOI. However, construction of the SM Wright Parkway is expected to affect
26 highly localized economic conditions, which led to concluding that project-induced land use change would
27 occur on 14 sites located adjacent to the parkway.

28

29 There are several socioeconomic facets related to the expected project-induced land use change for the
30 14 sites comprising 10.8 acres adjacent to the proposed SM Wright Parkway. With regard to the 10 sites
31 which are vacant lots (5.2 acres), the development of these sites would be expected to benefit the
32 surrounding largely residential community. That is, the downgrading of the SM Wright Freeway to a
33 community parkway, accompanied by the removal of frontage roads and the overall aesthetic
34 enhancements that would result to the community, would likely induce the construction of new homes on
35 these vacant lots and further contribute to the residential feel of the community and to community

⁶⁹ The Landscape and Tree Preservation Ordinance, Article X of the Dallas Development Code, see <http://www.dallascityhall.com/arborist/index.html>

1 cohesion. The other four sites (5.6 acres) include 11 structures, of which two are residential structures in
2 poor condition and two abandoned are commercial buildings. The redevelopment of the sites containing
3 these four structures in would improve the socioeconomic condition of the community through the
4 construction of new homes and/or businesses. The remaining seven structures are currently-operating
5 commercial buildings which include two retail liquor stores, three nightclubs, one diner, and one barber
6 shop. The potential development or redevelopment of these properties is not regarded as a potential
7 displacement in the traditional sense because it is presumed that any sale of a property to a prospective
8 developer would be made voluntarily (i.e., the redeveloper would not have eminent domain authority to
9 force the sale of property). Nevertheless, the redevelopment of land on which any of these several
10 existing businesses are located could result in the loss of employment for current employees, in which
11 case the services of Workforce Solutions would be available for business and employees (see
12 **Section 5.2.5**). While it is to be expected that the redevelopment of land may create new jobs for the
13 community that may exceed the quantity and salaries of current positions, this potential beneficial offset
14 for the community would not lessen the need to make Workforce Solutions services available to those
15 persons who could still lose their jobs in existing businesses.

16 17 **6.7 Step 7: Assess the Consequences of Indirect Impacts and Develop Appropriate Mitigation**

18 This step of the indirect impacts analysis assesses the consequences of the expected indirect impacts
19 and considers/develops strategies to address unacceptable indirect impacts. Virtually all of the readily
20 identifiable indirect impacts involve project-induced land use change within the AOI. This project-induced
21 land use change (10.8 acres) accounts for 0.3 percent of the AOI (4,069 acres). Land development
22 activities would generally be private ventures regulated by City of Dallas land development ordinances.
23 Such regulation addresses environmental and social impacts by requiring mitigation as part of site design
24 and construction such that development is in accordance with overall city objectives. In addition, much of
25 the discussion of agencies and programs that would guide any development induced by a potential
26 project would be similar to typical mitigation and permitting measures, as described within **Section 5.0**
27 and **Section 8.0** of this report. For example, all development must comply with the city tree preservation
28 ordinance.

29
30 Ultimately, because the proposed project is not anticipated to cause substantial encroachment-alteration
31 indirect impacts, the requirement for mitigation of environmental impacts would be limited to mitigating
32 only the direct impacts associated with this proposed project. Any mitigation for project-induced land
33 development impacts, which may arise after construction of the proposed SM Wright improvements,
34 would be overseen by the City of Dallas and would be the responsibility of the land developer. Therefore,
35 mitigation for indirect impacts would not be required of the proposed project sponsors based on the
36 foregoing analysis. However, to assist in mitigating for the loss of employment that could accompany the
37 potential project-related redevelopment of seven operating businesses along the proposed SM Wright

- 1 Parkway, a description of services offered by Workforce Solutions will be presented during the public
- 2 hearing for the SM Wright Project to raise community awareness of this resource.

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1 **7.0 CUMULATIVE IMPACTS**

2

3 This section presents an analysis of the potential cumulative impacts related to the proposed SM Wright
4 Project.

5

6 **7.1 Introduction and Methodology**

7 A CEQ regulation⁷⁰ defines cumulative impacts (i.e., effects) as “the impact on the environment which
8 results from the incremental impact of the proposed action when added to other past, present and
9 reasonably foreseeable future actions.” As this regulation suggests, the purpose of a cumulative impacts
10 analysis is to view the direct and indirect impacts of the proposed project within the larger context of past,
11 present, and future activities that are independent of the proposed project, but which are likely to affect
12 the same resources in the future. Environmental and social resources are evaluated from the standpoint
13 of relative abundance among similar resources within a larger geographic area. Broadening the view of
14 resource impacts in this way allows the decision maker an insight into the magnitude of project-related
15 impacts in light of the overall health and abundance of selected resources. In essence, a cumulative
16 impacts evaluation first paints a conceptual picture of the existing or “baseline” condition of each resource
17 which is based on historical information and an assessment of the current condition of the resource.
18 Second, the analysis then inventories future projects in the vicinity that are planned and financed, but
19 unrelated to the proposed project, and assesses the likely collective impacts of those projects for each
20 resource. Third, the analysis then describes the expected future status of the resource (i.e., in terms of
21 quantity and condition) after the combined (i.e., ‘cumulative’) effects of the proposed project and other
22 foreseeable projects are fully realized. Finally, the cumulative impacts analysis assesses the level of
23 concern that should be associated with the expected cumulative impacts to a resource based on the
24 scarcity or current condition of that resource. The evaluation process for each resource considered may
25 be expressed in shorthand form as follows:

26

27 **DIRECT IMPACTS + INDIRECT IMPACTS + FUTURE PROJECT IMPACTS = CUMULATIVE IMPACTS**

28 (construction-related) (removed in time/space) (independent and foreseeable) (future condition of resource)

29

30 The evaluation of cumulative impacts discussed in this document follows the eight-step process in
31 guidance set forth in the TxDOT ICI Guidance.⁷¹ The methodology used to prepare this evaluation is also
32 in accordance with the requirements of controlling case law⁷² and cumulative effects guidance from the
33 CEQ⁷³ (hereinafter ‘CEQ Cumulative Effects Guidance’).

⁷⁰ 40 CFR Section 1508.7

⁷¹ TxDOT (September 2010). TxDOT’s *Guidance on Preparing Indirect and Cumulative Impact Analyses, Revised*.

⁷² 772 F.2d 1225, 5th Circuit (1985), *Fritiofson v. Alexander*

⁷³ CEQ (January 1997), *Considering Cumulative Effects under the National Environmental Policy Act*.

1 The following eight steps of the TxDOT ICI Guidance serve as guidelines for identifying and assessing
2 cumulative impacts:

- 3 1. Identify the resources to consider in the analysis;
- 4 2. Define the study area for each affected resource analyzed;
- 5 3. Describe the current health and historical context for each resource analyzed;
- 6 4. Identify direct and indirect impacts that may affect each resource analyzed;
- 7 5. Identify impacts from reasonably foreseeable actions that may affect each resource analyzed;
- 8 6. Assess potential cumulative impacts to each resource analyzed;
- 9 7. Report the results; and,
- 10 8. Assess and discuss mitigation issues for all adverse impact for each resource analyzed.

11

12 **7.2 Step 1: Resource Identification**

13 A cumulative impacts analysis uses information from the evaluation of direct and indirect impacts in the
14 selection of environmental resources that should be evaluated to determine cumulative impacts. TxDOT
15 ICI Guidance states that “the cumulative impact analysis should focus on: (1) those resources
16 substantially impacted by the project; and (2) resources currently in poor or declining health or at risk
17 even if project impacts are relatively small.” The guidance further states that, as a caveat to the above
18 two rules, a cumulative analysis should also be performed even when direct or indirect impacts are “minor
19 or potentially appear inconsequential, but actions by other agencies/developers cause substantial
20 impacts.” Similarly, CEQ Cumulative Effects Guidance recommends narrowing the focus of the
21 cumulative impacts analysis to important issues of national, regional, or local significance so as to “count
22 what counts’, not produce superficial analysis of a long laundry list of issues that have little relevance to
23 the impacts of the proposed action or the eventual decisions.” Thus, the cumulative impacts analysis
24 should focus only on those resources that are substantially affected by the proposed project as a result of
25 direct and/or indirect impacts, resources that are in poor or declining health, or resources that are
26 particularly scarce. Whether a resource is substantially affected by the proposed project is a function of
27 the existing abundance and condition of the resource and includes resources that are at risk, potentially
28 from other actions, even if the proposed project impacts are relatively small.

29

30 The foregoing criteria were applied individually to all of the topics considered throughout the analysis of
31 direct impacts in **Section 5.0**. An explanation as to the rationale for either including or excluding each
32 resource/issue addressed in **Section 5.0** is provided in **Table 7-1**. Several topics were excluded from
33 further analysis because beneficial effects would be expected as a result of the proposed project, and
34 many of the resources or issues from **Section 5.0** were excluded from cumulative impacts analysis
35 because the assessment of direct and indirect impacts indicated there would either be no adverse
36 impacts or that impacts would be insubstantial. Hazardous materials is an inappropriate topic for
37 cumulative impacts analysis because the topic does not concern a resource but instead focuses on

1 whether the project would be adversely affected by the potential release of pre-existing site contamination
 2 in the project vicinity. Similarly, traffic noise impacts is a category of impacts that should not be
 3 considered for cumulative impacts even though adverse direct impacts may occur. This is because the
 4 analytic model embodied in CEQ regulations and guidance for assessing cumulative impacts assumes
 5 there is a definable resource within the surrounding area that can be inventoried and meaningfully
 6 evaluated, and which is a criterion this topic does not meet.

7
 8

TABLE 7-1. RESOURCES/ISSUES CONSIDERED FOR CUMULATIVE IMPACTS ANALYSIS

Subject Considered for Direct and Indirect Impacts	TxDOT/CEQ Criteria ¹		Included for Cumulative Impacts Analysis	Explanation for Including or Excluding the Subject from Cumulative Impacts Analysis ³
	Would Proposed Project Result in Substantial Adverse Impacts? ²	Is Subject a Scarce Resource or in Poor or Declining Health? ²		
NATURAL RESOURCES (see Section 5.1)				
Water Resources (see Sections 5.1.1 – 5.1.4)				
Waters of the U.S., Including Wetlands	No	No	No	Excluded because no jurisdictional water features are within the construction footprint of the proposed project.
Navigable Waters	No	No	No	Excluded because the proposed project would not affect any portion of the Trinity River, the nearest navigable waterway.
Floodplains	No	No	No	Excluded because nearly all of the overlap between the proposed project and the 100-year floodplain is from bridges and ramps that would be elevated above the floodplain, and any other impacts would be insubstantial.
Water Quality	No	Yes	No	Excluded because no permanent water quality impacts are expected from the proposed project, and required permits to control erosion during construction are expected to result in minimal temporary degradation of water quality.
Biological Resources (see Sections 5.1.5 – 5.1.6)				
Vegetation and Wildlife Habitat	No	Yes	Yes	Resource included because the proposed project would remove 7.57 acres of riparian forest habitat.
Threatened/Endangered Species	No	Yes	No	Excluded because no adverse impacts are anticipated for federal or state listed species. Although removal of forested habitat might affect the timber/canebrake rattlesnake, such effects would be minor; also, high value habitat for wildlife species is already included for cumulative analysis (i.e., vegetation and wildlife habitat).
Topography and Soils (see Section 5.1.7)				
Topography and Soils	No	No	No	Excluded because, although topographic changes would occur, they would not substantially affect soil stability in the area. Also, the proposed project is exempt from the requirements of the FPPA.
Air Quality (see Section 5.1.8)				
Change in Air Quality	No	Yes	Yes	Resource included because of prevailing ozone non-attainment conditions, even though the proposed project is not expected to adversely affect the region's ability to comply with prevailing regulations/standards; the region is in attainment for all other NAAQS criteria (including CO), with the exception of a portion of Collin County that is in nonattainment for lead. All aspects of air quality are included in the assessment of cumulative impacts for air quality, including CO and MSATs, to provide a complete discussion based on available data.

TABLE 7-1. RESOURCES/ISSUES CONSIDERED FOR CUMULATIVE IMPACTS ANALYSIS

Subject Considered for Direct and Indirect Impacts	TxDOT/CEQ Criteria ¹		Included for Cumulative Impacts Analysis	Explanation for Including or Excluding the Subject from Cumulative Impacts Analysis ³
	Would Proposed Project Result in Substantial Adverse Impacts? ²	Is Subject a Scarce Resource or in Poor or Declining Health? ²		
COMMUNITY IMPACT ASSESSMENT (see Section 5.2)				
Land Use (see Section 5.2.2)				
Change in Land Use	---	---	Yes	This issue is included because land used for additional ROW makes the land unavailable for other uses, and approximately 32.4 acres be required for ROW in a highly urbanized corridor where land not already developed is scarce. Also, project-induced changes in land use were identified as potential indirect impacts.
Section 4(f) and 6(f) Properties (see Section 5.2.3)				
Properties, Parks and Recreation Areas	No	Yes	No	Excluded because no adverse impacts are anticipated to any properties, local parks or recreation areas.
Economic Impacts (see Section 5.2.4)				
Local Economy	No	Yes	Yes	Included due to poor or declining health of economic conditions in the community even though the proposed project is expected to enhance projected employment growth by improving work force mobility and by enhancing the residential character of the area.
Relocation and Displacement Impacts (see Section 5.2.5)				
Relocations and Displacements	---	---	Yes	Included as part of the overall discussion of other community socioeconomic topics considered for cumulative impacts and because of the generally weak economic conditions in this community. Although relocations and displacements are impacts and do not represent a resource, this category is of particular importance in the evaluation of other socioeconomic aspects in this community.
Social Impacts (see Sections 5.2.6 – 5.2.10)				
Access	---	---	No	Excluded because this topic does not involve a resource and because access to properties would be maintained throughout construction.
Community Cohesion	No	Yes	Yes	Included due to the influence of the original construction of the SM Wright Freeway on community cohesion, and for a more extensive review of related project-related impacts on the community.
Limited English Proficiency	---	---	No	Excluded because this topic does not involve a resource and because adequate steps are planned to assist the small LEP population within the project area.
Environmental Justice	No	Yes	Yes	Included due to the presence of EJ populations throughout the project area and federal and state policies implemented to ensure equitable treatment of these populations when planning infrastructure projects.
Public Facilities and Services	No	No	No	Excluded because although the proposed project would not displace any public facilities/services, and improved mobility provide a benefit.
Aesthetic Considerations (see Section 5.2.11)				
Aesthetic Views	No	Yes	Yes	Included because aesthetic views are an important resource within this predominantly residential community which includes historic neighborhoods.
Noise Impacts (see Section 5.2.12)				
Traffic Noise	---	---	No	Excluded because traffic noise is a potential direct/indirect impact and is not a resource.
Traffic Operations (see Section 5.2.13)				
Congestion, Traffic Patterns, and Safety	---	---	No	Excluded because proposed project is expected to manage traffic congestion, and be beneficial for vehicle utilization, roadway effectiveness, and safety. Also, subject is not a resource.

TABLE 7-1. RESOURCES/ISSUES CONSIDERED FOR CUMULATIVE IMPACTS ANALYSIS

Subject Considered for Direct and Indirect Impacts	TxDOT/CEQ Criteria ¹		Included for Cumulative Impacts Analysis	Explanation for Including or Excluding the Subject from Cumulative Impacts Analysis ³
	Would Proposed Project Result in Substantial Adverse Impacts? ²	Is Subject a Scarce Resource or in Poor or Declining Health? ²		
CULTURAL RESOURCES (see Section 5.3)				
Non-Archeological Historic Resources (see Section 5.3.1)				
Historic Bridges, Buildings and Districts	No	Yes	No	Excluded because the proposed project is not expected to adversely affect historic resources.
Archeological Resources (see Section 5.3.2)				
Archeological Sites	No	No	No	Excluded because the proposed project is not expected to adversely affect any archeological resources or cemeteries.
OTHER RESOURCES/ISSUES (see Section 5.4)				
Hazardous Materials (see Section 5.4.1)				
Hazardous Waste or Materials Sites	---	---	No	While the proposed project would likely encounter sites in or near the proposed ROW, this subject was excluded because it does not represent a resource.
Items of Special Nature (see Section 5.4.2)				
Airway-Highway Clearance	No	n/a	No	Excluded because the proposed project is not expected to adversely affect any airport facilities.
Coastal Zone Management Plan	No	n/a	No	Excluded because the proposed project is not within a coastal zone.
Wild and Scenic Rivers	No	n/a	No	Excluded because there are no wild or scenic rivers in the project vicinity.
Notes:				
1. In accordance with TxDOT and CEQ selection criteria for limiting the scope of cumulative impacts analyses.				
2. “---” Represents an environmental “issue” but not a resource (i.e., natural resource, ecosystem, or human community), and generally does not lend itself to an evaluation of resource condition and context (i.e., amount of similar resources within a defined resource study area).				
3. For each resource/issue considered, the section number in this EA is provided in row headings for the discussion of direct impacts. Indirect impacts for each resource/issue were also considered, and reference to indirect impacts is noted in the explanation below where such impacts are considered to be substantial (see Section 6.0).				
4. The term “n/a” = not applicable, meaning that the resource or issue is not present within the project area.				

1

2 **7.2.1 Biological Resources**

3 The Texas Transportation Code (Section 201.607) directs TxDOT to adopt memoranda of understanding
 4 with appropriate environmental resource agencies, including TPWD. The responsibilities of the TPWD
 5 relate primarily to its function as a natural resource agency, including its resource protection functions,
 6 designated by the Parks and Wildlife Code. The 1998 Memorandum of Understanding between TxDOT
 7 and TPWD⁷⁴ required an interagency team to establish procedures and a consistent methodology for
 8 describing habitats, transportation impacts to those habitats after avoidance and minimization efforts, and
 9 mitigation to be considered as a result of those impacts. TPWD and TxDOT subsequently adopted a

⁷⁴ Title 43 Texas Administrative Code Section 2.22.

1 Memorandum of Agreement (MOA)⁷⁵ which identifies specific types of vegetation/habitat resources that
2 should be given consideration for compensatory mitigation. Vegetation and wildlife habitat was included
3 in the evaluation of cumulative impacts because the proposed improvements could potentially result in
4 the loss of “unusual” and/or “special” habitat in an area that has historically seen encroachment and the
5 loss of such habitat. This includes the loss of riparian/bottomland forests and unmaintained vegetation
6 such as upland forests. Although no project-related impacts are expected to any rare species, riparian
7 and bottomland forest habitat is preferred by the state-listed timber/canebrake rattlesnake and two
8 species of concern (Texas garter snake and plains spotted skunk). The importance of forested habitat to
9 rare species such as these is an additional reason for analyzing the cumulative impacts to
10 riparian/bottomland forests.

11

12 **7.2.2 Air Quality**

13 The Clean Air Act Amendments (CAAA) of 1990 require the EPA to set NAAQS for pollutants considered
14 harmful to public health and the environment. The EPA has established NAAQS for six “criteria”
15 pollutants, which include ozone and CO (pollutants largely associated with mobile source emissions).
16 Inclusion of air quality in the cumulative impacts evaluation was determined due to the prevailing ozone
17 moderate “nonattainment” conditions within Dallas County and potential impacts relating to the expected
18 future increase in vehicle emissions related to an expected increase in VMT. Thus, air quality (in terms of
19 ozone levels) is considered a resource in poor health which warrants closer examination for potential
20 cumulative impacts.

21

22 Although both CO and MSATs were determined to have negligible potential project-related impacts to
23 local and regional air quality, these additional types of air pollution are nevertheless included as part of
24 this review of cumulative effects to regional air quality. This is because both CO and MSATs may be
25 expected to increase for the Build Alternative as compared to the No-Build Alternative due to the
26 projected relative increase in VMT for the Build Alternative design year even though no state or federal air
27 quality standard would be threatened by that increase. Also, both of these types of pollution are linked
28 primarily to mobile sources and to the overall status of ambient air quality, even though the levels of CO
29 and MSATs are not chemically involved in the determination of regional ozone levels (and, therefore, do
30 not contribute toward attainment of the ozone standard). In sum, all aspects of air quality examined for
31 direct and indirect impacts are included in the cumulative impacts analysis to provide a more
32 comprehensive picture of available information on air quality as it may relate to the proposed project.

⁷⁵ Memorandum of Agreement between TxDOT and TPWD for Finalization of 1998 MOU, Concerning Habitat Descriptions and Mitigation (2001); see http://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/natural/habitat_desc_mitigation.pdf.

1 7.2.3 Land Use

2 Land use within and near the project area is regulated by the City of Dallas through comprehensive land
3 use plans and zoning/development ordinances designed to manage growth and to achieve targeted
4 social objectives throughout this large and diverse city. Municipal zoning and land use regulations control
5 the intensity and type of development and control where land should be developed and where land
6 should be preserved. Change in land use has been included within this cumulative impacts assessment
7 because additional acreage would be required for ROW in a highly urbanized corridor where land not
8 already developed is somewhat limited. In addition, undeveloped land acquired for the proposed new
9 ROW would be made unavailable for other uses, and already developed land would experience a
10 permanent change in urban land use. Further, project-induced changes in land use were identified as
11 potential indirect impacts.

12

13 Land use is not a 'resource' such as forest habitat and clean air discussed above. Instead, land use is the
14 'result of decisions' involving both civic authorities and the property owner about the use of land (which is
15 a resource). With regard to privately-owned property within the City of Dallas, it is the city that makes the
16 initial determination of land use by enacting a zoning ordinance. The 'decision' as to the land use for a
17 particular parcel of property is further modified by the city through the adoption of comprehensive land
18 use plans, land development regulations, and the city's participation in the preparation of regional
19 transportation plans which plan and program roadway improvements. The same principle applies to other
20 public works projects such as water and power utilities. Subject to such preliminary decisions within the
21 province of the municipal authority, a property owner may develop or redevelop a parcel of property.
22 Because of this land use decision-making process which jointly involves the city and the property owner,
23 there is no inherent value to an existing type of land use that compels it to remain unchanged. For this
24 reason it cannot simply be assumed that conversion of an existing land use to transportation use is per se
25 an adverse impact to land use because the proposed transportation use of a particular piece of land may
26 offer tremendous benefits for the community/region that is to be served by the transportation project.

27

28 The determination of whether a proposed change in land use is adverse or beneficial may only be
29 objectively judged within the planning/zoning framework established by elected City of Dallas leaders, as
30 reflected in planning/zoning policies as outlined above. Consequently, the change in land use associated
31 with the proposed project is assessed for cumulative impacts to ensure that the nature and extent of the
32 expected changes are consistent with the overall planning objectives of the City of Dallas. The primary
33 indicator of whether project-related changes in land use are adverse or beneficial depends on whether
34 these changes are specifically mentioned in comprehensive land use plans or, if not mentioned by name,
35 whether approval for the changes are implied by more broadly-stated policies and objectives.
36 Additionally, of necessity land use is implicated in all regional planning as NCTCOG, TxDOT, FHWA, and
37 local government leaders collaborate in addressing regional transportation, socioeconomic, and

1 environmental issues in planning documents such as the MTP and TIP (i.e., these plans call for changes
2 in the transportation network that may require new ROW acquisition to implement).

4 **7.2.4 Community**

5 Several aspects of the fragile socioeconomic conditions of the residential community surrounding the
6 proposed project warrant further discussion in terms of cumulative impacts. The demographic data
7 presented in the discussion of community impacts (**Section 5.2**) demonstrate the need for heightened
8 sensitivity toward this predominantly racial minority community, which is characterized by generally low
9 household income. Communities with such characteristics may be expected to be more deeply affected
10 by the impacts of the construction related to roadway improvements, and federal and state policies
11 require a closer look at transportation projects which impact such communities to ensure fair treatment of
12 EJ populations.

13
14 The primary focus of evaluating impacts to an EJ community is whether a proposed build alternative
15 would result in a disproportionate impact to EJ populations. The requirement to examine of a project for
16 potential disproportionate EJ impacts could be interpreted to imply a possibility of shifting a proposed
17 project to a location where the construction impacts could be equitably shared by non-EJ populations.
18 While such an analysis is well suited for transportation projects, which involve finding a site for a new
19 location roadway, it is no practical utility for a project, which proposes to make safety and mobility
20 improvements to existing roadways. That is, it is simply not an option to relocate the direct and indirect
21 impacts associated with reconstructing the proposed SM Wright Parkway to some other part of the city to
22 avoid impacts to the adjacent EJ community. In this circumstance, it may be said that the expected
23 adverse impacts are necessary so the EJ community to realize the expected benefits of safety, mobility,
24 and community cohesion from the project. Instead, for the proposed project, impacts would be
25 “predominately borne by”⁷⁶ an EJ population simply because the site where improvements are needed
26 happens to be in an EJ community. Instead, the focus for the proposed project shifts from avoidance to
27 minimization of impacts to this vulnerable community, and to planning for mitigation measures which are
28 both practicable and tailored to the proposed project (i.e., commensurate with anticipated adverse
29 impacts and related to those impacts).

30
31 The examination of potential cumulative impacts to the particular community surrounding the proposed
32 project has included several socioeconomic factors related to the quality of life for the people who work
33 and live nearby. These factors include general aspects of the local economy, the expected impacts
34 resulting from the relocations and displacements of homes and businesses, the sense of cohesion within
35 the community, the characteristics of EJ populations near the project, and the way the proposed project

⁷⁶ FHWA Order 6640.23A, *FHWA Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* (June 14, 2012). <http://www.fhwa.dot.gov/legsregs/directives/orders/664023a.htm>.

would affect aesthetic aspects of the community. Assessing potential impacts to these factors involves a qualitative evaluation of direct and indirect impacts, as well as the expected impacts of other transportation or development projects in the community which are reasonably foreseeable.

7.2.5 Summary of Resource Indicators

As recommended by the CEQ Cumulative Effects Guidance (Page 26), specific indicators of each resource's condition have been identified and are shown in **Table 7-2**. The use of indicators of a resource's health, abundance, and/or integrity is a helpful tool in formulating quantitative or qualitative metrics for characterizing overall impacts to resources. These indicators are also key aspects of each resource (or issue, in the case of land use) that have already been evaluated in terms of the project's direct and indirect impacts, and facilitate greater consistency and objectivity in the analysis of cumulative impacts. In essence, the identification of indicators relevant to each resource/issue assists in focusing attention on the aspects of the resource or issue of greatest importance in assessing cumulative impacts for that resource or issue.

TABLE 7-2. RESOURCE INDICATORS

Resource Category	Indicators of Resource Condition and Potential Impacts
Biological Resources	Vegetation/Wildlife Habitat: the amount and quality of riparian/bottomland and upland forest habitat areas suitable for sustaining a diversity of wildlife species locally.
Air Quality	Ozone: the ability of the DFW ozone moderate nonattainment area to meet the eight-hour ozone standard, as modeled on a regional level.
	MSATs: trend of emissions over time, as modeled on a regional level.
	Carbon Monoxide (CO): indications of worsening of ambient air concentrations of this criteria pollutant, as modeled along the project ROW under worst case meteorological conditions.
Land Use	Land Use Plans: consistency of the proposed project and changes in land use with local land use plans.
Community	Local Economy: trends in economic conditions as reflected by indicators such as changes in the number of jobs in an area, and the amount of new development or redevelopment of land.
	Relocations and Displacements: the number of relocations and displacements expected and the services available to assist persons who may become unemployed.
	Community Cohesion: qualitative assessment as to how changes in the community may affect overall cohesion within and between residential neighborhoods.
	Environmental Justice: qualitative evaluation of how a planned project may affect the community's predominantly EJ population (i.e., racial minority and low income), considering planned mitigation measures that are both appropriate and practicable.
	Aesthetic Views: qualitative assessment of how planned projects may alter the visual characteristics of the community.

7.3 Step 2: Resource Study Area

Cumulative impacts analysis requires an evaluation of the sustainability of each resource of interest as viewed from the perspective of a geographic context that is larger than the project area. This spatial frame of reference for evaluating the cumulative impacts of each of the three resource categories in **Table 7-2** is referred to as a "resource study area" (RSA). The RSAs for the resources/issues evaluated for cumulative impacts were established using the criteria in CEQ/TxDOT guidance cited above. Each RSA represents a geographic area of sufficient size to sustain the long-term vitality of a given resource,

1 and defining the RSA is largely a function of the nature of each resource as defined on a case-by-case
2 basis after considering the unique aspects of a particular proposed project.⁷⁷ As suggested in the
3 discussion above, some of the topics considered for cumulative impacts should be considered “issues”
4 rather than resources. That is, some issues of interest do not lend themselves to a more traditional
5 assessment of an amount and condition of a particular resource, as compared to the amount and
6 condition of the same resource within a larger frame of reference (e.g., land use). Nevertheless, for all
7 resources/issues considered, the cumulative impacts analysis considered a larger frame of reference (i.e.,
8 RSA) so as to allow the expected impacts of the proposed project to be viewed within a larger context for
9 each resource/issue. As cumulative impacts analysis guidelines also require the setting of general
10 temporal boundaries to better define the time period considered, a brief statement regarding the
11 cumulative impacts temporal frame of reference is included below in the discussion of each
12 resource/issue.

13

14 **7.3.1 Biological Resources**

15 The RSA evaluated for biological resources consists of the lower reaches of watersheds (e.g., Trinity
16 River and White Rock Creek) and associated streams and open water that may be found both upstream
17 and downstream of the proposed project. This RSA, shown in **Appendices E-1–E-3**, encompasses
18 approximately 16,858.1 acres and comprises the natural network of watershed surfaces and
19 interconnected hydrologic features that surround the proposed project. This water-centered integration of
20 resources is linked directly to the biological resources. Moreover, while little detailed information is
21 available on wildlife populations in the project area, inferences may be drawn from a study of habitat that
22 is known to support a diversity of animal species. Key wildlife habitat, in turn, is often proximate to water
23 sources that characterize local watersheds such as bottomland and riparian forests. This RSA provides a
24 suitable context for evaluating impacts to forest habitat that is approximately 83 times larger in area than
25 the expected project construction footprint (i.e., 203.7 acres).

26

27 The year 1984 was used as the beginning temporal boundary for vegetation resources as it corresponds
28 to the year TPWD published its Vegetation Types of Texas MAP, indicating a point in time marking
29 heightened awareness of the connection between wildlife populations and available habitat. The ending
30 temporal boundary for both resources was established as 2035, again in correspondence with the project
31 design year and other local and regional (*Mobility 2035*) planning documents.

32

33 **7.3.2 Air Quality**

34 The RSA for evaluating the ozone NAAQS is the 10-county moderate eight-hour ozone nonattainment
35 area established by the EPA for the DFW Metropolitan Area, which includes Collin, Dallas, Denton,
36 Tarrant, Ellis, Johnson, Kaufman, Parker, Rockwall and Wise Counties. The RSA for MSATs is

⁷⁷ CEQ (January 1997), *Considering Cumulative Effects under the National Environmental Policy Act*, page 15.

1 composed of an affected 12-county transportation network developed by NCTCOG which includes the
2 proposed road network links and other transportation model links reflecting a plus or minus five or greater
3 percent change in traffic volume when comparing the proposed project's Build and No-Build scenarios in
4 the year 2035. As CO levels are primarily of concern at a local level and modeled accordingly, the RSA
5 for CO was based on the ROW limits for the proposed project, which represents the locations with the
6 highest potential for CO concentrations. These three air quality RSAs are shown in **Appendix E-1**, and
7 additional background information regarding study areas for air quality modeling analyses is in
8 **Section 5.1.8**.

9
10 In addition, the temporal boundaries for analyzing air quality cumulative impacts are the years 1990 to
11 2035. The earlier date was established because the CAA, as amended in 1990 (CAAA), authorized the
12 EPA to designate areas in nonattainment for failing to meet established NAAQS. The year 2035 was
13 chosen as the future temporal limit in order to capture the primary impacts that would be realized by the
14 proposed project and estimated changes in roadway traffic volumes, as well as the expected
15 implementation of local land use plans and the *Mobility 2035* MTP.

16 17 **7.3.3 Land Use**

18 As land use is not a resource in the traditional sense as discussed in CEQ regulations and guidance
19 documents, defining an appropriate RSA requires a fundamentally different approach. Although real
20 estate is clearly a resource, the use to which a particular parcel of land is put is not a resource but the
21 result of myriad factors. Within modern urban settings such as South Dallas, the owner of real property is
22 constrained to the range of permissible land uses prescribed by the city zoning ordinance applicable to
23 that property. While private property owners are subject to the constraints of zoning, public works
24 projects such as road improvements are not subject to zoning rules because such projects are planned
25 and owned by government agencies who act for the benefit of the community or region. The reality of
26 these aspects of modern urban life presents a dilemma because there is no universally accepted
27 hierarchy of land uses that can be referenced to ascertain whether a change from private to public land
28 use is always adverse or always beneficial. For example, to the private owner of real estate that is
29 located within proposed new ROW, the change may be perceived as adverse, but may be viewed as
30 highly beneficial to the rest of the community.

31
32 As suggested in **Step 1**, the assessment of impacts is an exercise in judgment that is always context
33 dependent and best left to the elected municipal representatives who are accountable to voters for
34 creating and implementing land use policies and thoroughfare plans. For these reasons and because the
35 proposed project is located within the City of Dallas, the RSA for assessing project-related land use
36 changes is the city boundary (**Appendix E-1**). Again, because land use is not a resource, the basis for
37 assessing cumulative impacts is whether the proposed SM Wright Project and expected project-related

1 changes in land use are included within City of Dallas comprehensive land use and thoroughfare plans; if
2 not specifically in such planning documents, then the assessment of impacts focuses on whether the
3 proposed project is consistent with overall planning goals and objectives articulated in city plans.
4 Although comprehensive planning is generally done for the city as a whole, the discussion of potential
5 impacts below emphasizes the aspects of city plans focusing on the South Dallas and Trinity River
6 portions of the city. Also, the city participates in the development of regional plans such as the MTP and
7 TIP which have a much wider field of view, but only those portions of regional transportation plans that
8 relate to the land use RSA (City of Dallas) are considered in this analysis.

9
10 Because the above municipalities began to experience substantial growth in the mid to late 1960s and
11 present day, 1965 was established as the early temporal boundary for assessing cumulative impacts to
12 land use. The design year for the proposed project (2035) because it provides an adequate future frame
13 of reference which overlaps with the planning horizons for city planning documents as well as the regional
14 MTP and TIP.

16 **7.3.4 Community**

17 The examination of cumulative impacts for the community affected by the SM Wright Project takes in
18 both the areas immediately adjacent to the areas designated for roadway improvements but also areas of
19 the community farther removed in space. Designation of a RSA for this community relied primarily on City
20 of Dallas planning documents, such as the South Dallas/Fair Park Economic Development Corridor Plan
21 (see **Section 2.4**), which refer to the area surrounding SM Wright Freeway as the South Dallas area or
22 community. The boundaries of this community RSA are depicted in **Appendix E-1**, and corresponds with
23 the area considered in the indirect impacts analysis (4,069 acres). This area is considered a suitable
24 frame of reference for further consideration of the socioeconomic impacts of reasonably foreseeable
25 projects planned and programmed within the RSA, in addition to the direct and indirect impacts within this
26 area that have already been discussed.

27
28 The temporal frame of reference for the community RSA begins with the time period when the SM Wright
29 Freeway was first constructed (approximately 1955) and ends with the design year of the proposed
30 downgrading of the freeway to create the SM Wright Parkway (2035).

32 **7.3.5 Summary of RSAs**

33 A summary of the geographic RSA for each resource/issue examined for cumulative impacts is provided
34 in **Table 7-3**.

1

TABLE 7-3. RESOURCE STUDY AREAS

Resource Category	RSA Geographic Boundaries *	RSA Temporal Boundaries
Biological Resources	Portions of the lower reaches of adjacent watersheds consisting of the Trinity River and White Rock Creek.	1984 - 2035
Air Quality	10-county moderate nonattainment area for the eight-hour ozone standard, which includes Collin, Dallas, Denton, Tarrant, Ellis, Johnson, Kaufman, Parker, Rockwall Wise Counties.	1990 - 2035
	Affected transportation network located which includes roadway links with a \pm five or greater percent traffic volume change (comprising a 12-county area).	1990 - 2035
	Project ROW line, which represents the locations with the highest potential for CO concentrations.	1990 - 2035
Land Use	City of Dallas municipal boundaries.	1965 - 2035
Community	South Dallas community surrounding the proposed project.	1955 - 2035
Notes: * See Appendix E-1 for visual representation of the geographical boundaries for the RSAs.		

2

3 **7.4 Step 3: Resource Health and Historical Context**

4

5 **7.4.1 Biological Resources**

6 The local watershed in which the proposed project occurs is located in an area TPWD has identified as
7 'Urban' due to the nearly complete replacement of original vegetation with residential, commercial,
8 industrial, and other urban landscapes. Even parks and open space patches within this area are urban in
9 character, with parks and cemeteries consisting of frequently-mowed non-native lawn grasses. However,
10 areas within local floodplains occur with the 'Water Oak-Elm-Hackberry' ecological subregion. These
11 local bottomland forests include some old growth riparian and bottomland trees, but a review of historic
12 aerial photography indicates that much of the existing forested area within the RSA has emerged over the
13 past half-century from areas previously cleared for agricultural use. These observations are consistent
14 with the general historical pattern of development in which, over the course of a century (i.e., late 1800s
15 to late 1900s), nearly all the native environment was dramatically altered by conversion of native
16 grasslands and many bottomland forested areas to croplands and pastures. In recent decades, urban
17 expansion has converted many agricultural lands and much of the surviving native areas to residential,
18 commercial, and other urban uses. Consequently, only wildlife species that have been able to adapt to
19 the impacts of these human encroachments have survived in the area, and species abundance and
20 diversity have declined (and would be expected to decline further) as forested and aquatic resources are
21 replaced by urban developments.

22

23 To further describe characteristics of the biological RSA, GIS mapping was used to delineate the various
24 land cover types based on aerial orthophotography (2009). An estimate of bottomland/riparian forests
25 within the RSA was acquired by mapping tree cover observed within the 100-year floodplain. The
26 summary of land cover in the RSA is presented in **Table 7-4**, which provides the acreage and relative
27 amount of riparian/bottomland forest and other habitat within this larger frame of reference.

28

TABLE 7-4. HABITAT/COVER WITHIN THE RSA

Habitat/Cover Types	Area within the RSA (acres)	Percent of Total RSA
Riparian/Bottomland Forest	3,894.2	23.1
Upland Forest	854.9	5.1
Open Water	798.7	4.7
Grass-dominated Area	3,365.8	20.0
Urban Landscape	7,944.5	47.1
TOTAL	16,858.1	100.0

1

2 **7.4.2 Air Quality**

3 The amount of pollution emitted into the local atmosphere has been the net effect of population growth.

4 The DFW Metropolitan Area has seen tremendous population growth in recent decades and the trend is

5 for that growth to continue. With growth comes increased development, an increase in vehicles, and an

6 increase in daily VMT on the area's transportation systems. Traffic congestion on the transportation

7 system has become one of the greatest challenges facing the DFW Metropolitan Area, and is a primary

8 contributor to regional levels of ozone. Throughout recent decades, multiple regional and local initiatives

9 have been planned and implemented in an effort to reduce emission of pollutants that lead to the

10 formation of ozone. Several of these initiatives specific to the area's transportation system include

11 increased capacity highways and roadways (through construction of additional travel lanes and bottleneck

12 improvements), construction of high-occupancy vehicle lanes, and the promoting of alternative

13 transportation (e.g., hike and bike trails, bus, and light rail). An additional initiative in the area has been

14 the promotion of redevelopment and sustainable development (and particularly TOD). Land development

15 patterns that encourage walking, bicycling, bus and rail use, and overall shorter automobile trips benefit

16 the transportation systems in the area by reducing vehicles and vehicle congestion (demand) and

17 improving air quality in the long-term. Local governments, with the support of regional transportation

18 authorities (e.g., NCTCOG) or in joint venture projects, promote these types of land development

19 initiatives by changing zoning to allow higher densities, expanding transit services, establishing tax

20 increment refinance zones to support infill, promoting mixed-use development, and working with the

21 private development community. The success of these initiatives has had a tremendous impact on the

22 regional air quality as indicated by current trends. For example, the number of days the ozone standard

23 has been exceeded in the DFW area over the past decade has substantially decreased. Although there

24 have been year-to-year fluctuations, the ozone trends continue to show improvement. Otherwise, the 10-

25 county ozone nonattainment area is currently in attainment for all other criteria pollutants (CO, PM,

26 nitrogen dioxide, and sulfur dioxide), with the exception of a small part of Collin County that is in

27 nonattainment for lead.

28

1 The CAA requires states with areas that fail to meet the NAAQS prescribed for criteria pollutants to
2 develop a State Implementation Plan (SIP). The SIP describes how the state will reduce and maintain air
3 pollution emissions in order to comply with the federal standards. Important components of a SIP include
4 emission inventories, motor vehicle emission budgets, control strategies, and an attainment
5 demonstration. The TCEQ develops the Texas SIP for submittal to the EPA. One SIP is created for each
6 state, but portions of the plan are specifically written to address each of the nonattainment areas (e.g., a
7 “Dallas-Fort Worth SIP”). As changes are needed, the SIP is revised rather than rewritten in its entirety.
8 Revisions are often prompted by new federal or state regulations, new modeling techniques, or a change
9 in an area’s attainment status. These regulatory controls, as well as other local transportation and
10 development initiatives implemented throughout the DFW Metropolitan Area by the NCTCOG and local
11 governments provide the framework for growth throughout the area consistent with air quality goals
12 regarding ozone levels and air quality in general.

13
14 In addition to the criteria air pollutants for which there are NAAQS, EPA also regulates air toxics. Most air
15 toxics originate from human-made sources, including on-road mobile sources, non-road mobile sources
16 (e.g., airplanes), area sources (e.g., dry cleaners), and stationary sources (e.g., factories or refineries).
17 Although no NAAQS for MSATs exist, EPA has certain responsibilities regarding the health effects of
18 MSATs. The EPA controls emissions of air pollutants through one of two major strategies: NAAQS or
19 regulatory controls that result in specific emission reductions. Both strategies provide for increased
20 protection of human health and the environment. In order to more quickly implement MSAT emission
21 reductions, the EPA has focused efforts on nationwide regulatory controls, some of which are
22 summarized below.

23
24 On March 29, 2001, the EPA issued a Final Rule on Controlling Emissions of Hazardous Air Pollutants
25 from Mobile Sources.⁷⁸ In its rule, EPA examined the impacts of existing and newly promulgated mobile
26 source control programs, including its reformulated gasoline program, its national low-emission vehicle
27 standards, its Tier II motor vehicle emissions standards and gasoline sulfur control requirements, and its
28 26 proposed heavy-duty engine and vehicle standards and on-highway diesel fuel sulfur control
29 requirements. Between 2000 and 2020, FHWA expects that even with a 64 percent increase in VMT,
30 these programs will reduce on-highway emissions of benzene, formaldehyde, 1,3- butadiene, acrolein,
31 and acetaldehyde between 57 percent and 65 percent, and will reduce on highway diesel particulate
32 matter and diesel organic gas emissions by 87 percent. Additional EPA rules to further reduce MSATs
33 became effective on April 27, 2007.⁷⁹ In these rules the EPA adopted the following new requirements to
34 substantially lower emissions of benzene and the other MSATs by: (1) lowering the benzene content in
35 gasoline; (2) reducing NMHC exhaust emissions from passenger vehicles operated at cold temperatures

⁷⁸ 66 FR 17229 (March 29, 2001).

⁷⁹ The Final Rules on Control of Hazardous Air Pollutants from Mobile Sources (72 FR 8427, February 26, 2007) modified regulations in 40 CFR Parts 59, 80, 85 and 86.

1 (under 75 degrees); and (3) reducing evaporative emissions that permeate through portable fuel
2 containers. Additional EPA MSAT regulations include: petroleum refiners meeting an annual average
3 gasoline benzene content standard for reformulated and conventional gasoline (beginning in 2011),
4 implementation of EPA standards to reduce non-methane hydrocarbon exhaust emissions from gasoline-
5 fueled vehicles (implemented in phases based on vehicle type, beginning in 2010), evaporative
6 requirements for portable gas containers (beginning in 2009), and more stringent evaporative emission
7 standards for new passenger vehicles (effective in 2009 for light vehicles and 2010 for heavy vehicles).

8 9 **7.4.3 Land Use**

10 According to information provided by City of Dallas planners, the city comprises approximately 308
11 square miles of area, of which there are 179 square miles of developed land and 24 square miles of
12 undeveloped land that is developable (i.e., 7.8 percent). The remaining 105 square miles within the city
13 are lands that are either escarpments or within floodplains and are therefore considered undevelopable.
14 As indicated for the indirect impacts AOI in South Dallas (**Table 6-4**), the amount of undeveloped
15 developable land near the proposed project comprises approximately 12.2 percent of the area (i.e. 496
16 acres).

17
18 Historically, there has been a direct correlation between the use of land (development) and population
19 growth. As a population grows, additional infrastructure and facilities are needed to adequately support
20 the population, thus creating a constant need to balance the amount of land needed for transportation
21 versus other land uses. Information from City of Dallas planners and NCTCOG (**Table 6-3**) indicate
22 recent past and projected future growth rate to be approximately one percent per year. Accordingly, city
23 comprehensive land use plans reflect a continuation of urban development and roadway improvements
24 designed to bear the demands of future growth and traffic. However, as indicated in the Forward Dallas!
25 Comprehensive Plan ⁸⁰, the city is essentially landlocked and city leaders/planners envision the future
26 infilling of available undeveloped land and redevelopment of underutilized land with the overarching goal
27 of creating more livable communities. With the advent of widespread commuting and other transportation
28 and electronic connections throughout the DFW Metropolitan Area, the importance of regional
29 transportation plans has grown in importance; these regional plans should also be viewed as
30 intergovernmental with very real local land use consequences.

31 32 **7.4.4 Community**

33 South Dallas is a distinctive community characterized by a predominantly EJ population within the context
34 of several historic residential neighborhoods. This community is an important part of the historical
35 development of the City of Dallas, and has received substantial attention in terms of various city plans

⁸⁰ See Forward Dallas! Comprehensive Plan (June 2006), Land Use Assessment Appendix, pages 1 and 2;
http://www.dallascityhall.com/forwardDallas/comprehensive_plan.html.

1 and policies discussed previously in **Sections 2.4, 5.2, and 6.2.2**. City planning initiatives seek to
2 preserve aspects of the community which promote an urban residential neighborhood atmosphere by
3 taking actions to improve education, public safety, healthy environment, job growth, and mobility. A key
4 component of city plans includes encouraging the development of the limited amount of remaining
5 undeveloped land in South Dallas and the redevelopment of underutilized properties with either
6 residences or commercial retail or services within designated business nodes. City plans make
7 redevelopment of land a priority to attract new retail stores, remove unsightly landscapes, and preserve
8 the strong sense of neighborhood that exists throughout this area.

9 10 **7.5 Step 4: Direct and Indirect Impacts**

11 12 **7.5.1 Biological Resources**

13 14 ***Direct Impacts***

15 The proposed improvements for the SM Wright Project would result in approximately 7.57 acres of
16 permanent impacts to riparian/bottomland forests and 1.08 acres of upland forests. No other direct
17 impacts to unusual or special habitat features described in the TPWD-TxDOT MOA are expected.

18 19 ***Indirect Impacts***

20 Expected indirect impacts from project-induced land use change would affect 10.8 acres, of which 3.7
21 acres would be upland forest. No other indirect impacts to unusual or special habitat features described
22 in the TPWD-TxDOT MOA are expected.

23 24 **7.5.2 Air Quality**

25 26 ***Direct Impacts***

27 Direct impacts on ozone-forming emissions, CO, and MSATs related to the SM Wright Project are
28 primarily those associated with increased capacity, accessibility, and the resulting projected increases in
29 VMT. For example, the estimated VMT for the 2035 No-Build Alternative is 421.5 million miles/year in the
30 MSATs RSA as compared to 487.6 million miles/year for the 2035 Build Alternative, an increase of 66.1
31 million miles/year or 15.7 percent. Just as this difference in VMT produced an estimated 16.7 percent
32 increase in computed total 2035 MSATs emissions for the 2035 Build Alternative as compared to the No-
33 Build Alternative (see **Table 5-5**), some level of increase in CO and ozone precursors would also be
34 expected to occur. However, emission reductions as a result of EPA's new fuel and vehicle standards
35 are anticipated to generally offset air quality impacts associated with VMT increases. Additional
36 observations regarding potential direct impacts of the three types of indicators of air quality under
37 consideration are provided below.

1 Long-term meteorological data and detailed wide emission rates for industry, business, and transportation
2 sources are required in the complex process of modeling ozone concentrations. As this process is
3 generally beyond the scope of a typical environmental analysis for a highway project, concentrations of
4 ozone for the purpose of comparing the results of the NAAQS are modeled by the regional air quality
5 planning agency (NCTCOG) for the SIP. The contribution of the Build Alternative in terms of increased
6 emissions of VOCs and NO_x (ozone precursors) is included in the regional transportation network
7 modeling for future conditions, and is included in the determination of conformity of the MTP and TIP with
8 the SIP (see **Section 5.1.8**). Accordingly, any future increases in emissions of ozone precursors
9 attributable to the SM Wright Project are factored into regional NCTCOG ozone modeling that has been
10 determined to conform with the EPA requirement to for ozone air quality to be making reasonable
11 progress toward achieving attainment of the eight-hour ozone standard.

12
13 A quantitative analysis of MSATs within the project-affected transportation network found that the 2035
14 No-Build Alternative would reduce the combined emissions of seven priority air toxics by 43 percent as
15 compared to the 2012 base year; this reduction in the tons/year of the seven MSATs is expected despite
16 a 60 percent increase in VMT by 2035. Similarly, MSAT modeling predicts a 33 percent decrease in
17 priority MSAT emissions for the 2035 Build Alternative, despite an 85 percent increase in VMT. The total
18 MSAT load for the Build Alternative in 2035 is approximately 0.57 ton higher (i.e., 16.7 percent) than the
19 No-Build scenario. The total amount of the seven priority MSATs for the 2035 Build Alternative are higher
20 than the No-Build scenario because of the greater number of vehicles utilizing the affected area roadways
21 and the higher amount of VMT. However, as compared to the 2012 base year, both 2035 Build and No-
22 Build alternatives have estimated emissions lower than present levels because of EPA's national control
23 programs that are projected to reduce MSAT emissions by 72 percent between 1999 and 2050. Local
24 conditions may differ from these national projections in terms of fleet mix, vehicle turnover rates, VMT
25 growth rates, and local control measures. However, the magnitude of the EPA-projected reductions
26 indicates that MSAT emissions in the study area are likely to be lower in the future in all cases.

27
28 In accordance with the TxDOT Air Quality Guidelines, CO modeling included adverse meteorological
29 conditions and sensitive receptors at the ROW line (i.e., the worst-case scenario). Modeling was
30 performed for the project estimated year of completion (2020) and design year (2035) using traffic
31 obtained from the TxDOT TPP Division. Per the modeling results, as detailed in **Table 5-2**, local
32 concentrations of CO are not expected to exceed national standards at any time.

33 34 *Indirect Impacts*

35 Project-induced land use change is anticipated to affect 0.3 percent (10.8 acres at 14 locations) of the
36 indirect impacts study AOI. This change in land use would result in the development of vacant lots or
37 redevelopment of existing neighborhood commercial properties, resulting in the construction of

1 residences or small-scale commercial development. These types of changes are not expected to result in
2 appreciable changes to the amount of vehicles or patterns of vehicle movement within the RSAs for
3 ozone, MSATs, or CO. No change in ozone attainment status is anticipated within the indirect impacts
4 AOI as this amount of land use conversion is not expected to provide enough change, if any, on its own to
5 alter the nonattainment status of ozone. Further, there are mandatory federal and state air emissions
6 regulations enforced by the EPA and TCEQ, as well as other strategies (e.g., CMP for managing
7 congestion (see **Table 5-4**), to ensure that growth and development do not prevent regional compliance
8 with the ozone standard. Even with an increase in VMT and possible temporary emission increases
9 related to construction activities, the EPA's vehicle and fuel regulations, coupled with fleet turnover, would
10 over time cause substantial reductions of mobile source emissions, including the ozone precursors VOC
11 and NOx. Similarly, minor increases in vehicles associated with new residences and commercial
12 developments in the AOI would not be expected to exceed local CO ambient air quality standards or
13 contribute substantially to MSAT emissions within the affected transportation network.

14
15 Off-road emissions from construction equipment may temporarily degrade air quality through dust and
16 exhaust gases. However, EPA has issued regulations to control air pollutants from off-road mobile
17 sources. Indirect air quality impacts from MSATs are unquantifiable due to existing limitations in
18 determining pollutant emissions, dispersion, and impacts to human health; however emissions would
19 likely be lower than present levels in future years as a result of the EPA's national control regulations (i.e.,
20 new light-duty and heavy-duty on road fuel and vehicle rules; use of low sulfur diesel fuel). Even with an
21 increase in VMT and possible temporary emission increases related to construction activities, the EPA's
22 vehicle and fuel regulations, coupled with fleet turnover, would over time cause substantial reductions of
23 on road emissions, including CO, MSATs, and the ozone precursors VOCs and NOx.

24 25 **7.5.3 Land Use**

26 27 *Direct Impacts*

28 The proposed SM Wright improvements would require approximately 32.4 acres of ROW/easement to
29 construct the project, of which approximately 4.93 acres are undeveloped, 0.7 acres are developed
30 residential, 25.58 acres are developed non-residential, and 1.15 acres would require a joint use easement
31 with Union Pacific Railroad (UPRR) property.

32
33 The required new ROW is expected to result in the displacement of six residential and 10 commercial
34 properties, which would then result in indirect impacts associated with the relocation of persons and
35 businesses. These properties contain 24 structures, consisting of six single-family residences (including
36 car garages), nine commercial structures (including buildings and canopies at gasoline service stations)
37 and six billboards that would be displaced by the proposed project. However, four of the six displaced

1 single-family residences have been early acquired by the City of Dallas as well as two of the potential
2 business displacements. Three of the six billboards have also been early acquired by the City of Dallas.
3 See the below **Early Acquisitions** subheading and **Appendix C-11** for additional details on early
4 acquisition parcels.

5
6 A discussion of affordable housing in the area, opportunities for business relocation, and TxDOT policies
7 for assisting persons and businesses affected by dislocations was included in **Section 5.2.5**. Based on
8 that information relating to the availability of suitable relocation opportunities for the number and types of
9 residential and businesses affected by the proposed project, there does not appear to be a substantial
10 impediment to orderly relocations related to project displacements.

11
12 **Indirect Impacts**

13 Project-induced land use change was assessed for 14 sites comprising 10.8 acres adjacent to the
14 proposed SM Wright Parkway (**Appendix D-4**). Of these 14 sites, 10 are vacant lots comprising 5.2
15 acres. The other four sites comprise 5.6 acres, and are a mixture of developed (2.3 acres) and
16 undeveloped (3.3 acres) land. The developed portion of these sites includes 11 structures, which include
17 two residential structures (one is partially collapsed and the other is boarded up), two abandoned
18 commercial buildings, and seven operating commercial structures, as follows: two retail liquor stores,
19 three nightclubs, one diner, and one barber shop. The potential development or redevelopment of these
20 properties is not regarded as a potential displacement because it is presumed that any sale of a property
21 to a prospective developer would be made voluntarily. Nevertheless, the redevelopment of land on which
22 any of these several existing businesses are located could result in the loss of employment for current
23 employees, in which case the services of Workforce Solutions would be available for business and
24 employees to assist those who may lose employment (see **Section 5.2.5**). While it is to be expected that
25 the redevelopment of land may create new jobs for the community that may exceed the quantity and
26 salaries of current positions, this potential beneficial offset for the community would not lessen the need
27 to make Workforce Solutions services available to those persons who could still lose their jobs in existing
28 businesses. Accordingly, the types of services offered by Workforce Solutions will be presented during
29 the public hearing for the SM Wright Project to raise community awareness of this resource (see
30 **Sections 6.6.3** and **6.7**). The potential development of these 10.8 acres would represent 0.3 percent of
31 the AOI (4,069 acres). It is presumed that any development or redevelopment of these 14 sites of
32 potential project-induced land use change would be in compliance with City of Dallas zoning and
33 development requirements.

7.5.4 Community

Direct Impacts

The projected employment growth rate from 2005 to 2035 is approximately 1.6 percent per year for the City of Dallas. NCTCOG employment forecasts, which account for the cyclical nature of employment changes (including economic recessions), predict future employment growth for the City of Dallas as this municipality responds to increased demand spurred by forecasted population growth. The proposed project would provide a portion of the additional mobility necessary to support the increasing traffic associated with this projected growth.

It is anticipated that a range of 28 to 52 employees could experience job relocation or loss in association with seven businesses that would likely be displaced by the proposed project. However, there appears to be sufficient future employment opportunities of varying skill requirement intensities within the City of Dallas based on information provided by the NCTCOG's Development Monitoring database and interviews with planning officials from the City of Dallas. Mitigation for job losses would be implemented through proactive use of services available from the TWC's Workforce Solutions for Greater Dallas for both business owners and employees. These efforts will include increasing community awareness of the Workforce Solutions' services at the Public Hearing. It is expected that this approach will minimize adverse impacts to employees, thereby avoiding substantial economic impacts to the local economy.

The proposed project would require the acquisition of 17 developed properties, including six residential, 10 commercial, and one joint use easement with the UPRR. The six residential displacements would include six single-family residences. The 10 commercial properties have an associated nine commercial structures and five billboards. The joint use easement with UPRR has one billboard (see **Table 5-9** and **Appendix A-6** for details). Four of the six displaced single-family residences and four of the eleven displaced commercial properties have been early acquired by the City of Dallas as explained in **Appendix C-11**. Based on the results of the replacement residential (see **Table 5-10**) and commercial property searches (see **Section 5.2.5**), there appears to be a sufficient number of vacant and developed properties to accommodate those residences and businesses impacted by the proposed project. Relocation assistance and compensation would follow in accordance with applicable state and federal requirements. As discussed above, job losses associated with business displacements would be mitigated in part through the use of services from Workforce Solutions. Also, future employment opportunities are expected based on the number of future developments planned within the City of Dallas (see **Sections 5.2.5** and **7.4.5**).

1 Since neighborhoods represent a geographic unit that can be readily identified by community members, a
2 correlation of affected block groups to project area neighborhoods was used to determine communities
3 adjacent to the proposed project. The loss of six residential properties from a neighborhood is unlikely to
4 negatively affect the overall cohesiveness and nature of this community. Elementary school attendance
5 zones were also used as a means to determine potential communities adjacent to the proposed project.
6 A loss of two single-family residential homes within the attendance zone of an elementary school with an
7 enrollment of over 500 students is unlikely to negatively impact the overall cohesiveness and nature of its
8 encompassed community. A positive impact of the proposed project includes enhanced community
9 cohesion of the neighborhoods in the project area resulting from the downgrade of SM Wright Freeway to
10 the proposed SM Wright Parkway. This change to the community would effectively 'turn back the clock'
11 to more closely approximate the situation that existed at the time the SM Wright Freeway was originally
12 constructed in the 1950s. That is, the preexisting condition to the freeway was the Houston and Texas
13 Central Railroad corridor, which predates urban development in the South Dallas area (see
14 **Section 5.2.7**).

15
16 The demographic characteristics from U.S. Census data presented in **Section 5.2.9** indicate the area
17 surrounding the proposed project is comprised of a predominantly African-American population with
18 generally low income households. More than half of the block groups in the areas near the proposed
19 project have reported median household incomes below the HHS 2013 poverty guideline. As the
20 construction impacts of the proposed project would be primarily borne by EJ populations, efforts to
21 mitigate those impacts has been a central aspect of the discussion of direct impacts. These mitigation
22 efforts focus on coordinating with Workforce Solutions to assist persons who may lose employment as the
23 result of a displace business and on including aesthetic enhancements in the project design to create a
24 greater sense of community. In addition, the proposed project is designed to create benefits that would
25 be realized primarily by this same EJ community in terms of safety, improvements to existing freeway
26 design deficiencies, managed traffic congestion, and improved mobility. The downgrading of SM Wright
27 Freeway to a landscaped urban arterial would also benefit community cohesion in an area that is
28 currently divided by the existing controlled-access freeway.

29
30 Due to the proximity of the NRHP-listed neighborhoods adjacent to the proposed SM Wright Parkway,
31 efforts would be made to preserve the historic character of the adjacent neighborhood. The proposed
32 improvements are not anticipated to change the aesthetic character of the surrounding communities but
33 would contribute to a greater sense of community cohesion within this EJ setting. Aesthetic structural and
34 landscape design considerations would be incorporated during final project design Plans, Specifications,
35 and Estimates.

36

1 The SM Wright Parkway – Landscape and Aesthetic Concept Plan, discussed in detail in **Section 5.2.11**
2 would include enhanced landscape plantings along the streetscape and at key intersections that would
3 provide an inviting environment for pedestrian and motorists. Aesthetically pleasing, native and adaptive
4 plants have been selected to promote low water requirements and minimal maintenance needs. Visibility
5 clearances would be maintained to meet TxDOT and City of Dallas standards. Various sizes of gateway
6 monuments ranging from 7 feet to 60 feet in height would also be included throughout the corridor. The
7 design of each monument is representative of the historic character of the adjacent neighborhoods and
8 would promote a sense of pride and ownership in this well-established EJ community.

9
10 The proposed design would be consistent with the City of Dallas' 2005 Trails Master Plan and the 2011
11 Dallas Bike Plan, and include multi-use hike and bike trails located on both sides of the roadway within
12 the landscaped parkway of the proposed SM Wright Parkway. All multi-use trails would be 12 feet wide
13 and designed to meet current AASHTO trail design standards. This project would also include on-street
14 bike facilities that will be accommodated by 16-foot (14-foot and 2-foot shoulder) wide outside vehicular
15 travel lanes.

16
17 The proposed design would be compliant with the ADAAG as well as the MUTCD. Stamped concrete,
18 brick and/or concrete pavers would delineate pedestrian access across busy streets. Intersections would
19 be highlighted with hardscape to alert drivers of pedestrian crossings, the design would emphasize the
20 neighborhood gateways. Pedestrian crossings would include ADA accessible ramps in compliance with
21 the Texas Accessibility Standards including detectable warning surfacing, audible alert systems, and
22 rapid flash vehicular warning signage.

23
24 The SM Wright Parkway – Landscape and Aesthetic Concept Plan presumes a continuance of the
25 aesthetic contribution made by the dozens of large (frequently 20 to 30 inches dbh) live oak trees lining
26 SM Wright Freeway. As discussed in **Section 5.1.5**, these large trees are generally just outside the
27 proposed project's construction footprint and final design planning for the removal of existing frontage
28 road pavement would consider the close proximity of these trees to avoid damage to them. Every effort
29 would be made to preserve trees within the ROW and other areas where they neither compromise safety
30 nor substantially interfere with the project's construction.

31 32 ***Indirect Impacts***

33 As discussed in detail in the Community Impact Assessment (**Section 5.2**) and summarized in **Section**
34 **6.1.1**, the proposed improvements are designed to improve mobility and enhance safety for all three of
35 the major roadways comprising the proposed project. To a great extent, these major components of the
36 “need” for the proposed project are also a source of anticipated encroachment-alteration indirect impacts.
37 Likewise, the proposed project is expected to facilitate the growth of population and employment within

1 the AOI, enhance community cohesion, and encourage economic revitalization, all of which are
2 considered important local area goals established by City of Dallas elected officials and staff planners.
3 Accordingly, it is expected that beneficial effects to the notable feature relating to community cohesion
4 would result from the proposed project. Similarly, the community cohesion and safety aspects of the
5 proposed downgrade of SM Wright Freeway would benefit this predominantly EJ community.

6
7 It is expected that the combined effects of altered travel circulation and some improvement in non-
8 highway travel speeds and LOS would positively impact local transit, emergency, and other public
9 services, as time spent in congestion is anticipated to decrease with the overall improvement in roadway
10 operational conditions. This proposed project would succeed if all components are constructed to allow a
11 substantial portion of future traffic to be diverted away from the SM Wright facility as a result of the IH 45
12 and CF Hawn/US 175 direct connectors. Improved access to these services is a benefit to all
13 populations, including particularly vulnerable elements such as the elderly, children, minority groups, and
14 low-income groups. Increased mobility and improved LOS could also stimulate economic growth in the
15 AOI surrounding the SM Wright Parkway, and thereby could result in infill development of residential and
16 commercially zoned parcels. Such infill of existing vacant properties would be consistent with
17 development goals as outlined in City of Dallas ordinances and comprehensive land use plans.

18
19 As the above travel-related impacts are either consistent with the objectives of the City of Dallas for the
20 AOI and with regional transportation plans and do not adversely impact notable features, the anticipated
21 encroachment-alteration aspects of indirect impacts would be positive. These impacts would also be
22 expected to create a slight increase in demand on the existing undeveloped land of the AOI as well as
23 already developed land that with structures in poor condition. Over the long term, as mobility along the
24 proposed SM Wright Parkway and CF Hawn/US 175 is improved and as growth continues, residential
25 and commercial infill could reach a maximum thereby decreasing supply such that the demand for further
26 new developments increases.

27
28 The encroachment-alteration indirect effects outlined above would also serve as contributing factors to
29 project-induced land use change in the AOI. There are several socioeconomic facets related to the
30 expected project-induced land use change for the 14 sites comprising 10.8 acres adjacent to the
31 proposed SM Wright Parkway. With regard to the 10 sites which are vacant lots (5.2 acres), the
32 development of these sites would be expected to benefit the surrounding largely residential community.
33 That is, the downgrading of the SM Wright Freeway to a community parkway, accompanied by the
34 removal of frontage roads and the overall aesthetic enhancements that would result to the community,
35 would likely induce the construction of new homes on these vacant lots and further contribute to the
36 residential feel of the community and to community cohesion. The other four sites (5.6 acres) include 11
37 structures, of which two are residential structures in poor condition and two abandoned are commercial

1 buildings. The redevelopment of the sites containing these four structures in would improve the
2 socioeconomic condition of the community through the construction of new homes and/or businesses.

3
4 The remaining seven structures that could be displaced by future land redevelopment are currently-
5 operating commercial buildings which include two retail liquor stores, three nightclubs, one diner, and one
6 barber shop. The potential development or redevelopment of these properties is not regarded as a
7 potential displacement in the traditional sense because it is presumed that any sale of a property to a
8 prospective developer would be made voluntarily (i.e., the redeveloper would not have eminent domain
9 authority to force the sale of property). Nevertheless, the redevelopment of land on which any of these
10 several existing businesses are located could result in the loss of employment for current employees, in
11 which case the services of Workforce Solutions would be available for business and employees (see
12 **Section 5.2.5**). While it is to be expected that the redevelopment of land may create new jobs for the
13 community that may exceed the quantity and salaries of current positions, this potential beneficial offset
14 for the community would not lessen the need for business owners to seek out the services of Workforce
15 Solutions on behalf of employees who could still lose their jobs. For this reason, TxDOT will seek to
16 increase community awareness of Workforce Solutions at the Public Hearing.

17 18 **7.6 Step 5: Reasonably Foreseeable Actions**

19 CEQ regulations indicate that cumulative impacts analyses must include an assessment of “reasonably
20 foreseeable future actions” affecting the issues/resources studied (40 CFR Section 1508.7). This step of
21 the cumulative impacts analysis identifies other transportation projects and flood control projects, as well
22 as planned large-scale residential and commercial developments within the RSA for biological resources.
23 The identification of reasonably foreseeable future actions for this assessment was based on a review of
24 proposed and ongoing development projects located within the RSA that are reflected in materials
25 provided by City of Dallas planners or Web sites, and from entities involved with proposed developments.
26 Transportation projects were identified from NCTCOG and TxDOT databases and engineering
27 documents. Reasonably foreseeable projects were not specifically inventoried for the much larger RSAs
28 associated with air quality and land use because such projects are already included in relevant NCTCOG
29 projections of future air emissions and City of Dallas land use plans, respectively.

30 31 **7.6.1 Biological Resources**

32 Continued growth and development within the project vicinity from other reasonably foreseeable actions
33 would result in further changes in land use and accompanying loss of available habitat and/or habitat
34 fragmentation. As previously described, the approach to identifying reasonably foreseeable future
35 projects involved a review of city and regional land use plans, project plans, and interviews with City of
36 Dallas planners. This approach led to the identification of 47 projects that are expected to occur within
37 the biological resources RSA in future years. Of this total, 33 of the projects involve private or public land

1 development that would be expected to result in site construction affecting land ranging in size from 0.4
2 acre to 253.2 acres. The locations of these development projects are shown in **Appendix E-2**, and a list
3 of the projects is provided in **Appendix E-4**. An additional 14 projects include a combination of
4 transportation and flood control projects ranging in size from 0.8 acre to 136.5 acres. The transportation
5 and flood control projects in the RSA are shown in **Appendix E-3**, and a list of the projects is provided in
6 **Appendix E-4**. The estimated potential construction footprint for the combined group of reasonably
7 foreseeable projects is 1,608.2 acres. It is estimated that impacts from these 47 projects could potentially
8 affect as many as 139.3 acres of riparian/bottomland forests and 1.2 acres of upland forests. Although
9 final design plans for these projects may result in a reduction of the acreage trees affected, this provides
10 a general estimate of forest impacts for future expected projects within the RSA.

11 12 **7.6.2 Air Quality**

13 Reasonably foreseeable projects were not inventoried for the 10-county ozone moderate nonattainment
14 area because air quality is regulated and managed on a regional level where expected development
15 projects and air emissions are included in pollution budgets, dispersion modeling, and air quality
16 implementation plans. In general, implementation of transportation system improvements and reasonably
17 foreseeable development in the region would likely result in temporary negative impacts to air quality in
18 terms of construction-related impacts. However, the impact of reasonably foreseeable projects on air
19 quality would be minimized through the EPA and TCEQ enforcement of federal and state regulations.
20 These mandates ensure that despite the increase in urbanization (and likely increase in VMT),
21 compliance with ozone standards is not prevented and the maintenance of air quality standards for all
22 other criteria pollutants, including CO, is not jeopardized.

23
24 The EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial
25 reductions of on-road emissions. In almost all cases, lower emissions will cause VOCs and NOx levels,
26 CO, and MSATs to be substantially lower than they are today. Although the health effects of MSATs from
27 reasonably foreseeable projects are unquantifiable due to unavailable or incomplete information, the EPA
28 projects dramatic reductions in MSATs emissions based on its regulation of vehicle engines and fuels.
29 With regard to ozone air quality conformity, reasonably foreseeable transportation projects are primarily
30 managed through the NCTCOG and urban growth-related plans are factored into models that provide
31 estimates of future ozone levels. For example, the NCTCOG includes in its emission modeling the
32 operational CMP details, the type of strategy, implementing responsibilities, schedules, and expected
33 costs of all regional project commitments.

34 35 **7.6.3 Land Use**

36 The fact that land use is a decision and not a resource may appear to render the consideration of
37 reasonably foreseeable actions somewhat problematic. For example, based on spreadsheets and shape

1 files provided by City of Dallas planners, there are hundreds to thousands of pending/potential
2 development projects at any given time that could affect land use in some way. Besides the unwieldy
3 nature of the data, knowing that other projects may affect land use throughout the City of Dallas does not
4 contribute to the analysis of cumulative impacts of the proposed SM Wright Project. This is because all
5 such projects have been entered into city records to receive the various permits or other authorizations
6 necessary for the projects to be approved for construction. As ultimately all proposed/pending projects
7 that could result in a land use change would only be approved upon compliance with city zoning and
8 development regulations, simply amassing an inventory of such projects does nothing to assist in the
9 analysis of land use cumulative impacts. For example, the reasonably foreseeable development,
10 transportation, and flood control projects planned/programmed in the general area surrounding the
11 proposed project have been inventoried and information about them is included in **Appendices E-2**
12 through **E-4**. Such information demonstrates that the City of Dallas has been very active in terms of
13 participation in both private and public works developments, as would be expected, but this inventory of
14 projects alone sheds no light on the importance of the SM Wright Project in city planning. Instead, it is
15 the City of Dallas planning documents that provide the reasonably foreseeable aspect of the analysis
16 because these documents represent a synthesis of trends in urban land development/redevelopment,
17 existing and future socioeconomic conditions and demographics, and myriad other relevant social issues
18 of interest to voters and their elected leaders. For example, the Trinity River Corridor CLUP⁸¹ includes a
19 listing of important transportation projects that are planned to serve citywide objectives addressing growth
20 and revitalization of local economies, among which the SM Wright Freeway downgrade is included. In
21 this sense, patterns in urban development and socioeconomic needs of the community relating to land
22 use are interwoven into the planning documents that guide city planners and other officials in the
23 execution of their offices.

24
25 The reasonably foreseeable trends in urban land use management for the City of Dallas are embodied in
26 the several comprehensive plans discussed above in **Sections 2.4, 3.2, 5.2.2, and 6.2.2**. The Forward
27 Dallas! Comprehensive Plan is the primary planning document used to assess cumulative impacts to land
28 use related to the proposed project. This plan references and builds upon planning elements contained in
29 the Trinity Corridor Comprehensive Land Use Plan and the Balanced Vision Plan for the Trinity River
30 Corridor. With regard to the proposed project, the South Dallas/Fair Park Economic Development
31 Corridor Plan is a particularly relevant city plan. Finally, the reflection of the proposed project within the
32 MTP and TIP is an important dimension of cumulative impact considerations relating to project-related
33 land use changes.

34
35 Numerous initiatives reflected in the above-referenced planning documents would continue to shape land
36 development and redevelopment within the land use RSA. The population and employment growth

⁸¹ See the List of Citywide Projects over \$7.5 Million within the Trinity River Corridor, page 30.

1 projected for the City of Dallas is expected to be accompanied by continued urbanization through the
2 redevelopment of underutilized areas, as guided by local land use plans and policies. At this point in
3 time, however, the specific impacts of continued development within the project area are speculative due
4 to the unpredictability of market forces and individual developer decisions. In general, as indicated by city
5 land use plans and by the input from city planners, anticipated beneficial impacts include new economic
6 opportunities, housing alternatives, employment, community services, redevelopment of deteriorated
7 buildings or areas, and recreational resources. Land use planning documents and goals prepared by the
8 City of Dallas, as augmented by regional planning participants, seek to achieve a balance of community
9 amenities (e.g., public services, parks/open space, and transportation routes), while maximizing the land
10 that may be developed for various private uses.

11
12 Transportation projects play a major role in the process of achieving the appropriate balance of land uses
13 to meet the needs of local residents and businesses. Although implementation of planned transportation
14 projects within the land use RSA (as detailed in city thoroughfare plans, CIPs, etc.) could result in impacts
15 to land use, but these projects would improve local and regional traffic circulation by providing reduced
16 congestion/bottlenecks on local streets and highways, additional system capacity, improved regional
17 mobility, accident reduction, and travel time savings. Transportation mobility is an essential aspect of the
18 successful operation of any developed property, and both city and regional transportation planning is
19 closely intertwined with future economic prosperity. While reasonably foreseeable transportation projects
20 embodied in the MTP/TIP will of necessity affect land use within the RSA, government leaders and
21 agencies at all levels of government may be expected to continue to seek the optimum balance of land
22 uses to meet the needs of the local and regional populace by sustaining growth throughout the region.

23 24 **7.6.4 Community**

25 Continued growth and development within the project area from reasonably foreseeable actions unrelated
26 to the proposed project would result in land use changes of importance to the South Dallas community.
27 As described above in **Section 7.6.1**, reasonably foreseeable ongoing or future projects were identified
28 from a review of city and regional land use plans, project plans, and interviews with City of Dallas
29 planners and are listed in **Appendix E-5** (with locations shown in **Appendices E-2** and **E-3**). As the
30 community RSA is located entirely within the biological resources RSA, the foreseeable project
31 identification numbers used for the biological resources RSA were also used to identify corresponding
32 foreseeable projects in the community RSA. This resulted in the identification of 20 projects that are
33 expected to occur within the community RSA in future years. Of this total, 14 of the projects (244.5 acres)
34 involve private or public land development that would be expected to result in site construction affecting
35 land ranging in size from 0.6 acre to 84.8 acres (shown in **Appendix E-2**). These land development
36 projects would be largely residential area, but would also include parks and open space, and mixed use
37 commercial areas. An additional six projects (306.9 acres) include a combination of transportation and

1 flood control projects ranging in size from 0.8 acre to 136.5 acres (shown in **Appendix E-3**). These
2 infrastructure projects are split between transportation projects including the Trinity Parkway and two
3 bridge improvement projects (138.2 acres), construction of the Lamar Levee (61.5 acres), improvements
4 to the William Blair, Jr. Park (formerly Rochester Park) Levee (35.8 acres), and proposed sump areas
5 (71.4 acres). The estimated potential construction footprint for the combined group of reasonably
6 foreseeable projects is 551.4 acres. Although final design plans for these projects may result in changes
7 to the land acreage affected, this provides a general estimate of future land development/redevelopment
8 within the community RSA.

9 10 **7.7 Step 6: Cumulative Impacts Assessment**

11 12 **7.7.1 Biological Resources**

13 Although urbanized areas within the biological RSA contain limited habitat associated with landscaping,
14 these areas are not included in this discussion of potential impacts to unusual or special habitat features.
15 That is, such areas do not represent preferred habitat for many wildlife species because of habitat
16 fragmentation by urban structures and proximity to human activities. Similarly, grass-dominated areas
17 are not considered further because these areas are predominantly frequently mowed lawns in close
18 proximity to urban structures, which are not considered to provide valuable habitat to wildlife. Finally,
19 cumulative impacts for open water resources have not been assessed because no direct or indirect
20 impacts are expected. The discussion of biological resources focuses on forested areas within the RSA
21 to facilitate a better understanding of the magnitude of direct and indirect impacts to riparian and upland
22 forests attributable to the SM Wright Project.

23
24 The estimated cumulative impacts to forest resources from direct and indirect impacts of the SM Wright
25 Project, combined with the potential impacts from 47 reasonably foreseeable projects within the RSA, are
26 shown in **Table 7-5**. These cumulative impacts represent the loss of approximately 3.8 percent of the
27 total existing riparian/bottomland forests in the RSA, and 0.7 percent of upland forests. In terms of
28 riparian/bottomland forest impacts, over half of the projected future impacts are associated with the
29 construction of three trails as part of the Dallas Floodway Extension (39.4 acres) and the construction of
30 the proposed Lamar Levee and Cadillac Heights Levee (35.4 acres). However, in light of the federal and
31 state policies and plans that foster preservation of natural features and/or public safety within floodplain
32 areas, the remaining riparian/bottomland forests in the RSA are expected to undergo very few additional
33 impacts in future years. The existing William Blair, Jr. Park and the planned Great Trinity Forest would
34 serve as important additional protections of the remaining forested habitat within the floodplains of the
35 RSA, which is expected to be preserved and enhanced in accordance with city, state, and federal plans.

TABLE 7-5. SUMMARY OF FOREST HABITAT AND IMPACTS

Forest Habitat Types	Total Forest Habitat (acres) within the RSA	Potential Impacts: All Sources (acres) *	Total Forest Habitat Remaining (acres) within the RSA
Riparian/Bottomland Forest	3,894.2	146.8	3,747.4
Upland Forest	854.9	6.3	848.6
TOTAL	4,749.1	153.1	4,596.0
Notes:			
1. This column represents the expected potential impacts within the RSA from direct/indirect impacts of the proposed project when added to the impacts of reasonably foreseeable future actions; information is from Steps 4 and 5 above.			

1
2 The extent to which the proposed project contributes to cumulative impacts to forest resources is
3 evaluated in terms of the relative contribution of direct and indirect impacts to the overall cumulative
4 impacts expected. With regard to riparian/bottomland forests, direct and indirect impacts would amount
5 to 7.5 acres of the 146.8 acres of cumulative impacts, or 5.1 percent. Based on the continued availability
6 of protected forest habitat areas in floodplains, and assuming appropriate implementation of regulated
7 avoidance, minimization, and mitigation strategies for vegetation and habitat impacts, the proposed
8 project would not contribute to substantial cumulative impacts to the area's vegetation and habitat.
9 Although the total expected cumulative impacts to upland forests is small relative to riparian/bottomland
10 forest impacts, the contribution of the proposed project to the 6.3 acres of cumulative impacts is a much
11 larger 80.9 percent (5.1 acres). As discussed in **Section 5.1.5**, however, the importance of upland forest
12 habitat to wildlife populations is marginal within the RSA because most of the upland forest resources are
13 landscaping trees for residences and commercial/industrial land uses, and occur within a highly
14 fragmented environment in close proximity to frequent human activity. In addition, these forests are
15 generally characterized by an understory of mowed non-native lawn grass, a condition that further
16 diminishes the value of these forests for wildlife habitat.

17

18 **7.7.2 Air Quality**

19 Cumulative impacts to ozone levels from the proposed project and other reasonably foreseeable
20 transportation projects are addressed by the NCTCOG at the regional level by analyzing the air quality
21 impacts of transportation projects in the MTP and the TIP. The proposed improvements are consistent
22 with the MTP and the current TIP.

23

24 The DFW Metropolitan Area is expected to continue to experience substantial population growth,
25 urbanization, and economic development. The cumulative impact of reasonably foreseeable future
26 growth and urbanization on ozone levels would be minimized by enforcement of federal and state
27 regulations by the EPA and TCEQ, respectively. These agencies are mandated to ensure that such
28 growth and urbanization does not prevent compliance with the ozone standard or threaten the
29 maintenance of the other air quality standards, including CO. Throughout the region, EPA's vehicle and
30 fuel regulations, coupled with fleet turnover, will over time cause substantial reductions of on-road

emissions including the ozone precursors (VOC and NO_x) and CO. This is illustrated with reference to ozone in **Table 7-6**, which shows that although VMT in the 10-county nonattainment area is projected to increase over time, VOC and NO_x on-road emission trends are expected to generally decrease substantially through 2030 before rising somewhat by 2035. Modeling results under the worst-case conditions indicate that CO concentrations would not exceed the NAAQS, and cumulative impacts regarding CO emissions are not expected. A quantitative MSAT analysis (**Section 5.1.8**) indicates that by 2035 MSAT emissions would substantially decrease when compared to 2012 despite increases in annual VMT.

TABLE 7-6. REGIONAL TRENDS OF OZONE PRECURSORS AND VMT

Analysis Year	Ozone Precursor Emissions		Ozone Season VMT (10 ⁶ miles)*
	NO _x (tons/day)	VOC (tons/day)	
2012	133.1	84.0	168
2020	57.6	58.2	206
2030	46.7	58.4	245
2035	49.5	63.4	265

Source: Chapters 4 and 7 of NCTCOG's 2011 Transportation Conformity Analysis and Documentation for *Mobility 2035* and the FY 2013-2016 TIP for North Central Texas; see <http://www.nctcog.org/trans/air/conformity/2011.asp>.
Note: * The ozone season for the DFW Metropolitan Area extends from May 1 through October 31; see <http://www.tceq.texas.gov/airquality/monops/ozoneaction.html#metro>.

In sum, any increase in ozone precursor emissions resulting from increased capacity, accessibility, and development are projected to be more than offset by emissions reductions from EPA's new fuel and vehicle standards or addressed by EPA's and TCEQ's regulatory emissions limits programs. Projected traffic volumes are expected to result in minimal or no impacts on air quality. Moreover, improved mobility and circulation may benefit air quality or may offset the negative effects that increasing urbanization would likely have on air quality. However, planned transportation improvements in the project area, included in and consistent with a conforming MTP and TIP, are anticipated to have a cumulatively beneficial impact on air quality. As previously stated, FHWA will not take final action until a project is included in and consistent with a conforming MTP and TIP.

7.7.3 Land Use

As discussed above, whether the project-related land use impacts result in cumulative impacts is determined by the extent to which the SM Wright Project conforms with the vision of elected City of Dallas leaders and city planners as reflected in comprehensive and localized land use planning documents. Such documents reflect the overall City of Dallas strategy for managing growth and accomplishing the overarching objective of improving the quality of life for city residents. In this regard, the SM Wright Project is a notable component of relevant city plans and an important element of the future socioeconomic landscape of South Dallas.

1 The Trinity River Corridor CLUP spotlights the importance of protecting and enhancing family residential
2 areas in South Dallas, and improving access to Trinity River greenbelt natural resources. Although this
3 plan recognizes the need for quality mixed-use development near neighborhoods, the plan emphasizes
4 the need to strike an appropriate balance between the overall residential setting and providing small
5 (preferably locally-owned) mixed use development to support the local community.⁸² This plan further
6 emphasizes the SM Wright Freeway “urban design plan and roadway downgrade conversion /
7 reconstruction into a neighborhood 'signature' parkway” as a means for “uniting the east and west sides of
8 the neighborhood.”⁸³ This theme relating to the SM Wright Project was echoed in the city's Balanced
9 Vision Plan, which includes the following transportation-related vision statement:

10
11 “Because the connection between IH 45 and CF Hawn Freeway removes the need for
12 SM Wright to remain as a freeway, the Trinity River Corridor Comprehensive Land Use
13 Plan proposes the conversion of SM Wright Freeway to an at-grade, landscaped
14 boulevard. This would link the residential neighborhoods on both sides of the roadway,
15 and strengthen the viability of the neighborhood currently between SM Wright and Lamar
16 [Street].”⁸⁴

17
18 A very detailed socioeconomic and land use planning document for South Dallas dates to 2001, and
19 includes a statement similar to that quoted above.⁸⁵ That plan also focused on undesirable conditions
20 within the community that city leaders should address in future decision making regarding zoning and
21 development incentives. The plan highlighted certain “obnoxious” land uses that should be discouraged
22 within and in close proximity to residential neighborhoods, including alcohol-related businesses such as
23 bars, liquor stores, and night clubs.⁸⁶ This local economic development plan includes extensive planning
24 initiatives to encourage development of vacant lands as well as redevelopment of underdeveloped land
25 as well as connecting downtown with the Great Trinity Forest.

26
27 The current land use plan (i.e., Forward Dallas! Comprehensive Plan), reaffirms the points outlined in the
28 above discussion of important city planning initiatives relevant to this assessment of cumulative impacts.
29 The objective of implementing steps to revitalize the South Dallas area remains a strong theme of the
30 plan, which includes preservation of residential neighborhoods while attracting additional retail (e.g.,
31 grocery stores) and redevelopment of “local eyesores.”⁸⁷ Transportation planning to improve the
32 efficiency and safety of traveling to/from and within the South Dallas area is an integral part of current
33 Dallas comprehensive land use plans.

⁸² Trinity Corridor District Plans – North Trinity Forest District, Trinity River Corridor CLUP (pages 59 and 60).

⁸³ Trinity Corridor District Plans – Lamar Center Prototype Site, Trinity River Corridor CLUP (pages 73 and 74).

⁸⁴ Chapter II – Vision, Balanced Vision Plan for the Trinity River Corridor (page 63).

⁸⁵ South Dallas/Fair Park Economic Development Corridor Plan (page 66).

⁸⁶ South Dallas/Fair Park Economic Development Corridor Plan (pages 6 and 7, and 11).

⁸⁷ Major Plans – South Dallas/Fair Park Neighborhood, Forward Dallas! Comprehensive Plan (page III-2-34).

1 Based on a review of the foregoing and other relevant City of Dallas land use plans and feedback from
2 interviews with city planners, the direct and indirect impacts of the SM Wright Project on land use are in
3 harmony with city planning objectives. The conversion of approximately 32.4 acres of undeveloped and
4 developed land to transportation use is an implicit tradeoff that is contemplated in the various land use
5 plans that encourage the construction of the planned SM Wright Project. This “decision” to make an
6 adjustment in land use is part of planning initiatives that City of Dallas elected officials and staff planners
7 have contemplated for years. Indeed, this change in land use is vital to implementing an important
8 component of the vision city leaders/planners have for South Dallas neighborhoods. Similarly, the
9 indirect impacts to nearly 11 acres of undeveloped or underutilized land along SM Wright is consistent
10 with city objectives to enhance the quality of life of residential neighborhoods. These direct and indirect
11 shifts in land use are consistent with City of Dallas land use plans, including the myriad reasonably
12 foreseeable projects and social initiatives the city is pursuing to promote socioeconomic conditions within
13 South Dallas and for the city at large. Additionally, the improvements reflected in the SM Wright Project
14 dovetail with regional plans developed by NCTCOG, TxDOT, and FHWA. Thus, the proposed project is
15 expected to have cumulatively beneficial effects on land use, as such changes are necessary to
16 implement the desired land use objectives embodied in local and regional plans.

17 18 **7.7.4 Community**

19 Much of the city planning concerning South Dallas concentrates on taking coordinated actions to improve
20 the overall socioeconomic conditions of this EJ community. A primary consideration for cumulative
21 impacts to the community is the long term beneficial effects of downgrading the SM Wright Freeway to
22 create a more community-friendly parkway. This will assist the local community by transforming the
23 roadway from a commuter thoroughfare to a local arterial, which is expected to enhance socioeconomic
24 conditions by improving mobility and traffic safety. The proposed project would require 32.4 acres of new
25 ROW. Short-term impacts resulting from the potential business displacements may result in the loss of
26 28 to 52 jobs. Improved community conditions resulting from completion of the proposed project are
27 expected to induce the development or redevelopment of nearly 11 acres of land, which may result in
28 further job losses from seven commercial businesses currently in operation. Such short-term impacts to
29 businesses and jobs are expected to be offset somewhat by the project-induced new residences and
30 businesses along SM Wright Parkway that would be an expected indirect benefit to the local economy.
31 However, these impacts on the local economy are dwarfed by the socioeconomic impacts to the
32 community from the reasonably foreseeable projects outlined in **Appendix E-5** and discussed further
33 below.

34
35 Most notable among these foreseeable future projects is the proposed Lamar Levee, which would protect
36 approximately 424 acres within the community RSA which is currently subject to floodwater inundation by
37 the 100-year flood. It is expected that this levee-protected area located along both sides of Lamar
38 Boulevard and zoned for industrial and planned development would be likely to attract future development

1 of unused land and redevelopment of underutilized land. While it is beyond the scope of cumulative
2 analysis to speculate as to the particular types of land development that may result from the removal of
3 flood risk to this area, it is nevertheless foreseeable that economic development in this part of the city
4 would occur with resulting beneficial effects for the community. Certainly such result is consistent with the
5 planning and expectations included in current City of Dallas land use plans. For example, the city's
6 Trinity River Corridor Comprehensive Land Use Plan states the following with reference to the Lamar
7 Boulevard area: "The [Lamar] levee extension and [Trinity Parkway] development will open up land
8 development opportunities for areas once considered risky or unfavorable for redevelopment."⁸⁸

9
10 Other reasonably foreseeable projects would be primarily private land developments which would create
11 new residential areas, mixed-use areas, and parks. As with the foreseeable public infrastructure projects
12 discussed above, these other planned land developments would be consistent with City of Dallas plans
13 for growth and redevelopment targeted at improving the overall socioeconomic conditions of the South
14 Dallas community. However, unlike the infrastructure projects, such developments would have a much
15 greater potential for creating permanent jobs with the various commercial enterprises expected to be
16 constructed within this EJ community.

17
18 The cumulative socioeconomic effects attributable to the proposed project and other foreseeable projects
19 (**Appendix E-5**) would also result in anticipated beneficial effects to community cohesion. In general, all
20 future development anticipated within the community RSA has been and would continue to be guided by
21 City of Dallas policies and plans for South Dallas. For example, land development ordinances would
22 require site plans to conform to development landscaping standards and tree preservation requirements.
23 Consequently, the reasonably foreseeable projects anticipated within the community RSA would
24 contribute positively to the aesthetic views within the community and the general sense of community
25 within South Dallas.

26 27 **7.8 Step 7: Results**

28 The data and principles discussed in **Step 1** through **Step 6** establish the basis for developing findings
29 regarding potential cumulative impacts considering the condition and trend of each resource or
30 socioeconomic issue examined herein. This step in the analysis considers the available information on
31 direct and indirect impacts of the proposed project in addition to impacts of expected future actions in
32 drawing conclusions as to whether there would be cumulative impacts, in addition to the relative
33 contribution of the proposed project to cumulative impacts. Key data and principles related to each of the
34 topics under consideration are therefore summarized in **Table 7-7**, and the column farthest to the right in
35 the table represents the potential cumulative impacts for each resource/topic considered.

36
⁸⁸ Trinity Corridor District Plans – Lamar Center Prototype Site, Trinity River Corridor CLUP (page 73).

TABLE 7-7. SUMMARY OF EXISTING RESOURCE CONDITIONS AND POTENTIAL IMPACTS

Indicator of Resource Condition (Step 1)	Resource Study Area (Step 2)	Summary of Existing Resource Conditions and Potential Impacts (Analysis Step #)				
		Existing Condition ¹ (Step 3)	Proposed Project: Direct Impacts ^{1&2} (Step 4)	Proposed Project: Indirect Impacts ^{1&2} (Step 4)	Impacts from Other Foreseeable Projects ^{1&2} (Step 5)	Potential Cumulative Impacts Step 4 + Step 5 ^{1&2} (Step 6)
<p>Biological Resources:</p> <p>Vegetation and Habitat – Amount and quality of forest habitat</p>	<p>Portions of the lower reaches of adjacent watersheds consisting of the Trinity River and White Rock Creek</p>	<p>Riparian Forest: 3,894.2 acres</p> <p>Upland Forest: 854.9 acres</p>	<p>Riparian Forest: 7.57 acres (variable quality habitat)</p> <p>Upland Forest: 1.08 acres (poor quality habitat)</p> <p>In response to the TPWD recommendation, TxDOT will coordinate with appropriate city staff to determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity Forest area (see Appendix B-5).</p>	<p>Riparian Forest: No impacts</p> <p>Upland Forest: 3.7 acres (poor quality habitat)</p>	<p>Riparian Forest: 139.3 acres (variable quality habitat)</p> <p>Upland Forest: 1.2 acres (poor quality habitat)</p>	<p>Riparian Forest: 146.8 acres (variable quality habitat)</p> <p>Upland Forest: 6.3 acres (poor quality habitat)</p>
<p>Air Quality:</p> <p>Ozone – Ability of the DFW Region to achieve the eight-hour ozone standard</p> <p>CO – Risk of violating the CO standard as modeled at edge of ROW</p>	<p>Ozone: 10-county nonattainment area for the DFW MPA (includes Dallas County)</p> <p>CO: Project ROW line, which represents the locations with the highest potential for CO concentrations</p>	<p>Air Quality Control Region (10-county DFW area) is currently in nonattainment (EPA classification level (“moderate”) for the eight-hour ozone standard and in attainment for other NAAQS criteria pollutants (including CO), with the exception of a portion of Collin County that is in nonattainment for lead.</p>	<p>The proposed project is included in and is consistent with the <i>Mobility 2035</i> MTP and the FY 2013-2016 TIP. The MTP/TIP were found to conform to the SIP on July 14, 2011 and November 1, 2012, respectively. The proposed project would not cause or contribute to any new localized CO violations or increase the frequency and severity of any existing CO violations.</p>	<p>Project-induced land use change accounts for approximately 0.3 percent of the indirect impacts AOI, which is not expected to provide enough change to alter the nonattainment status of ozone or the attainment status of all other NAAQS criteria pollutants, including CO and lead.</p>	<p>Regional modeling to estimate future ozone levels include all planned and financed major transportation projects as well as other major sources of air emissions of ozone precursors (SOCs and NOx). These planned and programmed projects reflect ongoing urbanization and redevelopment within the region, and would likely have a temporary negative effect on air quality due to construction-related impacts. However, the contribution of reasonably foreseeable future growth and urbanization on air quality would be minimized by enforcement of federal and state regulations by the EPA and TCEQ, and regional planning efforts led by NCTCOG.</p>	<p>Currently the SM Wright/US 175 segment and the CF Hawn/US 175 segment of the project (including the direct connectors) are included in both the MTP and TIP. All major reasonably foreseeable planned transportation improvements are included in the MTP and TIP, which were found to conform to the SIP. Therefore, the proposed project is unlikely to have an appreciable contribution to adverse effects relating to ozone.</p> <p>EPA’s vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions of on-road emissions including CO and the ozone precursors VOC and NOx.</p>

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		Existing Condition ¹ (Step 3)	Proposed Project: Direct Impacts ^{1&2} (Step 4)	Proposed Project: Indirect Impacts ^{1&2} (Step 4)	Impacts from Other Foreseeable Projects ^{1&2} (Step 5)	Potential Cumulative Impacts Step 4 + Step 5 ^{1&2} (Step 6)
Air Quality: MSATs – trend of emissions over time, as modeled on a regional level	Affected transportation network which includes roadway links with a ± five percent traffic volume change (i.e., a 12-county area)	No NAAQS have been established for MSATs. Instead, EPA's regulatory efforts to reduce MSAT emissions focuses on rules that reduce MSATs from new engines and gasoline formulations. Although VMT is will continue to increase in future years, the reductions in MSATs are expected to outpace that increase and result in a net reduction in MSATs.	The quantitative MSAT analysis (Section 5.1.8) for the proposed project indicates that in the design year (2035) MSAT emissions related to the proposed project would substantially decrease when compared to 2012, even with projected increases in VMT.	Indirect air quality impacts from MSATs are unquantifiable due to existing limitations in determining pollutant emissions, dispersion, and impacts to human health. Even with an increase in VMT and possible temporary emission increases related to construction activities for project-induced land use changes, MSAT emissions are expected to be lower than present levels in future years as a result of EPA regulations.	Although increased development and urbanization would likely have a negative effect on air quality, the cumulative impact of reasonably foreseeable future growth and urbanization on air quality would be minimized by enforcement of federal and state regulations, by the EPA and TCEQ.	Although increased development and urbanization would likely have a negative effect on air quality, the cumulative impact of reasonably foreseeable future growth and urbanization on air quality would be minimized by enforcement of federal and state regulations by the EPA and TCEQ. Even with an increase in VMT and possible temporary emission increases related to construction activities, the EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause reductions of MSAT emissions.
Land Use: Consistency with city land use plans	City limits for the City of Dallas	Approximately 7.8 percent of the land in the City of Dallas is undeveloped and developable (i.e., 24 square miles). Although the city is surrounded by other cities and cannot spread outward, opportunities exist for urban infill and redevelopment of underutilized land. Population growth is projected to continue at the rate of one percent per year. Local land use plans reflect an intertwining of urban growth and management policies that are supported by transportation improvements.	Approximately 32.4 acres of additional ROW/easement are to be converted to road transportation ROW/easement, thereby affecting the following types of existing land use: Undeveloped: 4.93 acres Developed residential: 0.7 acres Developed non-residential: 25.58 ac. Railroad property: 1.15 acres	Project-induced land use change is expected to affect 14 sites comprising 10.8 acres along SM Wright Parkway. Existing land use for these properties is summarized below: Undeveloped: 8.5 acres Developed residential: 0.2 acres Developed non-residential: 2.1 ac. The changes above could likely include redevelopment of land that would not categorically change land use, but would revitalize an existing use with improved structures and landscaping.	City of Dallas planning documents embody the plans and policies of civic leaders and planners for future management of existing urban conditions and the anticipated growth and redevelopment actions that affect land use. These plans contain the types of land use changes that are "reasonably foreseeable" in order to effectuate the objectives of voters and their elected leaders.	The proposed project would cumulatively affect decisions regarding land use for 43.33 acres, as follows: Undeveloped: 13.43 acres Developed residential: 0.9 acres Developed non-residential: 27.68 ac. Railroad property: 1.15 acres The changes in land use attributable to ROW acquisition for the SM Wright Project are contemplated in city land use plans, and would effect a cumulative benefit in terms of effectuating city plans. Likewise, changes in land use that are indirectly related to the proposed project would also be in synch with the policies and vision for community revitalization embodied in city planning documents. All changes in land use would be subject to permits and other approvals to ensure compliance with appropriate city plans, zoning, and land development rules.

TABLE 7-7. SUMMARY OF EXISTING RESOURCE CONDITIONS AND POTENTIAL IMPACTS

Indicator of Resource Condition (Step 1)	Resource Study Area (Step 2)	Summary of Existing Resource Conditions and Potential Impacts (Analysis Step #)				
		Existing Condition ¹ (Step 3)	Proposed Project: Direct Impacts ^{1&2} (Step 4)	Proposed Project: Indirect Impacts ^{1&2} (Step 4)	Impacts from Other Foreseeable Projects ^{1&2} (Step 5)	Potential Cumulative Impacts Step 4 + Step 5 ^{1&2} (Step 6)
<p>Community:</p> <p>Local Economy – trends in jobs and new development</p> <p>Relocations and Displacements – potential job loss</p> <p>Community Cohesion – factors affecting residential areas</p> <p>EJ – potential for disproportionate effects</p> <p>Aesthetic Views – visual aspects of planned projects</p>	<p>South Dallas community surrounding proposed project</p>	<p>South Dallas is predominantly an EJ population generally characterized by low-income households. There is a strong historic/cultural element to this community (i.e., several historic neighborhood districts and historic structures). City of Dallas plans emphasize projects/initiatives to improve the quality of neighborhoods by discouraging alcohol-related businesses and encouraging retail and service businesses that service the residential community. The area near Lamar Boulevard is viewed as an area that could be revitalized economically with the advent of levee protection from the 100-year flood. City plans also target specified areas and transportation intersections for business development.</p>	<p>ROW acquisition of 32.4 acres would be required for the proposed project. Approximately 28 to 52 employees could experience job relocation or loss in association with the businesses that would likely be displaced. Six residences (four have been early acquired by the City of Dallas) would be affected. Loss of businesses and residences would have minor effect on community cohesion. Direct adverse socioeconomic impacts would occur within an EJ community that is predominantly low income. Downgrading of the SM Wright Freeway to a local parkway would effect a major improvement in community cohesion. The proposed project would include landscaping design that would greatly improve the aesthetic views of the proposed parkway as compared to the existing freeway.</p>	<p>The proposed project would enhance traffic safety and improve mobility within the RSA. Encroachment alteration effects include enhancing community cohesion by transforming the freeway to a local parkway and encouraging economic revitalization. Project-induced land use change is expected to affect 14 sites comprising 10.8 acres along SM Wright Parkway, of which 10 sites (5.2 acres) are vacant land. The remaining four sites (5.6 acres) have 11 structures only 7 of which are businesses in current use: two retail liquor stores, three nightclubs, one diner, and one barber shop. Potential loss of jobs would accompany the redevelopment of these businesses. This loss would likely be offset by the creation of new commercial enterprises on these redeveloped properties.</p>	<p>There are 14 private or public land development projects (244.5 acres) within the RSA ranging in size from 0.6 acre to 84.8 acres. These land development projects include residential areas, parks and open space, and mixed-use developments.</p> <p>There are six transportation or flood control projects (306.9 acres) ranging in size from 0.8 acre to 136.5 acres. The Trinity Parkway and two bridge projects would make up 138.2 acres of the total, Levee improvements and sumps would comprise 168.7 acres. Total area affected by reasonably foreseeable projects is 551.4 acres in size.</p>	<p>Direct and indirect impacts of the proposed project would affect a total of 43.2 acres of land use change for new ROW and project-induced development or redevelopment. Foreseeable projects unrelated to the proposed project would affect a total of 551.4 acres in the community RSA. The cumulative changes in land use, and associated impacts to the South Dallas community, would be 594.7 acres. The proposed project would contribute 7 percent to the cumulative impacts related to land use changes in the community. While total acreage of land use change is only one indicator to be used in assessing the range of socioeconomic and other community impacts that would accompany those land use changes, All anticipated projects in the RSA are expected to affect long term objectives of the City of Dallas and would contribute toward greater employment opportunities, increased community cohesion, and improved aesthetic views within this EJ community.</p>
<p>NOTES:</p> <p>1. Acreages are approximate estimates, and are based on information presented earlier in this report.</p> <p>2. The information presented reflects expected impacts, and does not take into consideration potential mitigation or other measures stipulated/required by regulatory authorities. These factors are discussed in Section 7.9.</p>						

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7.9 Step 8: Mitigation

7.9.1 Biological Resources

As discussed above, the TxDOT – TPWD MOA provides a methodology for assessing habitats of particular value to wildlife and encourages compensatory mitigation for high-quality resources that would unavoidably be affected by a roadway project. Non-regulatory habitat mitigation was considered, but is not proposed for impacts to the 1.08 acres of upland forest or the 3.9 acres of riparian/bottomland forest located to the east of IH 45 and the railroad embankment (Areas 1 and 5 shown in **Appendix B-2**). These areas are generally of poor quality, are already highly fragmented, and/or have a high portion of invasive vegetation species (see **Section 5.1.5** for additional information). The remaining 3.6 acres of proposed impacts to riparian/bottomland habitat (located on west side of IH 45 within Areas 2 and 3 shown in **Appendix B-2**), were considered for compensatory mitigation. Of the 3.6 acres of riparian/bottomland forest, approximately 2.35 acres is located within existing TxDOT ROW and is subject to periodic mowing. The remaining 1.25 acres of riparian/bottomland forest is located within the planned Great Trinity Forest. In response to the TPWD recommendation, TxDOT will coordinate with appropriate city staff to determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity Forest area (see **Appendix B-5**). During construction, TxDOT would minimize the amount of wildlife habitat disturbed. Existing vegetation, especially native trees, would be preserved wherever practicable. No mitigation is proposed for project-related upland forest impacts as these areas are generally isolated patches of trees associated with urban landscapes, and offer poor quality habitat for local wildlife. See **Section 5.2.11** for a description of landscaping enhancements that are proposed.

Additional riparian/bottomland forests (139.3 acres) are expected to be removed as part of reasonably foreseeable future projects in the biological RSA. All but 17.8 acres of these expected impacts would be the result of projects sponsored by federal and state agencies. It is expected that mitigation for these losses would occur in accordance with the laws and agreements that are binding on such agencies. Riparian/bottomland forest impacts from private development would be subject to City of Dallas land development regulations, which impose site landscaping requirements and are subject to city tree preservation/mitigation ordinances. Mitigation is not anticipated for potential impacts to upland forest trees associated with reasonably foreseeable projects or project-induced land use change, other than as required by city site development and tree preservation regulations.

In the future, preferred riparian/bottomland forest habitat would continue to be preserved by local, state, and federal agency policies and regulations that restrict development within floodplains. Based on the availability of already-designated park and floodplain forested habitat in the RSA, and assuming appropriate implementation of regulated avoidance, minimization, and mitigation strategies for vegetation

1 and habitat impacts, the proposed project would not contribute to substantial cumulative impacts to the
2 area's vegetation and high-quality forest habitat.

4 **7.9.2 Air Quality**

5 Extensive mitigation efforts continue to be implemented to ensure that the region continues its progress
6 toward attainment of the eight-hour ozone standard. The NCTCOG is the focal point of those efforts due
7 to the region-wide effects of the photochemical reactions involving VOCs and NO_x to form ozone. The
8 well-established process of inventorying existing and projected sources of ozone-related pollution and
9 modeling future levels has proven to be an effective component of the overall mitigation strategy as
10 ozone levels continue to decrease despite regional increases in VMT. As discussed in **Sections 2.4** and
11 **5.1.8**, the creation of the MTP and TIP, combined with myriad programs at all levels of government, work
12 together to achieve this result. As this comprehensive ozone air quality planning and management
13 framework will continue to pursue progress toward attainment of the ozone standard, no additional
14 mitigation for the exhaust emissions attributable to the proposed project or the reasonably foreseeable
15 projects included in the MTP and TIP would be warranted as long as these plans remain in conformity
16 with the SIP.

17
18 The EPA has not sought to reduce MSAT emissions by promulgating ambient air standards for MSATs
19 but has focused on reducing MSATs by regulating emission levels for new engines and fuels. Based on
20 estimated reductions from its engine/fuel regulatory programs, nationwide MSAT emissions are expected
21 to drop substantially in spite of projected increased in VMT. Based on quantitative modeling of MSATs
22 for the project-affected transportation network (i.e., 12-county area), MSAT emissions within the DFW
23 Metropolitan Area are expected to be substantially below current calculated levels. No additional
24 mitigation efforts would appear warranted based on these findings.

25
26 Based on proposed project modeling of CO for the RSA, no violations of the CO standard are expected
27 and specific mitigation action is neither expected nor warranted. That is, the generalized reductions in
28 mobile source emissions outlined above for MSATs would also combine to reduce CO emissions.

30 **7.9.3 Land Use**

31 As there is no universally-accepted hierarchy of land uses, the choice to construct transportation projects
32 in the project area or otherwise develop or redevelop land reflects a balancing of competing land uses to
33 meet city and regional needs. Mitigation is part of transportation planning, however, and all transportation
34 projects are subject to an extensive environmental review process to ensure that the amount of ROW
35 needed for a project is minimized. Also, extensive programs are in place to ensure compensation and
36 assistance to those persons or businesses that would be displaced/relocated to accommodate
37 community/regional needs for transportation improvements. Similarly, municipal and private development

1 actions are subject to established policies and procedures that allow a weighing of public interests (e.g.,
2 zoning and development ordinances). As TxDOT and FHWA do not have the authority to implement
3 zoning or planning regulations, mitigation for cumulative impacts to land use, redevelopment, or
4 continued conversion of undeveloped land to developed land requires the collaborative efforts of local,
5 county, and regional planners, the public, and private developers. These parties all have a stake in the
6 ultimate landscape in which they reside and only proactive, cooperative interactions can provide the
7 optimum blend of natural and developed communities.

8
9 The proposed SM Wright Project improvements are included within and consistent with City of Dallas
10 comprehensive land use and economic development plans. Potential project-induced land use changes
11 would be subject to the requirements of city plans, zoning restrictions, and land development procedures.
12 Assuming appropriate implementation of applicable land use planning regulations and control strategies,
13 related effects on air and water and other natural systems, including ecosystems, would be avoided and
14 minimized. Other than the collaborative planning process involving multiple government agencies at the
15 federal, state, regional, and municipal level, no additional mitigation would be warranted to address
16 changes in land use and the short-term disruption to persons/businesses that may be affected thereby.

17 18 **7.9.4 Community**

19 The proposed project is somewhat anomalous in that the proposed SM Wright Parkway itself may be
20 viewed as 'mitigation' for adverse impacts to the South Dallas community caused by originally
21 constructing the SM Wright Freeway. Prior to that time, the South Dallas community had grown up
22 around the Houston and Texas Central Railroad corridor with its numerous at-grade crossings, which was
23 then transformed into the existing freeway corridor in the 1950s. Although the proposed SM Wright
24 Parkway and the former railroad corridor have many obvious differences, they are similar in that both
25 represent a transportation corridor with multiple at-grade crossings that promote greater community
26 cohesion as compared to a controlled access freeway. Although short term adverse impacts to the South
27 Dallas community are unavoidable in order to achieve the 'big picture' mitigation inherent in the overall
28 design of the proposed project, the EJ nature of the community warrants additional mitigation efforts to
29 ease key socioeconomic impacts. Additionally, the cumulative beneficial effects to the socioeconomics of
30 the community attributable to the proposed project and to other reasonably foreseeable future projects
31 would be substantial, but this does not detract from the need to take appropriate and practicable steps to
32 mitigate short term socioeconomic effects associated with job losses associated with business
33 displacements.

34
35 TxDOT is committed to coordinate available programs provided by Workforce Solutions to those
36 employees affected by the businesses potentially displaced as a result of the proposed project at the
37 Public Hearing. The Workforce Development Manager and appropriate staff will attend the Public
38 Hearing for the proposed project to answer questions or present services information on behalf of

1 Workforce Solutions (see **Section 5.2.5**). In addition, although it is uncertain whether and when the
2 seven businesses along SM Wright Parkway would be acquired and redeveloped as a result of project-
3 induced land use change, TxDOT will ensure that a description of services offered by Workforce
4 Solutions will be presented during the Public Hearing for the SM Wright Project to raise community
5 awareness of this resource.

6
7 Project planning has also addressed measures to ensure the aesthetic character of the community is
8 enhanced by the proposed SM Wright Parkway, with particular sensitivity to NRHP-recognized historic
9 residential districts. This includes steps to preserve the large live oak trees that are found along the
10 fringes of the existing freeway. In addition, the SM Wright Parkway – Landscape and Aesthetic Concept
11 Plan (see **Section 5.2.11**) is a mitigation measure targeted at substantially strengthening the sense of
12 community within the South Dallas area. The design features in this conceptual plan would include
13 enhanced landscape plantings along the streetscape and at key intersections that would provide an
14 inviting environment for pedestrian and motorists. The creation of monuments of various sizes and
15 hike/bike trails would further enhance the community feel along the SM Wright Parkway corridor. The
16 details of the aesthetic improvements will be developed in close coordination with the leaders and citizens
17 of the South Dallas community.

8.0 MITIGATION AND MONITORING COMMITMENTS

All project-specific commitments and conditions of approval, including resource agency permitting compliance and monitoring requirements, would be incorporated in the project plan for the proposed SM Wright Project. These project-specific commitments and conditions for approval, as further described below, may vary depending on the project's final design and construction. Mitigation monitoring would be conducted by TxDOT and other federal, state, and local agencies to ensure compliance.

8.1 Water Quality

The proposed project would disturb more than one acre; therefore, TxDOT compliance is required with the TCEQ TPDES General Permit for Construction Activity. The proposed project would also disturb more than five acres; therefore, a Notice of Intent would be filed to comply with TCEQ stating that TxDOT would have a SW3P in place during construction of the proposed project.

8.2 Vegetation and Wildlife Habitat/Threatened or Endangered Species

In accordance with the TxDOT-TPWD MOA, appropriate habitats were given consideration for non-regulatory mitigation during project planning. TxDOT will coordinate with appropriate City of Dallas staff to determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity Forest area (see **Section 5.1.5**). During construction, TxDOT would minimize the amount of wildlife habitat disturbed. Existing vegetation, especially native trees, would be preserved wherever practicable.

Re-vegetation and landscaping activities would occur in compliance with EO 13112, which calls for preventing and controlling the spread of invasive plant and animal species. Further, landscaping activities would be follow the Executive Memorandum on Beneficial Landscaping, thereby utilizing techniques that complement and enhance the local environment and seek to minimize the adverse effect that the landscaping would have on it (e.g., use of regionally native plants and water conservation practices). Such efforts would be limited to seeding and replanting in the project ROW (where cost effective and to the extent practicable).

The forested habitat in the project area would be surveyed for signs of the timber/canebrake rattlesnake prior to construction activities. If evidence of the species is observed, TxDOT personnel would be contacted to determine an appropriate course of action.

A brief field survey would be conducted prior to construction to determine if migratory birds are present within the project area. If species are present, work should cease at the location, and TxDOT personnel should be contacted. Between October 1 and February 15, the contractor would remove all old migratory

1 bird nests from any structures that would be affected by the proposed project, and complete any bridge
2 work and/or vegetation clearing. If construction or clearing is to take place during nesting season, which
3 could extend from February 15 through October 1, the area would need to be checked for active nests
4 prior to the commencement of work. If any active nests are found, local USFWS biologists should be
5 contacted by TxDOT to determine an appropriate plan of action.

6 7 **8.3 Local Economy**

8 TxDOT is committed to coordinate available programs provided by Workforce Solutions to those
9 employees affected by the businesses potentially displaced as a result of the proposed project at the
10 Public Hearing. The Workforce Development Manager and appropriate staff will attend the Public
11 Hearing for the proposed project to answer questions or present services information on behalf of
12 Workforce Solutions (see **Section 5.2.5**).

13 14 **8.4 Relocations and Displacements**

15 Approximately 32.4 acres of additional ROW are required under the Build Alternative. ROW acquisition
16 would impact a total of 12 residences and businesses containing nine structures, of which include two
17 single-family residences, seven commercial structures and three billboards. All relocation efforts would
18 be consistent with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
19 as amended, the Civil Rights Act of 1964, and the Urban Development Act of 1974 (see **Section 5.2.5**).

20
21 Local services, such as, The Bridge are available to provide homeless/transient populations within the
22 project corridor options for shelter both in the immediate future as well as the construction phase of this
23 project. TxDOT is committed to contacting The Bridge and working with the City of Dallas Police
24 Department in the event homeless/transient populations are within the immediate work area at the time of
25 construction (see **Section 5.2.5**).

26 27 **8.5 Aesthetic Considerations**

28 The SM Wright Parkway – Landscape and Aesthetic Concept Plan would include enhanced landscape
29 plantings along the streetscape and at key intersections that would provide an inviting environment for
30 pedestrian and motorists. Aesthetically pleasing, native and adaptive plants have been selected to
31 promote low water requirements and minimal maintenance needs. Visibility clearances would be
32 maintained to meet TxDOT and City of Dallas standards. Various sizes of gateway monuments would
33 also be included throughout the corridor. The design of each monument is representative of the historic
34 character of the adjacent neighborhoods and would promote a sense of pride and ownership in the
35 community.

1 The proposed design would be consistent with the City of Dallas' 2005 Trails Master Plan and the 2011
2 Dallas Bike Plan, and include multi-use hike and bike trails located on both sides of the roadway within
3 the landscaped parkway of the proposed SM Wright Parkway. All multi-use trails would be 12 feet wide
4 and designed to meet current AASHTO trail design standards. This project would also include on-street
5 bike facilities that will be accommodated by 16-foot (14-foot and 2-foot shoulder) wide outside vehicular
6 travel lanes.

7
8 The proposed design would be compliant with the ADAAG as well as the MUTCD. Stamped concrete,
9 brick and/or concrete pavers would delineate pedestrian access across busy streets. Intersections would
10 be highlighted with hardscape to alert drivers of pedestrian crossings, the design would emphasize the
11 neighborhood gateways. Pedestrian crossings would include ADA accessible ramps in compliance with
12 the Texas Accessibility Standards including detectable warning surfacing, audible alert systems, and
13 rapid flash vehicular warning signage (see **Section 5.2.11**).

14 15 **8.6 Noise**

16 Traffic noise impacts would occur from the construction and operation of the proposed project. Sixteen
17 noise barriers were determined to be both feasible and reasonable as to mitigate for anticipated traffic
18 noise impacts. **Appendix C-10** shows the proposed noise walls. There are 136 receivers that would
19 benefit (experience a reduction in noise levels by at least five dBA) from the proposed noise barriers. The
20 final decision to construct the proposed noise barriers would be made upon completion of the project
21 design and utility evaluation, as well as through public involvement efforts (i.e., noise workshops). Such
22 noise briefings would determine if the noise walls are desired and, if so, assist in their aesthetic design.
23 Any subsequent project design changes may require a reevaluation of this proposal (see **Section 5.2.11**).

24 25 **8.7 Archeological Resources**

26 If evidence of archeological deposits is encountered during construction, work in the immediate area
27 would cease and TxDOT archeological staff would be contacted to initiate accidental discovery
28 procedures under the provisions of the Programmatic Agreement between TxDOT, THC, FHWA, and the
29 Advisory Council on Historic Preservation, and the MOU between TxDOT and the THC (see **Section 5.3**).

30 31 **8.8 Hazardous Wastes/Substances**

32 Additional subsurface investigations would be required to confirm if contamination may be encountered
33 during construction. During the ROW negotiation and acquisition process, further inquiry into the existing
34 and previous ownership and uses of each property would be performed. Further assessment and
35 investigations, if required, would be postponed until ROW can be obtained in later stages of project
36 development. If identified and confirmed, any hazardous material issues would be addressed during the
37 ROW negotiation, acquisition, or eminent domain process prior to construction. Appropriate soils and/or

1 groundwater management plans for activities within these areas would be developed. Special provisions
2 or contingency language would be included in the project's plans, specifications, and estimates to
3 address hazardous materials and/or petroleum contamination according to applicable state, federal and
4 local regulations per TxDOT Standard Specifications. In addition, any unanticipated hazardous materials
5 and/or petroleum contamination encountered during construction would be addressed according to
6 applicable state, federal and local regulations per TxDOT Standard Specifications (see **Section 5.4.1**).

9.0 DETERMINATION OF ASSESSMENT

The No-Build Alternative would avoid the direct impacts envisioned for the Build Alternative; however, it would not address the need and purpose for the proposed project as summarized below.

The Build Alternative is recommended, as it is responsive to the needs for the transportation improvement project based on historic and projected population increases, urbanization, and the existing inadequacy of the road network in the area. If constructed, the proposed Build Alternative would fulfill the public's need for a safe and efficient transportation system in the project area that satisfies the project objectives, as outlined below.

Improve Safety – The proposed Build Alternative includes improvements to the existing SM Wright Freeway/US 175, to the CF Hawn Freeway (US 175) (with the addition of DC ramps to IH 45), as well as the construction of a new interchange with IH 45. Roadway improvements would address many of the existing roadway deficiencies and would remove the sharp, accident-prone curve at the existing US 175/SH 310 interchange. In addition, the proposed improvements would provide a safer and more secure driving experience for motorists.

Improve Operability, Connections, and Mobility – The realignment of the existing US 175 freeway as well as the removal of the 25 mph, accident-prone curve at the US 175/SH 310 interchange, would enhance operations of the US 175 facility by improving the design speeds through the area. This realignment of US 175 would manage congestion in the freeway-to-freeway traffic traveling west from US 175 to IH 45 and east from IH 45 to US 175. In addition, the associated improvements to IH 45 would improve the existing weaving on the facility, from less than ½ mile to approximately 2 miles. The downsizing and downgrading of the existing SM Wright Freeway to a six-lane arterial, known as the SM Wright Parkway, would provide an alternate route throughout the area for local traffic, which would also assist in managing traffic congestion. The proposed Build Alternative would improve mobility within the project area by increasing the overall design speed of US 175 through the removal the sharp curve at the US 175/SH 310 interchange, which has a 25 mph posted speed. In addition, the downsizing of the SM Wright Freeway would provide an alternate route throughout the area for local traffic.

Compatibility with Local, County, and Regional Needs and Plans – The proposed Build Alternative is compatible with local and regional planning. The Build Alternative has been incorporated into the municipal planning documents of the project area and the project is included in and consistent with both the *Mobility 2035* and the FY 2013-2016 TIP.

1 **Minimize Social, Economic, and Environmental Effects on the Human Environment** – The proposed
2 Build Alternative is the result of close examination of the No-Build Alternative, as well as other
3 alternatives via the MIS process. Through active participation among public officials and citizens in the
4 consideration of potential impacts as well as avoiding/minimizing impacts where practicable, the Build
5 Alternative design described herein is the result of efforts to avoid or minimize social, economic, and
6 environmental impacts. TxDOT is committed to coordinate available programs provided by Workforce
7 Solutions to those employees affected by the businesses potentially displaced as a result of the proposed
8 project at the Public Hearing. The Workforce Development Manager and appropriate staff will attend the
9 Public Hearing for the proposed project to answer questions or present services information on behalf of
10 Workforce Solutions.

11
12 **Conclusion**
13 The engineering, social, economic, and environmental investigations conducted thus far indicate that the
14 proposed project would result in no significant impacts to the quality of the human or natural environment.
15 TxDOT requests that FHWA find that implementing the proposed project would not be a major federal
16 action significantly affecting the quality of the human environment and thus, issue a Finding of No
17 Significant Impact (FONSI) for this project.

1 10.0 LIST OF ACRONYMS

2

3	AADT	Average Annual Daily Traffic
4	AASHTO	American Association of State Highway and Transportation Officials
5	ACM	asbestos containing materials
6	ACS	American Community Survey
7	ADA	Americans with Disabilities Act
8	ADAAG	Americans with Disabilities Act Accessibility Guidelines
9	ADT	Average Daily Traffic
10	AM	Morning hours (i.e. before noon)
11	AOI	Area of Influence
12	APE	Area of Potential Effects
13	BMP	Best Management Practice
14	CAA	Clean Air Act
15	CAAA	Clean Air Act, as Amended
16	CDA	Comprehensive Development Agreement
17	CDC	Corridor Development Certificate (CDC)
18	CEQ	Council on Environmental Quality
19	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
20	CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
21	CFR	Code of Federal Regulations
22	CIP	Capital Improvement Program
23	CLUP	Comprehensive Land Use Plan
24	CMP	Congestion Management Process
25	CMS	Congestion Management System
26	CO	Carbon Monoxide
27	CORRACTS	Corrective Action Report
28	CWA	Clean Water Act
29	DART	Dallas Area Rapid Transit
30	dB	Decibels
31	dBA	Decibels (A-weighted)
32	dbh	Diameter at Breast Height
33	DC	Direct Connecting
34	DCAD	Dallas Central Appraisal District
35	DE	Diesel Exhaust
36	DFE	Dallas Floodway Extension
37	DFW	Dallas-Fort Worth

1	DFWRTM	Dallas-Fort Worth Regional Travel Model
2	DPM	Diesel Particulate Matter
3	EA	Environmental Assessment
4	EJ	Environmental Justice
5	EO	Executive Order
6	EOID	Element Occurrence Identification
7	EPA	Environmental Protection Agency
8	ER	Entrance Ramp
9	ERNS	Emergency Response Notification System
10	ESA	Endangered Species Act
11	ESL	Effects Screening Levels
12	ETC	Estimated Time Completion
13	FEMA	Federal Emergency Management Agency
14	FHWA	Federal Highway Administration
15	FIRM	Flood Insurance Rate Map
16	FLUP	Future Land Use Plan
17	FPPA	Farmland Protection Policy Act
18	FTA	Federal Transit Administration
19	GIS	Geographic Information Systems
20	HEI	Health Effects Institute
21	HHS	Department of Health and Human Services
22	HVAC	Heating, Ventilating, and Air Conditioning
23	IH	Interstate Highway
24	IRIS	Integrated Risk Information System
25	ITS	Intelligent Transportation Systems
26	LBP	lead based paint
27	LEP	Limited English Proficiency
28	Leq	Average/equivalent Sound Level
29	LOS	Level of Service
30	LPST	Leaking Petroleum Storage Tank
31	LWCF	Land and Water Conservation Fund
32	MBTA	Migratory Bird Treaty Act
33	MOA	Memorandum of Agreement
34	MOU	Memorandum of Understanding
35	MPA	Metropolitan Planning Area
36	mph	Miles per Hour
37	MPO	Metropolitan Planning Organization

1	MSAT	Mobile Source Air Toxic
2	MTP	Metropolitan Transportation Plan
3	MUTCD	Manual on Uniform Traffic Control Devices
4	NAAQS	National Ambient Air Quality Standards
5	NAC	Noise Abatement Criteria
6	NAFTA	North American Free Trade Agreement
7	NATA	National Air Toxics Assessment
8	NB	Northbound
9	NCHRP	National Cooperative Highway Research Program
10	NCTCOG	North Central Texas Council of Governments
11	NEPA	National Environmental Policy Act
12	NHPA	National Historic Preservation Act
13	NIOSH	National Institute of Occupational Safety & Health
14	NLEV	National Low Emission Vehicle
15	NMHC	Non-methane Hydrocarbon
16	NOx	Nitrogen Oxides
17	NPL	National Priorities List
18	NRCS	Natural Resources Conservation Service
19	NRHP	National Register of Historic Places
20	NTTA	North Texas Tollway Authority
21	NWP	Nationwide Permit
22	O&D	Origin and Destination
23	OSHA	Occupational Safety and Health Administration
24	PA-TU	First Amended Programmatic Agreement Regarding the Implementation of
25		Transportation Undertakings
26	PCBs	polychlorinated biphenyls
27	PCN	Preconstruction Notification
28	PCWG	Project Coordination Work Group
29	PEL	Permissible Exposure Limits
30	PM	Afternoon/evening hours (i.e. after 12:00)
31	PM	Particulate Matter
32	PST	Petroleum Storage Tank
33	RAC	Reference Air Concentration
34	RCCT	Rail with County Control Totals
35	RCRA	Resource Conservation and Recovery Act
36	REC	recognized environmental condition
37	RFG	Reformulated Gasoline

1	RIA	Regulatory Impact Analysis
2	ROD	Record of Decision
3	ROW	right-of-way
4	RSA	Resource Study Area
5	RTC	Regional Transportation Council
6	SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
7	SB	Southbound
8	SGC	Short-Term Guideline Concentration
9	SH	State Highway
10	SIP	State Implementation Plan
11	SOC	Species of Concern
12	SPF	standard project flood
13	STAND	Statistical trends and News of Dallas
14	ST-ESL	Short Term Effects Screening Levels
15	STIP	Statewide Transportation Improvement Program
16	SW3P	Storm Water Pollution Prevention Plan
17	T.A.C.	Texas Administrative Code
18	TCAA	Texas Clean Air Act
19	TCEQ	Texas Commission on Environmental Quality
20	TEA-21	Transportation Equity Act for the 21 st Century
21	THC	Texas Historical Commission
22	TIP	Transportation Improvement Program
23	TOD	Transit Oriented Development
24	TPDES	Texas Pollutant Discharge Elimination System
25	TPH	Total Petroleum Hydrocarbons
26	TPP	Transportation Planning and Programming
27	TPWD	Texas Parks and Wildlife Department
28	TRB	Transportation Research Board
29	TRE	Trinity Railway Express
30	TREIS	Trinity River and Tributaries Regional Environmental Impact Statement
31	TSD	Treatment, Storage, and Disposal
32	TSHPO	Texas State Historic Preservation Officer
33	TX VCP	Texas Voluntary Compliance Program
34	TxDOT	Texas Department of Transportation
35	TXNDD	Texas Natural Diversity Database
36	USACE	United States Army Corps of Engineers
37	USDOT	United States Department of Transportation

1	US	United States Highway
2	U.S.C.	United States Code
3	USCG	United States Coast Guard
4	USFWS	United States Fish and Wildlife Service
5	USGS	United States Geological Survey
6	v/c	Volume/Capacity
7	VMT	Vehicle Miles Traveled
8	VOC	Volatile Organic Compounds
9	vpd	Vehicles per Day
10	WRDA	Water Resources Development Act

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APPENDIX A
PROJECT FIGURES



Legend

- Project Right of Way
- Railroad
- ~ River

0 2,000 4,000
Feet

Source/Year of Aerial Photograph: Landiscor/2011

Project Vicinity Map

SM Wright Project
Dallas, Texas

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081



Legend

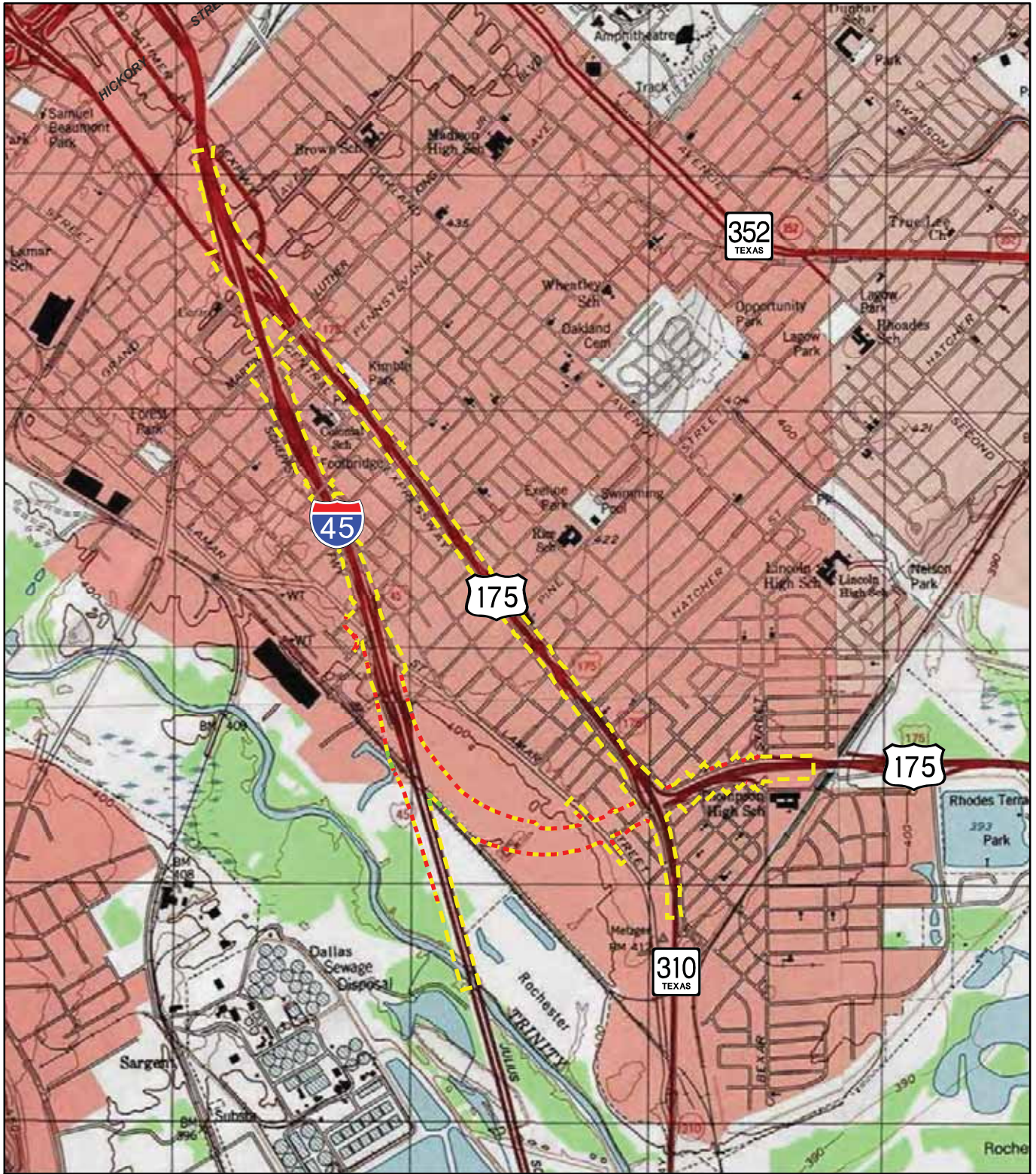
- Project Right of Way
- Proposed Easement
- Proposed ROW
- Existing ROW

0 1,000 2,000
Feet

Source/Year of Aerial Photograph: Landiscor/2011

**Project Location Map
on Aerial Photograph**

SM Wright Project
Dallas, Texas



Legend

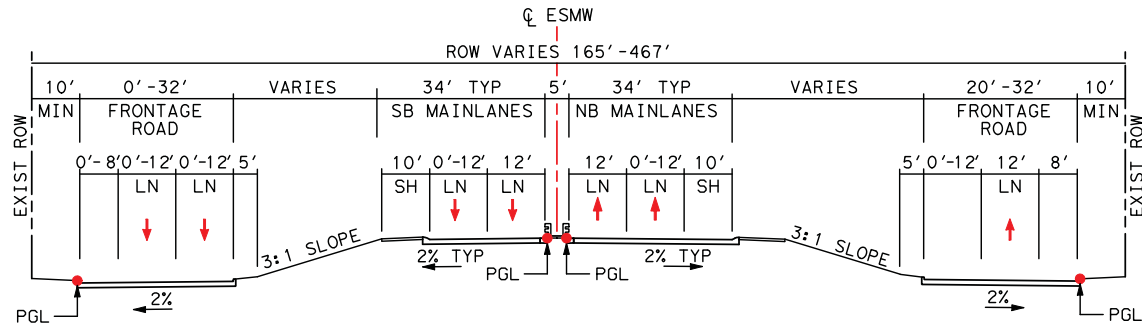
- Proposed Easement
- Proposed ROW
- Project Right of Way

0 1,000 2,000
Feet

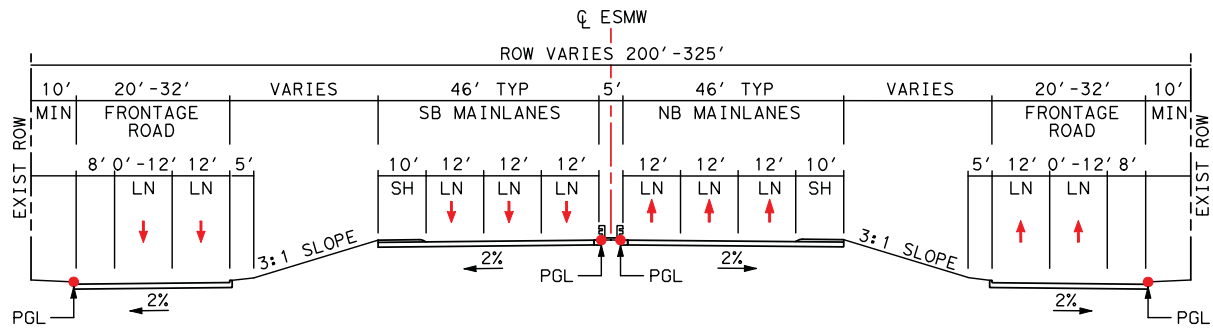
Source: 7.5 Minute Series (Topographic)
 Base Map: Dallas, Oak Cliff, & Hutchins Quadrangles, TX
 Map Year: Dallas 1981; Oak Cliff 1981; Hutchins 1973

Project on Topographic Map

SM Wright Project
Dallas, Texas



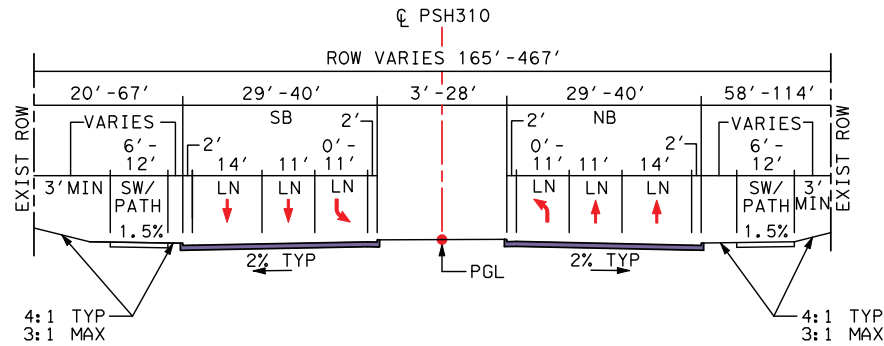
Existing Typical Section SM Wright Freeway (SH 310)
 4 General Purpose Lanes
 North of Budd Street to North of CF Hawn Freeway
 STA 35+00 to STA 58+00 (NB)
 STA 35+00 to STA 55+60 (SB)



Existing Typical Section SM Wright Freeway (US 175)
 6 General Purpose Lanes
 North of CF Hawn Freeway to Martin Luther King Jr. Boulevard
 STA 58+00 to STA 132+52 (NB)
 STA 55+60 to STA 132+52 (SB)

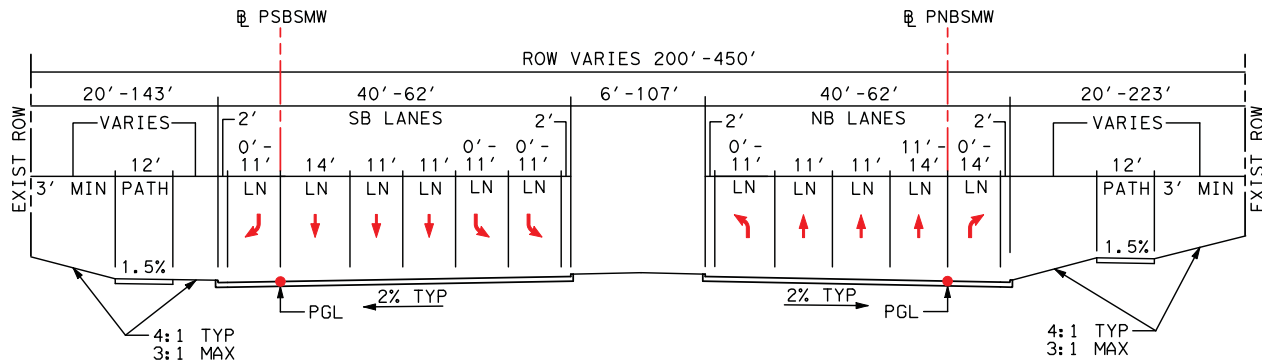
APPENDIX A-4 (SHEET 1 OF 7)
SM Wright Project Typical Sections

-- Not to Scale --



Proposed Typical Section SM Wright Parkway

**4 Lane Low Speed Arterial
North of Budd Street to CF Hawn Freeway
STA 35+00 to STA 52+59**

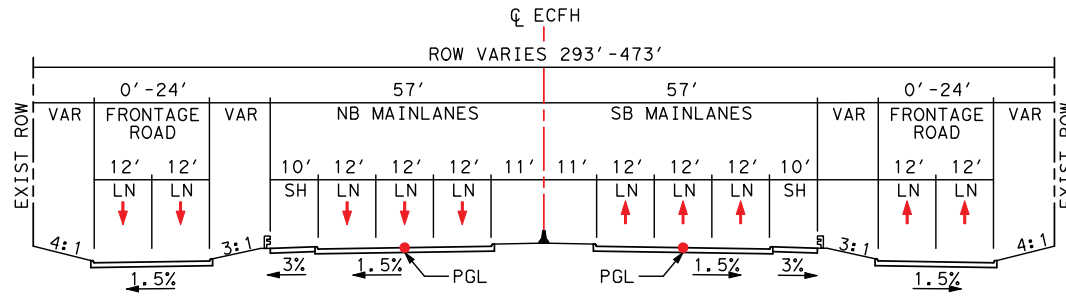


Proposed Typical Section SM Wright Parkway

**6 Lane Low Speed Arterial
CF Hawn Freeway to Martin Luther King Jr. Boulevard
STA 52+59 to STA 132+51**

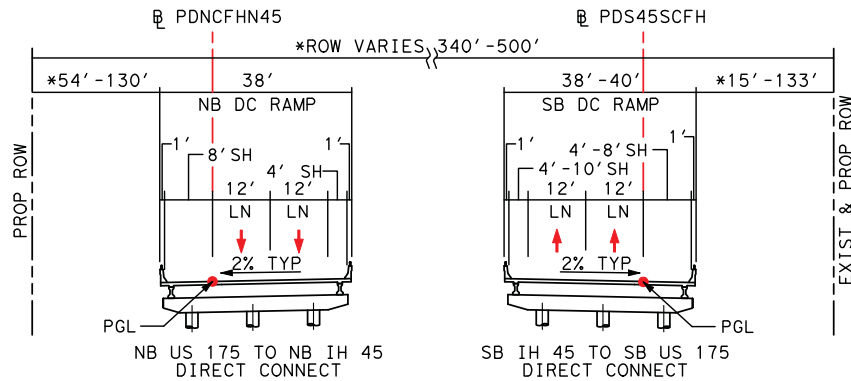
**APPENDIX A-4 (SHEET 2 OF 7)
SM Wright Project Typical Sections**

-- Not to Scale --



Existing Typical Section CF Hawm Freeway (US 175)

NB Frontage Road SM Wright Freeway to Bexar Street STA 1443+00 to STA 1456+00	6 General Purpose Lanes SM Wright Freeway to UP Railroad STA 1444+00 to STA 1463+50	SB Frontage Road SM Wright Freeway to Shields Street STA 1439+00 to STA 1452+00
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* ROW VARIATIONS ARE FROM INTERSECTION WITH IH 45 ROW TO EAST SECTION LIMIT (SB STA 36+01 TO 50+31)

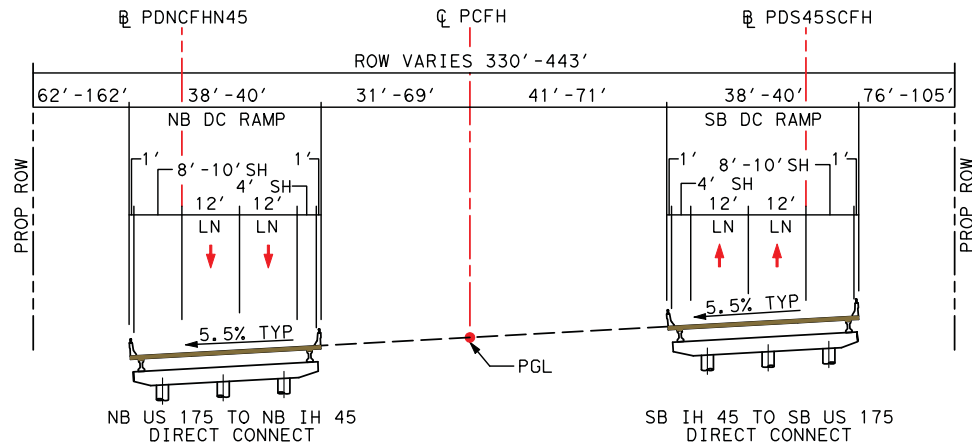
Proposed Typical Section CF Hawm Freeway Direct Connects (US 175)

2 Lane DC Ramps
 IH 45 to West of Lamar Street
 STA 16+20 to STA 54+51 (NB DC)
 STA 18+84 to STA 50+31 (SB DC)

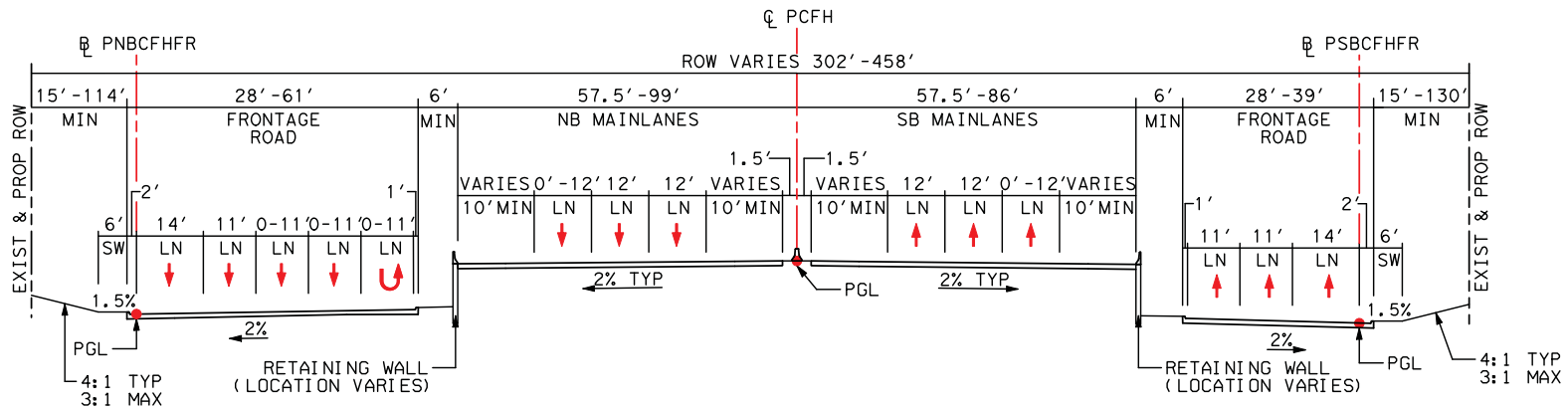
NOTE: US 175 IS A NORTH/SOUTH FREEWAY. WITHIN THE PROJECT LIMITS, THE ALIGNMENT REQUIRES THE NORTHBOUND MOVEMENT TO TRAVEL WESTERLY AND THE SOUTHBOUND MOVEMENT TO TRAVEL EASTERLY.

APPENDIX A-4 (SHEET 3 OF 7)
SM Wright Project Typical Sections

-- Not to Scale --



Proposed Typical Section CF Hawm Freeway Direct Connects (US 175)
 2 Lane DC Ramps
 West of Lamar Street to CF Hawm Freeway
 STA 1423+85 to STA 1431+29 (NB)
 STA 1420+30 to STA 1431+29 (SB)



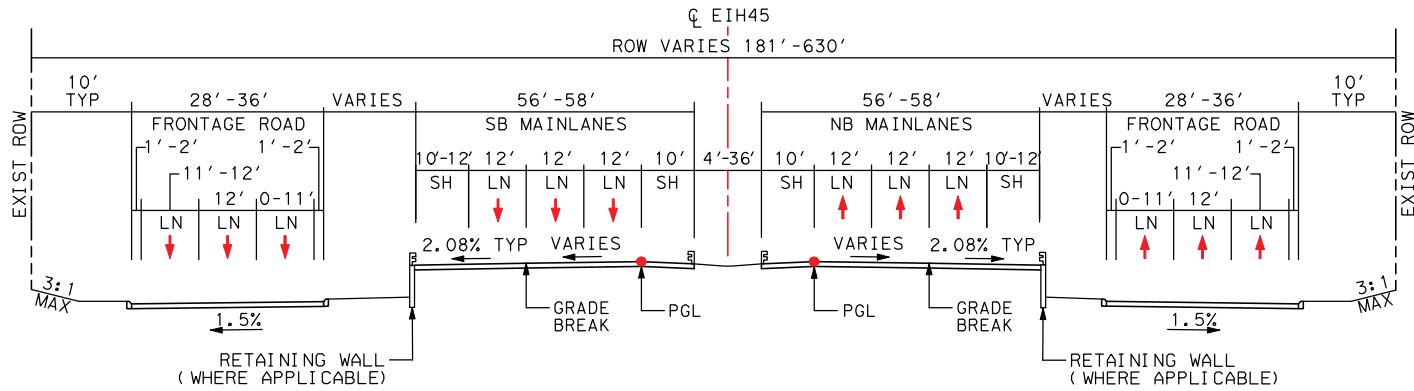
Proposed Typical Section CF Hawm Freeway (US 175)
 2 Frontage Road Lanes
 Lamar Street to Bexar Street
 STA 1432+00 to STA 1456+00
 4-6 General Purpose Lanes
 Lamar Street to UP Railroad
 STA 1431+29 to STA 1463+50
 (Bridge Structure Not Shown)
 2 Frontage Road Lanes
 Lamar Street to Bexar Street
 STA 1432+00 to STA 1456+00

NOTE: US 175 IS A NORTH/SOUTH FREEWAY. WITHIN THE PROJECT LIMITS, THE ALIGNMENT REQUIRES THE NORTHBOUND MOVEMENT TO TRAVEL WESTERLY AND THE SOUTHBOUND MOVEMENT TO TRAVEL EASTERLY.

APPENDIX A-4 (SHEET 4 OF 7)
SM Wright Project Typical Sections

-- Not to Scale --

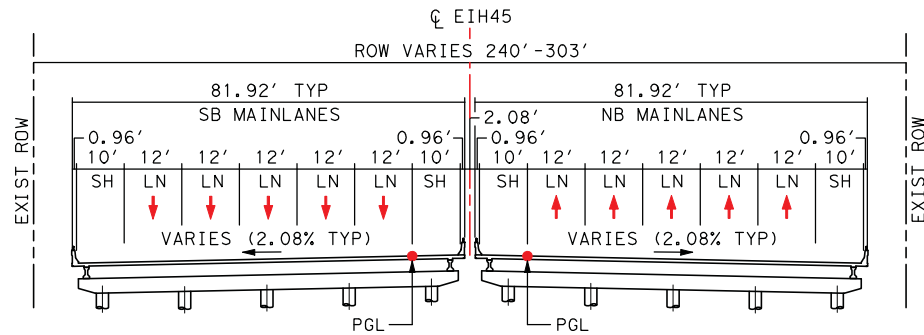
APPENDIX A-4



Existing Typical Section IH 45
6 General Purpose Lanes
Project Limits to SM Wright DC Ramps
STA 449+00 to STA 561+75 (NB)
STA 449+00 to STA 565+15 (SB)
(Bridge Structures Not Shown)

SB Frontage Road
 South of Lamar Street to North of Pennsylvania Avenue
 STA 487+00 to STA 540+00

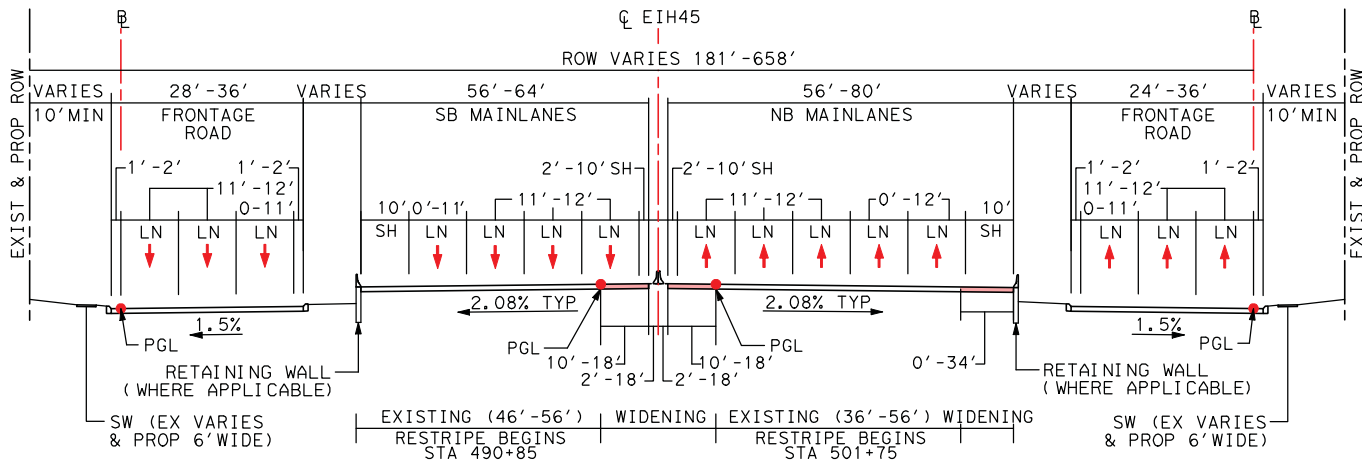
NB Frontage Road
 South of Lamar Street to North of Pennsylvania Avenue
 STA 487+00 to STA 540+00



Existing Typical Section IH 45 on Structure
10 General Purpose Lanes
SM Wright DC Ramps to Project Limits
STA 561+75 to STA 572+00 (NB)
STA 565+15 to STA 572+00 (SB)

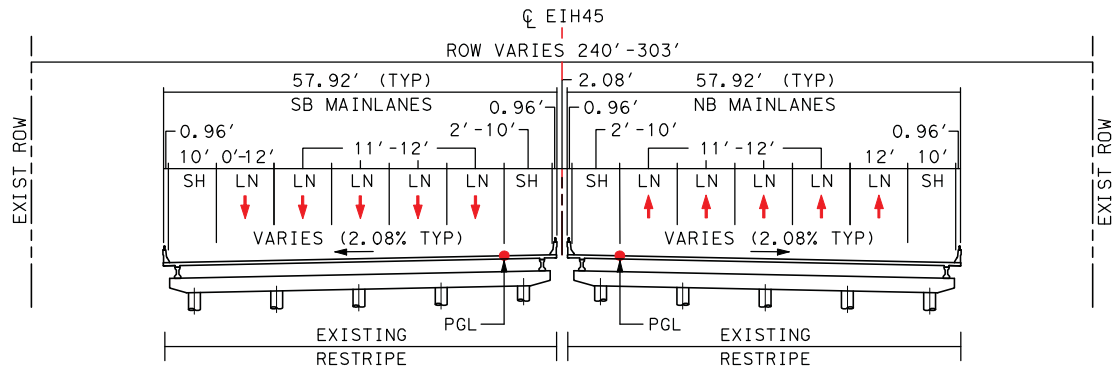
APPENDIX A-4 (SHEET 5 OF 7)
SM Wright Project Typical Sections

-- Not to Scale --



Proposed Typical Section IH 45 Inside & Outside Widening

<p>2-3 Frontage Road Lanes S. of Lamar Street to North of Pennsylvania Avenue Proposed PRESLAM STA 27+05 TO STA 29+94 Proposed PSB45FR STA 10+61 TO STA 14+09 Existing PSB45FR STA 14+09 TO STA 47+93</p>	<p>6-8 General Purpose Lanes CF Hawm DC Ramps to SM Wright DC Ramps STA 449+00 to STA 561+75 (NB) STA 449+00 to STA 565+15 (SB) (Bridge Structure Not Shown)</p>	<p>2-3 Frontage Road Lanes S. of Lamar Street to North of Pennsylvania Avenue Proposed PRNXLAM STA 31+76 to STA 35+10 Existing PNB45FR STA 10+53 to STA 52+60</p>
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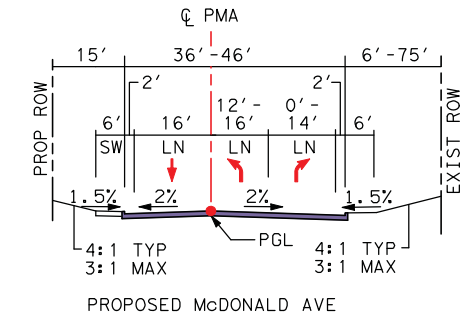
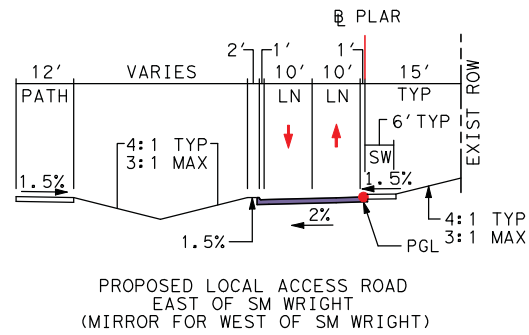
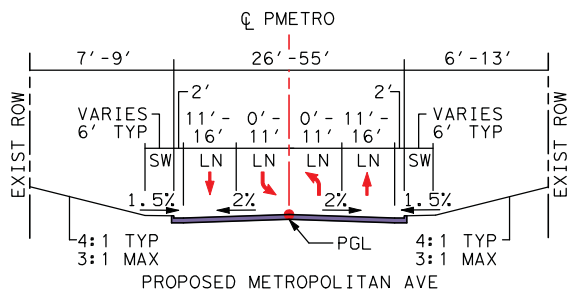
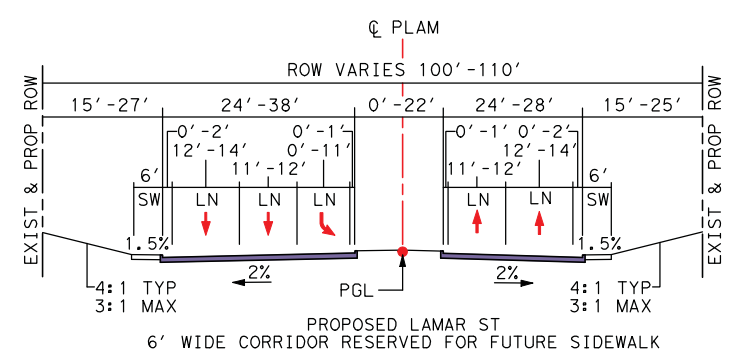
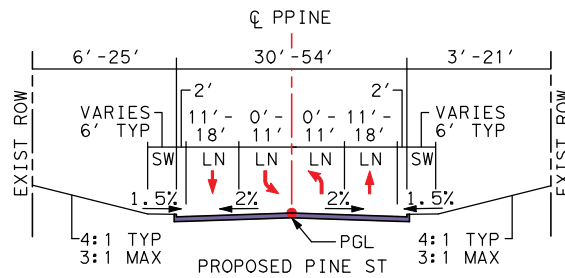
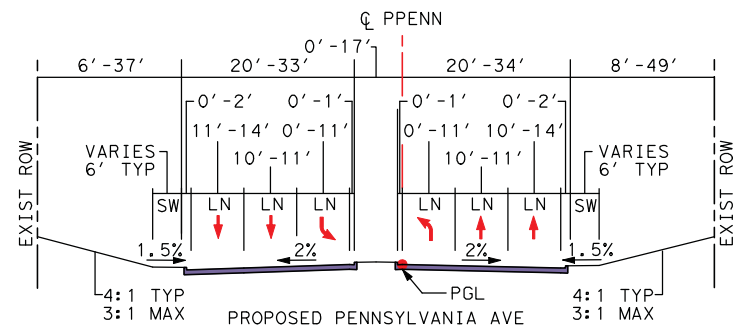
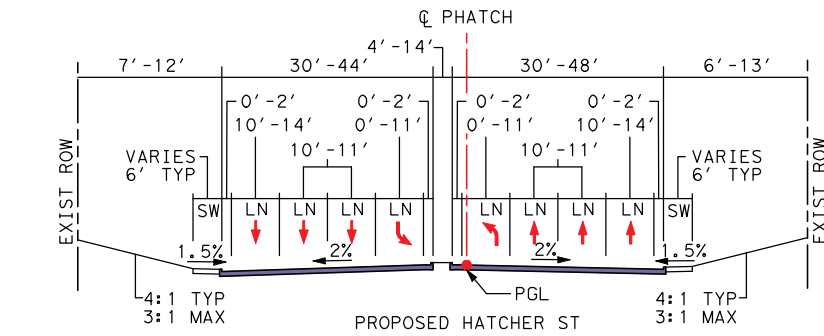


Proposed Typical Section IH 45 on Structure Restriping

10 General Purpose Lanes
 SM Wright DC Ramps to Project Limits
 STA 561+75 to STA 572+00 (NB)
 STA 565+15 to STA 572+00 (SB)

APPENDIX A-4 (SHEET 6 OF 7)
SM Wright Project Typical Sections

-- Not to Scale --



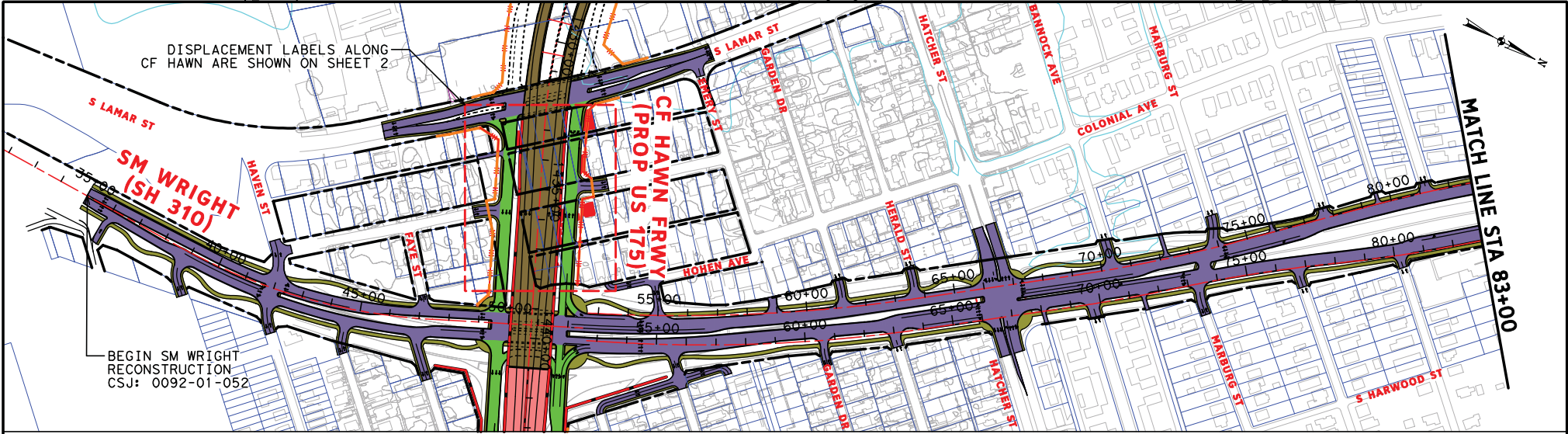
NOTES:

- 1) 14' SHARED USE OUTER LANES PLUS 2' CURB OFFSET PROVIDED THROUGH SM WRIGHT INTERSECTIONS. CROSS STREET APPROACHES TRANSITION BACK TO EXISTING WIDTHS.
- 2) CROSS STREET CENTERLINE/PGL LOCATIONS VARY WHERE CROSS STREET WIDENS AT INTERSECTIONS FOR DEVELOPMENT OF TURNING LANES.
- 3) PROPOSED CROSS STREET SIDEWALK TRANSITION TO EXISTING WIDTHS.

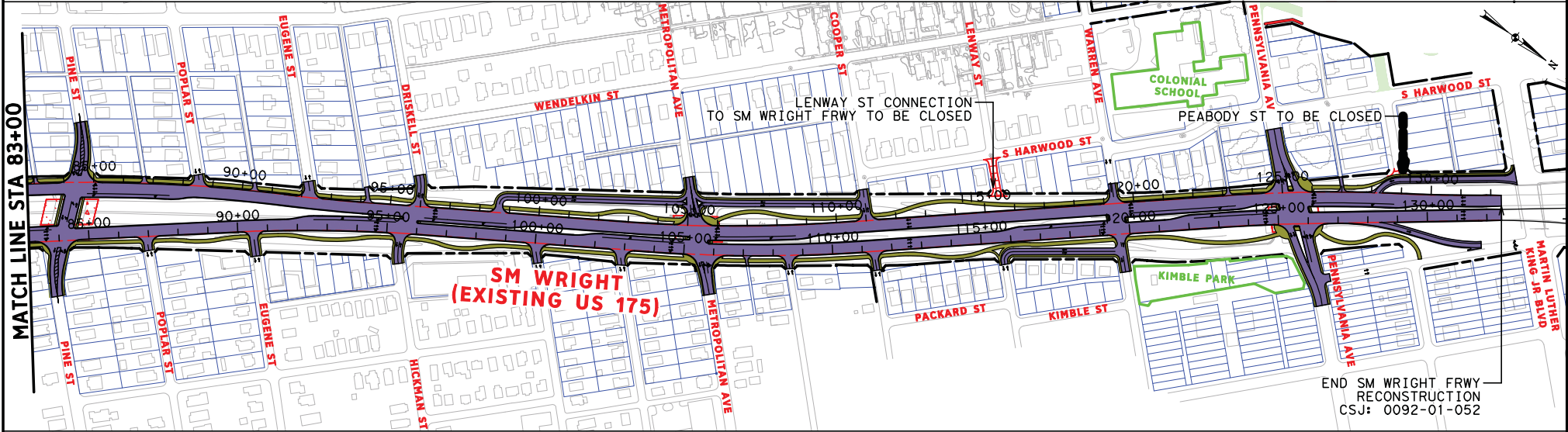
APPENDIX A-4 (SHEET 7 OF 7) SM Wright Project Typical Sections

-- Not to Scale --

DISPLACEMENT LABELS ALONG CF HAWN ARE SHOWN ON SHEET 2



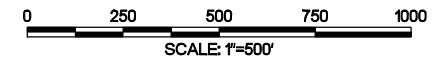
BEGIN SM WRIGHT RECONSTRUCTION
CSJ: 0092-01-052



END SM WRIGHT FRWY RECONSTRUCTION
CSJ: 0092-01-052

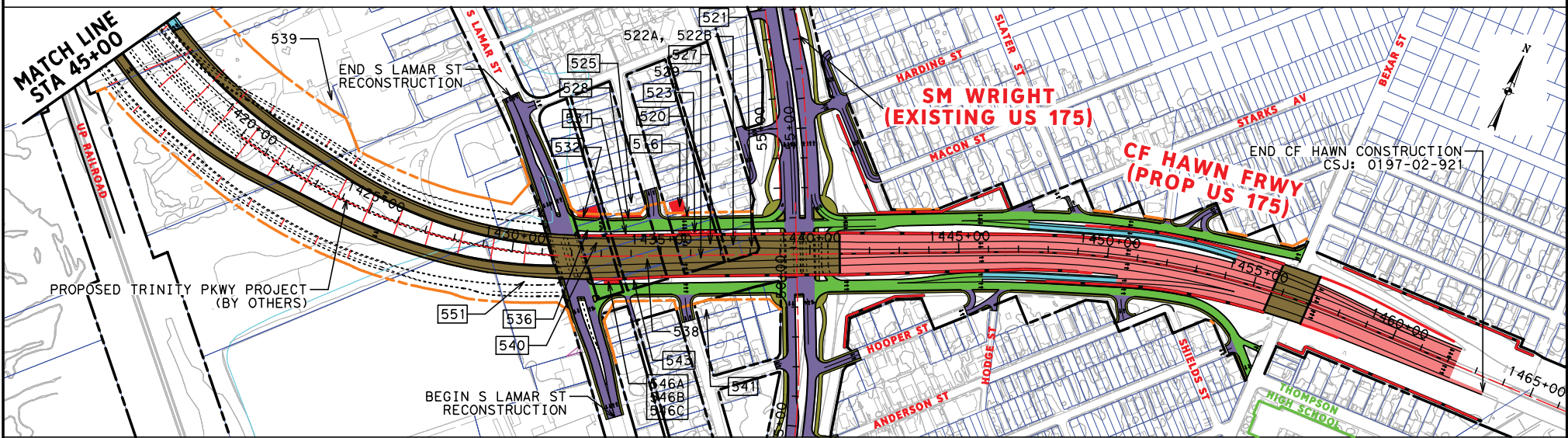
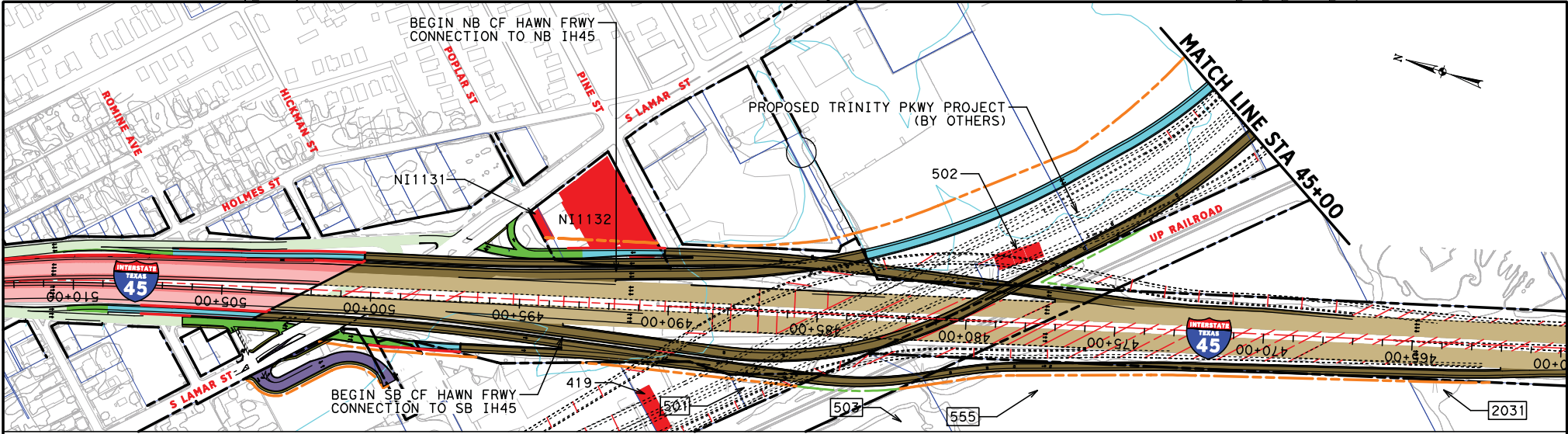
LEGEND:

- CENTERLINE
- EXISTING R.O.W.
- PROPOSED R.O.W.
- PROPOSED JOINT USE EASEMENT
- PROPOSED RETAINING WALL
- PRELIMINARY NOISE WALL
- PROPERTY LINES
- 100 YR. FLOODPLAIN LIMITS
- FUTURE PROJECT (BY OTHERS)
- PAVEMENT TO BE REMOVED
- POTENTIAL DISPLACED STRUCTURE
- EXISTING OVERPASS TO BE REMOVED
- PROPERTY ID - EARLY ACQUISITION ROW BY CITY OF DALLAS / POTENTIAL DISPLACEMENT
- 501 PROPERTY ID - POTENTIAL DISPLACEMENT (NOT EARLY ACQUIRED)
- EXISTING MAIN LANE ON STRUCTURE TO REMAIN
- EXISTING MAIN LANE AT GRADE TO REMAIN
- EXISTING RAMP TO REMAIN
- EXISTING FRONTAGE ROAD TO REMAIN
- PROPOSED STRUCTURE
- PROPOSED MAIN LANE AT GRADE
- PROPOSED RAMP / DIRECT CONNECT
- PROPOSED FRONTAGE ROAD
- PROPOSED CROSS STREET / ARTERIAL
- PROPOSED SIDEWALK (EXACT LOCATION TBD DURING PS&E)



US 175/SH 310 (SM WRIGHT FRWY)
Plan View of Project Design Features
 US 175 - IH 45, Dallas County, TX

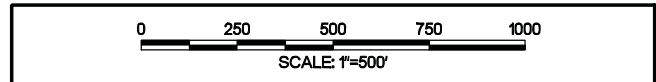
CSJs: 0092-01-052, 0197-02-108, & 0092-14-081



LEGEND:

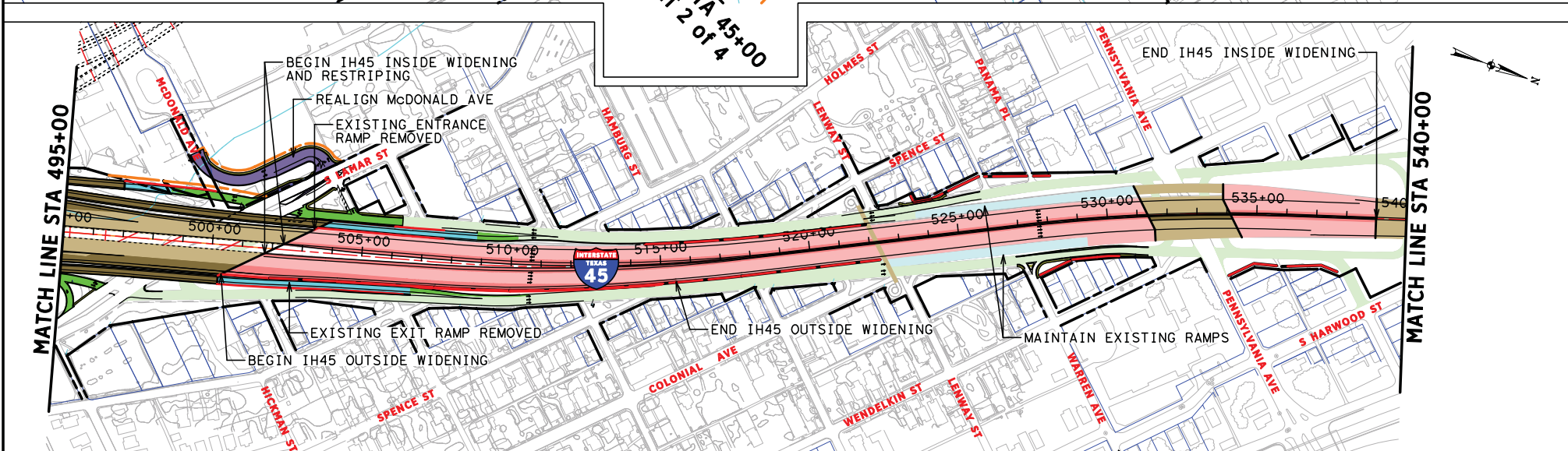
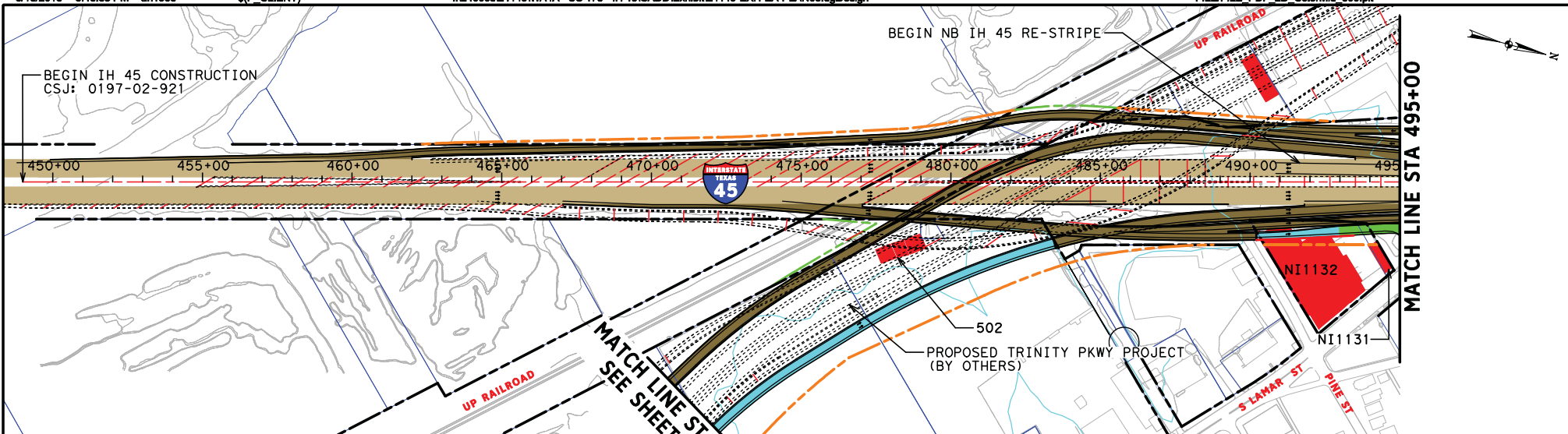
- CENTERLINE
- EXISTING R. O. W.
- PROPOSED R. O. W.
- PROPOSED JOINT USE EASEMENT
- PROPOSED RETAINING WALL
- PRELIMINARY NOISE WALL
- PROPERTY LINES
- 100 YR. FLOODPLAIN LIMITS
- FUTURE PROJECT (BY OTHERS)
- PAVEMENT TO BE REMOVED
- POTENTIAL DISPLACED STRUCTURE
- EXISTING OVERPASS TO BE REMOVED

- PROPERTY ID - EARLY ACQUISITION ROW BY CITY OF DALLAS / POTENTIAL DISPLACEMENT
- PROPERTY ID - POTENTIAL DISPLACEMENT (NOT EARLY ACQUIRED)
- EXISTING MAIN LANE ON STRUCTURE TO REMAIN
- EXISTING MAIN LANE AT GRADE TO REMAIN
- EXISTING RAMP TO REMAIN
- EXISTING FRONTAGE ROAD TO REMAIN
- PROPOSED STRUCTURE
- PROPOSED MAIN LANE AT GRADE
- PROPOSED RAMP / DIRECT CONNECT
- PROPOSED FRONTAGE ROAD
- PROPOSED CROSS STREET / ARTERIAL
- PROPOSED SIDEWALK (EXACT LOCATION TBD DURING PS&E)



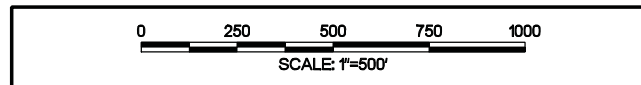
US 175 (CF HAWN FRWY)
Plan View of Project Design Features
 US 175 - IH 45, Dallas County, TX

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081



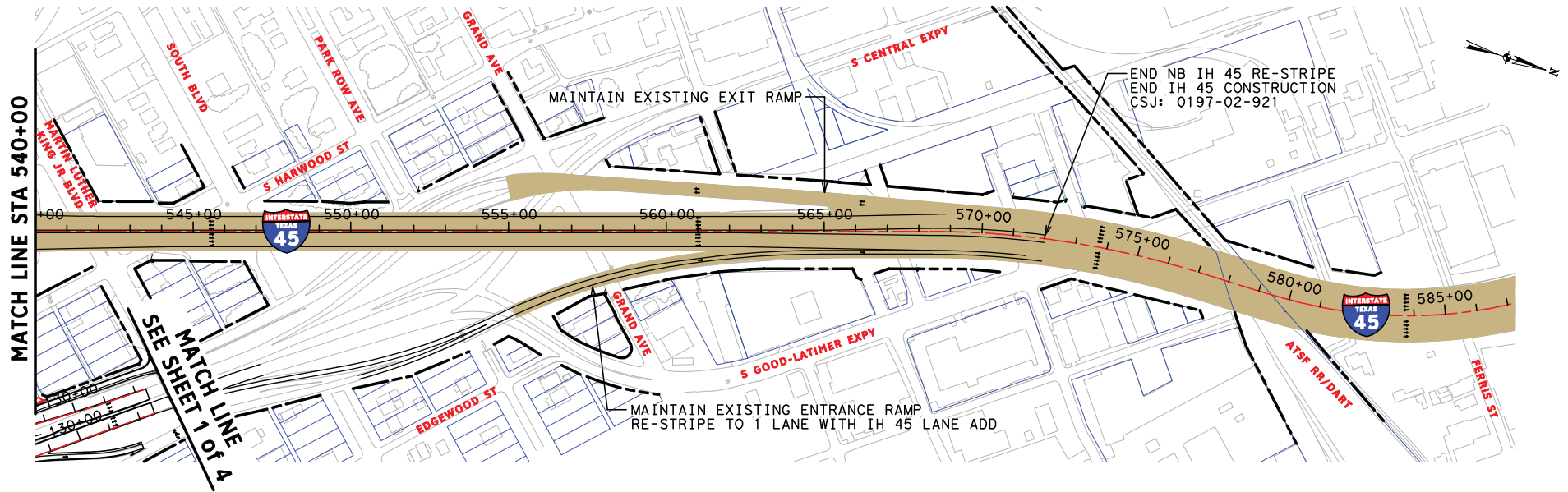
LEGEND:

- | | | | |
|--|---------------------------------|--|--|
| | CENTERLINE | | PROPERTY ID - EARLY ACQUISITION ROW BY CITY OF DALLAS / POTENTIAL DISPLACEMENT |
| | EXISTING R. O. W. | | PROPERTY ID - POTENTIAL DISPLACEMENT (NOT EARLY ACQUIRED) |
| | PROPOSED R. O. W. | | EXISTING MAIN LANE ON STRUCTURE TO REMAIN |
| | PROPOSED JOINT USE EASEMENT | | EXISTING MAIN LANE AT GRADE TO REMAIN |
| | PROPOSED RETAINING WALL | | EXISTING RAMP TO REMAIN |
| | PRELIMINARY NOISE WALL | | EXISTING FRONTAGE ROAD TO REMAIN |
| | PROPERTY LINES | | PROPOSED STRUCTURE |
| | 100 YR. FLOODPLAIN LIMITS | | PROPOSED MAIN LANE AT GRADE |
| | FUTURE PROJECT (BY OTHERS) | | PROPOSED RAMP / DIRECT CONNECT |
| | PAVEMENT TO BE REMOVED | | PROPOSED FRONTAGE ROAD |
| | POTENTIAL DISPLACED STRUCTURE | | PROPOSED CROSS STREET / ARTERIAL |
| | EXISTING OVERPASS TO BE REMOVED | | PROPOSED SIDEWALK (EXACT LOCATION TBD DURING PS&E) |



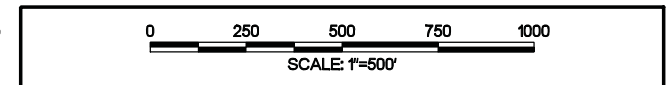
IH 45
Plan View of Project Design Features
 US 175 - IH 45, Dallas County, TX

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081



LEGEND:

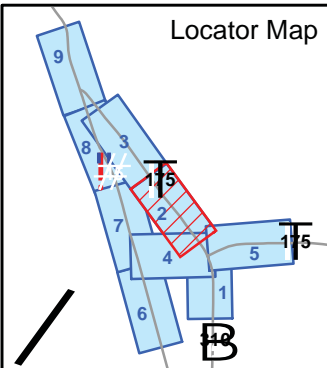
- CENTERLINE
- EXISTING R. O. W.
- PROPOSED R. O. W.
- PROPOSED JOINT USE EASEMENT
- PROPOSED RETAINING WALL
- PRELIMINARY NOISE WALL
- PROPERTY LINES
- 100 YR. FLOODPLAIN LIMITS
- FUTURE PROJECT (BY OTHERS)
- PAVEMENT TO BE REMOVED
- POTENTIAL DISPLACED STRUCTURE
- EXISTING OVERPASS TO BE REMOVED
- PROPERTY ID - EARLY ACQUISITION ROW BY CITY OF DALLAS / POTENTIAL DISPLACEMENT
- PROPERTY ID - POTENTIAL DISPLACEMENT (NOT EARLY ACQUIRED)
- EXISTING MAIN LANE ON STRUCTURE TO REMAIN
- EXISTING MAIN LANE AT GRADE TO REMAIN
- EXISTING RAMP TO REMAIN
- EXISTING FRONTAGE ROAD TO REMAIN
- PROPOSED STRUCTURE
- PROPOSED MAIN LANE AT GRADE
- PROPOSED RAMP / DIRECT CONNECT
- PROPOSED FRONTAGE ROAD
- PROPOSED CROSS STREET / ARTERIAL
- PROPOSED SIDEWALK (EXACT LOCATION TBD DURING PS&E)



IH 45
Plan View of Project Design Features
 US 175 - IH 45, Dallas County, TX

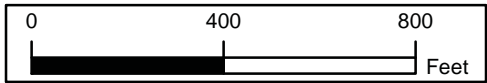
Appendix A-5, Page 4 of 4

CSI: 0092-01-052, 0197-02-108, & 0092-14-081



Appendix A-6

Legend			
	Existing ROW		Existing Mainlane Bridge
	Proposed Easement		Existing Ramp At-grade
	Proposed ROW		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Proposed Sidewalk
	Other Haz Mat Site		Proposed Local Road At-grade
	Parcel Boundary around Other Haz Mat Site		
	Proposed Noise Wall		
	Proposed Retaining Wall		
	Proposed Bridge/Pavement Removal		
	Existing Frontage Road At-grade		
	Existing Mainlane At-grade		

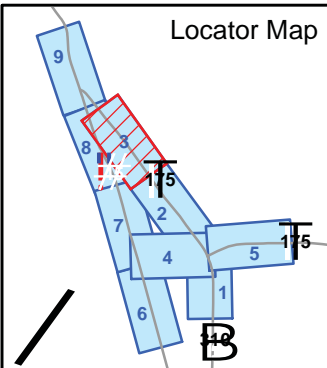


(Page 2 of 9)

Project Plan View on Aerial Photograph

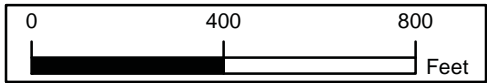
SM Wright Project
Dallas, TX

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Appendix A-6

Legend					
	Existing ROW		Other Haz Mat Site		Existing Mainlane Bridge
	Proposed Easement		Parcel Boundary around Other Haz Mat Site		Existing Ramp At-grade
	Proposed ROW		Proposed Noise Wall		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Retaining Wall		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Bridge/Pavement Removal		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Existing Frontage Road At-grade		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Existing Mainlane At-grade		Proposed Sidewalk
					Proposed Local Road At-grade

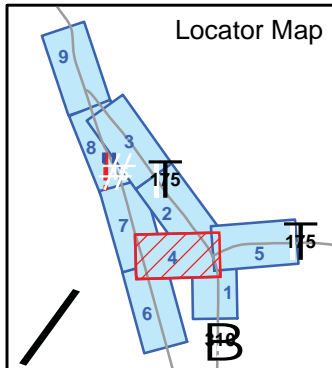


(Page 3 of 9)

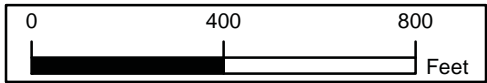
Project Plan View on Aerial Photograph

SM Wright Project
Dallas, TX

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Legend					
	Existing ROW		Other Haz Mat Site		Existing Mainlane Bridge
	Proposed Easement		Parcel Boundary around Other Haz Mat Site		Existing Ramp At-grade
	Proposed ROW		Proposed Noise Wall		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Retaining Wall		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Bridge/Pavement Removal		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Existing Frontage Road At-grade		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Existing Mainlane At-grade		Proposed Sidewalk
					Proposed Local Road At-grade



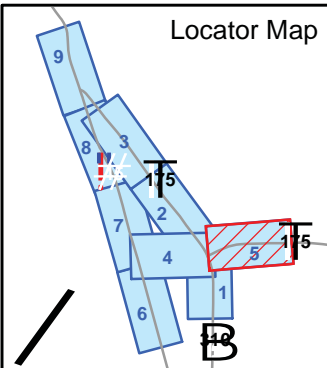
(Page 4 of 9)

Project Plan View on Aerial Photograph

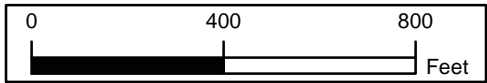
SM Wright Project
Dallas, TX

Appendix A-6

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Legend			
	Existing ROW		Existing Mainlane Bridge
	Proposed Easement		Existing Ramp At-grade
	Proposed ROW		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Proposed Ramp Bridge
	Other Haz Mat Site		Proposed Sidewalk
	Parcel Boundary around Other Haz Mat Site		Proposed Local Road At-grade
	Proposed Noise Wall		
	Proposed Retaining Wall		
	Proposed Bridge/Pavement Removal		
	Existing Frontage Road At-grade		
	Existing Mainlane At-grade		



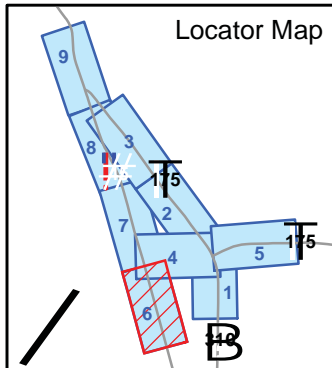
(Page 5 of 9)

Project Plan View on Aerial Photograph

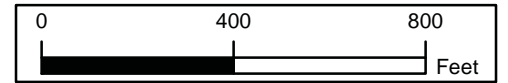
SM Wright Project
Dallas, TX

Appendix A-6

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Legend					
	Existing ROW		Other Haz Mat Site		Existing Mainlane Bridge
	Proposed Easement		Parcel Boundary around Other Haz Mat Site		Existing Ramp At-grade
	Proposed ROW		Proposed Noise Wall		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Retaining Wall		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Bridge/Pavement Removal		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Existing Frontage Road At-grade		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Existing Mainlane At-grade		Proposed Sidewalk
					Proposed Local Road At-grade



(Page 6 of 9)

Project Plan View on Aerial Photograph

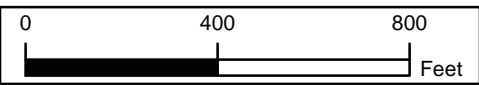
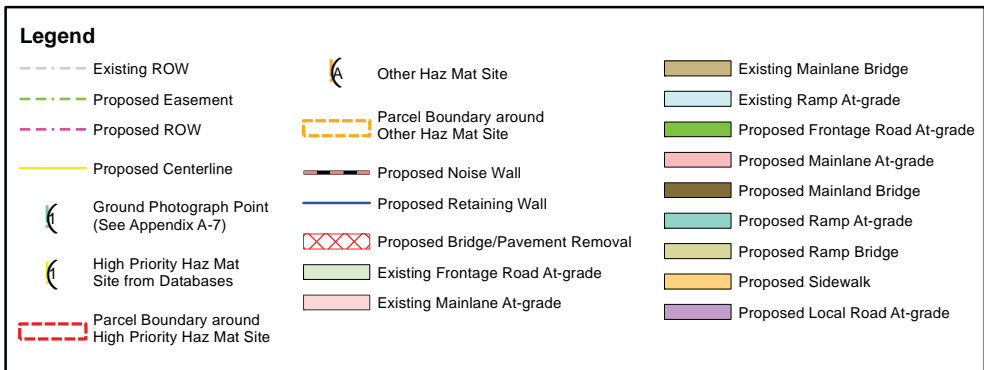
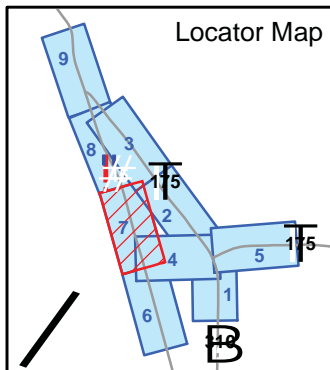
SM Wright Project
Dallas, TX

Appendix A-6

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Appendix A-6

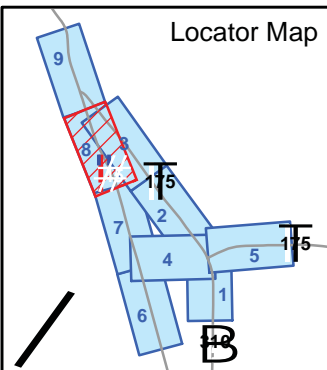


(Page 7 of 9)

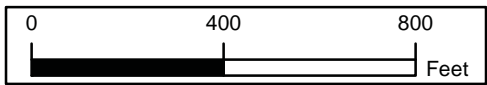
Project Plan View on Aerial Photograph

SM Wright Project
Dallas, TX

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Legend					
	Existing ROW		Other Haz Mat Site		Existing Mainlane Bridge
	Proposed Easement		Parcel Boundary around Other Haz Mat Site		Existing Ramp At-grade
	Proposed ROW		Proposed Noise Wall		Proposed Frontage Road At-grade
	Proposed Centerline		Proposed Retaining Wall		Proposed Mainlane At-grade
	Ground Photograph Point (See Appendix A-7)		Proposed Bridge/Pavement Removal		Proposed Mainland Bridge
	High Priority Haz Mat Site from Databases		Existing Frontage Road At-grade		Proposed Ramp At-grade
	Parcel Boundary around High Priority Haz Mat Site		Existing Mainlane At-grade		Proposed Sidewalk
					Proposed Local Road At-grade



(Page 8 of 9)

Project Plan View on Aerial Photograph

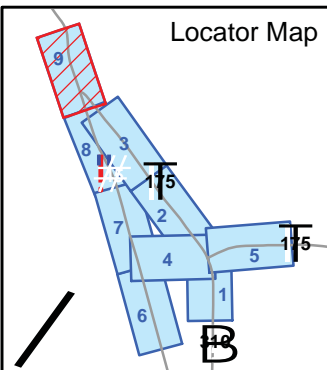
SM Wright Project
Dallas, TX

Appendix A-6

CSJ: 0092-01-052, 0197-02-108, & 0092-14-081

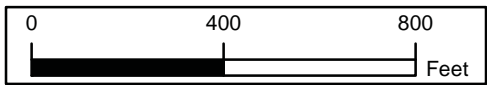


Appendix A-6



Legend

--- Existing ROW	Other Haz Mat Site	Existing Mainlane Bridge
- - - Proposed Easement	Parcel Boundary around Other Haz Mat Site	Existing Ramp At-grade
- - - Proposed ROW	Proposed Noise Wall	Proposed Frontage Road At-grade
— Proposed Centerline	Proposed Retaining Wall	Proposed Mainlane At-grade
Ground Photograph Point (See Appendix A-7)	Proposed Bridge/Pavement Removal	Proposed Mainland Bridge
High Priority Haz Mat Site from Databases	Existing Frontage Road At-grade	Proposed Ramp At-grade
Parcel Boundary around High Priority Haz Mat Site	Existing Mainlane At-grade	Proposed Sidewalk
		Proposed Local Road At-grade



(Page 9 of 9)

Project Plan View on Aerial Photograph

SM Wright Project
Dallas, TX



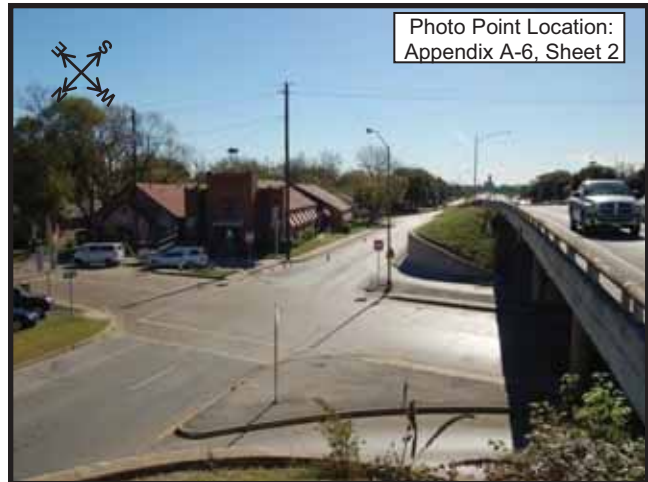
Photograph 1. SH 310/ US 175 Intersection looking West.



Photograph 2. SH 310/ US175 Intersection looking Northwest



Photograph 3. Poplar Street and SM Wright – looking southeast at existing residential development.



Photograph 4. Pine Street and SM Wright – looking Southeast on SM Wright.



Photograph 5. Eugene Street and SM Wright – looking north on SM Wright towards downtown Dallas.



Photograph 6. Metropolitan Avenue and SM Wright – looking southwest towards existing commercial development.

Appendix A-7 (Sheet 1 of 6)
Project Area Ground Photographs
S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)
See Appendix A-6 for Photo Point Locations



Photo Point Location:
Appendix A-6, Sheet 2

Photograph 7. Cooper St. and SM Wright-looking northeast on SM Wright.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 8. Peabody Ave and S.M. Wright-looking north on SM Wright towards MLK Jr. Boulevard and downtown Dallas.



Photo Point Location:
Appendix A-6, Sheet 2

Photograph 9. Stoneman Street and S.M. Wright-looking south on SM Wright).



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 10. MLK and Hwy175, SE Corner – looking north on Hwy175.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 11 MLK Overpass, Looking South on Hwy 175



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 12. Pennsylvania and Hwy175, Southeast Corner.

Appendix A-7 (Sheet 2 of 6)
Project Area Ground Photographs
S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)
See Appendix A-6 for Photo Point Locations



Photo Point Location:
Appendix A-6, Sheet 1

Photograph 13. SM Wright looking Northwest.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 14. Pennsylvania Ave. and SM Wright-
looking South on SM Wright



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 15. Pennsylvania Ave. and SM Wright-
looking South on SM Wright



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 16. Pennsylvania Ave. and SM Wright-
looking South on SM Wright



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 17. Peabody Ave and SM Wright-
looking north on SM Wright towards MLK Jr.
Boulevard and downtown Dallas.



Photo Point Location:
Appendix A-6, Sheet 2

Photograph 18. Northbound SM Wright approaching
Metropolitan Ave).

Appendix A-7 (Sheet 3 of 6)

Project Area Ground Photographs

S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)

See Appendix A-6 for Photo Point Locations



Photo Point Location:
Appendix A-6, Sheet 2

Photograph 19. 175 and Hatcher Street, NW Corner



Photo Point Location:
Appendix A-6, Sheet 1

Photograph 20. 310-175, SE Corner – looking north.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 21. Metropolitan and 175, NW Corner.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 22. Northbound SM Wright approaching Martin Luther King Jr. Blvd.



Photo Point Location:
Appendix A-6, Sheet 3

Photograph 23. IH 45 Pedestrian Bridge near Lenway Street.



Photo Point Location:
Appendix A-6, Sheet 2

Photograph 24. Pine Street and 175, SE Corner.

Appendix A-7 (Sheet 4 of 6)
Project Area Ground Photographs
 S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)
 See Appendix A-6 for Photo Point Locations



Photograph 25. IH 45 - Pennsylvania southbound frontage road, looking south bound



Photograph 26. IH 45 - Pennsylvania southbound frontage road, looking north bound



Photograph 27. IH 45- Pennsylvania southbound frontage road, looking southwest near St. Phillips school.



Photograph 28. Pedestrian Bridge at IH 45 and Lenway, from the southbound frontage road, looking northbound.



Photograph 29. IH 45 and Lenway, taken from the pedestrian bridge ramp on the southbound frontage road, looking northeast



Photograph 30. IH 45 and Lenway, taken from the pedestrian bridge ramp on the southbound frontage road, looking northeast

Appendix A-7 (Sheet 5 of 6)

Project Area Ground Photographs

S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)

See Appendix A-6 for Photo Point Locations



Photograph 31. IH 45 and Lenway, taken from the pedestrian bridge, looking north on IH 45



Photograph 32. IH 45 and Lenway, taken from the pedestrian bridge, looking south on IH 45



Photograph 33. IH 45 and Lenway, from the pedestrian bridge, looking north on IH 45



Photograph 34. IH 45 and Lenway, from the pedestrian bridge, looking south on IH 45



Photograph 35. IH 45 and Lenway, from the pedestrian bridge ramp on the northbound frontage road, looking northwest



Photograph 36. IH 45 and Lenway, from the pedestrian bridge ramp on the northbound frontage road, looking southwest

Appendix A-7 (Sheet 6 of 6)
Project Area Ground Photographs
S.M Wright (IH 45 from US 175 to Lamar Blvd. and US 175 from IH 45 to SH 310 at Budd Street)
See Appendix A-6 for Photo Point Locations

APPENDIX B
NATURAL RESOURCES



Legend

- Project Right of Way
- 100-Year Floodplain in Project Right of Way
- 100-Year Floodplain

Source/Year:
 LandisCor Aerial Photograph/2011
 Effective FEMA Floodplain/2001
 Total Acreage of 100-Year Floodplain in Project Right of Way:
 46.8 Acres






0 1,000 2,000
Feet

100-Year Floodplain in the Project ROW

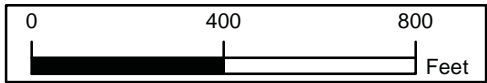
SM Wright Project
Dallas, Texas



Legend

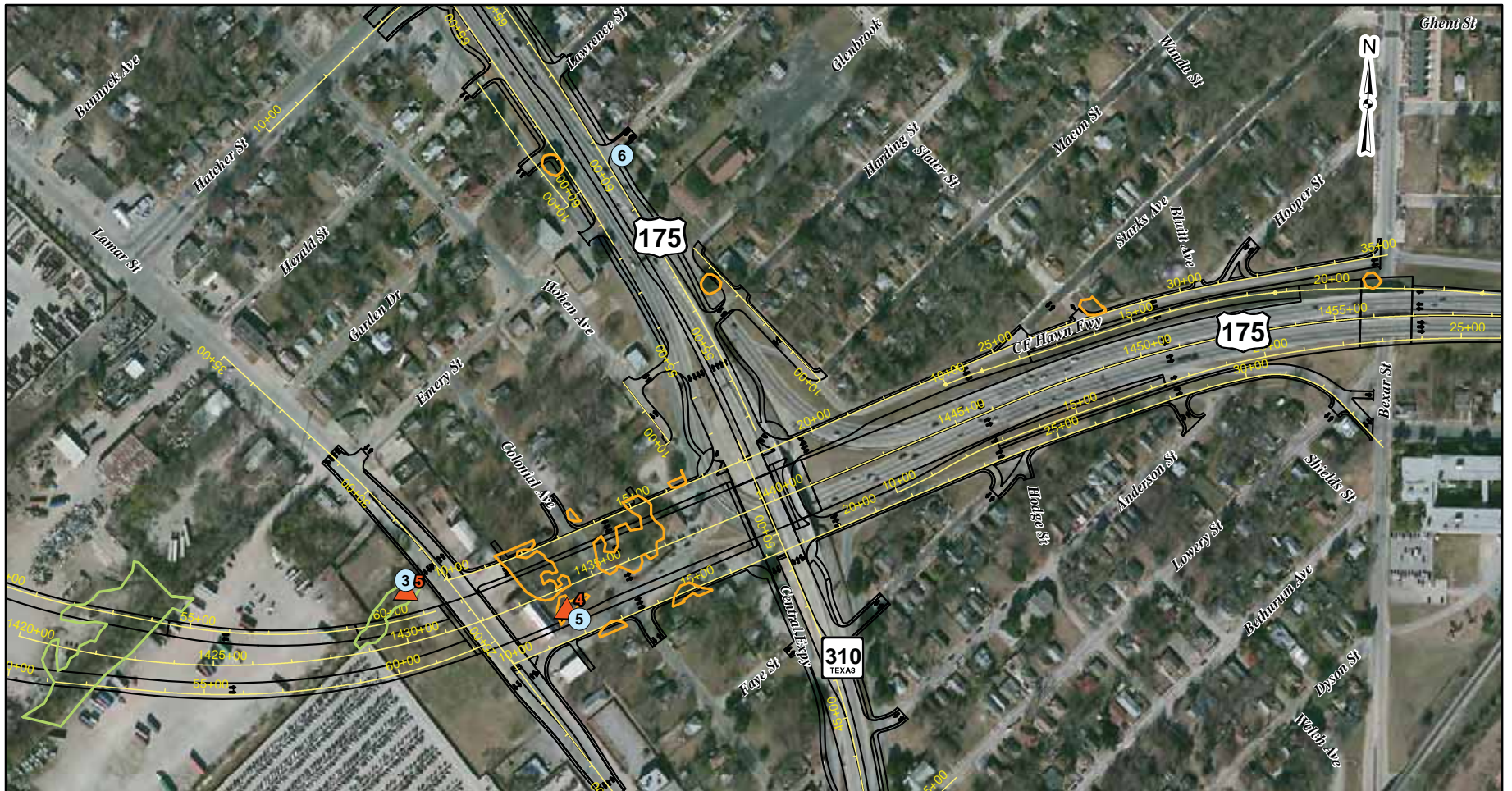
-  Direction Arrows
-  Existing Right of Way
-  Proposed Right of Way
-  Proposed Centerline
-  Proposed Edge of Pavement
-  Photograph Point Location (See App. B-3 for photographs)
-  Woodland Data Point
-  Riparian Forest
-  Upland Forest

Source/Year of Aerial Photograph: Landiscor/2011



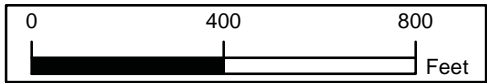
Forest Impacts

SM Wright Project
Dallas, TX



Legend

- Direction Arrows
- Existing Right of Way
- Proposed Right of Way
- Proposed Centerline
- Proposed Edge of Pavement
- Photograph Point Location (See App. B-3 for photographs)
- Woodland Data Point
- Riparian Forest
- Upland Forest



Forest Impacts

SM Wright Project
Dallas, TX

Source/Year of Aerial Photograph: Landiscor/2011



Photograph 1. Riparian forest just west of IH 45 at Woodland Data Point 2. View is toward the west.



Photograph 2. Riparian forest just west of IH 45 at Woodland Data Point 3. View is toward the west.



Photograph 3. Riparian forest area near industrial property on Lamar Blvd. View is toward the south.



Photograph 4. Riparian forest is fragmented by the railroad embankment near IH 45. View is to the south.



Photograph 5. Landscaping trees form typical upland forest habitat near Starks Ave. View is to the northwest.



Photograph 6. No construction impacts are expected to most of the large live oak trees along the proposed SM Wright Parkway. View is southward.

Ground Photographs of Forest Resources

SM Wright Project -- Dallas, Texas

See Appendix B-2 for Photo Point Locations

TxDOT WOODLANDS DATA FORM

GENERAL

Project/Site	SM Wright—IH 45/US 175		Area #: 1	Date	28 April 2011
CSJs	0092-01-052, 0197-02-108, & 0092-14-081	Investigator	Rich Jaynes	County	Dallas
Filename	I:\24000s\24149\WA4A - US 175 - IH 45\ENVIRONMENTAL\2-Back-up Data\Vegetation & Habitat\Woodland Data Forms\App -- Completed Woodland Data Forms.docx				
Project Scope					
Conversion of S.M. Wright Freeway to a signalized urban arterial, and improvements to connecting roads.					
Description of Wooded Site (riparian, upland, fence line, overstory/understory, disturbed, diverse, etc.)					
Location: East side of IH 45 – nearest IH 45 Centerline Station: 483 + 50					
Vegetation type: riparian forest (drainage ditch bottom and banks)					
Overstory: dominated by red mulberry trees; trees generally not more than 50 feet tall					
Understory: sparse and dominated by woody vines, and includes the following—					
<ul style="list-style-type: none"> ▪ vines: dewberry (<i>Rubus</i> spp.) and Virginia creeper (<i>Parthenocissus quinquefolia</i>) ▪ shrubs: ▪ grasses and sedges: perennial rye grass (<i>Lolium perenne</i>) and Virginia wildrye (<i>Elymus virginicus</i>) ▪ forbs: giant ragweed (<i>Ambrosia trifida</i>), hedge parsley (<i>Torilis arvensis</i>), bedstraw (<i>Galium aparine</i>), cornsalad (<i>Valerianella radiata</i>), curly dock (<i>Rumex crispus</i>), wild onion (<i>Allium</i> sp.) 					
Is Site Unusual or Typical of Others in the Area? typical					

SPECIES DESCRIPTION

Species by Order of Dominance		
Common Name	Taxonomic Name	Range of Sizes (dbh)
red mulberry	<i>Morus rubra</i>	<1" – 8"
American elm	<i>Ulmus americana</i>	<1" – 8"
China-berry	<i>Melia azedarach</i>	<1" – 10"
green ash	<i>Fraxinus pennsylvanica</i>	<1" – 3"
Acreage of Trees to be Removed	1.2 acres (total trees >6" dbh to be removed: 107)	
Density per Acre (trees > 6" dbh)	89	
Remarks, Description of any Unique, Large, or Mature Trees (>20" dbh)		
Impacts: permanent removal of forested vegetation and conversion to either paved surface or grass		
Density sample: trees >6" dbh within a circle with a radius of 25 feet (0.045 acre) = 4 trees		
Average size of trees >6" dbh within density sample: 8" dbh		
Canopy coverage estimate: 100%		
Tree notes:		

HABITAT VALUE

Is the Site Adjacent to Water?	yes (near ephemeral channel; within Trinity River floodplain)
Is the Site in a Developed Area?	yes (near IH 45 and Lamar Blvd.)
Do Plants Produce Nuts, Berries, or Acorns?	
Yes: mulberry—aggregate; elm and box elder—samara; China-berry—berry	
Land Use in the Project Area	
Transportation and vacant land within floodplain	
Evidence or Sightings of Wildlife in the Project Area?	
Remarks	

TxDOT WOODLANDS DATA FORM

GENERAL

Project/Site	SM Wright—IH 45/US 175	Area #: 2	Date	28 April 2011
CSJs	0092-01-052, 0197-02-108, & 0092-14-081	Investigator	Rich Jaynes	County
County	Dallas			
Filename	I:\24000s\24149\WA4A - US 175 - IH 45\ENVIRONMENTAL\2-Back-up Data\Vegetation & Habitat\Woodland Data Forms\App -- Completed Woodland Data Forms.docx			
Project Scope				
Conversion of S.M. Wright Freeway to a signalized urban arterial, and improvements to connecting roads.				
Description of Wooded Site (riparian, upland, fence line, overstory/understory, disturbed, diverse, etc.)				
Location: West side of IH 45 – nearest IH 45 Centerline Station: 468 + 00				
Vegetation type: riparian forest				
Overstory: dominated by hackberry trees; trees generally not more than 70 feet tall				
Understory: sparse and dominated by woody vines, and includes the following—				
<ul style="list-style-type: none"> ▪ vines: poison ivy (<i>Toxicodendron radicans</i>), saw greenbrier (<i>Smilax bona-nox</i>), Virginia creeper (<i>Parthenocissus quinquefolia</i>), Carolina snailseed (<i>Cocculus carolinus</i>), wild grape (<i>Vitis</i> sp.) ▪ shrubs: Eve's necklace (<i>Sophora affinis</i>) ▪ grasses and sedges: Virginia wildrye (<i>Elymus virginicus</i>) ▪ forbs: giant ragweed (<i>Ambrosia trifida</i>) 				
Is Site Unusual or Typical of Others in the Area?		typical		

SPECIES DESCRIPTION

Species by Order of Dominance		
Common Name	Taxonomic Name	Range of Sizes (dbh)
American elm	<i>Ulmus americana</i>	<1" – 18"
box elder	<i>Acer negundo</i>	<1" – 8"
hackberry	<i>Celtis laevigata</i>	<1" – 6"
China-berry	<i>Melia azedarach</i>	<1" – 8"
red mulberry	<i>Morus rubra</i>	<1" – 2"
green ash	<i>Fraxinus pennsylvanica</i>	<1" – 5"
pecan	<i>Carya illinoensis</i>	15"
bur oak	<i>Quercus macrocarpa</i>	8"
soapberry	<i>Sapindus saponaria</i> var. <i>drummondii</i>	<1"
Acreage of Trees to be Removed		1.6 acres (total trees >6" dbh to be removed: 250)
Density per Acre (trees > 6" dbh)		156
Remarks, Description of any Unique, Large, or Mature Trees (>20" dbh)		
Impacts: permanent removal of forested vegetation and conversion to either paved surface or grass		
Density sample: trees >6" dbh within a circle with a radius of 25 feet (0.045 acre) = 7 trees		
Average size of trees >6" dbh within density sample: 10" dbh		
Canopy coverage estimate: 100%		
Tree notes:		

HABITAT VALUE

Is the Site Adjacent to Water?	yes (within Trinity River floodplain)
Is the Site in a Developed Area?	yes (near IH 45)
Do Plants Produce Nuts, Berries, or Acorns?	
Yes: box elder, ash, and elm—samara; hackberry, China-berry, and soapberry—berry; mulberry—aggregate; pecan and oak—nut	
Land Use in the Project Area	
Transportation and vacant land within floodplain	
Evidence or Sightings of Wildlife in the Project Area?	
Remarks	

TxDOT WOODLANDS DATA FORM

GENERAL

Project/Site	SM Wright—IH 45/US 175	Area #: 3	Date	28 April 2011	
CSJs	0092-01-052, 0197-02-108, & 0092-14-081	Investigator	Rich Jaynes	County	Dallas
Filename	I:\24000s\24149\WA4A - US 175 - IH 45\ENVIRONMENTAL\2-Back-up Data\Vegetation & Habitat\Woodland Data Forms\App -- Completed Woodland Data Forms.docx				
Project Scope					
Conversion of S.M. Wright Freeway to a signalized urban arterial, and improvements to connecting roads.					
Description of Wooded Site (riparian, upland, fence line, overstory/understory, disturbed, diverse, etc.)					
Location: West side of IH 45 – nearest IH 45 Centerline Station: 478 + 00					
Vegetation type: riparian forest					
Overstory: dominated by hackberry trees; trees generally not more than 60 feet tall					
Understory: sparse and dominated by woody vines, and includes the following—					
<ul style="list-style-type: none"> ▪ vines: poison ivy (<i>Toxicodendron radicans</i>), saw greenbrier (<i>Smilax bona-nox</i>), Virginia creeper (<i>Parthenocissus quinquefolia</i>), Japanese honeysuckle (<i>Lonicera japonica</i>), Carolina snailseed (<i>Cocculus carolinus</i>) ▪ shrubs: Chinese privet (<i>Ligustrum sinense</i>), Japanese privet (<i>Ligustrum japonicum</i>) ▪ grasses and sedges: Virginia wildrye (<i>Elymus virginicus</i>) ▪ forbs: hedge parsley (<i>Torilis arvensis</i>), giant ragweed (<i>Ambrosia trifida</i>) 					
Is Site Unusual or Typical of Others in the Area? typical					

SPECIES DESCRIPTION

Species by Order of Dominance		
Common Name	Taxonomic Name	Range of Sizes (dbh)
hackberry	<i>Celtis laevigata</i>	<1" – 14"
American elm	<i>Ulmus americana</i>	<1" – 18"
box elder	<i>Acer negundo</i>	<1" – 6"
bois d'arc	<i>Maclura pomifera</i>	10"
pecan	<i>Carya illinoensis</i>	4"
red mulberry	<i>Morus rubra</i>	<1" – 2"
China-berry	<i>Melia azedarach</i>	<1"
eastern red cedar	<i>Juniperus virginiana</i>	<1"
Acreage of Trees to be Removed		2.0 acres (total trees >6" dbh to be removed: 400)
Density per Acre (trees > 6" dbh)		200
Remarks, Description of any Unique, Large, or Mature Trees (>20" dbh)		
Impacts: permanent removal of forested vegetation and conversion to either paved surface or grass		
Density sample: trees >6" dbh within a circle with a radius of 25 feet (0.045 acre) = 9 trees		
Average size of trees >6" dbh within density sample: 9" dbh		
Canopy coverage estimate: 90%		
Tree notes:		

HABITAT VALUE

Is the Site Adjacent to Water?	yes (within Trinity River floodplain)
Is the Site in a Developed Area?	yes (near railroad and IH 45)
Do Plants Produce Nuts, Berries, or Acorns?	
Yes: hackberry and China-berry—berry; elm and box elder—samara; mulberry and bois d'arc—aggregate; pecan—nut; cedar—berry-like cone	
Land Use in the Project Area	
Transportation and vacant land within floodplain	
Evidence or Sightings of Wildlife in the Project Area?	
Remarks	

TxDOT WOODLANDS DATA FORM

GENERAL

Project/Site	SM Wright—IH 45/US 175	Area #: 4	Date	28 April 2011
CSJs	0092-01-052, 0197-02-108, & 0092-14-081	Investigator	Rich Jaynes	County
County	Dallas			
Filename	I:\24000s\24149\WA4A - US 175 - IH 45\ENVIRONMENTAL\2-Back-up Data\Vegetation & Habitat\Woodland Data Forms\App -- Completed Woodland Data Forms.docx			
Project Scope				
Conversion of S.M. Wright Freeway to a signalized urban arterial, and improvements to connecting roads.				
Description of Wooded Site (riparian, upland, fence line, overstory/understory, disturbed, diverse, etc.)				
Location: North of Starks Avenue, between Lamar Street and Colonial Avenue – nearest C.F. Hawn Centerline Station: 1434 + 00				
Vegetation type: upland forest (residential landscaping)				
Overstory: dominated by tree-of-heaven trees; trees generally not more than 40 feet tall				
Understory: sparse and dominated by woody vines, and includes the following—				
<ul style="list-style-type: none"> ▪ vines: Carolina snailseed (<i>Cocculus carolinus</i>) ▪ shrubs: ▪ grasses and sedges: Bermuda grass (<i>Cynodon dactylon</i>) ▪ forbs: giant ragweed (<i>Ambrosia trifida</i>) and hedge parsley (<i>Torilis arvensis</i>) 				
Is Site Unusual or Typical of Others in the Area? typical				

SPECIES DESCRIPTION

Species by Order of Dominance		
Common Name	Taxonomic Name	Range of Sizes (dbh)
tree-of-heaven	<i>Ailanthus altissima</i>	<1" – 7"
hackberry	<i>Celtis laevigata</i>	<1" – 14"
Acreage of Trees to be Removed	1.4 acres (total trees >6" dbh to be removed: 125)	
Density per Acre (trees > 6" dbh)	89	
Remarks, Description of any Unique, Large, or Mature Trees (>20" dbh)		
Impacts: permanent removal of forested vegetation and conversion to either paved surface or grass		
Density sample: trees >6" dbh within a circle with a radius of 25 feet (0.045 acre) = 4 trees		
Average size of trees >6" dbh within density sample: 8" dbh		
Canopy coverage estimate: 50%		
Tree notes:		

HABITAT VALUE

Is the Site Adjacent to Water?	no
Is the Site in a Developed Area?	yes (residential/commercial)
Do Plants Produce Nuts, Berries, or Acorns?	
Yes: tree-of-heaven—samara; hackberry—berry	
Land Use in the Project Area	
Residential, industrial, and undeveloped vacant land	
Evidence or Sightings of Wildlife in the Project Area?	
Remarks	

TxDOT WOODLANDS DATA FORM

GENERAL

Project/Site	SM Wright—IH 45/US 175	Area #: 5	Date	28 April 2011
CSJs	0092-01-052, 0197-02-108, & 0092-14-081	Investigator	Rich Jaynes	County
County	Dallas			
Filename	I:\24000s\24149\WA4A - US 175 - IH 45\ENVIRONMENTAL\2-Back-up Data\Vegetation & Habitat\Woodland Data Forms\App -- Completed Woodland Data Forms.docx			
Project Scope				
Conversion of S.M. Wright Freeway to a signalized urban arterial, and improvements to connecting roads.				
Description of Wooded Site (riparian, upland, fence line, overstory/understory, disturbed, diverse, etc.)				
Location: West side of Lamar Street, between Starks Avenue and Emery Street – nearest C.F. Hawn Centerline Station: 1430 + 50				
Vegetation type: riparian forest (between two lots within industrial area)				
Overstory: dominated by American elm trees; trees generally not more than 50 feet tall				
Understory: sparse and dominated by woody vines, and includes the following—				
<ul style="list-style-type: none"> ▪ vines: trumpet-creeper (<i>Campsis radicans</i>), and Carolina snailseed (<i>Cocculus carolinus</i>) ▪ shrubs: crape-myrtle (<i>Lagerstroemia indica</i>) ▪ grasses and sedges: Bermuda grass (<i>Cynodon dactylon</i>) and Johnson grass (<i>Sorghum halepense</i>) ▪ forbs: hedge parsley (<i>Torilis arvensis</i>) 				
Is Site Unusual or Typical of Others in the Area?		typical		

SPECIES DESCRIPTION

Species by Order of Dominance		
Common Name	Taxonomic Name	Range of Sizes (dbh)
American elm	<i>Ulmus americana</i>	2" – 7"
hackberry	<i>Celtis laevigata</i>	<1" – 5"
pecan	<i>Carya illinoensis</i>	2" – 6"
eastern cottonwood	<i>Populus deltoides</i>	3" – 5"
China-berry	<i>Melia azedarach</i>	<1" – 5"
red mulberry	<i>Morus rubra</i>	2" – 4"
Acreage of Trees to be Removed		2.7 acres (total trees >6" dbh to be removed: 186)
Density per Acre (trees > 6" dbh)		69
Remarks, Description of any Unique, Large, or Mature Trees (>20" dbh)		
Impacts: permanent removal of forested vegetation and conversion to either paved surface or grass		
Density sample: trees >6" dbh within a circle with a radius of 25 feet (0.045 acre) = 3 trees		
Average size of trees >6" dbh within density sample: 6" dbh		
Canopy coverage estimate: 90%		
Tree notes:		

HABITAT VALUE

Is the Site Adjacent to Water?	yes (near ephemeral channel; within Trinity River floodplain)
Is the Site in a Developed Area?	yes (industrial/residential)
Do Plants Produce Nuts, Berries, or Acorns?	
Yes: elm—samara; hackberry and China-berry—berry; pecan—nut; mulberry--aggregate	
Land Use in the Project Area	
Residential, industrial, and undeveloped vacant land	
Evidence or Sightings of Wildlife in the Project Area?	
Remarks	



Texas Department of Transportation

DEWITT C. GREER STATE HIGHWAY BLDG. • 125 E. 11TH STREET • AUSTIN, TEXAS 78701-2483 • (512) 463-8585

May 16, 2012

Environmental Document Coordination
CSJ: 0092-01-052
Highway: US 175 (SM Wright Freeway)
From: IH 45
To: SH 310, et al
County: Dallas

Ms. Kathy Boydston
Texas Parks and Wildlife Department
Wildlife Division – Wildlife Habitat Assessment Program
4200 Smith School Road
Austin, Texas 78744

Dear Ms. Boydston:

Consistent with the Memorandum of Understanding signed by our two agencies, attached is a copy of the environmental document covering the subject project for your review and comment. Any comments you may have on this document will assist the Texas Department of Transportation (Department) in ensuring that the Department's projects are sensitive to the natural resources of the state.

Please submit any comments you may have within 45 days from the date of this letter. If you do not have any comments on the document, please sign and date the bottom of this letter and return a copy to the Environmental Affairs Division. If no response is received after the 45 days have expired, we will proceed with project development. If you have any questions regarding this project please contact me at (512) 416-2511.

Sincerely,

Stirling J. Robertson, Ph.D.
Biological Resources Management Branch
Environmental Affairs Division

SJR: jas
Enclosure
Bcc: DAL SJR FILE/rl

NO COMMENT: _____
Wildlife Habitat Assessment Program

DATE: _____
THE TEXAS PLAN
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PRESERVE THE VALUE OF TRANSPORTATION ASSETS



June 11, 2012



Life's better outside.®

Stirling J. Robertson, Ph.D.
Biological Resources Management Branch
Environmental Affairs Division
Texas Department of Transportation
125 East 11th Street
Austin, TX 78701-2483

- Commissioners
- T. Dan Friedkin
Chairman
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- Ralph H. Duggins
Vice-Chairman
Fort Worth
- Antonio Falcon, M.D.
Rio Grande City
- Karen J. Hixon
San Antonio
- Dan Allen Hughes, Jr.
Beeville

RE: Environmental Assessment for SM Wright Project
Dallas County (CSJs 0092-01-052, 0197-02-108, and 0092-14-081)

Dear Dr. Robertson:

- Bill Jones
Austin
- Margaret Martin
Boerne
- S. Reed Morian
Houston
- Dick Scott
Wimberley
- Lee M. Bass
Chairman-Emeritus
Fort Worth

The Texas Parks and Wildlife Department (TPWD) has reviewed the Environmental Assessment (EA) for the project referenced above. The proposed project involves the western extension of US 175 on new location from east of Bexar Street to IH 45, improvements on IH 45 from south of Lamar Street to the existing US 175, and improvements on existing US 175 from IH 45 to north of Budd Street. Upon completion of construction, the section of existing US 175 north of the realigned US 175 would be downgraded from a six-lane freeway to a low speed, signalized six-lane urban arterial and would be removed from the state roadway system for City of Dallas control. The project would require 31.81 acres of additional right-of-way (ROW).

Carter P. Smith
Executive Director

Under section 12.0011 of the Texas Parks and Wildlife Code, TPWD is charged with "providing recommendations that will protect fish and wildlife resources to local, state, and federal agencies that approve, permit, license, or construct developmental projects" and "providing information on fish and wildlife resources to any local, state, and federal agencies or private organizations that make decisions affecting those resources." TPWD provides the following recommendations to minimize impact to fish and wildlife resources.

Mature Trees and Riparian Vegetation

Although the project area is highly urbanized, it is also located adjacent to the Great Trinity Forest, an approximately 7,000-acre area within the Trinity River floodplain that contains approximately 4,600 acres of relatively contiguous forest that is planned for parkland, recreation, ecosystem restoration, and flood control by the City of Dallas *Great Trinity Forest Master Plan*. The project would impact approximately 3.6 acres of riparian/bottomland forest located west of IH 45 and the Union Pacific Railroad embankment in an area designated for the Great

Trinity Forest. Of this area of impact, 1.25 acres have already been acquired by the City of Dallas for the Great Trinity Forest. In addition to 3.6 acres of riparian/bottomland forest impact within the Great Trinity Forest area, the project would impact 3.9 acres of more-fragmented riparian/bottomland forest habitat located east of IH 45 and Union Pacific Railroad embankment. An estimated 943 trees greater than six inches diameter-at-breast-height (dbh) would be removed in association with these impacts.

The EA evaluation of indirect impacts identifies the scattered remnants of high quality forest habitat as rare due to widespread urbanization within the Area of Influence (AOI) and that the highest quality bottomland/riparian forest in the AOI have been reestablished within the past 50 years and are located west of IH45. These stands are relatively contiguous and considered a sensitive resource, particularly where trees occur within the area outlined for the Great Trinity Forest. The future Great Trinity Forest Park is identified as a valued environmental component providing opportunities for outdoor recreation within the forests of the Trinity River floodplain.

The EA evaluation of cumulative impacts identifies that species abundance and diversity have declined due to urban expansion and past agricultural use and that species abundance and diversity would be expected to decline further as forested resources are replaced by urban developments. The cumulative impacts assessment indicates that 47 reasonable foreseeable actions would impact 139.3 acres of riparian/bottomland forest within the Resource Study Area (RSA) and that the project's proposed 7.5 acres of impact to riparian/bottomland forest would amount to 5.1 % of the 146.8 acres of cumulative impacts. The EA identifies the project impacts as not contributing to substantial cumulative impacts to the area's vegetation and habitat, but this is based on an assumption that there would be appropriate implementation of regulated avoidance, minimization and mitigation strategies for vegetation and habitat impacts on the reasonably foreseeable actions.

The EA indicates that the Texas Department of Transportation (TxDOT) expects mitigation to be provided for impacts to riparian/bottomland forest for the reasonably foreseeable actions, though TxDOT does not offer mitigation for such impacts associated with this current project. The EA indicates that preferred riparian/bottomland forest habitat would continue to be preserved by local, state, and federal agency policies and regulations that restrict development within floodplains, though TxDOT is not providing preservation of riparian/bottomland forest habitat within the Trinity River floodplain for this project or mitigation for the impacts.

The TxDOT-TPWD Memorandum of Agreement (MOA) for the finalization of the 1998 Memorandum of Understanding (MOU) concerning habitat descriptions and mitigation includes bottomland hardwood and riparian areas as habitat types

Dr. Stirling Robertson

Page 3

June 11, 2012

to be considered for non-regulatory mitigation during project planning. For this project, TxDOT has not offered non-regulatory compensatory mitigation for loss to riparian/bottomland forest habitat. Based on the sensitivity of the resource and the parkland, recreation, and ecosystem restoration value of the riparian/bottomland forest area being impacted, TPWD encourages TxDOT to provide compensatory mitigation for impacts to riparian/bottomland forest habitat for this project.

Recommendation: TPWD recommends that TxDOT provide mitigation to offset the loss of valuable riparian/bottomland forest habitat within the planned Great Trinity Forest. Mitigation should be directed toward enhancement or restoration of riparian/bottomland forest habitat within the Great Trinity Forest area.

Please be aware that a written response to a TPWD recommendation or informational comment received by a state governmental agency may be required by state law. For further guidance, see the Texas Parks and Wildlife Code, Section 12.0011, which can be found online at <http://www.statutes.legis.state.tx.us/Docs/PW/htm/PW.12.htm#12.0011>. For tracking purposes, please refer to TPWD Project Number ERCS-932 in any return correspondence regarding this project.

If you have any questions, please contact me at (903) 322-5001.

Sincerely,



Karen B. Hardin
Wildlife Habitat Assessment Program
Wildlife Division

kbh/ERCS-932



Texas Department of Transportation

P.O. BOX 133067 • DALLAS, TEXAS 75313-3067 • (214) 320-6100

July 5, 2012

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081
Environmental Assessment for SM Wright Project
Dallas County

Karen B. Hardin
Texas Parks and Wildlife Department
Wildlife Habitat Assessment Program
4200 Smith School Road
Austin, Texas 78744-3291

Dear Ms. Hardin:

Thank you for your comments and associated recommendation regarding the above referenced project. In response to the Texas Parks and Wildlife Department (TPWD) letter dated June 11, 2012, the Texas Department of Transportation (TxDOT) offers the following information and discussion for your use.

TPWD Recommendation: TPWD recommends that TxDOT provide mitigation to offset the loss of valuable riparian/bottomland forest habitat within the planned Great Trinity Forest. Mitigation should be directed toward enhancement or restoration of riparian/bottomland forest habitat within the Great Trinity Forest area.

TxDOT Response: The proposed project would impact approximately 3.6 acres of riparian/bottomland forest on the west side of IH 45. Of the 3.6 acres of riparian/bottomland forest, approximately 2.35 acres is located within existing TxDOT ROW and is subject to periodic mowing. The remaining 1.25 acres of riparian/bottomland forest is located within the planned Great Trinity Forest. The clearing of the trees within this area would be required to meet TxDOT roadway design standards for a buffer to prevent trees from interfering with the elevated structure (the IH 45 freeway). In addition, the clearing of these trees is to preserve access to the facility for future inspections and maintenance.

The 1.25 acres of riparian/bottomland forest within the planned Great Trinity Forest, is located on three parcels of land currently owned by the City of Dallas. Because portions of the planned Great Trinity Forest are located within the federally authorized Dallas Floodway Extension (DFE) project area, TxDOT must coordinate any mitigation (tree planting) with the City in order to ensure that floodway function is not disturbed. In response to the above TPWD recommendation, TxDOT will coordinate with appropriate City staff to determine if mitigation for impacts to 1.25 acres of riparian/bottomland habitat may be mitigated for within the planned Great Trinity Forest area. Should a mitigation location within the planned Great Trinity Forest area be identified, mitigation for the anticipated 1.25 acres of riparian/bottomland forest impacts would be completed at that location in accordance with *TxDOT Dallas District Standards for Woodlands Mitigation*.

C-5E

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Ms. Karen Hardin

- 2 -

July 3, 2012

If you have any questions regarding this project please contact Robert Hall, TxDOT Dallas District at 214-320-6157 or Robert.Hall@txdot.gov.

Sincerely,



H. Stan Hall, P.E.
District Advance Project
Development Engineer

Copy to: Stirling Robertson, TxDOT ENV
Ashley Oliver, Half Associates
C-5E, 0092-01-052, etc., 1-2 Response to TPWD-WH Cmts 07-03-12



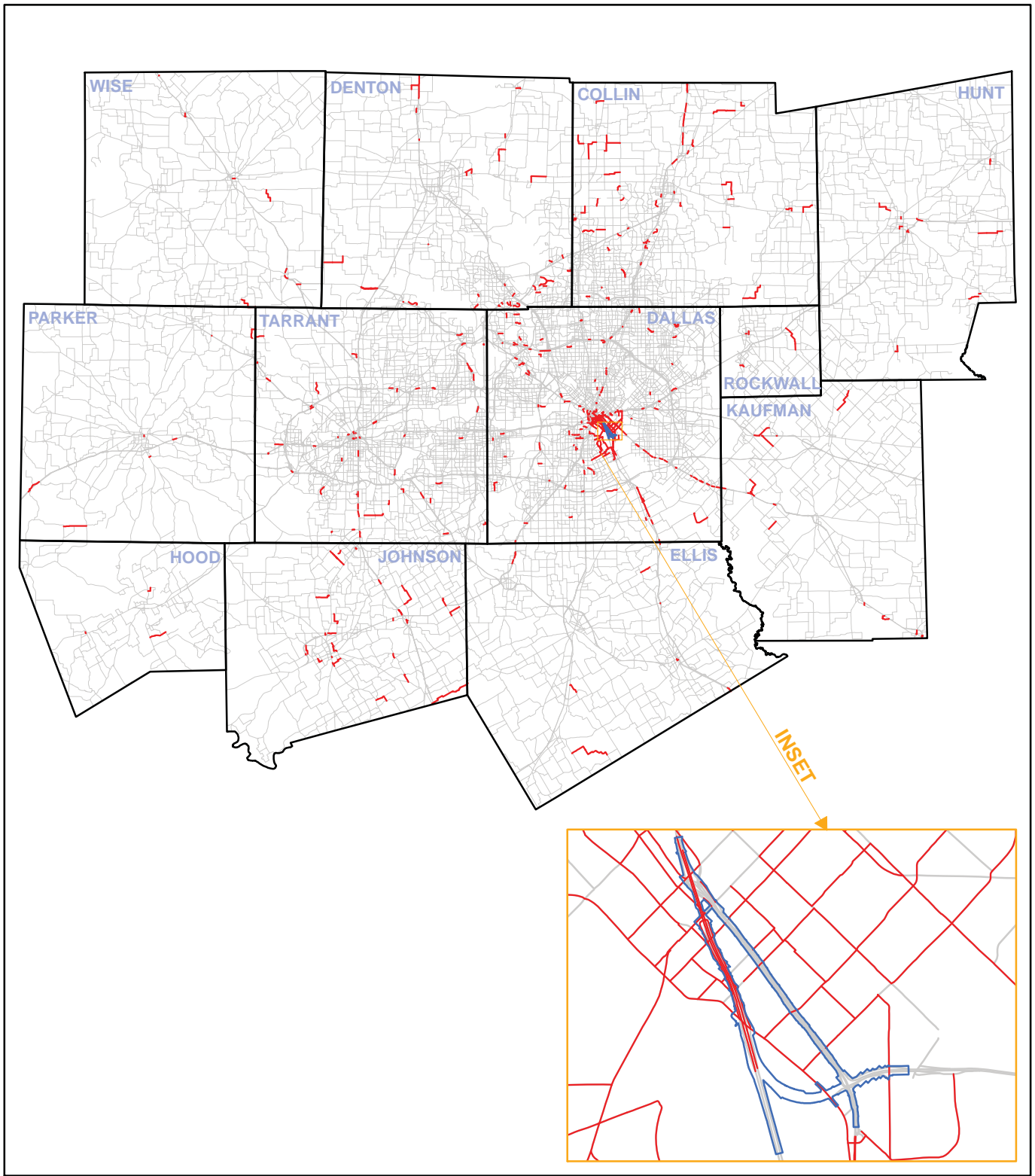
Texas Department of Transportation Dallas District Standards for Woodlands Mitigation

In accordance with the Memorandum of Understanding between TxDOT and the Texas Parks and Wildlife Department (TPWD), mitigation should be provided when TxDOT construction activities remove significant amounts of riparian woodlands or other natural plant communities. The following information shall be used to develop mitigation plans for loss of woody vegetation. Ordinarily, mitigation plans shall replace lost vegetation on an acre-per-acre basis (i.e., one acre replanted for each acre removed), not on a plant-per-plant basis. The exact species composition given in the table below may be adjusted due to commercial availability or site specifics; however, the total number of plants shall remain at 30 large trees and 60 small trees/shrubs per acre (90 plants per acre). Only those plants listed below shall be used, unless approved by Dallas Advance Project Development (and TPWD).

Species	Spacing	Quantity	Remarks
Large Trees			
Bur Oak (<i>Quercus macrocarpa</i>)	30-35 ft. o.c.	10 per acre	
Chinkapin Oak (<i>Quercus muehlenbergii</i>)	30-35 ft. o.c.	5 per acre	
Shumard Red Oak (<i>Quercus shumardii</i>)	30-35 ft. o.c.	5 per acre	Check branching structure to avoid Pin Oak hybrids.
Pecan (<i>Carya illinoensis</i>)	30-35 ft. o.c.	10 per acre	Use native variety if available. Plant B&B trees from Jan.15 to Mar.15, containerized from Sep.15 to Apr.15.
Small Trees/Shrubs			
Possumhaw Holly (<i>Illex decidua</i>)	15-20 ft. o.c.	12 per acre	Specify female plants (3:1).
Mexican Plum (<i>Prunus mexicana</i>)	15-20 ft. o.c.	12 per acre	
Common Persimmon (<i>Diospyros virginiana</i>)	15-20 ft. o.c.	12 per acre	Specify female plants (3:1).
Carolina Buckthorn (<i>Rhamnus caroliniana</i>)	15-20 ft. o.c.	12 per acre	
Flameleaf Sumac (<i>Rhus lanceolata</i> or <i>Rhus copallina</i>)	15-20 ft. o.c.	12 per acre	Specify female plants (3:1).

Large trees shall be 1½” to 2” caliper at planting; small trees and shrubs shall be 6’ to 8’ in height at planting. Standard TxDOT planting details shall be used. A maintenance period lasting at least one full growing season shall be specified for all mitigation plantings. Maintenance shall include: supplemental watering of all plants; maintaining an 8” layer of mulch on all plantings; replacement of all dead plants at the end of the maintenance period. Whenever possible, planting should be scheduled during the fall of the year to improve the survival rate. Additional information is available through Dallas District landscape architect.

APPENDIX C
ADDITIONAL RESOURCES/ISSUES
(AIR QUALITY, COMMUNITY IMPACTS, CULTURAL RESOURCES, AND NOISE)



Legend

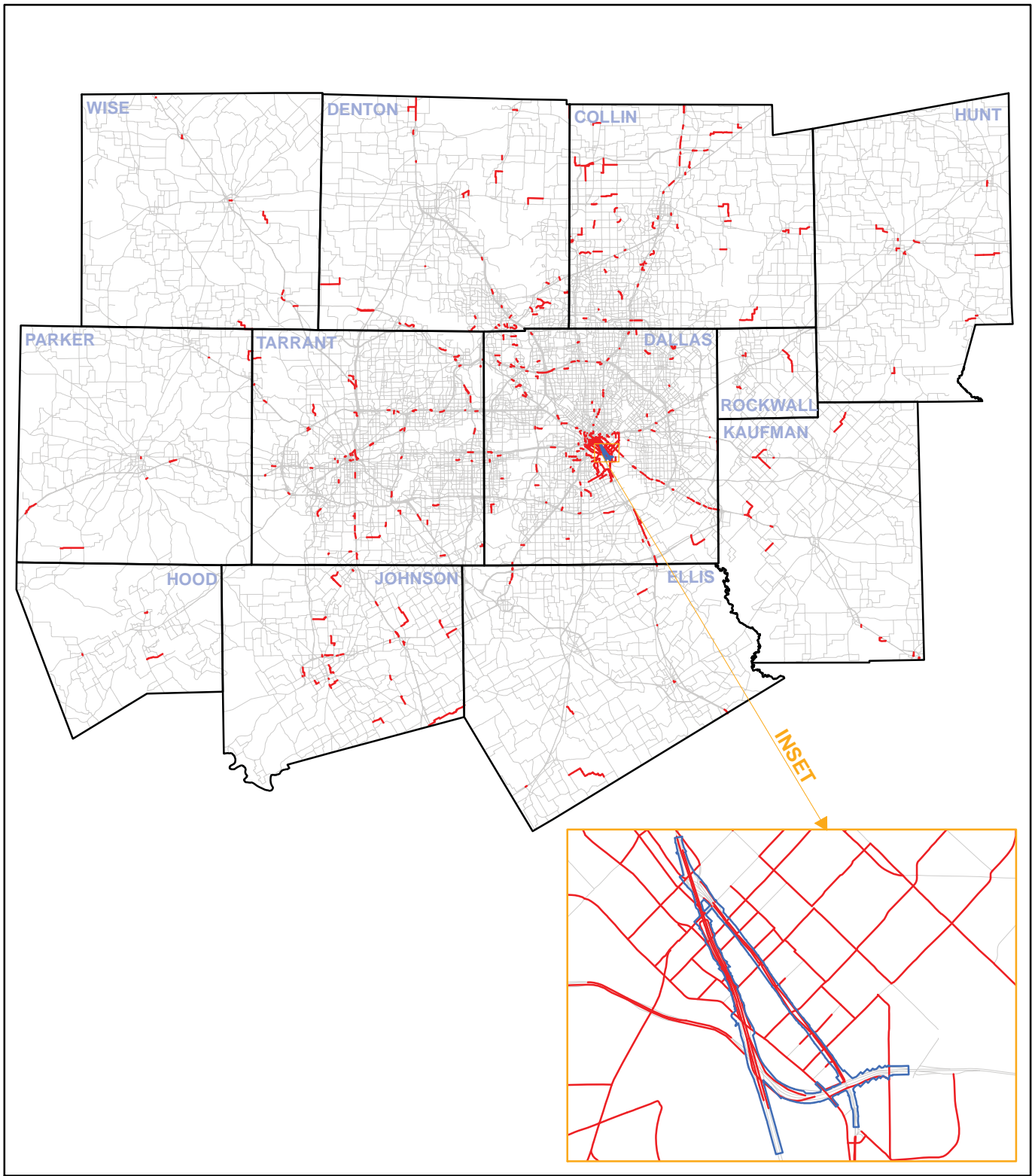
- Year 2012 Affected Transportation Network
- Project Right of Way
- 2035 MPA Boundary (12 Counties)

Data Source: NCTCOG, 2011

0 5 10
Miles

Year 2012 MSAT Affected Transportation Network

SM Wright Project
Dallas, Texas



Legend

- Year 2035 Affected Transportation Network
- Project Right of Way
- 2035 MPA Boundary (12 Counties)

Data Source: NCTCOG, 2011

0 5 10
Miles

Year 2035 MSAT Affected Transportation Network

SM Wright Project
Dallas, Texas



Legend

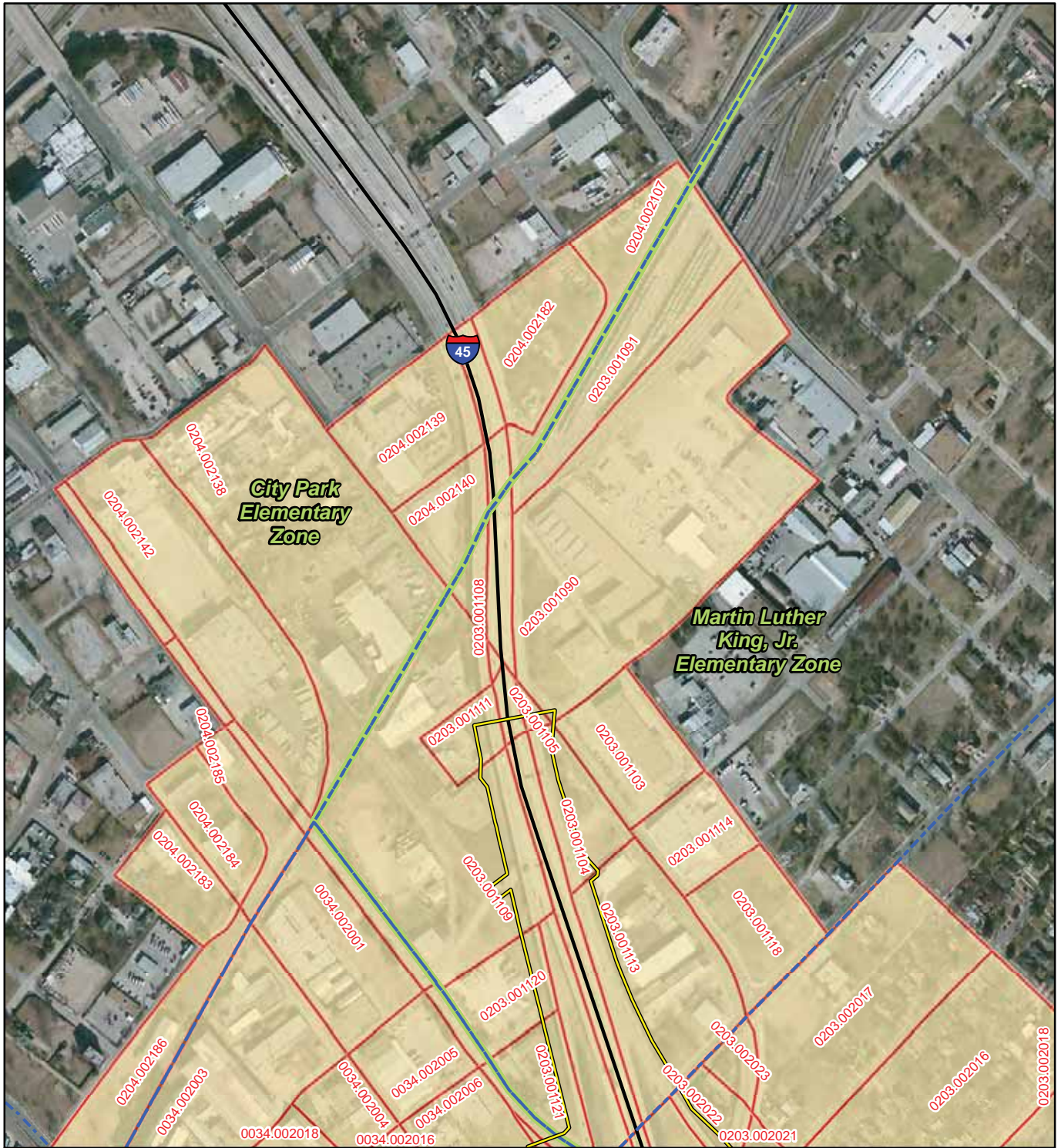
- Project Right of Way
- Tax Increment Financing District
- Neighborhood Investment Program Area

0 1,250 2,500
Feet

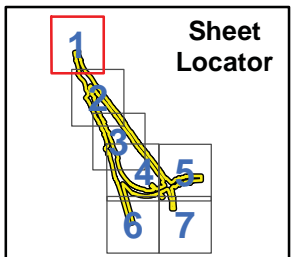
Source/Year of Aerial Photograph: Landiscor/2011

**South Dallas Neighborhoods
within the Proposed Project Area**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 1** 0 500 1,000 Feet



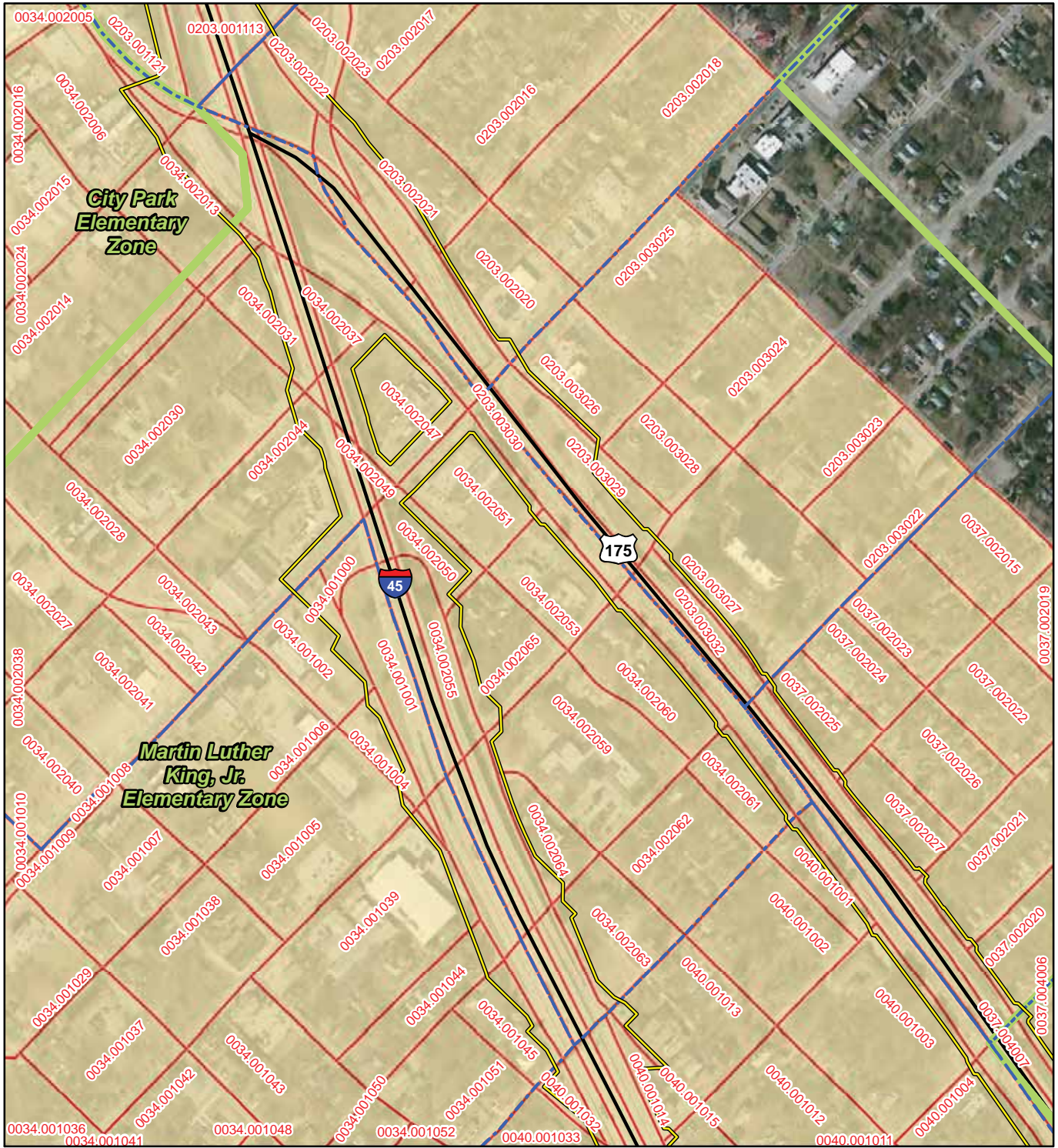
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- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

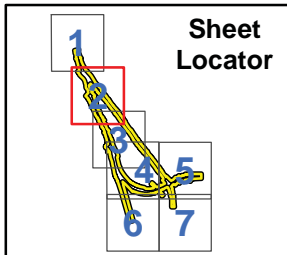
Census Geography Year: 2010

**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 2** 0 500 1,000 Feet



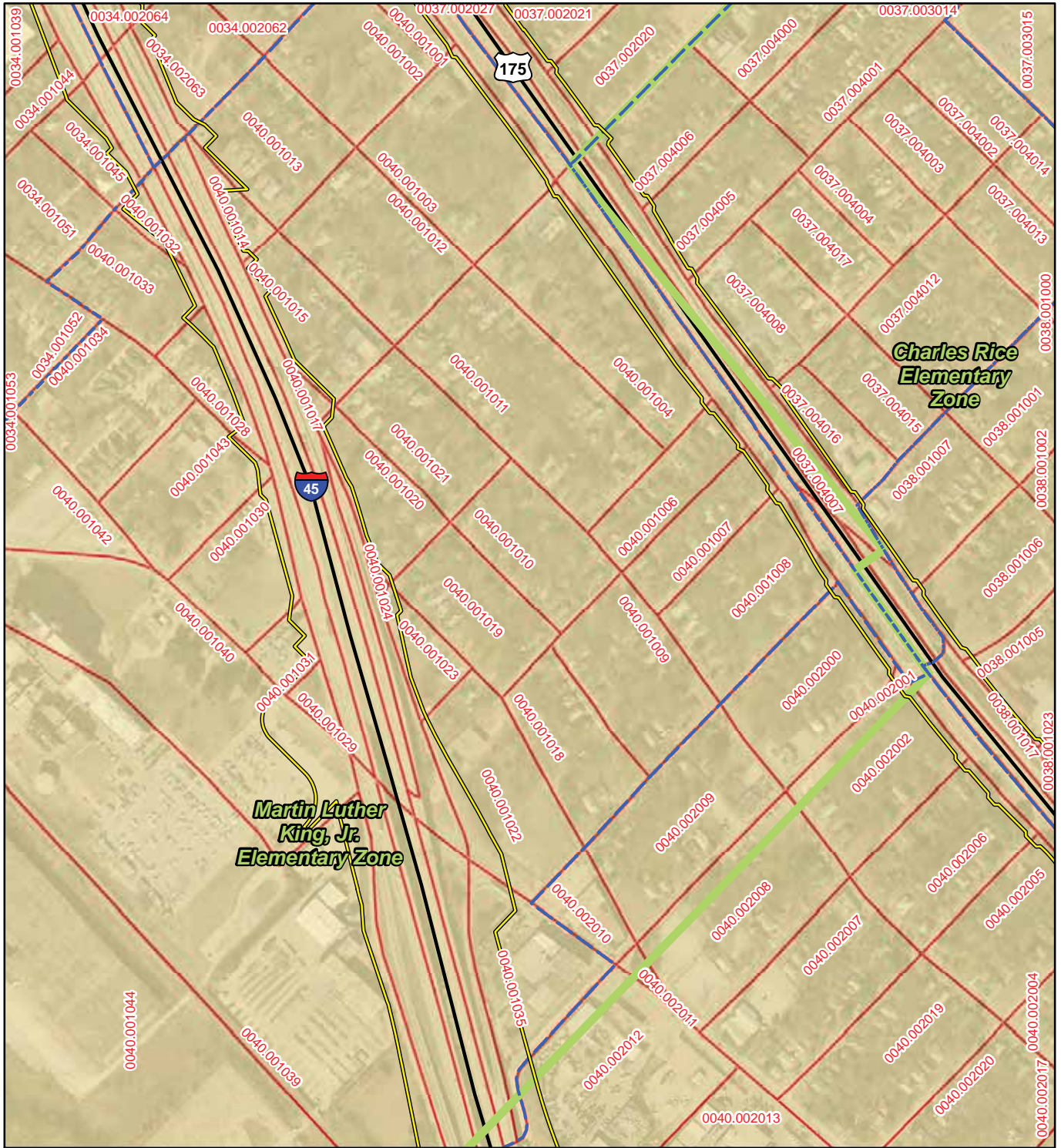
Legend

- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

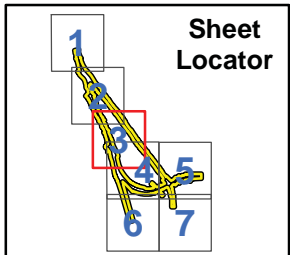
Census Geography Year: 2010

**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 3** 0 500 1,000 Feet



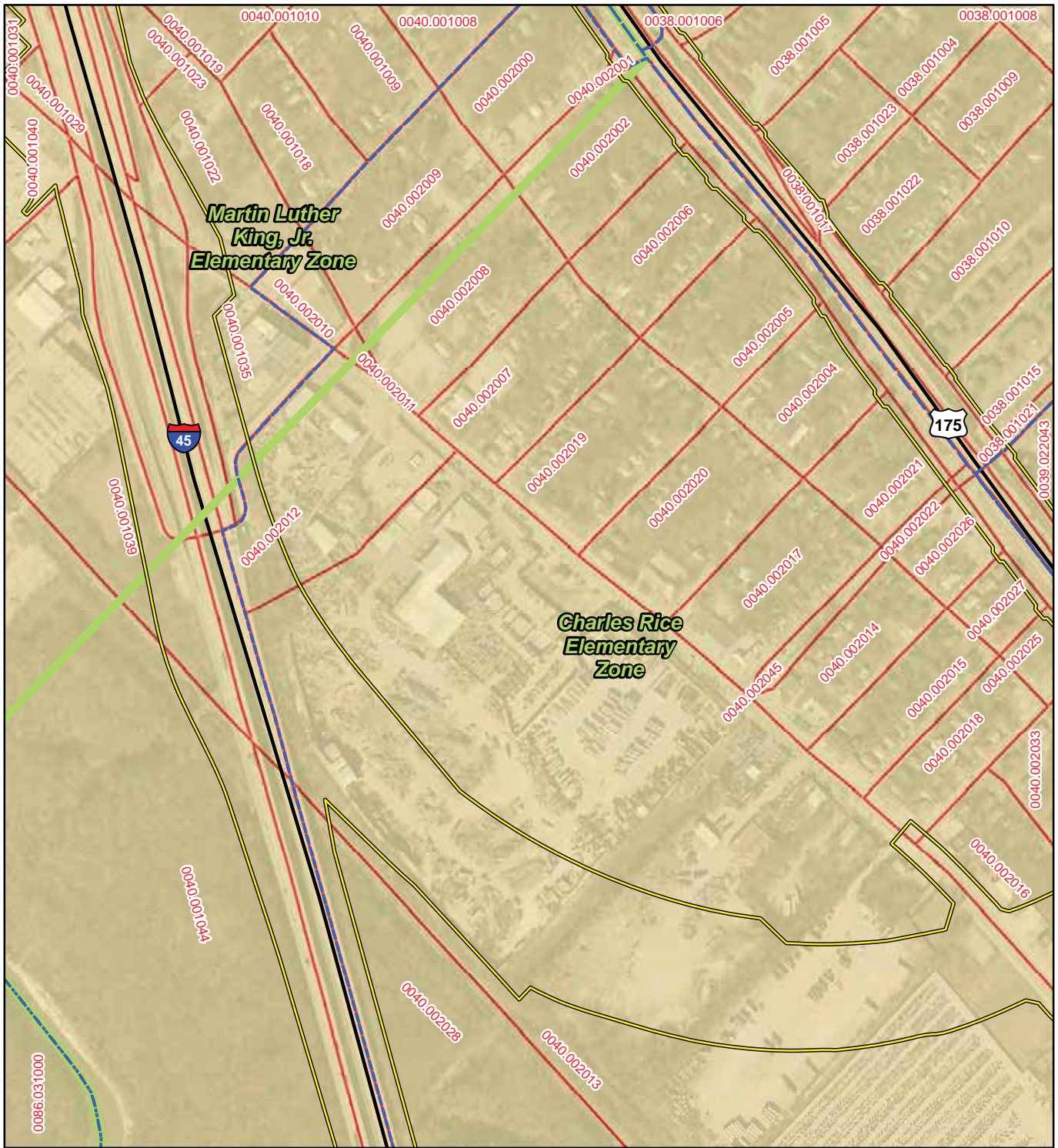
Legend

- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

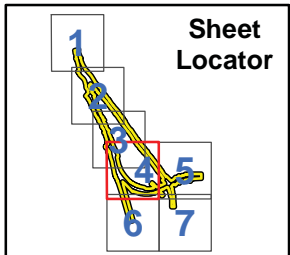
Census Geography Year: 2010

**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 4** 0 500 1,000 Feet



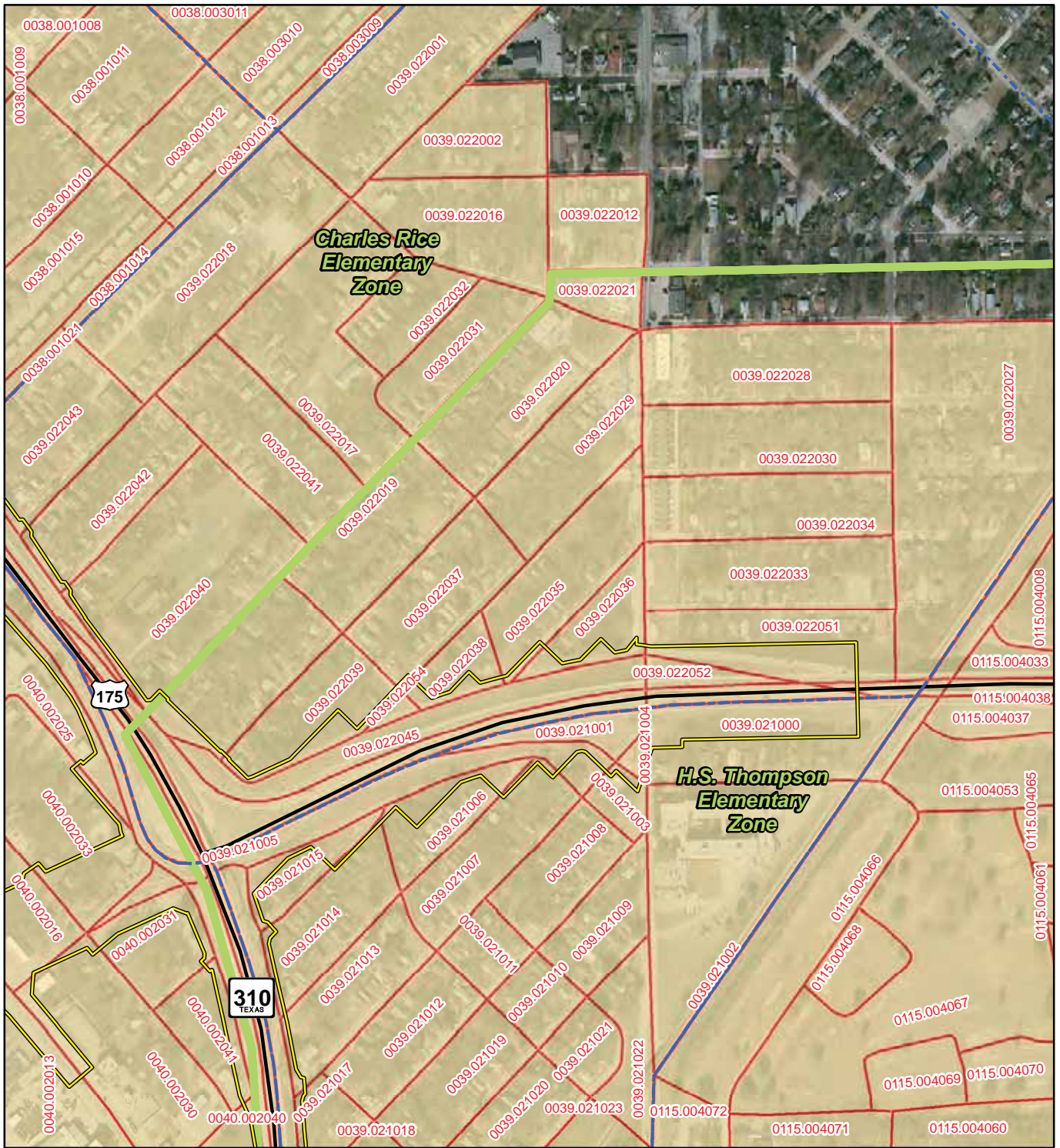
Legend

- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

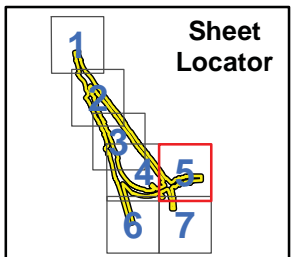
Census Geography Year: 2010

**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 5** 0 500 1,000 Feet



Legend

- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

Census Geography Year: 2010

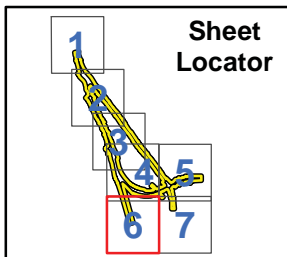
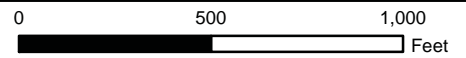
**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011

SHEET #: 6



Legend

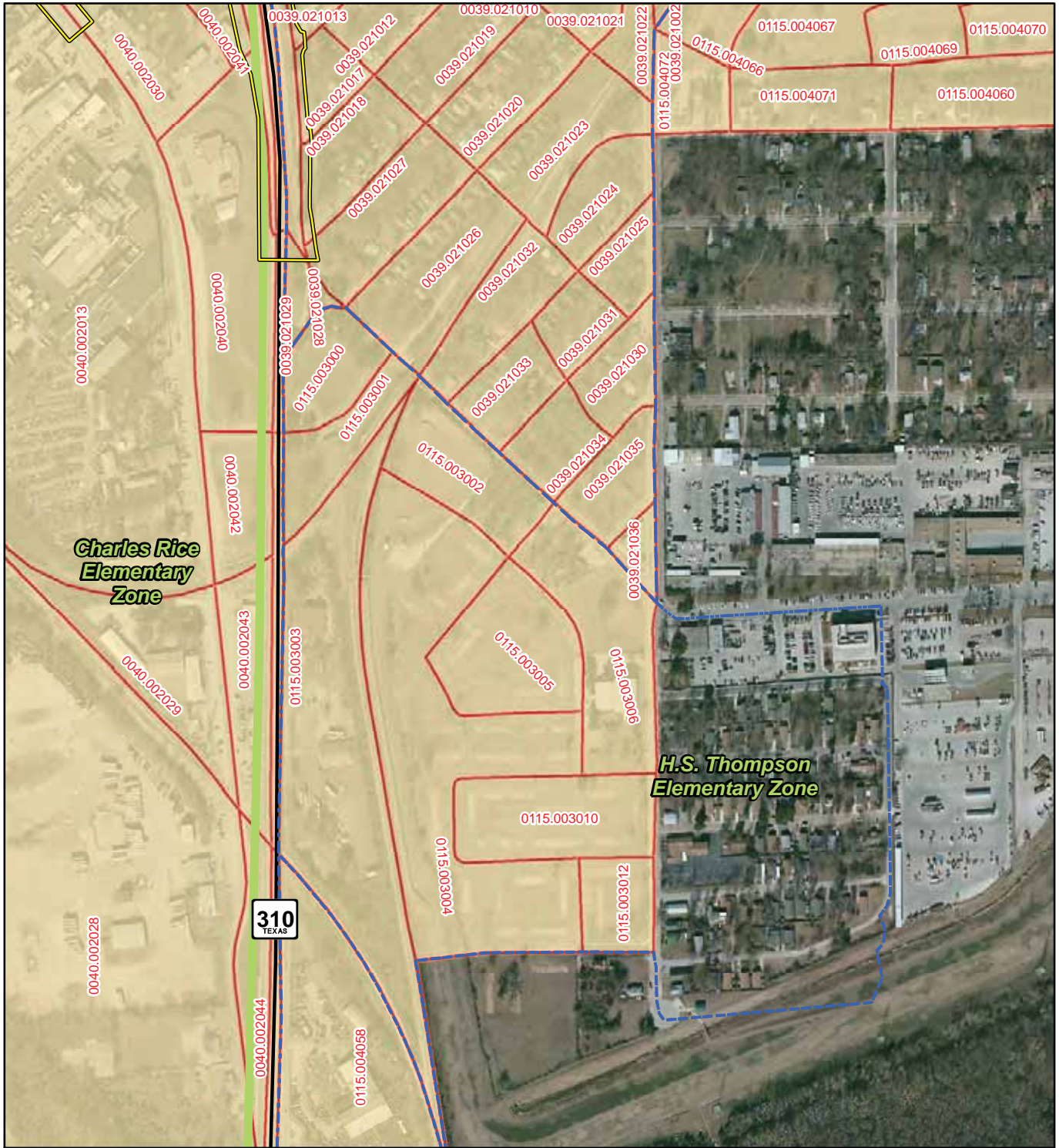
- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

Census Geography Year: 2010

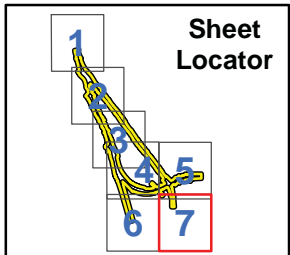


Census Block Map with School Attendance Zones

SM Wright Project
Dallas, Texas



Source/Year: NCTCOG/2011 **SHEET #: 7** 0 500 1,000 Feet



Legend

- Project Right of Way
- Census Block
- Census Block Group
- School Attendance Zones
- Major Freeway

Census Geography Year: 2010

**Census Block Map with
School Attendance Zones**

SM Wright Project
Dallas, Texas

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
34		1146	12%	72%	1%	0%	0%	0%	1%	14%	1006	88%	22,390	45%
34/ 1		562	3%	78%	0%	0%	0%	0%	1%	18%	546	97%	20,184	36%
	1000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1001	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1002	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1003	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1004	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1005	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%	--	--
	1006	29	0%	59%	0%	0%	0%	0%	0%	41%	29	100%	--	--
	1007	6	17%	83%	0%	0%	0%	0%	0%	0%	5	83%	--	--
	1008	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1009	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1010	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1029	9	0%	44%	0%	0%	0%	0%	0%	56%	9	100%	--	--
	1030	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1036	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%	--	--
	1037	85	0%	78%	1%	0%	0%	0%	2%	19%	85	100%	--	--
	1038	33	0%	45%	0%	0%	0%	0%	0%	55%	33	100%	--	--
	1039	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%	--	--
	1040	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1041	8	0%	100%	0%	0%	0%	0%	0%	0%	8	100%	--	--
	1042	32	0%	94%	0%	0%	0%	0%	3%	3%	32	100%	--	--
	1043	41	10%	56%	0%	0%	0%	0%	0%	34%	37	90%	--	--
	1044	34	0%	100%	0%	0%	0%	0%	0%	0%	34	100%	--	--
	1045	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%	--	--
	1046	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1047	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	1048	15	0%	93%	0%	0%	0%	7%	0%	0%	15	100%	--	--
	1049	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%	--	--
	1050	18	0%	89%	0%	0%	0%	0%	0%	11%	18	100%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	1051	21	14%	48%	0%	0%	0%	0%	0%	38%	18	86%	--	--
	1052	51	2%	67%	0%	0%	0%	0%	2%	29%	50	98%	--	--
	1053	21	0%	81%	0%	0%	0%	0%	0%	19%	21	100%	--	--
	1054	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1055	3	0%	0%	0%	0%	0%	0%	0%	100%	3	100%	--	--
34/ 2		584	21%	66%	1%	0%	0%	0%	1%	11%	460	79%	30,682	30%
	2000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2001	37	68%	22%	0%	0%	0%	0%	3%	8%	12	32%	--	--
	2002	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2003	85	61%	20%	1%	0%	0%	0%	5%	13%	33	39%	--	--
	2004	12	33%	8%	0%	0%	0%	0%	0%	58%	8	67%	--	--
	2005	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2006	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	2007	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2008	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2009	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2010	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2011	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2012	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2013	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2014	55	2%	98%	0%	0%	0%	0%	0%	0%	54	98%	--	--
	2015	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2016	2	100%	0%	0%	0%	0%	0%	0%	0%	0	0%	--	--
	2017	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2018	19	79%	11%	0%	0%	0%	0%	0%	11%	4	21%	--	--
	2019	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2020	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2023	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2024	14	21%	79%	0%	0%	0%	0%	0%	0%	11	79%	--	--
	2025	0	0	0	0	0	0	0	0	0	0	0%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2026	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2027	52	13%	81%	6%	0%	0%	0%	0%	0%	45	87%	--	--
	2028	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%	--	--
	2029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2030	88	6%	80%	0%	0%	0%	0%	0%	15%	83	94%	--	--
	2031	4	25%	75%	0%	0%	0%	0%	0%	0%	3	75%	--	--
	2032	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2033	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2034	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2035	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2036	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2037	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2038	28	0%	93%	0%	0%	0%	0%	0%	7%	28	100%	--	--
	2039	40	0%	75%	5%	0%	0%	0%	0%	20%	40	100%	--	--
	2040	5	0%	100%	0%	0%	0%	0%	0%	0%	5	100%	--	--
	2041	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%	--	--
	2042	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2043	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2044	9	11%	89%	0%	0%	0%	0%	0%	0%	8	89%	--	--
	2045	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2046	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2047	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2048	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2049	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2050	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2051	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2052	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2053	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	2054	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2055	0	0	0	0	0	0	0	0	0	0	0%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2056	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2057	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2058	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2059	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2060	23	0%	70%	0%	0%	0%	0%	0%	30%	23	100%	--	--
	2061	5	0%	80%	0%	20%	0%	0%	0%	0%	5	100%	--	--
	2062	44	0%	100%	0%	0%	0%	0%	0%	0%	44	100%	--	--
	2063	10	40%	50%	0%	0%	0%	0%	0%	10%	6	60%	--	--
	2064	12	8%	67%	0%	0%	0%	0%	0%	25%	11	92%	--	--
	2065	4	0%	25%	0%	0%	0%	0%	0%	75%	4	100%	--	--
	2066	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2067	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2068	0	0	0	0	0	0	0	0	0	0	0%	--	--
37		3048	1%	90%	0%	0%	0%	0%	1%	7%	3009	99%	21,233	34%
37/ 2		736	2%	93%	0%	0%	0%	0%	1%	5%	720	98%	17,745	38%
	2015	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%	--	--
	2018	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2019	33	6%	85%	0%	0%	0%	0%	6%	3%	31	94%	--	--
	2020	32	6%	81%	0%	0%	0%	0%	0%	13%	30	94%	--	--
	2021	79	3%	96%	0%	0%	0%	0%	1%	0%	77	97%	--	--
	2022	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%	--	--
	2023	19	5%	95%	0%	0%	0%	0%	0%	0%	18	95%	--	--
	2024	20	0%	80%	0%	0%	0%	0%	0%	20%	20	100%	--	--
	2025	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%	--	--
	2026	52	6%	92%	0%	0%	0%	0%	0%	2%	49	94%	--	--
	2027	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	2028	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2029	0	0	0	0	0	0	0	0	0	0	0%	--	--
37/ 3		840	2%	86%	1%	0%	0%	0%	1%	11%	827	98%	27,212	24%
	3014	24	0%	67%	0%	0%	0%	0%	4%	29%	24	100%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	3015	26	0%	96%	0%	0%	0%	0%	4%	0%	26	100%	--	--
37/ 4		466	1%	92%	0%	0%	0%	0%	2%	6%	463	99%	17,782	49%
	4000	30	3%	93%	0%	0%	0%	0%	3%	0%	29	97%	--	--
	4001	64	0%	100%	0%	0%	0%	0%	0%	0%	64	100%	--	--
	4002	40	3%	98%	0%	0%	0%	0%	0%	0%	39	98%	--	--
	4003	36	0%	94%	0%	0%	0%	0%	0%	6%	36	100%	--	--
	4004	13	0%	100%	0%	0%	0%	0%	0%	0%	13	100%	--	--
	4005	97	1%	86%	0%	0%	0%	0%	0%	13%	96	99%	--	--
	4006	24	0%	100%	0%	0%	0%	0%	0%	0%	24	100%	--	--
	4007	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4008	14	0%	93%	0%	0%	0%	0%	0%	7%	14	100%	--	--
	4009	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4010	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4011	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4012	30	0%	93%	0%	0%	0%	0%	0%	7%	30	100%	--	--
	4013	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%	--	--
	4014	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%	--	--
	4015	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%	--	--
	4016	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%	--	--
	4017	37	0%	57%	0%	0%	0%	0%	16%	27%	37	100%	--	--
38		1956	1%	94%	0%	0%	0%	0%	1%	4%	1938	99%	18,344	35%
38/ 1		531	1%	96%	0%	0%	0%	0%	0%	2%	524	99%	16,821	36%
	1000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1001	19	0%	100%	0%	0%	0%	0%	0%	0%	19	100%	--	--
	1002	39	0%	100%	0%	0%	0%	0%	0%	0%	39	100%	--	--
	1003	30	0%	100%	0%	0%	0%	0%	0%	0%	30	100%	--	--
	1004	18	0%	100%	0%	0%	0%	0%	0%	0%	18	100%	--	--
	1005	40	0%	100%	0%	0%	0%	0%	0%	0%	40	100%	--	--
	1006	38	0%	79%	0%	0%	0%	0%	0%	21%	38	100%	--	--
	1007	16	0%	100%	0%	0%	0%	0%	0%	0%	16	100%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	1008	28	4%	93%	0%	0%	0%	0%	0%	4%	27	96%	--	--
	1009	28	0%	96%	4%	0%	0%	0%	0%	0%	28	100%	--	--
	1010	38	0%	97%	3%	0%	0%	0%	0%	0%	38	100%	--	--
	1011	38	0%	100%	0%	0%	0%	0%	0%	0%	38	100%	--	--
	1012	32	0%	100%	0%	0%	0%	0%	0%	0%	32	100%	--	--
	1013	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1014	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1015	107	3%	93%	0%	0%	1%	0%	1%	3%	104	97%	--	--
	1016	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1017	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1018	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1019	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1020	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1021	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1022	42	7%	93%	0%	0%	0%	0%	0%	0%	39	93%	--	--
	1023	18	0%	100%	0%	0%	0%	0%	0%	0%	18	100%	--	--
38/ 3	--	593	1%	94%	0%	0%	0%	0%	2%	4%	590	99%	11,406	44%
	3002	91	0%	91%	0%	1%	0%	0%	2%	5%	91	100%	--	--
	3009	4	0%	75%	0%	0%	0%	0%	25%	0%	4	100%	--	--
	3010	46	0%	89%	0%	0%	0%	0%	4%	7%	46	100%	--	--
	3011	56	0%	91%	0%	0%	0%	0%	0%	9%	56	100%	--	--
	3012	94	0%	100%	0%	0%	0%	0%	0%	0%	94	100%	--	--
	3013	83	0%	92%	0%	0%	0%	0%	2%	6%	83	100%	--	--
	3014	63	0%	97%	0%	0%	0%	0%	0%	3%	63	100%	--	--
39.02		1860	1%	73%	0%	0%	0%	0%	1%	24%	1838	99%	21,536	38%
39.02/ 1		452	2%	62%	0%	0%	0%	0%	2%	35%	445	98%	17,464	29%
	1000	22	0%	68%	0%	0%	0%	0%	0%	32%	22	100%	--	--
	1001	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1002	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1003	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	1004	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1005	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--
	1006	45	0%	4%	0%	0%	0%	0%	0%	96%	45	100%	--	--
	1007	41	0%	85%	0%	0%	0%	0%	0%	15%	41	100%	--	--
	1008	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%	--	--
	1009	20	0%	100%	0%	0%	0%	0%	0%	0%	20	100%	--	--
	1010	11	0%	73%	0%	0%	0%	0%	0%	27%	11	100%	--	--
	1011	9	11%	67%	0%	0%	0%	0%	0%	22%	8	89%	--	--
	1012	36	0%	78%	0%	0%	0%	0%	0%	22%	36	100%	--	--
	1013	28	0%	75%	0%	0%	0%	0%	0%	25%	28	100%	--	--
	1014	31	0%	77%	0%	0%	0%	0%	0%	23%	31	100%	--	--
	1015	7	0%	0%	0%	0%	0%	0%	0%	100%	7	100%	--	--
	1016	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1017	6	0%	50%	0%	0%	0%	0%	0%	50%	6	100%	--	--
	1018	25	0%	52%	0%	0%	0%	0%	24%	24%	25	100%	--	--
	1019	26	0%	31%	0%	0%	0%	0%	0%	69%	26	100%	--	--
	1020	26	0%	92%	0%	0%	0%	0%	0%	8%	26	100%	--	--
	1021	12	8%	42%	0%	0%	0%	0%	0%	50%	11	92%	--	--
	1022	1	100%	0%	0%	0%	0%	0%	0%	0%	0	0%	--	--
	1023	9	0%	22%	0%	0%	0%	0%	0%	78%	9	100%	--	--
	1024	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1025	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	1026	21	0%	29%	0%	0%	0%	0%	5%	67%	21	100%	--	--
	1027	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%	--	--
	1028	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1030	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%	--	--
	1031	22	18%	36%	0%	0%	0%	0%	0%	45%	18	82%	--	--
	1032	9	0%	67%	0%	0%	0%	0%	0%	33%	9	100%	--	--
	1033	7	0%	100%	0%	0%	0%	0%	0%	0%	7	100%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	1034	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1035	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1036	0	0	0	0	0	0	0	0	0	0	0%	--	--
39.02/ 2		1408	1%	77%	0%	0%	0%	0%	1%	21%	1393	99%	21,942	31%
	2001	92	0%	99%	0%	0%	0%	0%	0%	1%	92	100%	--	--
	2002	7	0%	100%	0%	0%	0%	0%	0%	0%	7	100%	--	--
	2012	13	0%	100%	0%	0%	0%	0%	0%	0%	13	100%	--	--
	2016	29	0%	79%	0%	0%	0%	0%	0%	21%	29	100%	--	--
	2017	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%	--	--
	2018	46	0%	100%	0%	0%	0%	0%	0%	0%	46	100%	--	--
	2019	67	0%	73%	0%	0%	0%	0%	0%	27%	67	100%	--	--
	2020	29	0%	79%	0%	0%	0%	0%	0%	21%	29	100%	--	--
	2021	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2027	113	2%	85%	1%	0%	0%	2%	1%	10%	111	98%	--	--
	2028	43	0%	91%	0%	0%	0%	0%	0%	9%	43	100%	--	--
	2029	20	0%	60%	0%	0%	0%	0%	0%	40%	20	100%	--	--
	2030	65	0%	77%	0%	0%	0%	0%	0%	23%	65	100%	--	--
	2031	40	0%	63%	0%	0%	0%	0%	3%	35%	40	100%	--	--
	2032	8	0%	38%	0%	0%	0%	0%	0%	63%	8	100%	--	--
	2033	19	5%	95%	0%	0%	0%	0%	0%	0%	18	95%	--	--
	2034	39	0%	51%	0%	0%	0%	0%	0%	49%	39	100%	--	--
	2035	15	0%	100%	0%	0%	0%	0%	0%	0%	15	100%	--	--
	2036	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--
	2037	43	0%	53%	0%	0%	0%	0%	0%	47%	43	100%	--	--
	2038	5	0%	80%	0%	0%	0%	0%	20%	0%	5	100%	--	--
	2039	16	19%	75%	0%	0%	0%	0%	0%	6%	13	81%	--	--
	2040	83	2%	64%	0%	0%	0%	0%	0%	34%	81	98%	--	--
	2041	45	2%	89%	0%	0%	0%	0%	0%	9%	44	98%	--	--
	2042	51	4%	73%	0%	0%	0%	0%	2%	22%	49	96%	--	--
	2043	29	0%	93%	0%	0%	0%	0%	0%	7%	29	100%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2044	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2045	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2046	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2047	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2048	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2049	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2050	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2051	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%	--	--
	2052	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2053	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2054	0	0	0	0	0	0	0	0	0	0	0%	--	--
40		1082	1%	87%	0%	0%	0%	0%	1%	11%	1075	99%	22,102	27%
40/ 1		636	1%	92%	0%	0%	0%	0%	0%	8%	631	99%	19,542	30%
	1000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1001	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%	--	--
	1002	16	0%	69%	0%	0%	0%	0%	0%	31%	16	100%	--	--
	1003	45	0%	96%	0%	0%	0%	0%	0%	4%	45	100%	--	--
	1004	38	0%	97%	0%	0%	0%	0%	0%	3%	38	100%	--	--
	1005	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1006	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%	--	--
	1007	27	4%	74%	0%	0%	0%	0%	0%	22%	26	96%	--	--
	1008	29	0%	100%	0%	0%	0%	0%	0%	0%	29	100%	--	--
	1009	27	0%	100%	0%	0%	0%	0%	0%	0%	27	100%	--	--
	1010	19	0%	89%	0%	0%	0%	0%	0%	11%	19	100%	--	--
	1011	68	3%	96%	0%	0%	0%	0%	0%	1%	66	97%	--	--
	1012	35	0%	89%	0%	0%	0%	0%	0%	11%	35	100%	--	--
	1013	59	0%	97%	0%	0%	0%	0%	0%	3%	59	100%	--	--
	1014	25	4%	96%	0%	0%	0%	0%	0%	0%	24	96%	--	--
	1015	15	0%	87%	0%	0%	0%	0%	0%	13%	15	100%	--	--
	1016	0	0	0	0	0	0	0	0	0	0	0%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	1017	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1018	33	0%	100%	0%	0%	0%	0%	0%	0%	33	100%	--	--
	1019	22	0%	100%	0%	0%	0%	0%	0%	0%	22	100%	--	--
	1020	12	0%	100%	0%	0%	0%	0%	0%	0%	12	100%	--	--
	1021	39	3%	82%	0%	0%	0%	0%	0%	15%	38	97%	--	--
	1022	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1023	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1024	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1025	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1026	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1027	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1028	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%	--	--
	1029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1030	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%	--	--
	1031	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1032	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1033	13	0%	85%	0%	0%	0%	0%	0%	15%	13	100%	--	--
	1034	62	0%	77%	0%	0%	0%	0%	0%	23%	62	100%	--	--
	1035	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1036	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1037	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1038	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1039	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1040	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1041	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1042	4	0%	100%	0%	0%	0%	0%	0%	0%	4	100%	--	--
	1043	14	0%	86%	0%	0%	0%	0%	0%	14%	14	100%	--	--
	1044	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1045	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1046	0	0	0	0	0	0	0	0	0	0	0%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
40/ 2	--	446	0%	80%	1%	0%	0%	0%	2%	16%	444	100%	38,542	10%
	2000	27	4%	59%	4%	0%	0%	0%	15%	19%	26	96%	--	--
	2001	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2002	21	0%	95%	0%	0%	0%	0%	0%	5%	21	100%	--	--
	2003	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2004	36	0%	86%	0%	0%	0%	0%	0%	14%	36	100%	--	--
	2005	32	0%	78%	0%	0%	0%	0%	0%	22%	32	100%	--	--
	2006	24	0%	100%	0%	0%	0%	0%	0%	0%	24	100%	--	--
	2007	38	0%	68%	3%	0%	0%	0%	3%	26%	38	100%	--	--
	2008	28	0%	93%	0%	0%	0%	0%	0%	7%	28	100%	--	--
	2009	34	0%	91%	0%	0%	0%	0%	0%	9%	34	100%	--	--
	2010	5	0%	0%	0%	0%	0%	0%	0%	100%	5	100%	--	--
	2011	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2012	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2013	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2014	20	0%	95%	0%	0%	0%	0%	0%	5%	20	100%	--	--
	2015	17	0%	100%	0%	0%	0%	0%	0%	0%	17	100%	--	--
	2016	6	0%	50%	0%	0%	0%	0%	50%	0%	6	100%	--	--
	2017	15	7%	87%	7%	0%	0%	0%	0%	0%	14	93%	--	--
	2018	25	0%	64%	0%	0%	0%	0%	0%	36%	25	100%	--	--
	2019	39	0%	77%	0%	0%	0%	3%	0%	21%	39	100%	--	--
	2020	21	0%	71%	0%	0%	0%	0%	0%	29%	21	100%	--	--
	2021	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%	--	--
	2022	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2023	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2024	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2025	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	2026	1	0%	0%	0%	0%	0%	0%	0%	100%	1	100%	--	--
	2027	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%	--	--
	2028	0	0	0	0	0	0	0	0	0	0	0%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2030	14	0%	64%	0%	0%	0%	0%	0%	36%	14	100%	--	--
	2031	3	0%	100%	0%	0%	0%	0%	0%	0%	3	100%	--	--
	2032	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2033	9	0%	33%	0%	0%	0%	0%	11%	56%	9	100%	--	--
	2034	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2035	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2036	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2037	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2038	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2039	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2040	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2041	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--
	2042	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2043	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2044	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2045	11	0%	100%	0%	0%	0%	0%	0%	0%	11	100%	--	--
86.03		1237	2%	60%	0%	0%	0%	0%	1%	36%	1214	98%	30,968	33%
86.03/ 1		764	2%	85%	0%	0%	0%	0%	2%	11%	752	98%	21,797	43%
	1000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1005	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1006	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1007	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--
	1008	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1020	0	0	0	0	0	0	0	0	0	0	0%	--	--
115		3185	1%	31%	0%	0%	0%	0%	0%	67%	3155	99%	16,719	62%
115/ 3		262	1%	31%	0%	0%	0%	0%	0%	68%	260	99%	19,118	47%
	3000	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3001	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3002	0	0	0	0	0	0	0	0	0	0	0%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	3003	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3004	2	0%	100%	0%	0%	0%	0%	0%	0%	2	100%	--	--
	3005	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3006	6	0%	0%	0%	0%	0%	0%	0%	100%	6	100%	--	--
	3010	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3012	0	0	0	0	0	0	0	0	0	0	0%	--	--
115/ 4		827	1%	48%	0%	0%	0%	0%	1%	49%	820	99%	25,054	56%
	4008	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4009	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4032	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4033	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4035	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4036	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4037	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4038	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4053	23	0%	87%	0%	0%	0%	0%	0%	13%	23	100%	--	--
	4058	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4059	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4060	31	0%	45%	0%	0%	0%	0%	0%	55%	31	100%	--	--
	4061	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4062	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4064	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4065	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4066	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4067	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4068	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4069	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4070	0	0	0	0	0	0	0	0	0	0	0%	--	--
	4071	9	0%	100%	0%	0%	0%	0%	0%	0%	9	100%	--	--
	4072	0	0	0	0	0	0	0	0	0	0	0%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
203		2568	6%	87%	0%	0%	0%	0%	1%	6%	2416	94%	14,060	52%
203/1		466	24%	60%	0%	0%	0%	0%	0%	15%	353	76%	19,554	31%
	1090	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	1091	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1103	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1104	5	0%	80%	0%	0%	0%	0%	0%	20%	5	100%	--	--
	1105	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1109	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1107	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1108	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1109	11	0%	100%	0%	0%	0%	0%	0%	0%	11	100%	--	--
	1110	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1111	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1112	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1113	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1114	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1118	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1119	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1120	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1121	2	0%	50%	0%	0%	0%	0%	0%	50%	2	100%	--	--
203/ 2		1314	2%	95%	0%	0%	0%	0%	1%	3%	1291	98%	13,511	49%
	2016	64	0%	100%	0%	0%	0%	0%	0%	0%	64	100%	--	--
	2017	67	0%	90%	0%	0%	0%	0%	1%	9%	67	100%	--	--
	2018	21	0%	100%	0%	0%	0%	0%	0%	0%	21	100%	--	--
	2020	8	0%	88%	13%	0%	0%	0%	0%	0%	8	100%	--	--
	2021	6	0%	83%	17%	0%	0%	0%	0%	0%	6	100%	--	--
	2022	1	0%	100%	0%	0%	0%	0%	0%	0%	1	100%	--	--
	2023	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2024	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2025	0	0	0	0	0	0	0	0	0	0	0%	--	--

**APPENDIX C-5
RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY**

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2026	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2027	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2028	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2030	0	0	0	0	0	0	0	0	0	0	0%	--	--
203/ 3		788	2%	90%	0%	0%	0%	0%	2%	5%	772	98%	13,169	53%
	3022	16	0%	100%	0%	0%	0%	0%	0%	0%	16	100%	--	--
	2023	21	0%	86%	0%	0%	0%	0%	0%	14%	21	100%	--	--
	3024	19	0%	100%	0%	0%	0%	0%	0%	0%	19	100%	--	--
	3025	21	5%	57%	0%	0%	0%	0%	0%	38%	20	95%	--	--
	3026	6	0%	67%	0%	0%	0%	0%	33%	0%	6	100%	--	--
	3027	221	6%	86%	0%	0%	0%	0%	1%	7%	208	94%	--	--
	3028	14	0%	100%	0%	0%	0%	0%	0%	0%	14	100%	--	--
	3029	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3030	4	0%	0%	0%	0%	0%	0%	0%	100%	4	100%	--	--
	3031	0	0	0	0	0	0	0	0	0	0	0%	--	--
	3032	0	0	0	0	0	0	0	0	0	0	0%	--	--
204		5518	44%	29%	1%	3%	0%	0%	2%	22%	3090	56%	52,508	30%
204/ 2		2040	40%	22%	0%	4%	0%	0%	2%	32%	1224	60%	33,866	22%
	2107	12	0%	0%	0%	0%	0%	0%	0%	100%	12	100%	--	--
	2117	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2118	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2138	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2139	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2140	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2141	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2142	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2143	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2162	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2182	4	50%	50%	0%	0%	0%	0%	0%	0%	2	50%	--	--

APPENDIX C-5

RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS IN THE PROJECT AREA WITHIN THE CITY OF DALLAS, DALLAS COUNTY

Census Tract/ Block Group	Census Block	Total ¹	White Alone ¹	Black or African American Alone ¹	American Indian and Alaska Native Alone ¹	Asian Alone ¹	Native Hawaiian and Other Pacific Islander Alone ¹	Some Other Race Alone ¹	Population of Two or More Races ¹	Hispanic or Latino of Any Race ¹	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months (in 2010 inflation-adjusted dollars) ²	Household Income in the past 12 Months Below Poverty Level ³
	2183	2	50%	0%	0%	0%	0%	0%	0%	50%	1	50%	--	--
	2184	13	85%	15%	0%	0%	0%	0%	0%	0%	2	15%	--	--
	2185	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2186	0	0	0	0	0	0	0	0	0	0	0%	--	--

Sources:

1. U.S. Census Bureau 2010, Summary File 1, Table P9
2. U.S. Census Bureau ACS 2006-2010 5-year estimates, Table B17017
3. U.S. Census Bureau ACS 2006-2010 5-year estimates, Table B19013

Note:

The latest Census data has been utilized to obtain socioeconomic data. The 2010 Census data is used to obtain population counts and basic characteristics, while the Census Bureau's ACS 2006–2010 5-year estimate data is used to obtain demographic, social, economic and housing characteristics.



January 18, 2012

SECTION 106: IDENTIFICATION OF HISTORIC PROPERTIES AND DETERMINATION OF EFFECTS (30% submittal)

Dallas County

CSJ# 0092-01-052; -054; 0197-02-921

SM Wright Project, Dallas, Texas:

IH 45 – US 175 to S. of Lamar Blvd.

US 175 – S. of Budd St. to IH 45

Direct Connection – IH 45 to US 175/SH 310

Ms. Adrienne Campbell
History Division
Texas Historical Commission
P.O. Box 12276
Austin, Texas 78711

Dear Ms. Campbell:

In accordance with 36 CFR 800 and the Programmatic Agreement (PA) between the Texas Department of Transportation (TxDOT), the Federal Highways Administration (FHWA), the Advisory Council on Historic Preservation, and the Texas Historical Commission (THC), this letter initiates Section 106 consultation for the above referenced project. We hereby present the results of a report on the eligibility and effects (30% submittal) of the proposed undertaking on properties listed and eligible to the National Register of Historic Places (NRHP).

Project Location:

The project is located in the south part of the City of Dallas, Dallas County, Texas. Land use is primarily residential, with some institutional, religious and commercial properties. The majority of the building stock is denoted by small-scale housing and its associated structures dating approximately from 1920 to 1955. Some portions lie within the Colonial Hill Historic District, and others extend into the South Boulevard-Park Row Historic District, both of which are listed in the NRHP.

Project Description:

The proposed improvements totaling a centerline length of 5 miles are divided into three segments within the project area:

THE TEXAS PLAN
REDUCE CONGESTION • ENHANCE SAFETY • EXPAND ECONOMIC OPPORTUNITY • IMPROVE AIR QUALITY
PRESERVE THE VALUE OF TRANSPORTATION ASSETS

An Equal Opportunity Employer

SM Wright Freeway (US 175 from IH 45 interchange to SH 310):

The existing controlled access freeway will be converted to a low-speed, signalized, six-lane urban arterial roadway with a slightly meandering alignment and pedestrian amenities, including walking paths and landscaping.

CF Hawn Freeway (US 175 south and east of SH 310):

IH 45 and the Hawn Freeway portion of US 175 will be linked by the construction of two-lane direct connecting ramps on new location to carry northbound and southbound vehicular traffic. This would extend the Hawn Freeway west of the existing US 175/SH 310 interchange along with frontage roads to facilitate local access.

IH 45 (US 175 to S. of Lamar Blvd.):

The proposed direct connector ramps between CF Hawn and IH 45 would require the widening /re-striping of the latter facility from its existing six main lanes to eight main lanes between Lamar Street and SM Wright. These improvements would require design exceptions for lane and inside shoulder width.

Project Purpose:

With the proposed conversion of the SM Wright Freeway into an urban arterial with a pedestrian friendly environment, the project seeks to deter the continued decline in population and housing stock in the area. The project responds to local initiatives to improve community cohesion through the creation of a slow speed facility with a park-like setting and pedestrian amenities along SM Wright. Linking the IH 45 and CF Hawn freeways would improve neighborhood environment by removing commuter traffic from the residential areas adjacent to these high speed facilities. A substantial safety-related benefit of the project would be the removal of the accident-prone sharp curve that currently connects SM Wright to CF Hawn (see project maps).

Project Right-of-Way:

While the proposed improvements were originally envisioned to be constructed within a substantial amount of new right-of-way (ROW), traffic engineers have now limited new construction to the existing ROW through various design revisions. The only exception involves a 38-acre segment of new ROW at the southern end of the project necessary for the construction of the connectors linking IH 45 and the CF Hawn Freeway (see dashed red lines denoting new ROW in various project maps).

Non-Archelological Historic-Age Resource Reconnaissance Survey Report, SM Wright, Dallas County (December 2011):

The attached report presents the findings of a 2010 reconnaissance-level survey with a cut-off date of 1968 for the identification of standing historic-age structures. The survey was undertaken in a variable area of potential effects (APE), which extended to 150 ft. from the existing ROW along the SM Wright and IH 45 project segments, and to 300 ft. from the proposed ROW in the new location segment for the IH 45-CF Hawn direct connectors. The APE includes all parcels of land that fall completely or partially within its boundaries.

As a result of the 2010 survey efforts, 390 historic-age resources were identified on 290 sites in the APE. Since the project area also includes portions of the previously surveyed Trinity Parkway project APE, those properties were not re-surveyed, but are presented in a distinct section of the document with their original ID numbers and with their own color-code in the attached maps. With the 175 properties surveyed during the Trinity Parkway identification effort, the total number of resources presented in the attached SM Wright survey totals 585 buildings on 465 sites.

Appendix A includes a tabular inventory of all resources identified in the 2010 survey, each of which is keyed to location maps found in Appendix B. Individual inventory forms with photographs for these resources are found in Appendix C, while the tabular and inventory forms for the Trinity properties are included in Appendices D and E, respectively. A few missing entries in the inventory represent surveyed resources removed from the report due to demolition or corrected construction dates. So as not to alter the established numeration system since the survey's inception, the following map ID numbers were not removed: JS-21, 24; SM-25, 85, 189, 209 and 221.

The majority, or 88%, of surveyed properties are of the domestic type, with some commercial and light industrial resources. The properties were evaluated under a broad number of themes ranging from the advent of streetcar and suburbs in the late 19th and early 20th centuries to post-war suburbanization and freeway development in the mid-20th century. Because of the large number of surveyed resources, the project area has been divided into the following geographic regions:

Julius Schepps Zone (JS):

The zone extends along both sides of IH 45 from Corinth Street to the Trinity River with a mix of residential, industrial and commercial buildings. Residential properties are located in or near the NRHP-listed Colonial Hill Historic District.

SM Wright Zone (SM):

The zone covers properties along both sides of US 175 extending from the IH 45/US 175 interchange south to the US 175/SH 310 interchange ("Deadman's Curve"), and then east on US 175 to Railroad Avenue. A scattering of commercial properties along US 175 are present within the larger tally of residences, some of which are located within the NRHP-listed Colonial Hill and South Boulevard-Park Row historic districts.

Trinity Parkway Zone (IN, MK, WH, EH):

Four zones of the Trinity Parkway survey are found within the current APE of SM Wright. The zones include the primarily commercial Industrial Blvd. zone (IN); the primarily industrial Martin Luther King zone (MK); the mixed residential/commercial West Colonial Hill zone (WH); and the mainly residential East Colonial Hill zone (EH). The EH zone includes the largest number of resources from the Trinity survey. Please note that the current report relies on the eligibility determinations concurred with by THC in previous coordination with TxDOT regarding the 175 Trinity properties.

Survey Findings:

Prior to field work, qualified TxDOT staff checked the APE for the presence of previously recorded historic properties. The research did not indicate Recorded Texas Historical Landmarks, Official Texas Historical Markers, or State Archeological Landmarks to be present in the APE. As indicated in survey Table 1, two NRHP listed historic districts were found in the APE:

--Colonial Hill Historic District, **listed** 1995, under Criterion A, Community Development, and Criterion C, Architecture, both at the local level of significance illustrating a classic example of the streetcar suburb. Bounded by Central Expressway, Pennsylvania, IH 45, Holmes/Lamar and Hatcher streets, with 85 contributing properties in the APE (see survey Table 3), one of which is a commercial property (WH-99).

--South Boulevard-Park Row Historic District, **listed** 1979, under Criterion C, Architecture, at the local level of significance reflecting the work of local architects for prominent members of the Dallas Jewish community. Bounded by South Boulevard and Park Row from Central Avenue with 6 contributing properties in the APE (see survey Table 4).

Commercial Properties:

Commercial properties identified both in the current and Trinity surveys reveal them as having significant modifications to storefronts, in-filled windows, altered entrances or covered windows that render them as not eligible to the NRHP. Some properties are vacant or abandoned. Within this commercial grouping, the survey identified one structure as having integrity and significance:

-- Forest Theater (SM-12), 1920 Martin Luther King Blvd. (formerly Forest Ave.), constructed 1947, **eligible** under Criterion A, Entertainment and Ethnic Heritage, and under Criterion C, Architecture, both at the local level of significance.

Located about two blocks from the northern boundary of the Colonial Hill Historic District, the Art Deco/Streamline former theater is associated with the African-American community of South Dallas. Architecturally, it is a good example of its style despite minor modifications.

Residential Properties:

While some residential areas along the project share commonalities with the listed districts, the survey revealed that most domestic properties outside the districts form incongruous, discontinuous groupings lacking the cohesive qualities for eligibility as a district. No single property was deemed to have sufficient distinction for individual eligibility to the National Register. Many of the residences exhibit modifications that diminish their individual integrity, as well as their ability to contribute to the cohesiveness required for a district.

The field research did identify one project area to have sufficient integrity, cohesion and significance to qualify as an NRHP-eligible historic district in the SM zone:

--Central Park Historic District, **eligible** under Criterion C, Architecture, at the local level of significance. Located at Packard St. and the west side of Edgewood St., between Lenway and Cooper streets (see survey Table 5).

The small-scale residential district is composed of Tudor Revival homes dating 1928-1940. It is comprised of 10 contributing residential properties. Together with the NRHP-listed districts, Central Park was found to have better, more intact examples of resource types with higher levels of integrity than other surveyed areas.

Determination of Effects (30% submittal phase):

The Criteria of Effect were applied to the listed and eligible resources within the APE, and, at this 30% submittal phase, we determine the proposed undertaking will have **no adverse effect** on the historical associations, architectural features and integrity of the properties identified as historically significant. The proposed improvements would not impair any of the resources' aspects of integrity or their ability to convey their historical significance.

Historic resources along SM Wright have always been adjacent to a transportation corridor, either in the form of the H T & C Railroad, or its later transformation into the SM Wright Freeway (US 175). Conversion of the current high-speed SM Wright facility to a low-speed urban arterial can only be beneficial to the setting and longevity of historic properties and districts. Comments addressing effects to individual and historic district resources are provided below:

Former Forest Theater (SM-12):

The proposed project will have **no adverse effect** upon the eligible, historic streamlined theater. As there will be no new ROW required from the property, there will be no direct effects. In its vicinity, the existing SM Wright frontage road and MLK Blvd. Overpass would remain to provide access to the property.

Proposed visual elements to the new SM Wright urban arterial would not be immediately located next to the theater, or in front of its main elevation facing MLK Blvd. One of the two 50 ft.-tall "corridor entry monuments" flanking the new roadway would be located 65 ft. from the side elevation of the theater. Proposed trees would be added near the side of the theater in a landscaped area located between the frontage road and the main-lane segment of the roadway (see survey Figure 6, page 53).

Listed and Eligible Historic Districts:

Assessment of potential effects to the two NRHP-listed and the one eligible historic district in the project area are included in the attached survey (pages 54-60). The proposed work will not compromise the historical integrity or historical significance of these districts and, as a result, we determine the project will have **no adverse effect** upon them.

Central Park Historic District --

Located opposite to Colonial Hill, on the east side of the SM Wright facility, no new ROW would be taken from this the **eligible** historic district. Its adjacent frontage road would be converted into a 12-ft.-wide walking path that would buffer the district from the new arterial's main lanes. Existing trees to be preserved, as well as those to be added, will further screen the district from the roadway. Proposed corridor monuments are a full two blocks away along Metropolitan Ave. (see survey map Figure 7, page 55). Since no significant visual elements are being introduced in the district's proximity, the proposed work will have **no adverse effect** upon the 10 contributing properties.

South Boulevard-Park Row Historic District --

Also located to the east side of SM Wright, but to the north of Central Park, the South Boulevard-Park Row Historic District is **listed** as a residential area comprised of architect-designed properties for prominent members of Dallas' Jewish community. No new ROW is required from any contributing resource in the district. The closest proposed improvements are those near the Forest Theater at a distance of 425 ft. *away* from the southern district boundaries (see survey Figure 11, page 59). As such, the proposed work will have **no adverse effect** upon this listed resource.

Colonial Hill Historic District --

The residential district is a large resource listed for its significance as a fine example of a streetcar suburb in Dallas. While the district covers an extensive area along the west side of SM Wright, no new ROW would be required by the proposed project in this segment. Planned improvements to be located approximately 50-100 ft. from the district boundaries along the new arterial's ROW include enhanced intersections with paving; wide landscaped medians with trees, walking paths, and water features; and four monument types in varying heights denoting different portions of the new SM Wright's contextual surroundings (see survey Figures 8, 9, 10).

The introduction of new visual elements in the district's vicinity will have **no adverse effect**, as the features will not be overtly visible from its boundaries, since existing and proposed vegetation will screen the contributing properties at the district's edges. The conversion of SM Wright to an urban arterial will not impact the integrity of the historic district, as that high-speed facility is a detracting factor in the districts' setting. The new low-speed roadway, on the other hand, will lessen traffic noise along the district's perimeter, and, with its pedestrian friendly environment, it will be more compatible with the neighborhood's historic setting that was lost due to the SM Wright Freeway construction. Part of the land that was used as ROW for the freeway will now be reclaimed for pedestrian use, as the vehicular portion of the current thoroughfare will be reduced with this project.

In regard to the IH 45 and CF Hawn Freeway direct connectors on new ROW, their construction five blocks *away* from the district's southern boundary will not be visually intrusive upon the listed resource. The proposed widening/re-stripping of the southern segment of IH 45 between Lamar and SM Wright will take place on existing ROW where that facility is two or more blocks *away* from the district's boundaries. As such, all of the proposed improvements will have **no adverse effect** upon the district.

Indirect Effects/Cumulative Impacts:

No indirect or cumulative impacts are expected from SM Wright project activities. Any project induced development will not adversely impact the physical appearance or surroundings of the listed or eligible properties and districts.

Proposed amenities will enhance the historic residential/pedestrian qualities of the area, which were impaired by the original construction of the SM Wright freeway. The restoration of connecting streets across SM Wright that were severed by the freeway construction will increase community cohesion, and reinstate some of the east-west vehicular and pedestrian linkages that historically existed in what was once a large interconnected residential area in southern Dallas. By complementing the historic pedestrian-oriented development patterns of area neighborhoods, and lessening commuter traffic and its associated noise, the SM Wright conversion project would improve the health of surrounding historic resources.

There is no planned or specific reasonably foreseeable development adjacent to the eligible and listed historic properties. While "forwardDallas!," the city-council-approved comprehensive plan includes a development analysis of this area, the document encourages commercial activity at major intersections beyond SM Wright, especially at Malcolm X. Boulevard, which is ten blocks away from the eastern edge of the proposed pedestrian-oriented arterial.

One reasonably and foreseeable transportation development action in the area would be the proposed Trinity Parkway. The southern end of its varied alternatives (2A, 2B, 3C, 4B) would have the main lanes cross under IH 45, and then continue between the proposed IH 45-CH Hawn direct connectors to establish a link to US 175. The construction of this southern segment of the Trinity Parkway would divert commuter traffic away from the IH 45 and SM Wright segments adjacent to the Colonial Hill Historic District, thereby enhancing the residential context and lessening noise levels.


Conclusion:

There will be **no adverse effect** to any aspects of integrity of the listed or eligible properties in the APE, or to their ability to convey their significance at this 30% submittal phase of the project. We request your written concurrence with these determinations of eligibility and effects within 20 days of receiving this letter. If you have any questions or comments, please call me at 416-2770.

Sincerely,


Mario L. Sanchez, R.A., Ph.D.
Historical Architect
Environmental Affairs Division

Attachments

CONCUR	
SM Wright Project (CSJs -- 0092-01-052; -054; 0197-02-921)	
■ DETERMINATIONS OF ELIGIBILITY TO THE NRHP	
■ NO ADVERSE EFFECT TO HISTORIC PROPERTIES/DISTRICTS	
(30% approval phase)	
Name: 	Date: <u>2-7-12</u>
for State Historic Preservation Officer	

- cc. City of Dallas Historic Preservation Officer, Mark Doty
- Preservation Dallas, Katherine Seale
- Dallas Co. Historical Commission, Ann Spillman
- Half Associates, Jason Diamond
- Ecomm Corp., Kurt Korfmacher; Tom Eisenhour



May 29, 2013

**SECTION 106: CONTINUATION OF DETERMINATION OF EFFECTS;
DE MINIMIS IMPACT FINDING**

(former Procter and Gamble Manufacturing Plant., 3701 S. Lamar Street)

Dallas County

CSJ#: 0092-01-052; 0092-14-081; 0197-02-108

SM Wright Project, Dallas, Texas:

IH 45 – US 175 to S. of Lamar St.

US 175 – S. of Budd St. to IH 45

Direct Connection – IH 45 to US 175/SH 310

Ms. Linda Henderson
History Division
Texas Historical Commission
P.O. Box 12276
Austin, Texas 78711

Dear Ms. Henderson:

In accordance with 36 CFR 800 and the Programmatic Agreement (PA) between the Texas Department of Transportation (TxDOT), the Federal Highway Administration (FHWA), the Advisory Council on Historic Preservation, and the Texas Historical Commission (THC), this letter *resumes* Section 106 consultation for the above referenced project. We hereby present design refinements at the 95% schematic phase developed as a result of a January 31, 2013 Public Hearing and other public briefings where citizens expressed concerns about proposed designs for entrance and exit ramps at IH 45.

Project Location:

The project is located in the south part of the City of Dallas, Dallas County, Texas. Land use is primarily residential, with some institutional, religious and commercial properties. The majority of the building stock is denoted by small-scale housing and its associated structures dating approximately from 1920 to 1955. Some portions lie within the Colonial Hill Historic District, and others extend into the South Boulevard-Park Row Historic District, both of which are listed in the National Register of Historic Places (NRHP).

Project Description:

The proposed improvements totaling a centerline length of 5 miles are divided into three segments within the project area:

OUR GOALS

MAINTAIN A SAFE SYSTEM • ADDRESS CONGESTION • CONNECT TEXAS COMMUNITIES • BEST IN CLASS STATE AGENCY

An Equal Opportunity Employer

SM Wright Freeway (US 175 from IH 45 interchange to SH 310):

The existing controlled access freeway will be converted to a low-speed, signalized, six-lane urban arterial roadway with a slightly meandering alignment and pedestrian amenities, including walking paths and landscaping.

CF Hawn Freeway (US 175 south and east of SH 310):

IH 45 and the Hawn Freeway portion of US 175 will be linked by the construction of two-lane direct connecting ramps on new location to carry northbound and southbound vehicular traffic. This would extend the Hawn Freeway west of the existing US 175/SH 310 interchange along with frontage roads to facilitate local access.

IH 45 (US 175 to S. of Lamar St.):

The proposed direct connector ramps between CF Hawn and IH 45 would require the widening /re-striping of the latter facility from its existing six main lanes to eight main lanes between Lamar Street and SM Wright. These improvements would require design exceptions for lane and inside shoulder width.

Project Purpose:

With the proposed conversion of the SM Wright Freeway into an urban arterial with a pedestrian friendly environment, the project seeks to deter the continued decline in population and housing stock in the area. The project responds to local initiatives to improve community cohesion through the creation of a slow speed facility with a park-like setting and pedestrian amenities along SM Wright. Linking the IH 45 and CF Hawn freeways would improve neighborhood environment by removing commuter traffic from the residential areas adjacent to these high speed facilities. A substantial safety-related benefit of the project would be the removal of the accident-prone sharp curve that currently connects SM Wright to CF Hawn.

Previous Coordination:

In a letter dated January 18, 2012, TxDOT coordinated the project with your agency at the 30% schematic phase (see attached). In a signed concurrence dated February 7, 2012, THC agreed with TxDOT's determination of **no adverse effect** to historic properties and districts based on the submitted design schematics. As originally coordinated with your agency, the project included 38 acres of new right-of-way (ROW) at its southern end for the construction of connectors linking IH 45 and the CF Hawn Freeway. Once advanced design schematics are completed, it is TxDOT's intention to submit them to your agency for review.

Current Coordination:

While TxDOT is not yet ready to submit advanced design schematics for your review, time constraints necessitate that we now coordinate the design refinements for the entrance and exit ramps at IH 45, *as the results of your review need to be presented at an upcoming Public Hearing scheduled for June 27th*. The refinements were developed by project consultants due to public input, and they are associated with the above-referenced IH 45 project segment extending from US 175 to S. of Lamar St. New design concepts are illustrated in Alternative 2, while the original proposal is illustrated in Alternative 1.

At the January 31, 2013, Public Hearing for the proposed project, citizens expressed concerns over the IH 45 northbound and southbound entrance and exit ramps. Because of these concerns, TxDOT project consultants revised the IH 45 ramps at Lamar Street and Pennsylvania Avenue. The Public Hearing was followed by several briefings and a town hall meeting, including city council members and state senators, to present new design concepts to address local concerns.

The new ramp design adds a bypass bridge over Lamar Street in both north and southbound directions. In order to accommodate the southbound bypass, the existing entrance ramp to IH 45 from Lamar Street needs to be moved further west, requiring the relocation of McDonald Avenue, which serves as the vehicular access into the historic former Procter and Gamble Manufacturing Plant that now functions as a facility for the Dallas Independent School District.

The design revisions actually improve the current layout of the intersection since McDonald Avenue creates a hazardous, confusing five-legged intersection as it meets Lamar Street. The relocation of McDonald Avenue requires additional ROW in the amount of 0.91 acres from the historic plant facility, which was determined **eligible** to the NRHP as part of the Trinity Parkway Project under Criterion A, Community, Economic, Transportation and Industrial Development, and Criterion C, Architecture, both at the local level of significance. The former manufacturing plant is not a designated City of Dallas Landmark.

For your information, the design revisions also require a 0.04 acre expansion of a current permanent easement over the Union Pacific Railroad, as well as the displacement of a non-historic-age industrial warehouse-type structure dating to 1974 at 3901 S. Lamar Street.

Determination of Effects:

The new ramp design concept does not infringe on any buildings contributing to the historic facility. Only 0.91 acres of the northeast corner of the facility’s expansive, non-contributing parking lot will be incorporated into the new ramp design to improve access to IH 45 per citizen input at various public involvement venues held this year. The vast size of the facility and the considerable distance (approx. 300 ft.) from the new corner ROW to the set of historic buildings located at the center of the property pose **no adverse effect** to the historic resource’s character defining features, or diminish any of its aspects of integrity. The nearest standing structure within the property to the proposed new ROW is a c. 1960 entry gate, which was previously determined non-contributing to the eligible facility. Therefore, the proposed ramp design will not impede the property’s ability to convey its historical significance.

The new freeway entrance ramp is designed to begin at the corner of the property *at grade*, and then to start rising on embankment with retaining walls 150 ft. south of Lamar Street past the historic facility. The ramp then transitions to an elevated bridge structure starting 440 ft. south of Lamar, well away from the boundaries of the former manufacturing plant, and without alteration to its urban setting, which already includes a high-speed transportation corridor.

De Minimis Impact Finding:

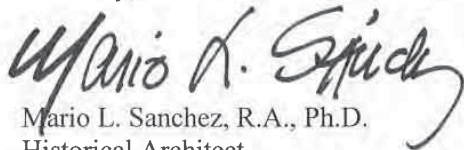
From a total of 27.59 acres comprised by the property’s legal parcel, the proposed new ROW includes only 0.91 acres, or 3% of its overall acreage. As such, the proposed new ROW will have **no adverse effect** and qualifies as a *de minimis* taking under Section 4(f), especially when considering its

location at the corner of a sizeable parking lot, and its approximate 300 ft. distance from the grouping of historic buildings, which are the resources that actually render the facility eligible to the NRHP. None of the buildings would be displaced by the new ramp design. The relocation of McDonald Avenue within the facility's northeast corner takes up 60-70 parking spaces, an area of the property already used for a transportation purpose, and which is non-contributing to the property's historical significance.

Conclusion:


We request your written concurrence with this determination of **no adverse effect** within 20 days of receiving this letter, and that the proposed taking of 0.91 acres from the parking lot corner of the eligible facility qualifies as a *de minimis* impact finding with reduced impacts and minimization of effects to the protected, historic Section 4(f) resource. If you need further information, feel free to call me at 416-2770.

Sincerely,

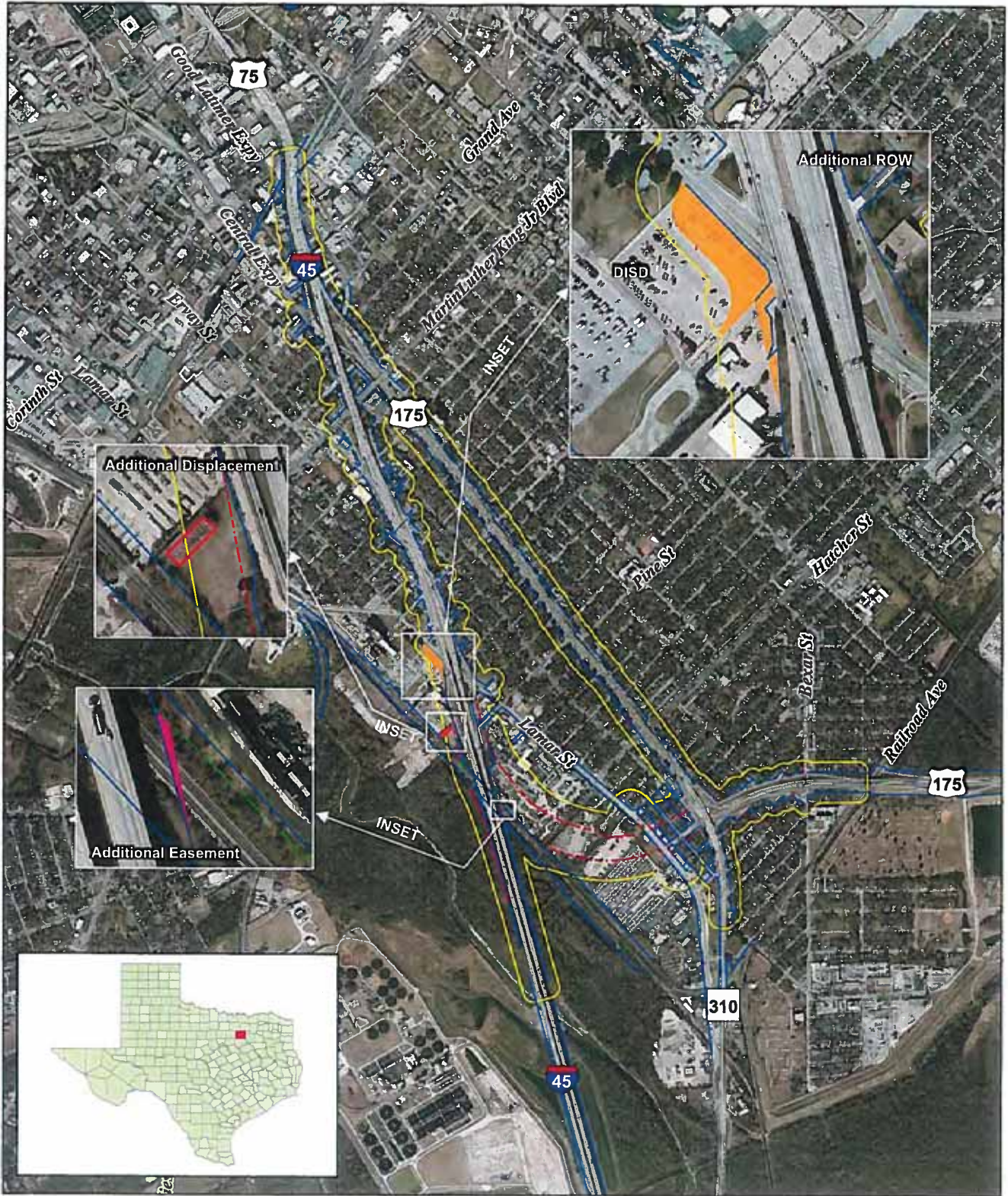


Mario L. Sanchez, R.A., Ph.D.
Historical Architect
Environmental Affairs Division

Attachments

CONCUR	
SM Wright Project (CSJs -- 0092-01-052; 0092-14-081; 0197-02-108)	
■ NO ADVERSE EFFECT TO ELIGIBLE FORMER PROCTER AND GAMBLE MANUFACTURING PLANT	
■ DeMINIMIS IMPACT FINDING	
Name: <u></u>	Date: <u>5 June 2013</u>
for State Historic Preservation Officer	

- cc. City of Dallas Historic Preservation Officer, Mark Doty
Preservation Dallas, Katherine Seale
Dallas Co. Historical Commission, Ann Spillman
Half Associates, Jason Diamond



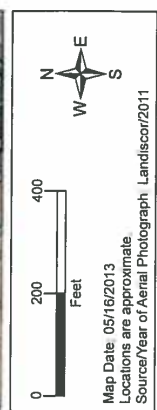
Legend

Existing ROW	Previously Coordinated Project APE
Previously Coordinated Proposed Easement	Additional Easement (0.04 Acre)
Previously Coordinated Proposed ROW	Additional ROW (1.29 Acre)
	Additional Displacement

Project Location Map
Improvements to IH 45 / US 175
Dallas County
 CSJ: 0092-01-052, 0197-02-921

0 1,000 2,000
Feet

ATTACHMENT 2



**Proposed ROW Take from
DISD Property (Former Procter & Gamble Plant)**

SM Wright Project
Dallas, Texas

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081

Legend

	APE Expansion
	Previously Coordinated APE
	Proposed ROW Take from DISD Property/former Procter & Gamble Plant (0.91 Acre, 3% of total property)
	DISD Property/former Procter & Gamble Plant (Total 27.59 Acres)
	Previously Proposed Right-of-Way
	New Proposed Right-of-Way
	Existing Right-of-Way
	Project Right of Way
	Contributing Resources to NRHP Eligibility

ATTACHMENT 3



June 13, 2013

CSJ: 0092-01-052, 0197-02-108, 0092-14-081

US 175:

From South of Budd Street

To: I-45

US 175

From: I-45

To: SM Wright (SH 310)

Dallas County

Mr. Michael Brown
Executive Director, Facility Services
Dallas Independent School District
W.H. Cotton Service Center
3701 S. Lamar Street, Suite 227
Dallas, Texas 75215

Dear Mr. Brown:

This letter is written to coordinate with the Dallas Independent School District (DISD) regarding potential impacts to the DISD maintenance facility property located at 3701 S. Lamar Street from the above referenced project. An Environmental Assessment (EA) is being prepared to examine the social, economic, and environmental impacts associated with the proposed project. The project would involve the reconstruction of the existing SM Wright Freeway (US 175/SH 310) from I-45 to north of Budd Street (2.2 miles); realigning the CF Hawn Freeway segment of US 175 from east of Bexar Street to I-45 (1.5 miles), which would include the construction of direct connecting ramps and a new interchange with I-45; and widening/restriping of I-45 from US 175 (SM Wright Freeway) to south of Lamar Street (2.3 miles) to facilitate the proposed direct connecting ramps and provide an appropriate lane balance. The SM Wright Freeway segment of US 175 would be reconstructed from a six-lane freeway with frontage roads to a low speed, six-lane urban arterial with at-grade signalized intersections. The proposed improvements to the CF Hawn Freeway segment of US 175 would remove the sharp curve at the existing SH 310 interchange.

At the January 31, 2013 Public Hearing for the proposed SM Wright Project, citizens expressed concerns regarding I-45 northbound and southbound entrance and exit ramps. In particular, citizens stated the proposed elimination of the northbound exit ramp to Pennsylvania Avenue/Martin Luther King, Jr. Boulevard would adversely affect access to the surrounding area. Because of these concerns, TxDOT and the project team made revisions to the proposed entrance and exit ramps on I-45 at Lamar Street

OUR GOALS

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and Pennsylvania Avenue. The design change involves a split ramp configuration with a bypass over Lamar in both the northbound and southbound directions. The design change required the southbound entrance ramp to I-45 from Lamar to be moved further west and also required relocation of the existing McDonald Avenue intersection with Lamar.

Although McDonald Avenue, which currently serves as a driveway into the DISD facility at 3701 S. Lamar, would be affected, the design refinement would improve the operation of the intersection. The existing driveway currently creates a five-legged intersection at Lamar Street. This existing configuration is not desirable; however, moving the driveway would require additional right-of-way (ROW) from the DISD property.

The DISD property was formerly a Procter and Gamble manufacturing plant that has been determined eligible for listing in the National Register of Historic Places (NRHP) under Criterion A for its role in community and economic development, transportation, and industrial development in Dallas during the early to mid-20th century; and under Criterion C, Architecture, for its design/construction, both at the local level of significance. The design refinement would only take approximately 0.9 acre of land from the property (approximately 3% of the total area), and would not displace any buildings on the property. It would take part of the parking lot on the northeast corner. On June 5, 2013, TxDOT completed consultation on effects to the NRHP-eligible property with the State Historic Preservation Officer (SHPO) under Section 106 of the National Historic Preservation Act (NHPA). While the proposed project would pose a direct effect by taking ROW from the property and relocating McDonald Avenue, TxDOT determined with SHPO concurrence that it does not pose an adverse effect.

Because the DISD property has been determined eligible for listing in the NRHP, the additional ROW and proposed relocation of the driveway would constitute a use of a Section 4(f) resource. Historic sites of national, State, or local significance are afforded special protections under Section 4(f) of the Department of Transportation Act (49 U.S.C. 303 and 23 U.S.C 138). However, due to the minimal nature of the proposed impact (i.e., no adverse effect), a Section 4(f) *de minimis* impact determination can be sought for this resource.

On May 20 and June 5, 2013, TxDOT representatives met with DISD representatives to 1) provide an overview of the proposed project and the design refinements impacting the DISD property at 3701 S. Lamar, and 2) to ensure the relocation of McDonald Avenue will continue to serve the DISD purposes for access to their facility.

The purpose of this letter is to request your concurrence that the proposed SM Wright project as currently designed, which involves the proposed use of the DISD property at 3701 S. Lamar Street, would not adversely affect the property. This concurrence would in no way influence the value or cost associated with the potential purchase of real property needed for ROW. Before the ROW acquisition process may begin, TxDOT must obtain environmental clearance, local agency agreements, and an approved ROW

map prepared by registered professional land surveyors. All future acquisitions would be conducted in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.

Concurrence

If you agree with the following statement, we respectfully request that you sign and date this letter in the space provided below:

As the owner and operator of the facility at 3701 S. Lamar Street, I concur with a determination that the proposed SM Wright Project would not adversely affect the property or on-site operations. I acknowledge I have been informed that a Section 4(f) *de minimis* determination is being pursued regarding the ROW acquisition and impacts to the property.

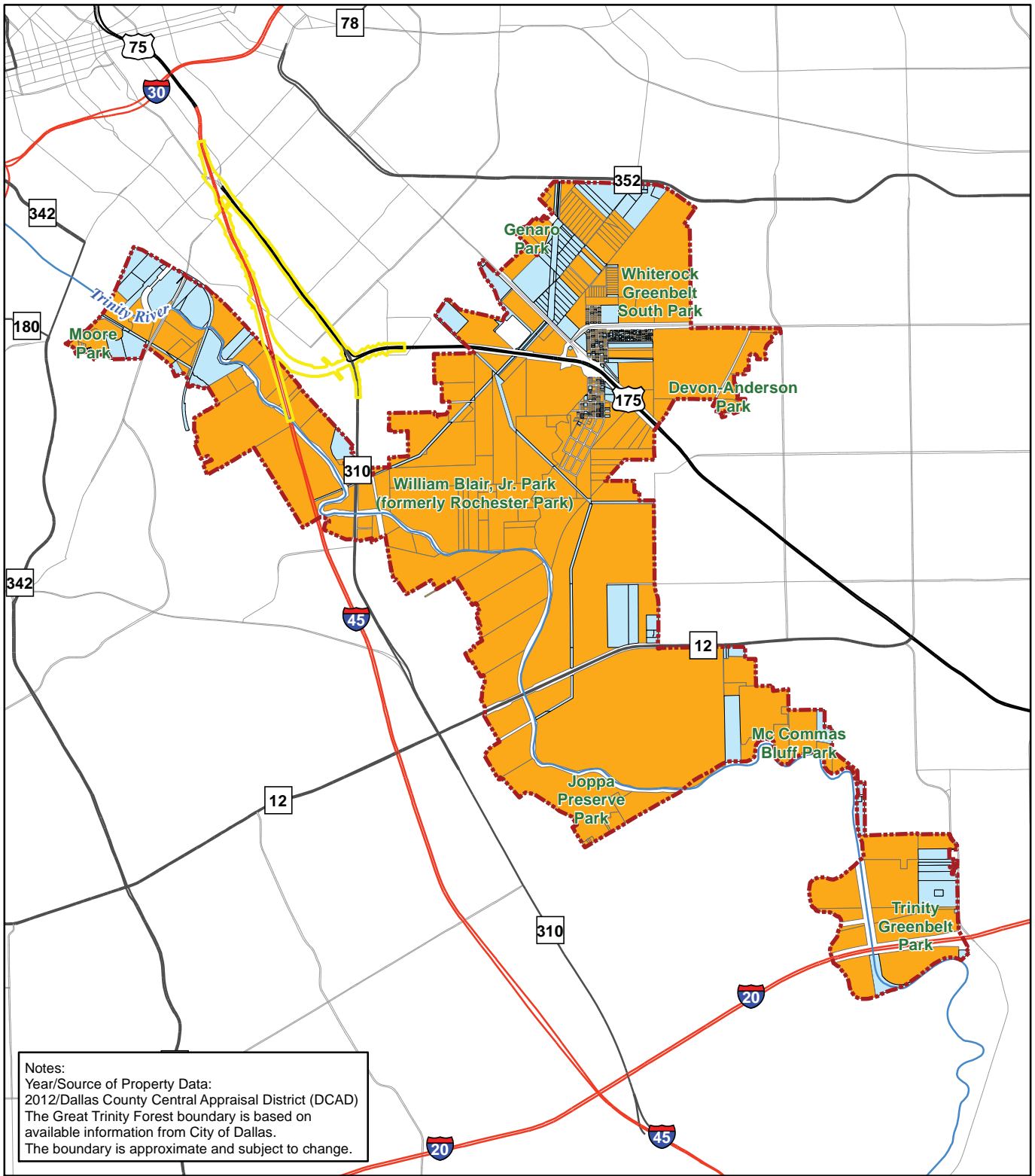
Signature: _____ **Date:** _____
Dallas Independent School District

After signing and dating this letter, we ask that you return a copy to my attention at the Texas Department of Transportation Dallas District, 4777 E. Highway 80, Mesquite, TX 75150. Please let me know if you need any additional information. Thank you for your assistance in this matter.

Sincerely,



H. Stan Hall, P.E.
District Advance Project
Development Engineer



Notes:
 Year/Source of Property Data:
 2012/Dallas County Central Appraisal District (DCAD)
 The Great Trinity Forest boundary is based on
 available information from City of Dallas.
 The boundary is approximate and subject to change.

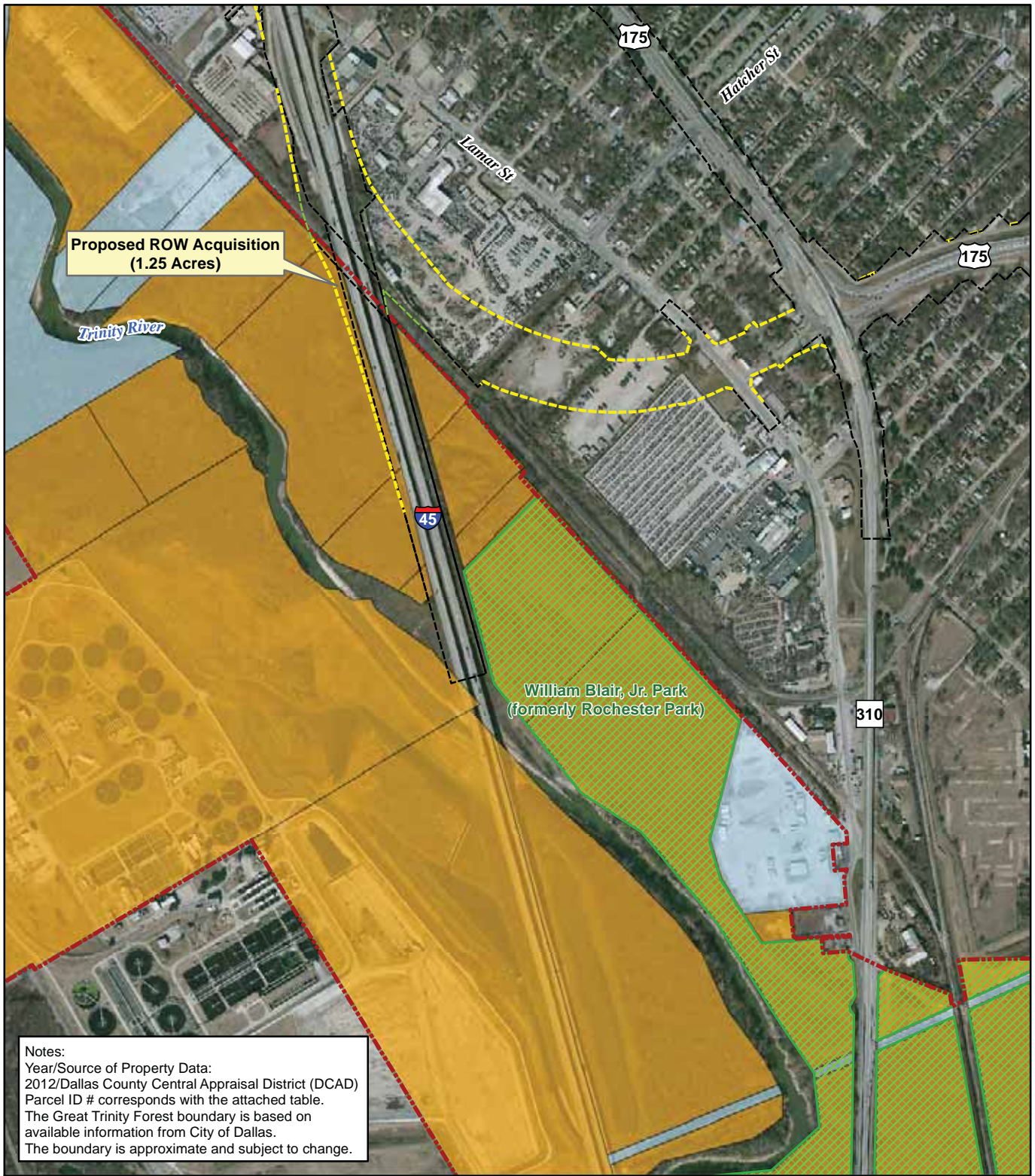
Legend

- Project Right of Way
- Great Trinity Forest Boundary
- Public Owned Property
- Private Owned Property

0 3,000 6,000
 Feet

Great Trinity Forest Overview Map

SM Wright Project
Dallas, Texas



Proposed ROW Acquisition
(1.25 Acres)

Notes:
 Year/Source of Property Data:
 2012/Dallas County Central Appraisal District (DCAD)
 Parcel ID # corresponds with the attached table.
 The Great Trinity Forest boundary is based on
 available information from City of Dallas.
 The boundary is approximate and subject to change.

Legend

- Existing Right of Way
- Proposed Easement
- Proposed Right of Way
- Great Trinity Forest Boundary
- ▨ Park
- Public Owned Property
- Private Owned Property

W E
 S

0 500 1,000
 Feet

Property Ownership - SM Wright Project & Great Trinity Forest

SM Wright Project
Dallas, Texas

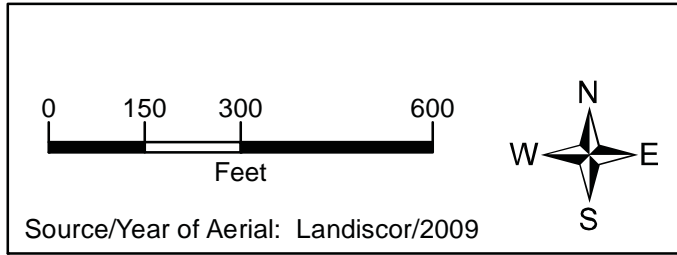
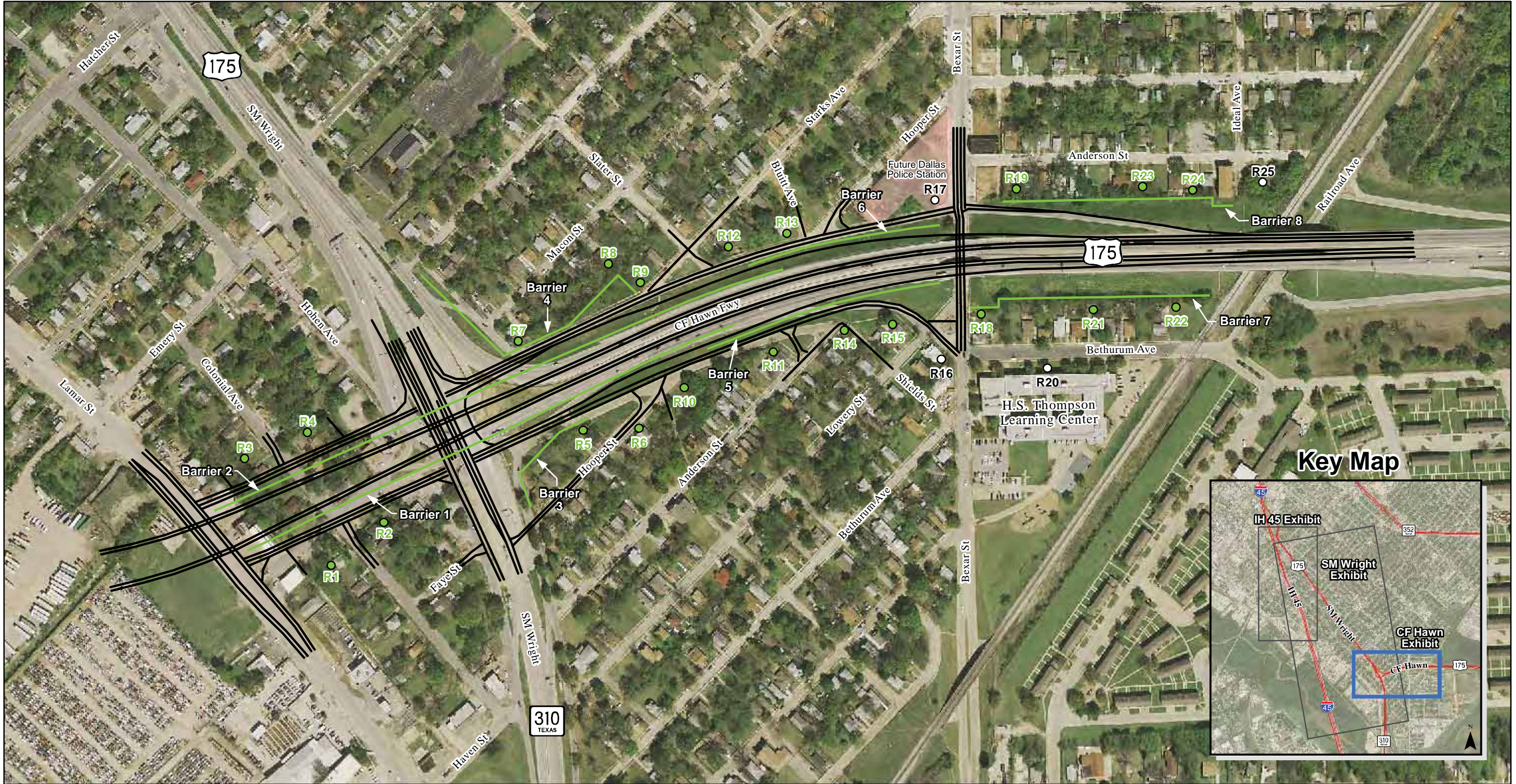


1201 North Bowser Road
Richardson, Texas 75081
(214) 346-6200
Fax (214) 739-0095

Action Items

- Halff Associates to finalize the Draft EA for submittal to the TxDOT Dallas District and ENV based on the direction from FHWA that Section 4(f) requirements do not apply for the proposed acquisition of 1.25 acres of City-owned property within the Great Trinity Forest. The Draft EA will clearly identify the land use of the property to be acquired and present the rationale for why Section 4(f) does not apply to its use.

This concludes the Meeting Minutes. Our goal is to provide a complete and accurate summary of the proceedings of the subject meeting in these minutes. If you feel that any of the items listed above are not correct, or that any information is missing or incomplete, please contact Halff Associates so that the matter can be resolved, and a correction issued if necessary. These minutes will be assumed to be correct and accepted if we do not hear from you within ten (10) calendar days from your receipt.



Source/Year of Aerial: Landscor/2009

Legend

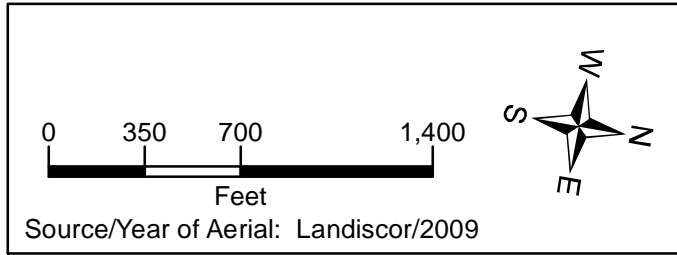
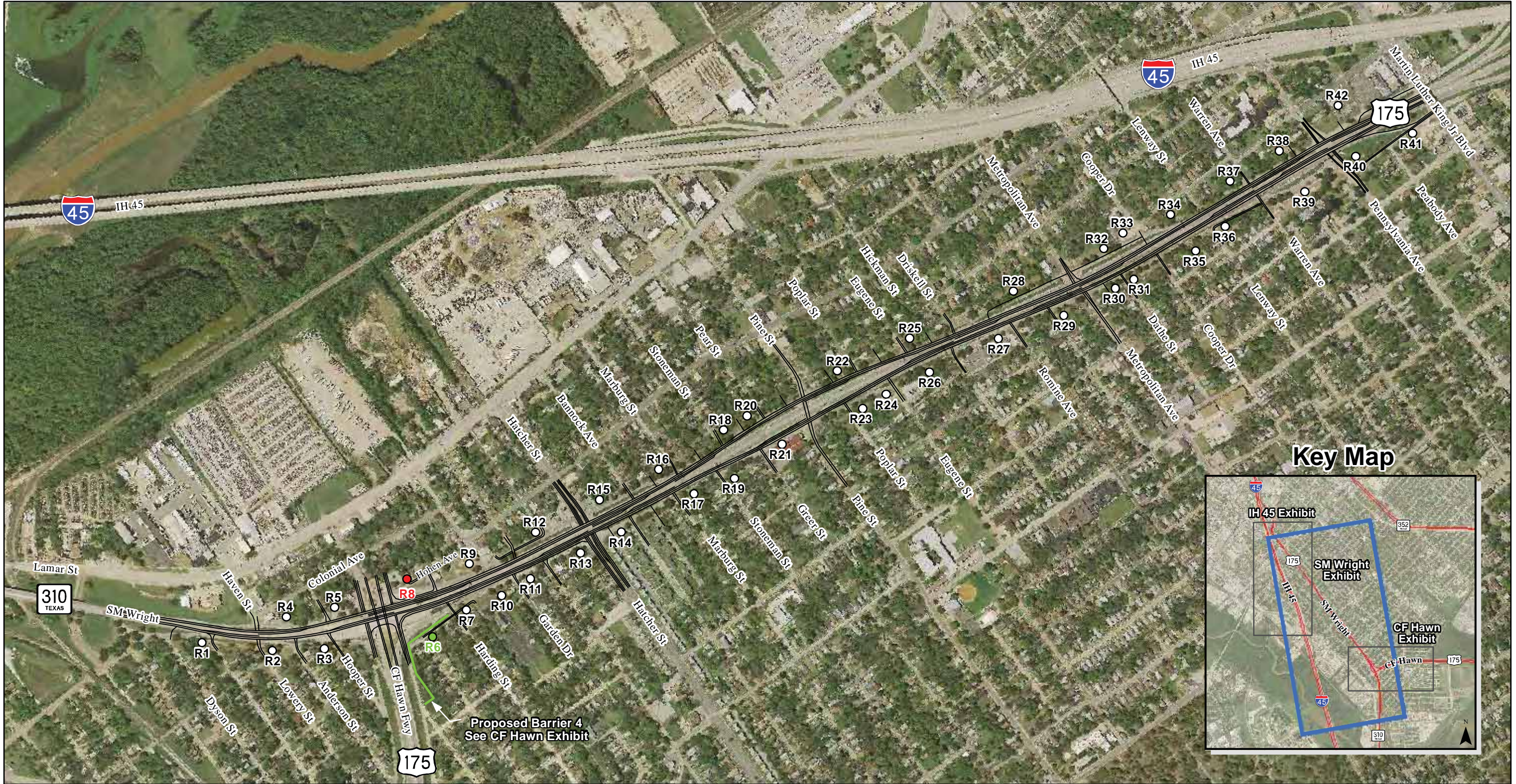
- Receiver Not Impacted
- Receiver Impacted / Benefited by Barrier
- Receiver Impacted / Not Benefited by Barrier
- 8', 10', 12', 14' and 16' Traffic Noise Barrier
- Future Roadway

NOTE: Locations are approximate.

Noise Analysis CF Hawn (US 175)

Dallas, Texas

Appendix C-10, Page 1



Legend

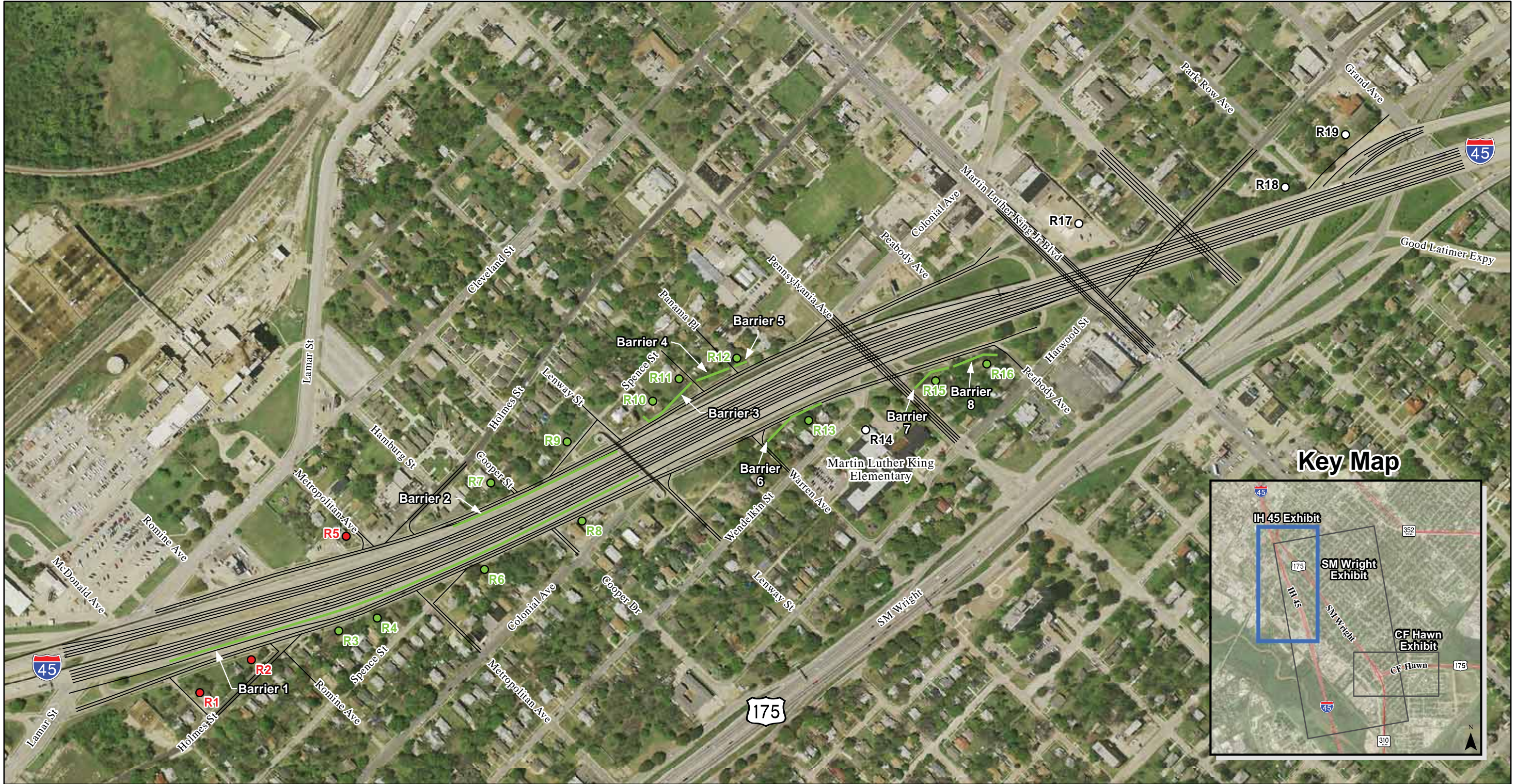
- Receiver Not Impacted
- Receiver Impacted / Benefited by Barrier
- Receiver Impacted / Not Benefited by Barrier
- 12' Traffic Noise Barrier
- Future Roadway

NOTE: Locations are approximate.

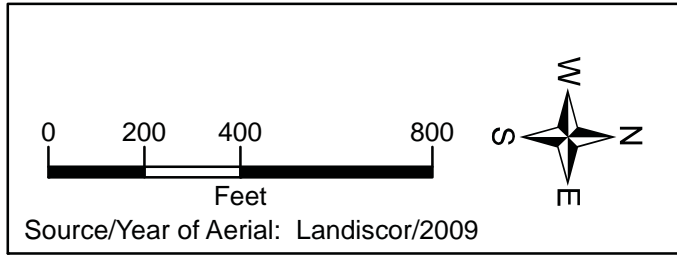
Noise Analysis SM Wright (US 175)

Dallas, Texas

Appendix C-10, Page 2



Key Map



Legend

- Receiver Not Impacted
- Receiver Impacted / Benefited by Barrier
- Receiver Impacted / Not Benefited by Barrier
- ~ 8', 10', 12' and 14' Traffic Noise Barrier
- - - Future Roadway

NOTE: Locations are approximate.

Noise Analysis IH 45

Dallas, Texas

Appendix C-10, Page 3

APPENDIX C-11
EARLY ACQUISITION DOCUMENTATION

The City of Dallas has early acquired 19 parcels within the required right-of-way of the proposed SM Wright Freeway / United States Highway (US) 175 project ('SM Wright project'). Both the United States and Texas Constitutions provide that no private land may be taken for public purposes without adequate compensation. To be eligible for Federal funding, land acquired by local municipalities and the Texas Department of Transportation (TxDOT) must be acquired in accordance with Title II and Title III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended ('Uniform Act'). All 19 of the early acquisition parcels were acquired in their entirety by the City of Dallas. The City of Dallas compensated each landowner/displacee for the purchase of their property in accordance with the Uniform Act, as described in TxDOT's Real Estate Acquisition Guide for Local Agencies.

The right-of-way required for construction of the proposed SM Wright project, as shown in **Attachment 1**, would completely encompass fourteen of the 19 early acquisition parcels; and only portions of the remaining five early acquisition parcels would be required as part of the SM Wright project right-of-way.

Table 1 provides detailed information relating to each of the early acquired parcels, including the parcel location, land use type, property description (including if structures are present), parcel acreage, and date the parcel was acquired by the City of Dallas. **Table 1** also summarizes the presence of environmental justice populations (EJ) within the associated Census block groups and blocks encompassing each of the 19 early acquired parcels. **Table 2** then provides a break-down of the race, ethnicity, and low-income characteristics associated within each of these Census geographies.

In summary, the 19 early acquisition parcels are made up of the following:

- Seven vacant parcels of commercial land use;
- One vacant parcel of commercial land use with two billboards;
- Two parcels of commercial land use with business structures;
- Four vacant parcels of single-family residential land use;
- Four parcels of single-family residential land use with residential structures; and
- One parcel of multi-family residential land use with a residential structure (i.e., duplex).

Five of the 19 early acquisition parcels contained residential structures (**Table 1**: Map IDs 503, 520, 523, 528, and 541); and two contained business structures (**Table 1**: Map IDs 532 and 546). Of the remaining twelve parcels, 11 were vacant (residential or commercial land use) and one was a vacant commercial property housing two billboards.

TABLE 1. EARLY ACQUISITION PROPERTIES FOR THE SM WRIGHT PROJECT

#	Map ID ¹	Parcel Location	Land Use	Property Description	Acres	Date Acquired	Relocation Address	EJ Population Present ²	Census Tract / Block Group – Block ³
1	501	4235 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts	0.43	3/4/2010	n/a	No	40 / 1 – 39 ⁴
2	503	1300 Mooney Street	Commercial	Vacant Plotted Lots/Tracts	16.84	6/9/2010	n/a	No	40 / 1 – 44 ⁴
3	516	5106 Colonial Avenue	Single-family Residential	One Residential Structure	0.16	9/22/2010	n/a - unoccupied	Yes	40 / 2 – 33
4	520	5108 Colonial Avenue	Multi-family Residential	Duplexes Vacant – One Residential Structure	0.16	7/1/2010	n/a - unoccupied	Yes	40 / 2 – 33
5	521	5131 Hohen Avenue	Commercial	Vacant Plotted Lots/Tracts with Two Billboards	0.06	4/13/2011	903 Betterton Dallas, Texas	Yes	40 / 2 – 33
6	523	5114 Colonial Avenue	Single-family Residential	One Residential Structure and Two Garages	0.16	8/21/2009	Benefits Denied	Yes	40 / 2 – 33
7	525	5103 Colonial Avenue	Single-family Residential	Vacant Lots/Tracts	0.16	2/9/2010	n/a	Yes	40 / 2 – 16
8	527	5118 Colonial Avenue	Single-family Residential	Vacant Plotted Lots/Tracts	0.17	1/19/2010	n/a	Yes	40 / 2 – 33
9	528	5105 Colonial Avenue	Single-family Residential	One Residential Structure and One Garage	0.16	9/9/2011	In Process	Yes	40 / 2 – 16
10	531	5109 Colonial Avenue	Single-family Residential	Vacant Plotted Lots/Tracts	0.16	5/12/2011	n/a	Yes	40 / 2 – 16
11	532	5102 Lamar Street	Commercial	One Commercial Building: El Resbalon Club	0.11	3/3/2011	n/a - went out of business ⁵	Yes	40 / 2 – 16
12	536	5106 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts (El Resbalon Club)	0.11	3/3/2011	n/a - went out of business ⁵	Yes	40 / 2 – 16
13	540	5110 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts	0.11	3/10/2010	n/a	Yes	40 / 2 – 16
14	541	5206 Colonial Avenue	Single-family Residential	One Residential Structure	0.14	6/22/2009	n/a - unoccupied	Yes	40 / 2 – 31
15	543	5123 Colonial Avenue	Single-family Residential	Vacant Plotted Lots/Tracts	0.16	1/27/2010	n/a	Yes	40 / 2 – 16
16	546	5114 S Lamar Street	Commercial	One Commercial Building: 3 J's Auto Body (former Morris Garage)	0.33	3/10/2010	4102 S. Lancaster Road Dallas, Texas	No	40 / 2 – 16
17	551	5029 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts with personal property (i.e., truck trailer)	2.14	6/24/2010	5022 S. Lamar Street Dallas, Texas	No	40 / 2 – 13 ⁴
18	555	4601 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts	29.37	7/2/2009	n/a	No	40 / 2 – 44 ⁴
19	2031	4702 S Lamar Street	Commercial	Vacant Plotted Lots/Tracts	7.09	4/27/2010	n/a	No	40 / 2 – 44 ⁴

Notes:

1. See **Attachment 1** for Map ID number locations.
2. Within the Census block groups (low-income) or Census blocks (minority).
3. Refer to **Table 2** for race, ethnicity, and low income characteristics.
4. Census blocks contain zero population.
5. Benefits were paid in accordance with the Uniform Act. The displaced business owner received direct loss payment for going out of business.

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081

TABLE 2. RACE, ETHNICITY, AND LOW INCOME CHARACTERISTICS FOR CENSUS BLOCK GROUPS AND BLOCKS CONTAINING EARLY ACQUIRED PROPERTIES ¹

Census Tract / Block Group	Census Block	Race and Ethnicity ²										Low Income		
		Total	White Alone	Black or African American Alone	American Indian and Alaska Native Alone	Asian Alone	Native Hawaiian and Other Pacific Islander Alone	Some Other Race Alone	Population of Two or More Races	Hispanic or Latino of Any Race	Total Minority Population	Total Percent Minority	Median Household Income in the past 12 months ^{4,5}	Household Income in the past 12 Months Below Poverty Level ⁶
40		1082	1%	87%	0%	0%	0%	0%	1%	11%	1075	99%	22,102	27%
40 / 1 ³		636	1%	92%	0%	0%	0%	0%	0%	8%	631	99%	19,542	30%
	1039	0	0	0	0	0	0	0	0	0	0	0%	--	--
	1044	0	0	0	0	0	0	0	0	0	0	0%	--	--
40 / 2	--	446	0%	80%	1%	0%	0%	2%	16%	444	100%	38,542	10%	
	2013	0	0	0	0	0	0	0	0	0	0	0%	--	--
	2016	6	0%	50%	0%	0%	0%	50%	0%	6	100%	--	--	
	2031	3	0%	100%	0%	0%	0%	0%	0%	3	100%	--	--	
	2033	9	0%	33%	0%	0%	0%	11%	56%	9	100%	--	--	
	2044	0	0	0	0	0	0	0	0	0	0%	--	--	

Notes:

1. The latest Census data has been utilized to obtain socioeconomic data. The 2010 Census data was used to obtain population counts and basic characteristics, while the Census Bureau's American Community Survey (ACS) 2006-2010 5-year estimate data was used to obtain demographic, social, economic, and housing characteristics.
2. Source: U.S. Census Bureau 2010, Summary File 1, Table P9.
3. Census block group contains only vacant early acquired parcels (i.e., no early acquired parcels with either residential or commercial structures)
4. In 2010 inflation adjusted dollars
5. Source: U.S. Census Bureau ACS 2006-2010 5-year estimates, Table B17017
6. Source: U.S. Census Bureau ACS 2006-2010 5-year estimates, Table B19013

Residents of the displaced residential structures were relocated and offered decent, safe, and sanitary (DS&S) housing within their financial means according to the Uniform Act. The two displaced businesses included the El Resbalon Club (Map ID 532) and 3 J's Auto Body (Map ID 546). The owner of El Resbalon Club received benefits in accordance with the Uniform Act and elected to receive a direct loss payment for going out of business. 3 J's Auto Body was relocated to a new location approximately 6 miles away within the southern Dallas area. There appear to be other businesses nearby the proposed SM Wright project that provide similar services as to accommodate for the removal of these two establishments. For example, within approximately 1.5 miles of these displaced businesses, there are no fewer than six bar/night clubs and seven auto repair oriented businesses. Based on the availability of similar services within the project area, the removal of these two service-oriented businesses would not hinder the needs and interests of the overall community.

One Census tract, two block groups, and seven blocks encompass the 19 parcels early acquired by the City of Dallas (listed in **Table 2**). Of these, only Census block group 40 / 2 encompasses early acquisition parcels containing either residential or commercial structures; and only three Census blocks reported a population greater than zero in the 2010 Census (blocks 2016, 2031, and 2033 of Census block group 40 / 2). As such, demographic data is presented below for only these populated Census geographies.

As shown in **Table 1** and further detailed in **Table 2**, EJ populations are present within the three populated Census blocks (blocks 2016, 2031, and 2033 of Census block group 40 / 2), each reporting a total percent minority population of 100 percent. In relation to low-income, Census block group 40 / 2 reported a median household income of \$38,542, which is above the United States Department of Health and Human Services (HHS) 2012 poverty guideline of \$23,050. In addition, 10 percent of household incomes in the past 12 months were reported below the poverty level.

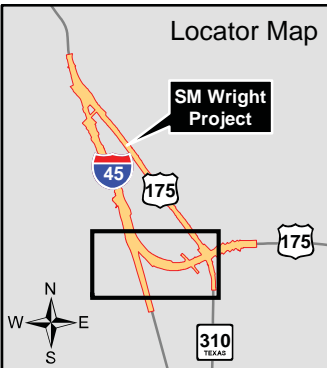
The area encompassing the early acquisitions is broadly composed of EJ populations, as is the overall SM Wright project area, as described in **Section 5.2.9** of the SM Wright project Environmental Assessment (EA). Given that the composition of non-EJ populations within the SM Wright project area is limited, impacts resulting from early acquisitions would not be greater or more severe on EJ populations compared to non-EJ populations. In addition, the displacement of one bar/night club and one automotive repair garage within an area where other similar-service businesses are present would not hinder the needs and interests of any special populations such as the disabled, elderly, minority, or low-income persons present within and nearby the project area. Any potential adverse impacts on EJ populations would be offset in part by project-related benefits of the SM Wright project, such as safety improvements to the existing freeway design deficiencies, increased roadway capacity, reduced traffic congestion, and improved mobility. Given the above, disproportionate impacts to EJ populations are not anticipated.

The early acquisition of parcels will not limit the evaluation of alternatives (no-build or build) for the proposed SM Wright project as required under the National Environmental Policy Act (NEPA) process. Any project development subsequent to the proposed early acquisition, including any future improvements to SM Wright, would continue to be subject to the NEPA process and would require environmental clearance from the Federal Highway Administration (FHWA). In addition, the early acquired parcels to the west of IH 45 (see **Attachment 1**: Map IDs 501, 503, 555, and 2031) are needed for implementation of the Dallas Floodway Extension (DFE) project, which received a Record of Decision (ROD) on the Environmental Impact Statement (EIS) in December 1999¹. It is understood by the City of Dallas that the 19 early acquisitions are considered “at risk” such that the early acquired parcels might not be incorporated into the Federally funded project in the event the no-build alternative is selected from the environmental process.

In conclusion, all of the early acquisitions listed in **Table 1** were acquired by the City of Dallas in accordance with the Uniform Act. The City of Dallas worked closely with landowners/displacees to ensure that the negotiation, acquisition, and/or relocation process was conducted in a satisfactory and timely manner, and in accordance with the Uniform Act. All required records and complete documentation regarding the acquired parcels and relocations are located at the City of Dallas and available for inspection by FHWA.

¹ The United States Army Corps of Engineers (USACE) produced a Final Supplement No. 1 to the EIS for the DFE project in 2003 and concluded that nothing in the analysis indicated the recommended plan should be changed from the plan identified in the 1999 ROD.

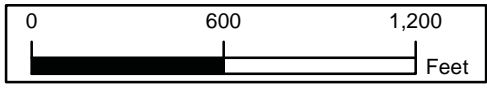
CSJ: 0092-01-052, 0197-02-108, & 0092-14-081



Legend

- Proposed Easement
- Proposed Right of Way
- Existing Right of Way
- Early Acquisition Property

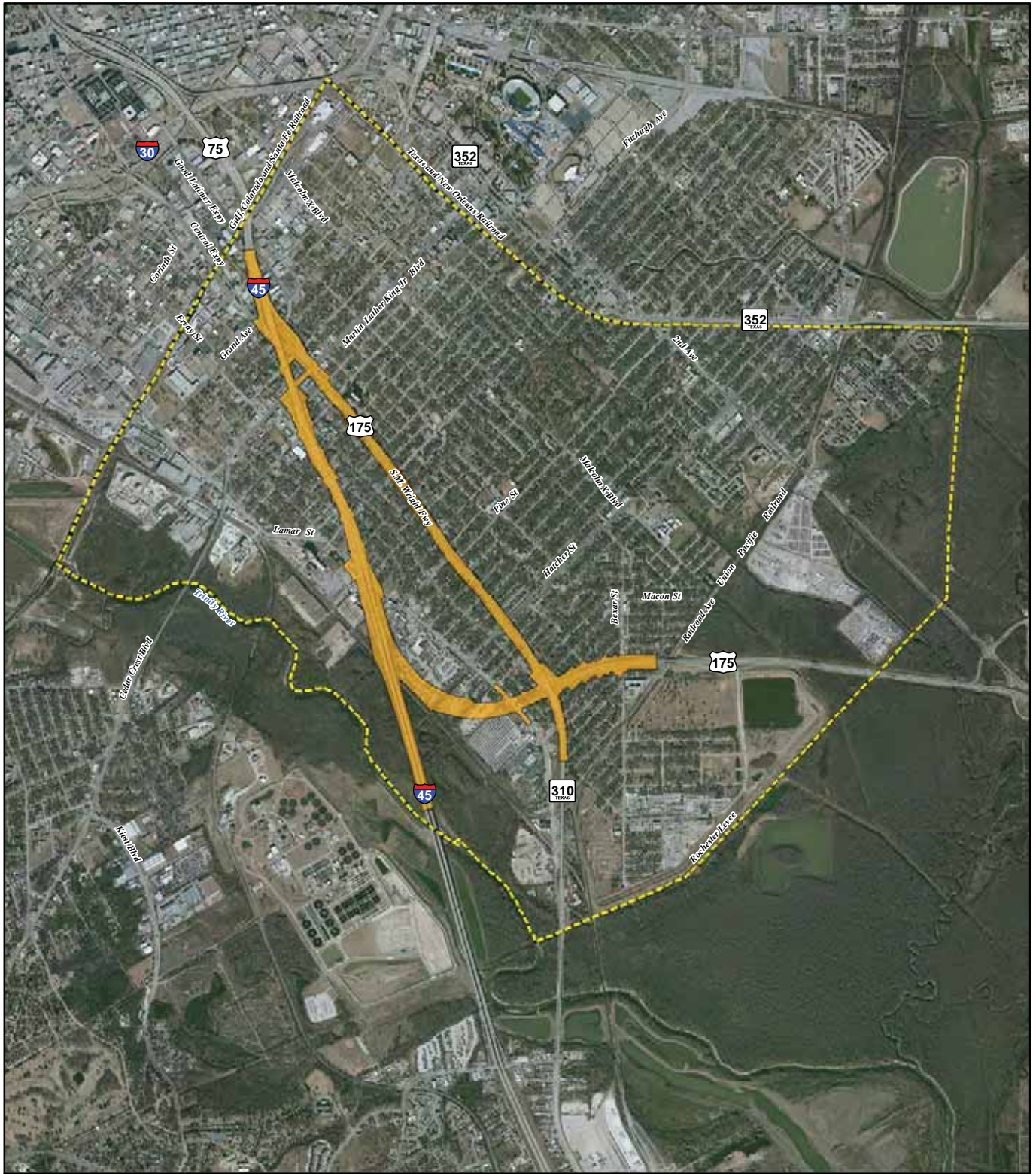
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

Early Acquisition Properties

SM Wright Project
Dallas, TX

APPENDIX D
INDIRECT IMPACTS



Legend

-  Indirect Impacts Area of Influence (AOI)
-  Project Right of Way

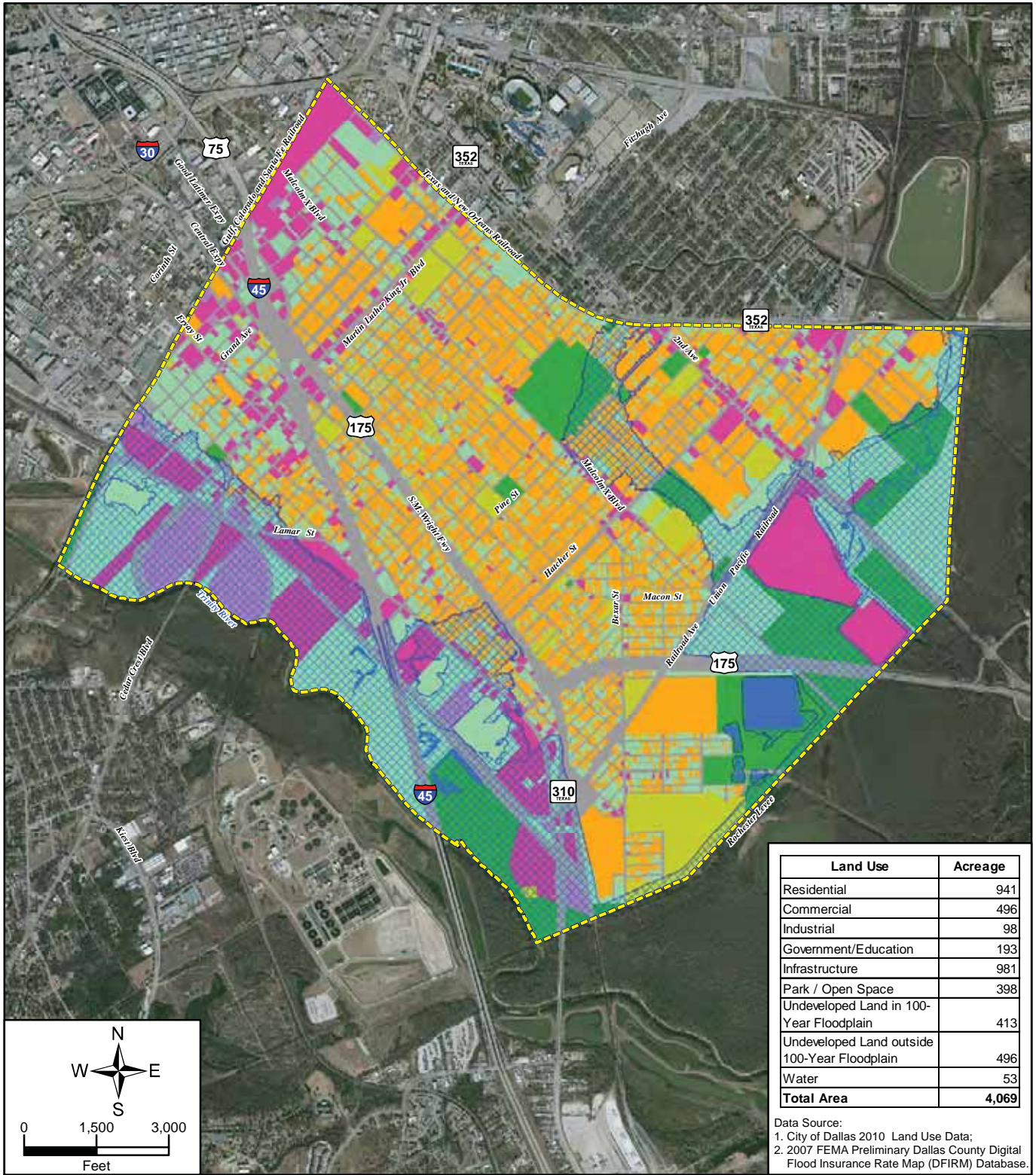
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Feet

Source / Year of Aerial Photograph: Landiscor / 2011



Indirect Impacts Area of Influence (AOI)

SM Wright Project
Dallas, Texas



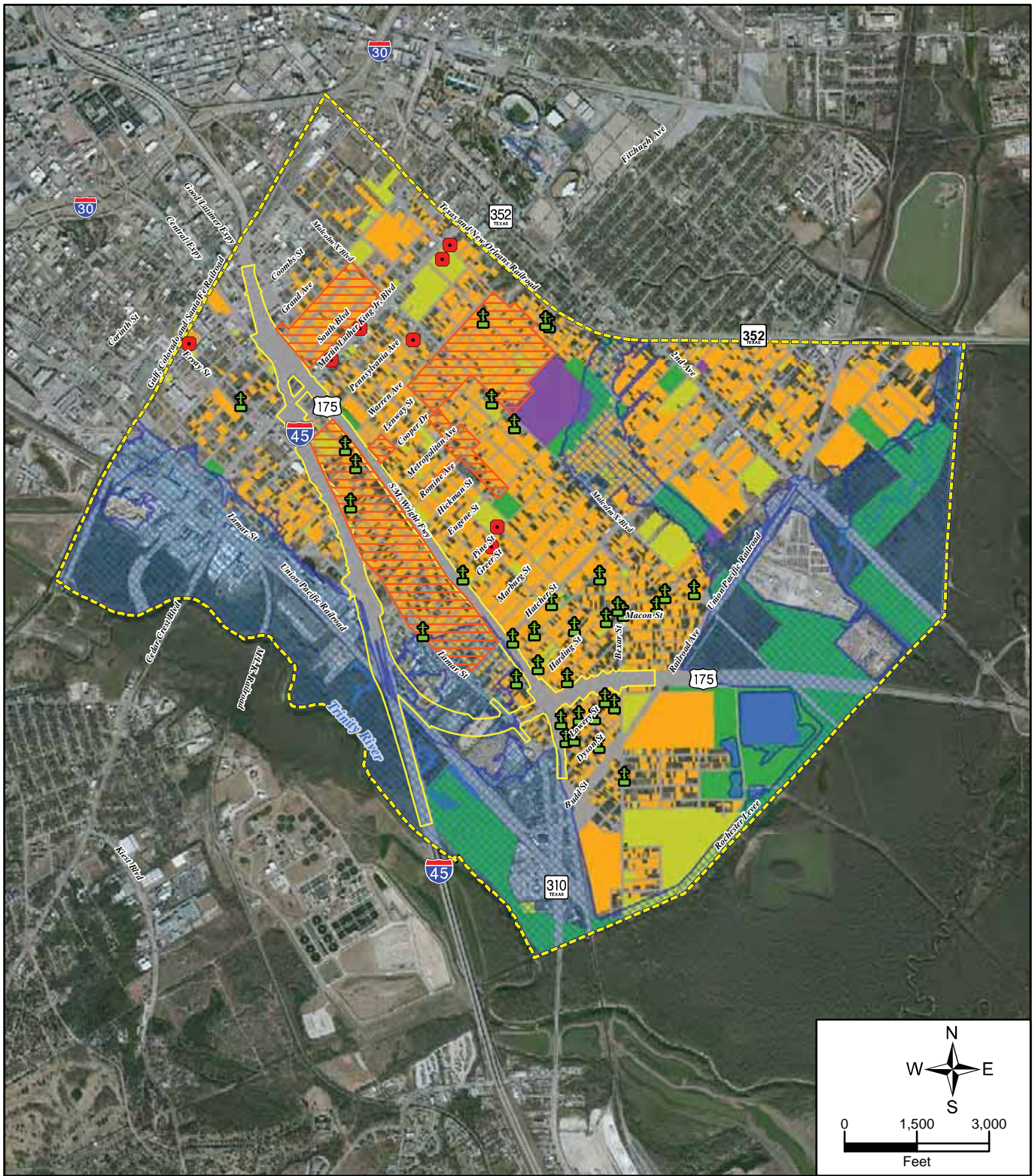
Legend

- Indirect Impacts
- Area of Influence (AOI)
- 100-Year Floodplain
- Residential
- Commercial
- Industrial
- Government/Education
- Infrastructure
- Park / Open Space
- Undeveloped
- Water

Source/Year of Aerial Photograph: Landiscor / 2011

**Existing Land Use
within the Indirect Impacts AOI**

SM Wright Project
Dallas, Texas



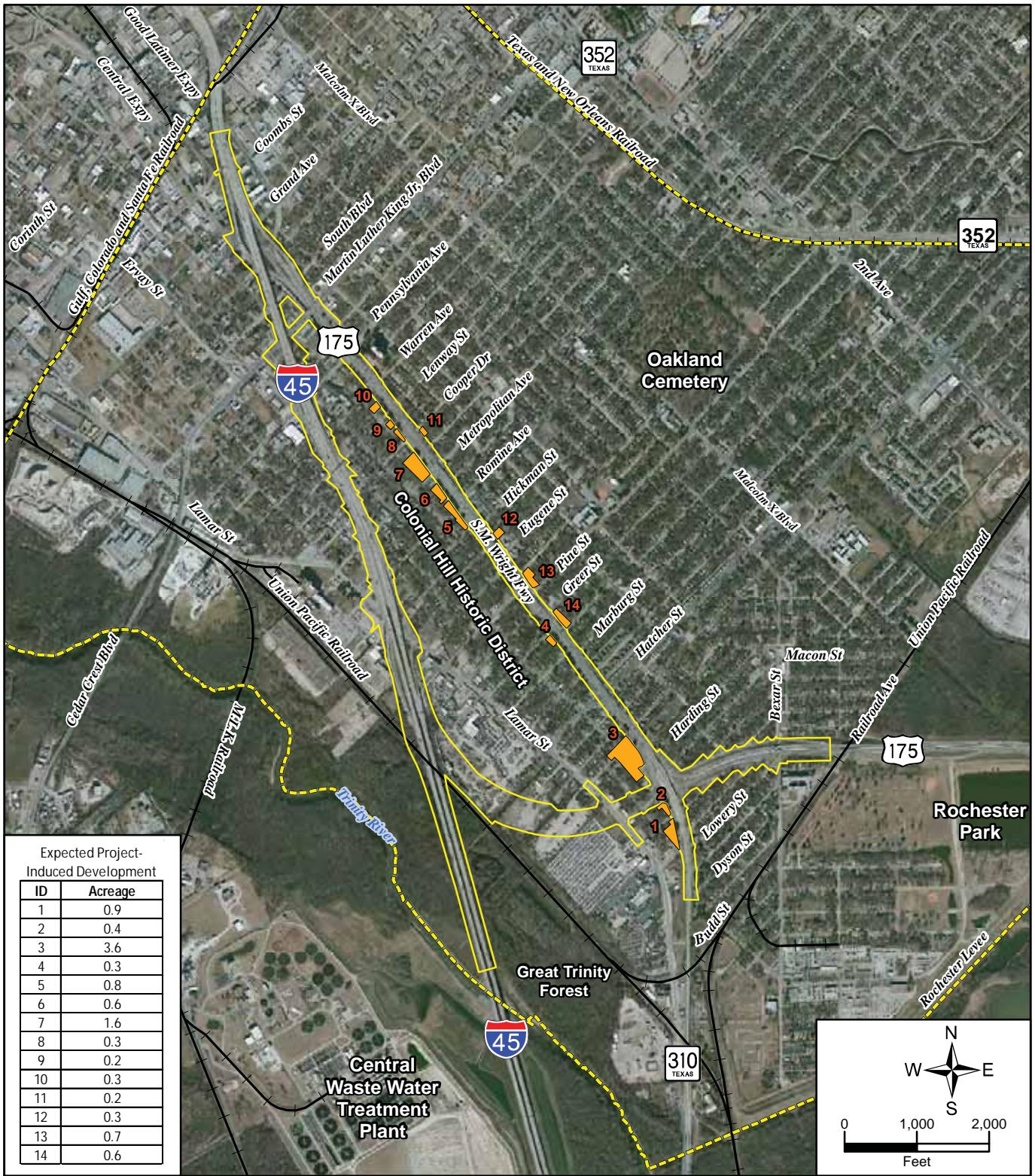
Legend

Church	Cemetery
Residential	NRHP Site
Government/Education	Listed / Proposed Historic District
Infrastructure	100-Year Floodplain
Water	Project Right of Way
Park	Indirect Impacts AOI

Source/Year of Aerial Photograph: Landiscor/2011

**Constraints to Development
within the Indirect Impacts AOI**

SM Wright Project
Dallas, Texas



Legend

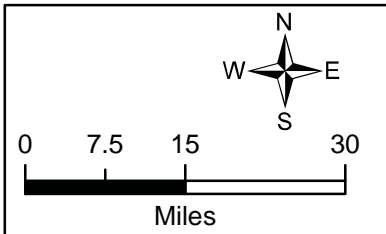
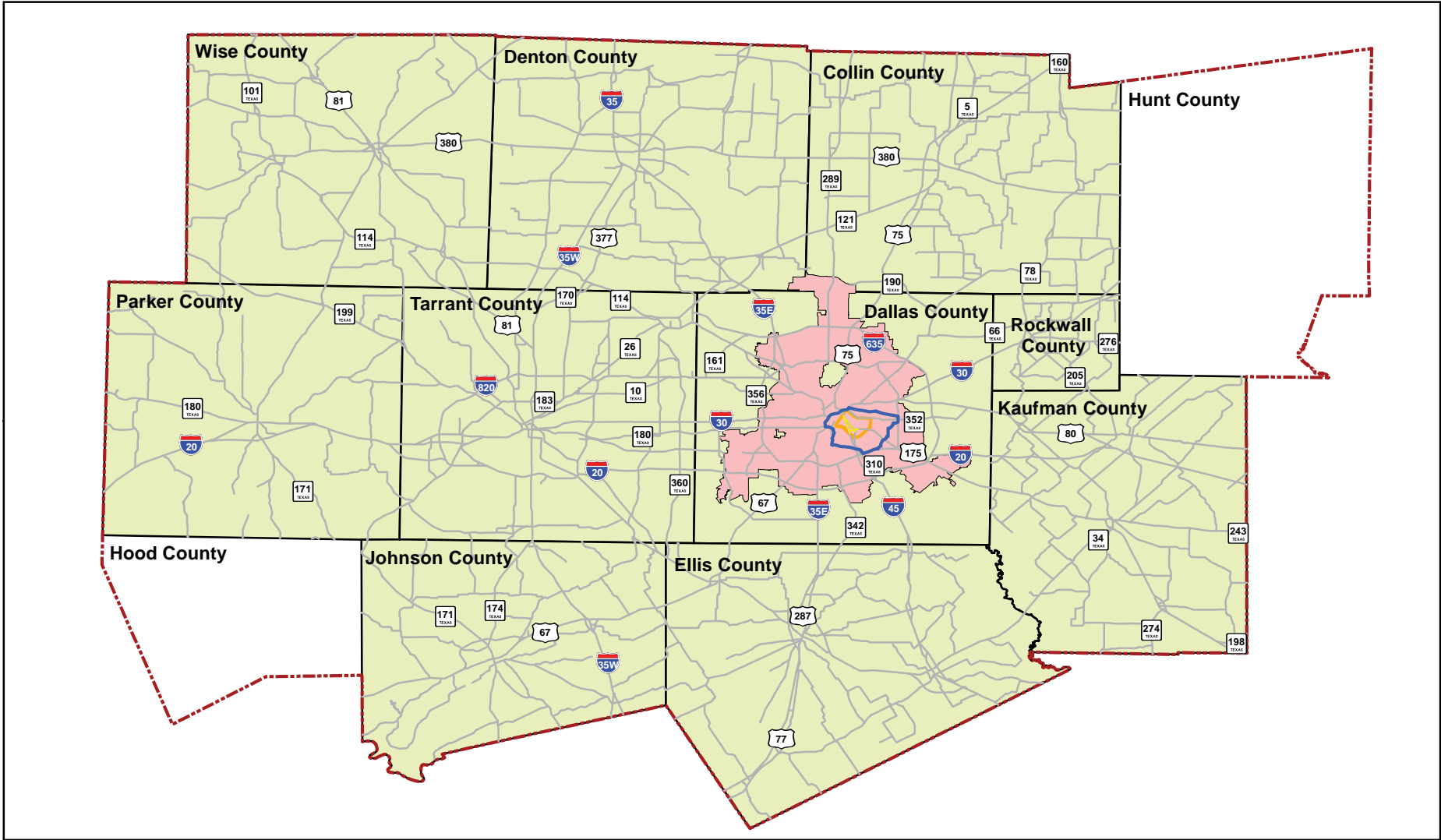
- Project-Induced Land Change
- Project Right of Way
- Indirect Impacts Area of Influence (AOI)

Source/Year of Aerial Photograph: Landiscor/2011

Expected Project-Induced Changes in Land Use

SM Wright Project
Dallas, Texas

APPENDIX E
CUMULATIVE IMPACTS



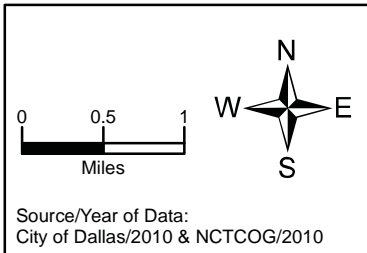
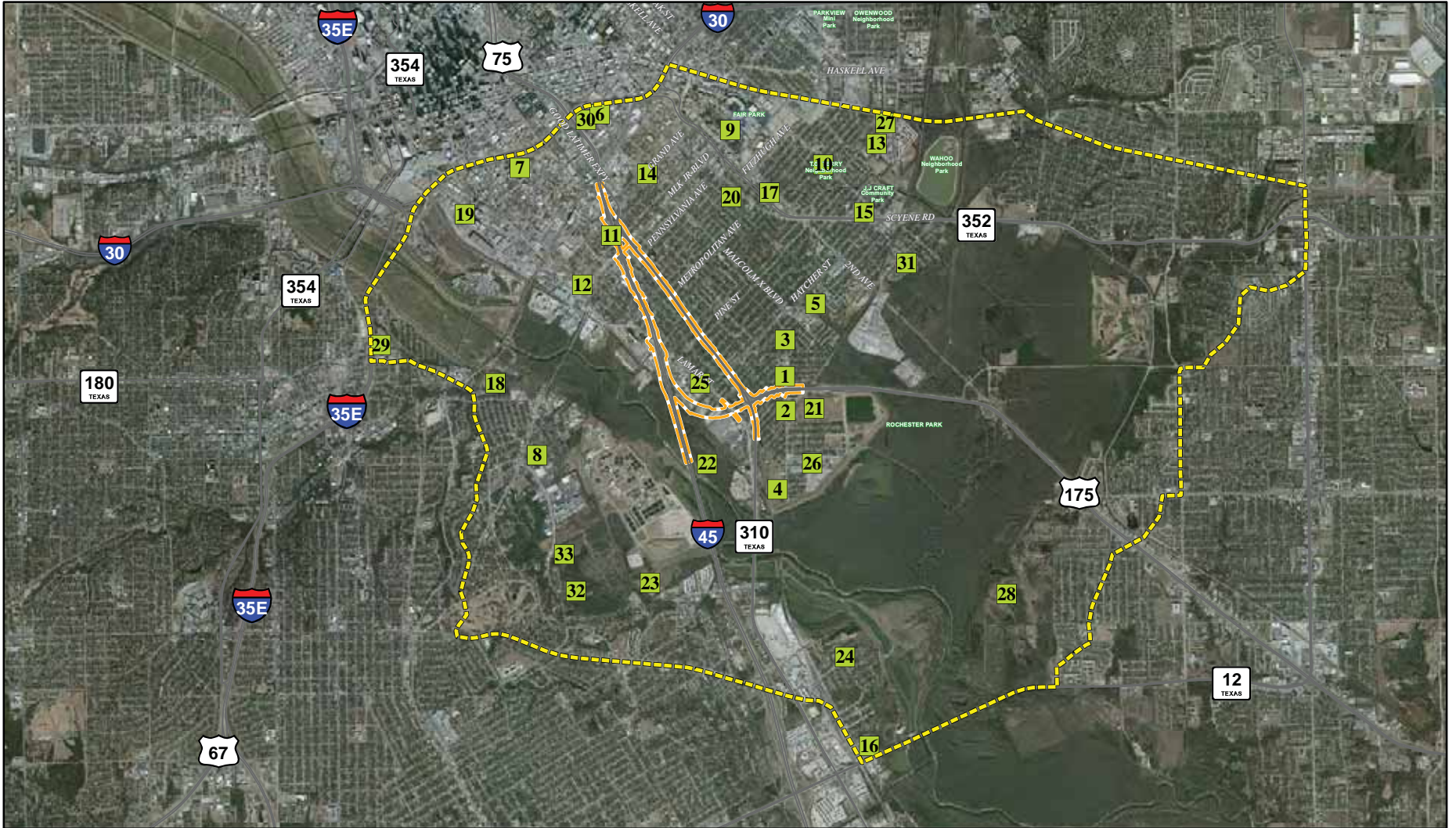
Legend

Biological RSA	CO RSA
Land Use RSA	8-Hour Ozone RSA
Community RSA	MSATs RSA

Data Source of Counties and Highways: NCTCOG

**Resource Study Areas (RSA)
for the Cumulative Impacts Analysis**

SM Wright Project
Dallas, Texas



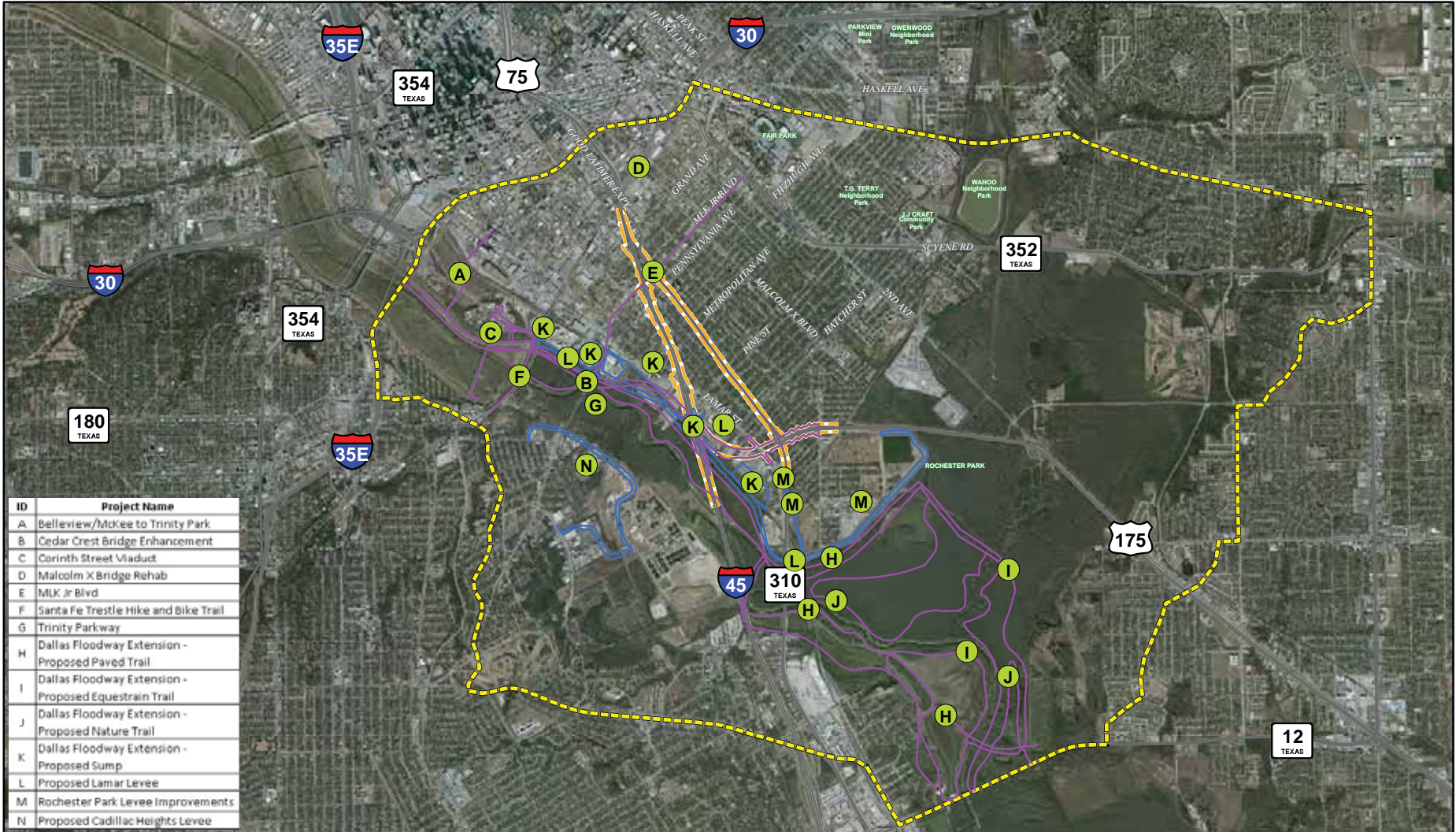
Legend

- 10 Reasonably Foreseeable Development Project
- Project Corridor
- Study Area for Biological Resources

NOTE: Locations are approximate

**Reasonably Foreseeable
Development Projects**

SM Wright Project
Dallas, Texas



Source/Year of Data:
City of Dallas/2010 & NCTCOG/2010

Legend

- Reasonably Foreseeable Project
- Reasonably Foreseeable Flood Control Project
- Reasonably Foreseeable Transportation Project
- Project Corridor
- Study Area for Biological Resources

NOTE: Locations are approximate.

Reasonably Foreseeable Transportation and Flood Control Projects

SM Wright Project
Dallas, Texas

**Habitat Impacts for Reasonably Foreseeable Projects
within the Biological Resources Study Area**

SM Wright Project
Dallas, Texas

Map ID	Project Name	Project Size (acres)	Forest Impacts (acres)	
			Riparian Forest	Upland Forest
DEVELOPMENT PROJECTS (SEE APP. E-2 MAP)				
1	Bexar Street Phase I	2.4	--	--
2	Bexar Street Phase II	6.4	--	--
3	Bexar Street Phase III	1.0	--	--
4	Buckeye Trail Commons - Turner Courts	26.4	--	--
5	Butler-Nelson Cemetery	14.2	--	--
6	Center of Hope Development Project	3.6	--	--
7	Dallas Heritage Village (Old City Park)	11.0	--	--
8	Dallas Police Academy (Cadillac Heights)	22.8	--	--
9	Fair Park Renovations	253.2	--	--
10	Fire Station #44 Replacement	0.4	--	--
11	Fire Station #6 Replacement	0.6	--	--
12	Forest Park	2.4	--	--
13	Frazier Courtyards Single Family Development	6.3	--	--
14	Hall Phase I (J.B. Jackson TOD)	0.5	--	--
15	Hatcher Square TOD Mixed Use	7.8	--	--
16	Joppa Rodeo and Community Park	19.2	--	--
17	Mill City Renaissance Plan	36.1	--	--
18	Moore Gateway Park Master Plan	23.6	--	--
19	Nylo Hotel	1.3	--	--
20	Pittman / Meadow	3.2	--	--
21	Rhodes Terrace	42.0	--	--
22	Rochester Park (West)	84.8	--	--
23	Sargent Park	15.6	--	--
24	South Central / Joppa Gateway	3.7	--	--
25	South Lamar Street Redevelopment	6.5	--	--
26	Southeast Service Center Expansion	46.4	--	--
27	Spring Avenue Redevelopment	12.5	--	--
28	Texas Horse Park at the Trinity	231.6	--	--
29	The Bottom Land Use Plan	119.2	--	--
30	The Cottages at Hickory Crossing	4.4	--	--
31	Willie Mae Butler Park (spray ground)	7.7	--	--
32	Wonderview Park	6.1	--	--
33	Wonderview Project	141.3	17.8	0.2
TRANSPORTATION/FLOOD CONTROL PROJECTS (SEE APP. E-3 MAP)				
A	Belleview/McKee to Trinity Park	2.1	--	--
B	Cedar Crest Bridge Enhancement	0.9	--	--
C	Corinth Street Viaduct	0.8	--	--
D	Malcolm X Bridge Rehabilitation	0.8	--	--
E	MLK Jr. Boulevard Improvements	28.9	--	--
F	Santa Fe Trestle Hike and Bike Trail	1.7	--	--
G	Trinity Parkway	136.5	25.7	0.4
H	Dallas Floodway Extension - Proposed Paved Trail	30.2	17.0	--
I	Dallas Floodway Extension - Proposed Equestrian Trail	25.6	14.9	0.1
J	Dallas Floodway Extension - Proposed Nature Trail	8.8	7.5	--
K	Dallas Floodway Extension - Proposed Sump	71.4	21.0	0.2
L	Proposed Lamar Levee	61.5	33.8	0.2
M	Rochester Park Levee Improvements	35.8	--	--
N	Proposed Cadillac Heights Levee	39.0	1.6	0.1
TOTAL ACRES		1,608.2	139.3	1.2

**Reasonably Foreseeable Projects
within the Community Resources Study Area**

SM Wright Project
Dallas, Texas

Map ID	Project Name	Project Size (acres)
DEVELOPMENT PROJECTS (SEE APP. E-2 MAP)		
1	Bexar Street Phase I	2.4
2	Bexar Street Phase II	6.4
3	Bexar Street Phase III	1.0
4	Buckeye Trail Commons - Turner Courts	26.4
5	Butler-Nelson Cemetery	14.2
11	Fire Station #6 Replacement	0.6
12	Forest Park	2.4
14	Hall Phase I (J.B. Jackson TOD)	0.5
20	Pittman / Meadow	3.2
21	Rhodes Terrace	42.0
22	Rochester Park (West)	84.8
25	South Lamar Street Redevelopment	6.5
26	Southeast Service Center Expansion	46.4
31	Willie Mae Butler Park (spray ground)	7.7
Subtotal for Development Projects		244.5
TRANSPORTATION/FLOOD CONTROL PROJECTS (SEE APP. E-3 MAP)		
B	Cedar Crest Bridge Enhancement	0.9
D	Malcolm X Bridge Rehabilitation	0.8
G	Trinity Parkway	136.5
K	Dallas Floodway Extension - Proposed Sump	71.4
L	Proposed Lamar Levee	61.5
M	William Blair, Jr. Park (formerly Rochester Park) Levee Improvements	35.8
Subtotal for Transportation Projects		306.9
TOTAL ACREAGE FOR ALL PROJECTS		551.4

APPENDIX F
SUPPLEMENTAL DATA

Roadway Corridor Fact Sheet 11 Trinity Parkway/S.M. Wright Parkway

Project Description

The Trinity Parkway is a planned new-location toll road in Dallas extending from the interchange of SH 183 and IH 35E southeast to IH 45. This tollway will create a reliever route to the IH 35E Stemmons Freeway corridor and the downtown Mixmaster. Additionally, a non-tolled connection between IH 45 and SH 310 in southeast Dallas will allow for the removal of the S.M. Wright Freeway (US 175) and its reconstruction as a planned parkway or boulevard.

Corridor Information

ROUTE	LIMITS	COST
S.M. Wright Parkway	IH 45 to US 175/SH 310	\$47,730,000
Trinity Parkway	IH 35E/SH 183 to SH 310	\$1,801,891,000

Demographic Information Within One Mile of Corridor

POPULATION PROFILE		MAJOR EMPLOYERS	
Population	48,664	Parkland Health & Hospital System	9,178
Number of Households	13,779	Children's Medical Center Dallas	5,199
Population Below Poverty	39.6%	Bank of America	4,090
Population over 65	8.6%	Dallas County Sheriff's Office	3,000
African American	51.9%	USPS	2,500
Hispanic	32.7%	Methodist Medical Center Dallas	2,054
Asian/Pacific Islander	0.5%	Dallas Morning News	1,700
American Indian/Native Alaskan	0.4%	Conwell Corp.	1,507
Total Minority	86.0%		

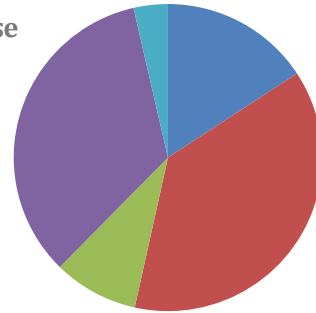
Source: Census 2000

Source: NCTCOG Employment Database, 2010

Legislative Districts Within One Mile of Corridor

TEXAS SENATE	TEXAS HOUSE OF REPRESENTATIVES	UNITED STATES CONGRESS
John J. Carona-16	Eric Johnson-100	Eddie Bernice Johnson-30
Royce West-23	Rafael Anchia-103	Pete Sessions-32
	Roberto Alonzo-104	
	Dan Branch-108	
	Barbara Mallory Caraway-110	

Land Use



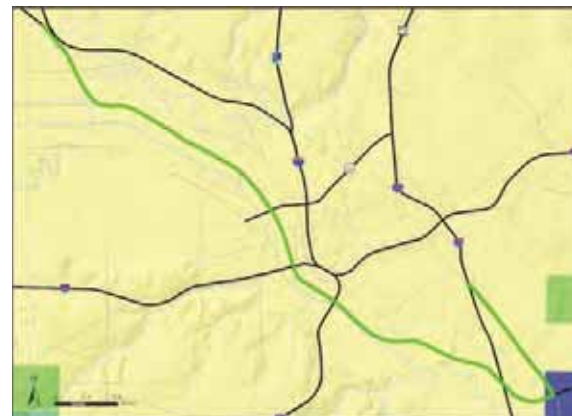
- Residential
15.8%
- Commercial/Industrial
37.7%
- Infrastructure
8.9%
- Vacant/Parkland
34.1%
- Other
3.6%

NCTCOG Regional Ecosystem Framework Score* (Range: 14 - 37)

SUBWATERSHED NAME	REF COMPOSITE SCORE
Headwaters Turtle Creek	16
Turtle Creek-Trinity River	22
City of Dallas-White Rock Creek	24
Five Mile Creek-Trinity River	32

* Lower REF score indicates less resource vulnerability, higher score indicates more resource vulnerability.

Ecological Importance in Corridor



Legend

GISSTData_NEWHUCS

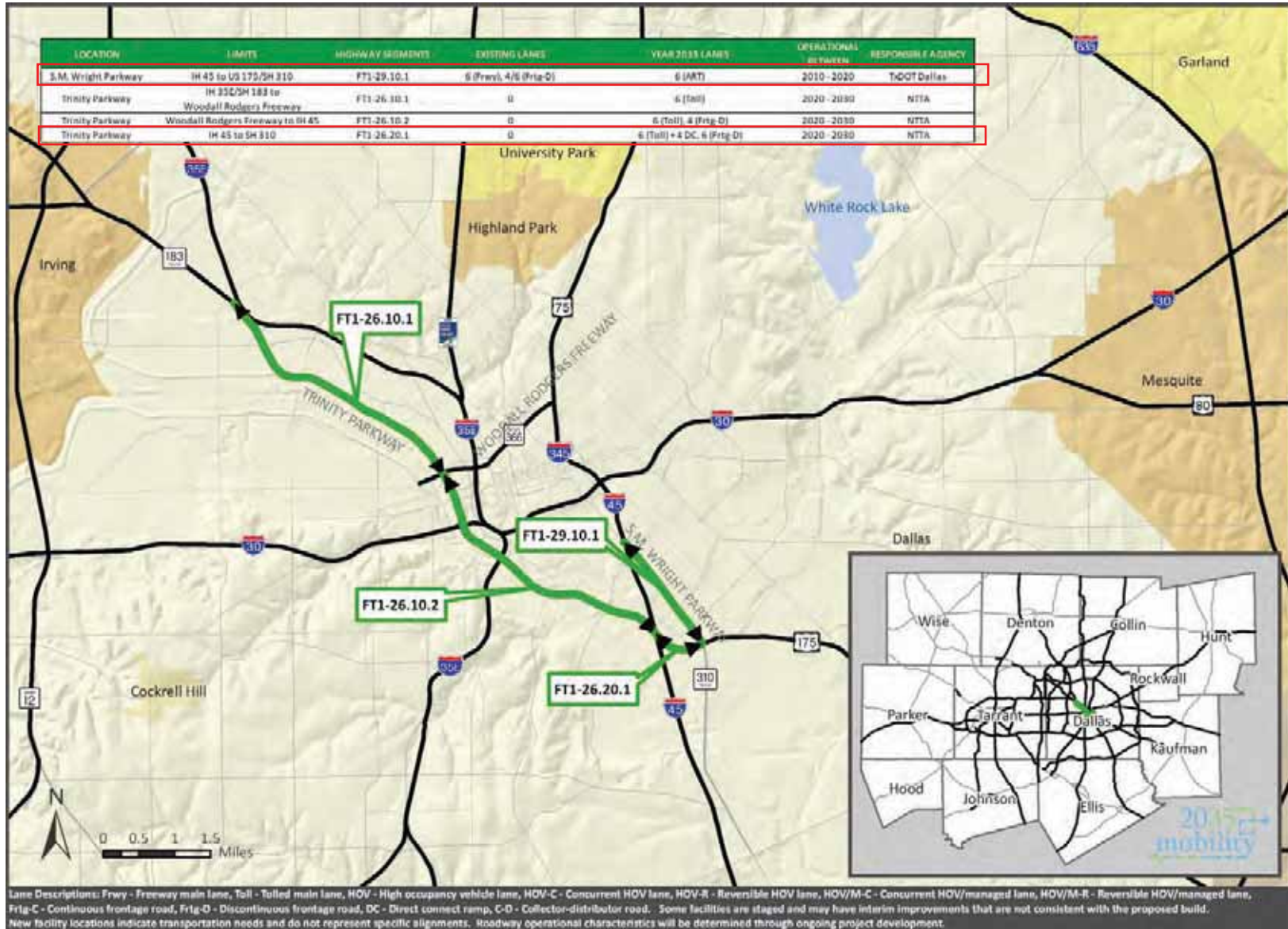
REAPComp

- 1 - Lowest Ecological Importance
- 2 - Medium-low Ecological Importance
- 3 - Medium Ecological Importance
- 4 - Medium-high Ecological Importance
- 5 - High Ecological Importance

EPA's Regional Ecosystem Assessment Protocol Ecological Importance is a combination of Diversity, Rarity, and Sustainability Layers. The top 1% highly important ecological areas in each ecoregion are blue, followed by the top 2 to 10%, 11 to 25%, 26 to 50%, and 51 to 100% (yellow). This layer should be used as a screening tool to identify the optimum ecological areas for protection and mitigation. More information at www.nctcog.org/traces.



Trinity Parkway/S.M. Wright Parkway



Fact Sheet ID	Project Corridor	Location	Limits	MTP ID	Lane Summary *		Year Operational Between **	Responsible Agency ***	YOE Total Project Cost
					Existing	2035			
9	SH 114/SH 121 DFW Connector	SH 121	FM 2499 to IH 635	FT1-11.50.3	4 (Frwy), 4/6 (Frtg-C)	8 (Frwy) + 7 CD, 4/6 (Frtg-C)	2010 - 2020	TxDOT Fort Worth (CDA)	\$195,566,000
9	SH 114/SH 121 DFW Connector	SH 121	IH 635 to SH 114	FT1-11.60.1	8 (Frwy)	10 (Frwy) + 9 CD, 6 (Frtg-D)	2010 - 2020	TxDOT Fort Worth (CDA)	cost included above
9	SH 114/SH 121 DFW Connector	SH 121	SH 114 to SH 360	FT1-11.70.1	4 (Frwy), 4 (Frtg-D)	6 (Frwy) + 7 CD, 4/6 (Frtg-D)	2010 - 2020	TxDOT Fort Worth (CDA)	\$75,518,000
9	SH 114/SH 121 DFW Connector	SH 360	SH 121 to Stone Myers Parkway	FT1-9.10.1	4 (Frwy)	5 (Frwy)	2010 - 2020	TxDOT Fort Worth (CDA)	cost included above
10	SH 121 Southwest Parkway/Chisholm Trail	IH 30	SH 121 to Henderson Street	FT1-28.20.3	6 (Frwy), 4 (Frtg-C)	8 (Frwy), 4 (Frtg-C)	2010 - 2020	TxDOT Fort Worth	\$24,644,000
10	SH 121 Southwest Parkway/Chisholm Trail	IH 30	Henderson Street to IH 35W	FT1-28.20.4	10 (Frwy)	10 (Reconstruct)	2010 - 2020	TxDOT Fort Worth	cost included above
10	SH 121 Southwest Parkway/Chisholm Trail	Southwest Parkway	IH 30 to IH 20	FT1-31.10.1	0	6 (Toll), 4/6 (Frtg-D)	2010 - 2020	NTTA	\$1,485,472,000
10	SH 121 Southwest Parkway/Chisholm Trail	Southwest Parkway	IH 20 to Altamesa Blvd.	FT1-31.20.1	0	6 (Toll), 4/6 (Frtg-D)	2010 - 2020	NTTA	cost included above
10	SH 121 Southwest Parkway/Chisholm Trail	Southwest Parkway	Altamesa Blvd. to FM 1187	FT1-31.20.2	0	4 (Toll)	2010 - 2020	NTTA	cost included above
10	SH 121 Southwest Parkway/Chisholm Trail	Chisholm Trail Parkway	FM 1187 to US 67	FT1-31.20.3	0	4 (Toll)	2030 - 2035 **	NTTA	cost included above
11	Trinity Parkway	S.M. Wright Parkway	IH 45 to US 175/SH 310	FT1-29.10.1	6 (Frwy), 4/6 (Frtg-D)	6 (ART)	2010 - 2020	TxDOT Dallas	\$47,730,000
11	Trinity Parkway	Trinity Parkway	IH 35E/SH 183 to Woodall Rodgers Freeway	FT1-26.10.1	0	6 (Toll)	2020 - 2030	NTTA	\$1,801,891,000
11	Trinity Parkway	Trinity Parkway	Woodall Rodgers Freeway to IH 45	FT1-26.10.2	0	6 (Toll), 4 (Frtg-D)	2020 - 2030	NTTA	cost included above
11	Trinity Parkway	Trinity Parkway	IH 45 to SH 310	FT1-26.20.1	0	6 (Toll) + 4 DC, 6 (Frtg-D)	2020 - 2030 **	NTTA	cost included above
12		Collin County Loop	Dallas North Tollway to US 75	FT1-110.20.1	0	6 (Toll), 4/6 (Frtg-C)	2020 - 2030 **	NTTA	\$1,110,500,000
12		Collin County Loop	US 75 to SH 121	FT1-110.30.1	0	6 (Toll), 4/6 (Frtg-C)	2020 - 2030 **	NTTA	\$403,000,010
13		Dallas North Tollway	FM 121 to FM 428	FT1-21.10.1	0	6 (Toll), 6 (Frtg-D)	2020 - 2030	NTTA	\$561,000,000
13		Dallas North Tollway	FM 428 to US 380	FT1-21.10.2	0	6 (Toll), 6/8 (Frtg-C)	2010 - 2020	NTTA	\$433,000,000
14		Dallas North Tollway	Sam Rayburn Tollway (SH 121) to Parker Road	FT1-21.20.1	6 (Toll), 4/6 (Frtg-C)	8 (Toll), 4/6 (Frtg-C)	2010 - 2020	NTTA	\$211,000,000
14		Dallas North Tollway	Parker Road to President George Bush Turnpike	FT1-21.20.2	6 (Toll), 4/6 (Frtg-C)	8 (Toll), 4/8 (Frtg-C)	2010 - 2020	NTTA	\$186,200,000
14		Dallas North Tollway	President George Bush Turnpike to Royal Lane	FT1-21.20.3	6 (Toll), 4/10 (Frtg-D)	8 (Toll), 4/10 (Frtg-D)	2030 - 2035	NTTA	cost included above
15		IH 30 - Tarrant County	Ballpark Way to President George Bush Turnpike - Western Extension (SH 161)	FT1-28.40.4	6 (Frwy) + 1 (HOV-R)	6 (Frwy) + 2 (HOV/M-R), 4/6 (Frtg-D)	2010 - 2020	TxDOT Fort Worth	\$5,000,000
16		IH 30 - Dallas County	President George Bush Turnpike - Western Extension (SH 161) to Belt Line Road	FT1-28.50.1	6 (Frwy) + 2 (HOV-R)	8 (Frwy) + 2 (HOV/M-R), 6 (Frtg-C)	2010 - 2020	TxDOT Dallas	\$71,169,000
16		IH 30 - Dallas County	Belt Line Road to Loop 12	FT1-28.50.2	6 (Frwy) + 2 (HOV-R), 4/6 (FRTG-D)	8 (Frwy) + 2/3 (HOV/M-R), 4/6 (Frtg-D)	2010 - 2020	TxDOT Dallas	cost included above
16		IH 30 - Dallas County	Loop 12 to Cockrell Hill Road	FT1-28.50.3	6 (Frwy) + 1 (HOV-EB), 6 (Frtg-D)	8 (Frwy) + 2/3 (HOV/M-R), 6 (Frtg-D)	2010 - 2020	TxDOT Dallas	cost included above

MTP ID	County	Street Name	From Street Name	To Street Name	2012 Lanes	2035 Lanes	Operational Between	CSJ_1	CSJ_2	COG_1	COG_2	YOE Estimated Cost
RSA1-61.45	Dallas	Riverfront Blvd.	Park Road	Trinity Parkway	0	4	2012-2020					\$371,280
RSA1-61.05	Dallas	Riverfront Blvd.	Irving Blvd.	Continental Blvd.	6	8	2020-2030					\$5,241,600
RSA1-83.1	Dallas	Rowlett Road	Roan Road	Miller Road	6	6	2010-2012	0918-45-227		1492.00	83032.00	
RSA1-83.0	Dallas	Rowlett Road	Belt Line Road/Broadway	Roan Road	4	6	2012-2020	0918-45-227		1492.00	83032.00	\$3,712,800
RSA1-83.2	Dallas	Rowlett Road	Miller Road	Century Drive	4	6	2012-2020	0918-45-807				\$1,113,840
RSA1-57.0	Dallas	Royal Lane	Riverside Drive	Luna Road	4	6	2012-2020					\$2,489,760
RSA1-84.3	Dallas	S.M. Wright Parkway	Grand Avenue	US 175	N/A	6	2012-2020					\$3,385,200
RSA1-84.4	Dallas	S.M. Wright Parkway	US 175	Budd Street	4	6	2012-2020	0092-01-052				\$764,400
RSA1-39.05	Dallas	SH 289/Preston Road	Northwest Highway/Loop 12	Lovers Lane	4	6	2012-2020					\$2,184,000
RSA1-58.2	Dallas	SH 342	Pleasant Run Road	8th Street	6	6	2010-2012					
RSA1-58.1	Dallas	SH 342	8th Street	Loop 9	2	4	2020-2030					\$31,799,040
RSA1-62.1	Dallas	SH 356	Wildwood Drive	Regal Row ramps	4	6	2012-2020					\$1,703,520
RSA1-63.4	Dallas	SH 356	Nursery Road	Irving Blvd. E/6th Street	4	6	2012-2020					\$1,266,720
RSA1-63.05	Dallas	SH 356/Irving Blvd.	West end of couplet	Schulze Drive	4	6	2012-2020					\$305,760
RSA1-63.1	Dallas	SH 365/Irving Blvd.	Schulze Drive	O'Connor Road	5	6	2012-2020					\$305,760
RSA1-44.2	Dallas	SH 78	0.2 miles NE of Williford Road (Collin County line)	Firewheel Parkway	4	6	2012-2020	0281-03-043		2920.00		\$5,612,880
RSA1-43.2	Dallas	Shiloh Road	McCree Road	IH 635 frontage NB	6	6	2010-2012			82469.00		
RSA1-43.3	Dallas	Shiloh Road	Kingsley Road	McCree Road	6	6	2010-2012			82469.00		
RSA1-43.0	Dallas	Shiloh Road	PGBT East Branch (SH 190) frontage EB	Kingsley Road	4	6	2012-2020					\$15,353,520
RSA1-26.0	Dallas	Spur 348	SH 114	Riverside (Elm Fork Trinity River)	4	6	2012-2020	0353-04-068				\$1,375,920
RSA1-26.1	Dallas	Spur 348	Riverside (Elm Fork Trinity River)	Luna Road	4	6	2020-2030					\$5,940,480
RSA1-74.2	Dallas	Tom Braniff Drive	0.3 miles N of SH 114	SH 114	2	4	2012-2020					\$786,240
RSA1-80.5	Dallas	Valley View Lane	Alpha Road	IH 635 Midway ramps	4	4	2010-2012					
RSA1-74.2	Dallas	Wildwood Drive	California Crossing	0.3 miles N of SH 114	2	4	2020-2030					\$7,250,880
RSA1-375.2	Denton	Eldorado Parkway	E end of Lake Bridge	French Settlement Rd.	2	4	2030-2035					\$26,142,480
RSA1-375.25	Denton	Eldorado Parkway	French Settlement Rd.	FM 720	2	6	2030-2035 *					\$7,676,760
RSA1-369.0	Denton	Elm Street	Eagle Drive	Carroll Blvd.	4	6	2020-2030					\$1,572,480
RSA1-378.1	Denton	Elm Street/Locust Street couplet	US 380/University Drive	Congress Street	4	4	2010-2012					
RSA1-378.2	Denton	Elm Street/Locust Street couplet	Congress Street	Hickory Street	4	4	2010-2012					
RSA1-369.1	Denton	Elm Street/Locust Street couplet	Hickory Street	Eagle Drive	2/3	3/3	2020-2030					\$4,892,160

CSJs: 0092-01-052, 0197-02-108, & 0092-14-081

MTP ID	Facility	Connection	Staging	Description	Operational Between	Study Reference
IN1-7.6.1	Loop 9	IH 35E		New Interchange	2020 - 2030	
IN1-27.6.1	Loop 9	IH 45		New Interchange	2020 - 2030	
IN1-1.6.1	Loop 9	US 287		New Interchange	2020 - 2030	
IN1-6.38.1	Loop 9	US 67		New Interchange	2020 - 2030	
IN1-12.529.1	SH 114	FM 156		Reconstruct	2012 - 2020	
IN1-10.12.1	SH 114	SH 170		Reconstruct	2012 - 2020	
IN1-11.512.1	SH 121	SH 5		Reconstruct	2012 - 2020	
IN1-11.23.2	SH 121 (South)	US 75		Reconstruct	2012 - 2020	SH 121 Collin County Toll Road (0364-04-040)
IN1-15.30.1	SH 161	IH 20	Phase I	New Interchange	2012 - 2020	(2374-04-054)
IN1-15.30.1	SH 161	IH 20	Phase II	New Interchange	2012 - 2020	
IN1-17.22.1	SH 183	Loop 12		Reconstruct	2012 - 2020	(0094-03-101, 0581-02-124)
IN1-6.30.1	East Branch (SH 190)	IH 20		New Interchange	2020 - 2030	
IN1-28.121.1	East Branch (SH 190)	President George Bush Turnpike/SH 190	Phase II (Full Interchange)	Reconstruct	2020 - 2030	
IN1-18.32.1	East Branch (SH 190)	US 80		New Interchange	2020 - 2030	
IN1-9.1.1	SH 360	US 287		New Interchange	2012 - 2020	
IN1-12.42.1 IN1-22.42.1	Spur 482	SH 114 & SH 183		Reconstruct	2012 - 2020	(0094-03-060)
IN1-34.575.1	Spur 557	CR 305		New Interchange	2020 - 2030	
IN1-7.26.1	Trinity Parkway	IH 35E		New Interchange	2020 - 2030	
IN1-27.26.1	Trinity Parkway	IH 45	Phase II	New Interchange	2012 - 2020	
IN1-22.26.1	Trinity Parkway	SH 183		New Interchange		
IN1-26.36.1	Trinity Parkway	US 175/S.M. Wright/IH 45	Phase I	New Interchange	2012 - 2020	
IN1-1.505.1	US 287	BU 287/Ennis Parkway		Reconstruct	2012 - 2020	
IN1-1.560.1	US 287	Ensign Road		Grade Separation	2012 - 2020	
IN1-1.561.1	US 287	FM 1183/Oak Grove Road		New Interchange	2020 - 2030	
IN1-1.562.1	US 287	Rudd Road		New Interchange	2020 - 2030	
IN1-1.33.1	US 287	SH 34		Reconstruct	2020 - 2030	
IN1-2.526.1	US 380	SH 289 (Preston Road)		Reconstruct	2012 - 2020	
IN1-23.583.1	US 75	Eldorado Parkway		Reconstruct SPUI	2012 - 2020	
IN1-23.120.1	US 75	President George Bush Turnpike		Reconstruct	2012 - 2020	(0047-06-133)
IN1-23.120.1 IN1-23.130.1	US 75	President George Bush Turnpike to IH 635		Various Managed Lane Connections	2012 - 2020	

Appendix E-1, Page 5

MTP ID	Facility	From	To	Avg Daily Vol	Avg Peak Vol/Lane	Avg Peak Cap/Lane	Pk Hr LOS	Lanes*	Lanes Warranted
SH 190									
39.10.1	SH 190	IH 30/PGBT	IH 20	26,500	571	2,460	C+	4 / 6	2
SH 360 Toll									
9.40.4	SH 360 Toll	Lone Star Road	US 287	20,800	345	2,057	C+	6 / 8	2
9.50.1	SH 360 Toll	US 287	US 67	10,600	176	2,157	C+	6 / 8	2
Spur 366									
44.10.1	Spur 366	US 75	IH 35E	194,500	2,738	2,113	F	4 / 10	12
44.10.2	Spur 366	IH 35E	Beckley Avenue	83,100	1,607	2,133	D	4 / 6	6
Spur 408									
19.10.2	Spur 408	Spur 303/Kiest Blvd.	IH 20	130,400	2,321	2,157	F	6 / 8	8
Spur 482									
42.10.1	Spur 482	SH 183	IH 35E	43,000	1,159	2,600	C+	4 / 6	2
Spur 557									
34.10.1	Spur 557	US 80	IH 20	40,600	1,342	2,300	C+	4	4
Trinity Parkway									
26.10.1	Trinity Parkway	SH 183/IH 35E	Woodall Rodgers Freeway (Spur 366)	121,100	1,756	2,188	E	6 / 10	8
26.10.2	Trinity Parkway	Woodall Rodgers Freeway (Spur 366)	IH 45/US 175	107,300	1,778	2,100	E	6 / 8	6
26.20.1	Trinity Parkway	IH 45/US 175	SH 310	114,800	2,063	2,500	E	6 / 8	6
US 175									
36.10.1	US 175	SH 310	IH 20	139,200	2,168	2,275	E	6 / 8	8
36.20.1	US 175	IH 20	Belt Line Road	105,100	3,274	2,550	F	4 / 6	6
36.20.2	US 175	Belt Line Road	Loop 9 (Kaufman County Line)	85,300	2,657	2,300	F	4	6
36.30.1	US 175	Loop 9 (Dallas County Line)	FM 148	71,800	2,237	2,300	E	4	4
36.30.2	US 175	FM 148	CR 4106	64,500	2,009	2,300	E	4	4
36.30.3	US 175	CR 4106	FM 1390	56,000	1,744	2,300	D	4	4
36.30.4	US 175	FM 1390	SH 34	51,000	1,589	2,300	D	4	4
36.30.5	US 175	SH 34	FM 2880	46,900	1,461	2,300	C+	4	4
US 287									
1.100.1	US 287	Old Fort Worth Road/US 67	Midlothian Parkway	45,000	1,303	2,475	C+	4 / 6	4
1.100.3	US 287	BU 287 (W of Waxahachie)	IH 35E	39,000	1,375	2,300	C+	4	4
1.110.1	US 287	IH 35E	FM 878/Wyatt Street	39,700	1,399	2,300	C+	4	4

MTP ID	Facility	From	To	Avg Daily Vol	Avg Peak Vol/Lane	Avg Peak Cap/Lane	Pk Hr LOS	Lanes*	Lanes Warranted
5.20.1	IH 35W	SH 114	Eagle Parkway	99,300	3,282	2,300	F	4	6
IH 45									
27.10.1	IH 45	IH 30/IH 345	S.M. Wright Parkway	203,500	2,536	2,160	F	10	12
27.10.2	IH 45	SM Wright Parkway	Trinity Parkway/US 175	147,300	3,059	2,500	F	6 / 8	8
27.20.1	IH 45	Trinity Parkway/US 175	IH 20	117,400	2,438	2,300	F	6	8
27.30.1	IH 45	IH 20	Pleasant Run Road	120,800	2,839	2,300	F	6	8
27.30.2	IH 45	Pleasant Run Road	Loop 9	105,100	2,470	2,300	F	6	8
27.40.1	IH 45	Loop 9	1.1 miles S of Malloy Bridge Road (Ellis County Line)	100,700	2,373	2,300	F	6	8
27.40.2	IH 45	1.1 miles S of Malloy Bridge Road (Dallas County Line)	BU 45	87,400	2,060	2,300	E	6	6
27.40.3	IH 45	BU 45	SH 34	79,700	1,878	2,317	E	6 / 8	6
27.40.4	IH 45	SH 34	US 287	72,600	1,711	2,350	D	6 / 8	6
27.40.5	IH 45	US 287	.375 miles S of FM 1182 (Navarro County Line)	97,900	2,307	2,233	F	4 / 6	8
IH 635 (East)									
131.10.1	IH 635 (East)	US 75	Royal Lane/Miller Road	212,600	2,865	2,325	F	6 / 10	10
131.10.2	IH 635 (East)	Royal Lane/Miller Road	SH 78	208,200	2,805	2,313	F	8 / 10	10
131.10.3	IH 635 (East)	SH 78	IH 30	210,700	2,524	2,167	F	8 / 12	10
131.20.1	IH 635 (East)	IH 30	US 80	194,200	2,253	2,130	F	8 / 12	12
131.20.2	IH 635 (East)	US 80	IH 20	153,400	2,224	2,188	F	6 / 10	10
IH 635 (North)									
130.10.1	IH 635 (North)	SH 121	Royal Lane	141,400	1,640	2,370	D	10 / 12	8
130.10.2	IH 635 (North)	Royal Lane	Belt Line Road	135,100	2,612	2,433	F	6 / 8	8
130.10.3	IH 635 (North)	Belt Line Road	PGBT	131,000	2,533	2,333	F	6 / 8	8
130.20.1	IH 635 (North)	PGBT	Luna Road	257,100	2,445	2,227	F	10 / 12	12
130.20.2	IH 635 (North)	Luna Road	IH 35E	225,100	2,140	2,127	F	10 / 12	12
130.30.1	IH 635 (North)	IH 35E	Webb Chapel Road	208,300	2,495	2,144	F	8 / 12	10
130.30.2	IH 635 (North)	Webb Chapel Road	Hillcrest Road	258,700	3,007	2,356	F	6 / 12	14
Loop 9									
6.10.1	Loop 9	US 287	IH 20	12,100	284	2,167	C+	4 / 6	2
PGBT (East)									
121.10.1	PGBT (East)	US 75	SH 78	106,900	1,378	2,078	D	6 / 10	6

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	DALLAS	0092-01-052	US 175	E,R	DALLAS	TXDOT-DALLAS	\$5,900,000
LIMITS FROM:	ON SM WRIGHT PHASE 2 (EXISTING SM WRIGHT RECONSTRUCTION FROM US 175/ SH 310					REV DATE:	07/2012
LIMITS TO:	IH 45					MPO PROJECT ID:	20062
TIP	RECONSTRUCT FREEWAY TO 6 LANE ARTERIAL WITH TRANSITIONS TO SH 310 (NORTH OF BUDD ST.)					FUNDING CATEGORY:	3P12
DESCRIPTION:						MTP REFERENCE:	FT1-29.10.1, RSA1-84.3, RSA1-84.4
REMARKS:	R PHASE IS REALLY UTILITY FUNDING; CONSTRUCTION FUNDING INCLUDES \$3.088 M OF CE; RTR 121-DA2 FUNDS						

Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category	
			Federal	State	Regional	Local	Local Contribution		
Preliminary Engineering:	\$1,000,000	\$5,900,000	3P12:	\$0	\$5,900,000	\$0	\$0	\$0	\$5,900,000
Right Of Way:	\$4,900,000								
Construction:	\$37,400,000								
Construction Engineering	\$2,395,330								
Contingencies:	\$0								
Indirects:	\$0								
Bond Financing:	\$0								
Total Project Cost:	\$45,695,330								
Funding by Share:			\$0	\$5,900,000	\$0	\$0	\$0	\$5,900,000	

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	DALLAS	0092-14-081	IH 45	C,E,R	DALLAS	TXDOT-DALLAS	\$22,896,000
LIMITS FROM:	PROPOSED US 175					REV DATE:	07/2012
LIMITS TO:	PROPOSED SM WRIGHT PARKWAY					MPO PROJECT ID:	11266
TIP	PAVEMENT WIDENING, RESTRIPIING, AND RAMP MODIFICATIONS TO ACCOMMODATE INTERCHANGE WITH US 175					FUNDING CATEGORY:	2M,3RTR121,3P12
DESCRIPTION:						MTP REFERENCE:	FT1-26.20.1, IN1-26.36.1
REMARKS:	R ALSO = UTILITIES FUNDING; PE = CE FUNDING; RTR 121 - DA2 & RTR 121 - DA1 FUNDS						

Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category	
			Federal	State	Regional	Local	Local Contribution		
Preliminary Engineering:	\$1,536,000	\$22,896,000	2M:	\$13,948,800	\$3,487,200	\$0	\$0	\$0	\$17,436,000
Right Of Way:	\$5,460,000								
Construction:	\$15,900,000								
Construction Engineering	\$966,036								
Contingencies:	\$0								
Indirects:	\$0								
Bond Financing:	\$0								
Total Project Cost:	\$23,862,036								
Funding by Share:			\$13,948,800	\$5,647,200	\$3,300,000	\$0	\$0	\$22,896,000	

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	DALLAS	0094-03-065	SH 183	E,R	IRVING	TXDOT-DALLAS	\$73,620,000
LIMITS FROM:	WEST OF SH 161					REV DATE:	07/2012
LIMITS TO:	0.66 MILE WEST OF LOOP 12					MPO PROJECT ID:	20210
TIP	WIDEN EXISTING FACILITY FROM 6 TO 8 LANES, ADD 4 CONCURRENT HOV/MANAGED LANES AND 4/6 LANES FRONTAGE ROADS					FUNDING CATEGORY:	3RTR121,2M
DESCRIPTION:						MTP REFERENCE:	FT1-22.30.1
REMARKS:	DFW RTR-DE2 & DA2 FUNDS						

Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Funding By Category	
			Federal	State	Regional	Local	Local Contribution		
Preliminary Engineering:	\$1,000,000	\$73,620,000	3RTR121:	\$0	\$0	\$30,120,000	\$0	\$0	\$30,120,000
Right Of Way:	\$72,620,000								
Construction:	\$721,333,358								
Construction Engineering	\$32,460,001								
Contingencies:	\$50,493,335								
Indirects:	\$35,273,201								
Bond Financing:	\$0								
Total Project Cost:	\$913,179,896								
Funding by Share:			\$34,800,000	\$8,700,000	\$30,120,000	\$0	\$0	\$73,620,000	

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	DALLAS	0197-02-108	US 175	C,E,R	DALLAS	TXDOT-DALLAS	\$78,244,000
LIMITS FROM:	ON SM WRIGHT PKWY PHASE 1/FORMERLY TRINITY PKWY PHASE 1/US 175 FROM IH 45					REV DATE:	07/2012
LIMITS TO:	EAST OF BEXAR ST.					MPO PROJECT ID:	20209
TIP	EXTEND US 175, RECONSTRUCT INTERCHANGE WITH SM WRIGHT/SH 310, 2 LANE DIRECT					FUNDING CATEGORY:	2M,3RTR121,3P12
DESCRIPTION:	CONNECTORS IN EACH DIRECTION WEST OF THE INTERCHANGE; RECONSTRUCT MAINLANES EAST OF INTERCHANGE TO BEXAR ST.; 2/3 LANE FRONTAGE ON EACH SIDE BETWEEN LAMAR AND BEXAR ST.					MTP REFERENCE:	FT1-26.20.1, IN1-26.36.1
REMARKS:	PROP 12 (PE/ROW) FUNDS; CONSTRUCTION FUNDING INCLUDES \$4.944 OF CE						

Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Local Contribution	Funding By Category
			Federal	State	Regional	Local			
Preliminary Engineering:	\$4,994,000	\$78,244,000	2M:	\$15,795,200	\$3,948,800	\$0	\$0	\$0	\$19,744,000
Right Of Way:	\$11,700,000		3RTR121:	\$0	\$0	\$47,000,000	\$0	\$0	\$47,000,000
Construction:	\$61,550,000		3P12:	\$0	\$11,500,000	\$0	\$0	\$0	\$11,500,000
Construction Engineering	\$8,428,410		:	:	:	:	:	:	:
Contingencies:	\$13,110,860		:	:	:	:	:	:	:
Indirects:	\$9,158,872		:	:	:	:	:	:	:
Bond Financing:	\$0		:	:	:	:	:	:	:
Total Project Cost:	\$108,942,142		Funding by Share:	\$15,795,200	\$15,448,800	\$47,000,000	\$0	\$0	\$78,244,000

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	COLLIN	0281-02-039	SH 78	C,E,R	WYLIE	TXDOT-DALLAS	\$27,429,047
LIMITS FROM:	SPRING CREEK PKWY					REV DATE:	07/2012
LIMITS TO:	SH 205					MPO PROJECT ID:	20036
TIP	WIDEN 2 TO 6 LANE DIVIDED					FUNDING CATEGORY:	3RTR121
DESCRIPTION:						MTP REFERENCE:	RSA1-212.1
REMARKS:	DFW RTR-CC1 FUNDS; MINOR URBAN ARTERIAL; COLLIN COUNTY LOCAL CONTRIBUTION CREDIT PROJECT						

Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Local Contribution	Funding By Category
			Federal	State	Regional	Local			
Preliminary Engineering:	\$800,000	\$27,429,047	3RTR121:	\$0	\$0	\$27,429,047	\$0	\$0	\$27,429,047
Right Of Way:	\$5,000,000		:	:	:	:	:	:	:
Construction:	\$21,629,047		:	:	:	:	:	:	:
Construction Engineering	\$927,023		:	:	:	:	:	:	:
Contingencies:	\$1,339,033		:	:	:	:	:	:	:
Indirects:	\$1,007,365		:	:	:	:	:	:	:
Bond Financing:	\$0		:	:	:	:	:	:	:
Total Project Cost:	\$30,702,468		Funding by Share:	\$0	\$0	\$27,429,047	\$0	\$0	\$27,429,047

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR	YOE COST
DALLAS	DALLAS	0353-02-053	SH 114	E,R	ROANOKE	TXDOT-DALLAS	\$250,000
LIMITS FROM:	AT UP RAILROAD UNDERPASS					REV DATE:	07/2012
LIMITS TO:	IN ROANOKE DOT NO 795 342V					MPO PROJECT ID:	51060
TIP	REPLACE RAILROAD UNDERPASS					FUNDING CATEGORY:	SBPE,S102
DESCRIPTION:						MTP REFERENCE:	MO3-002
REMARKS:							

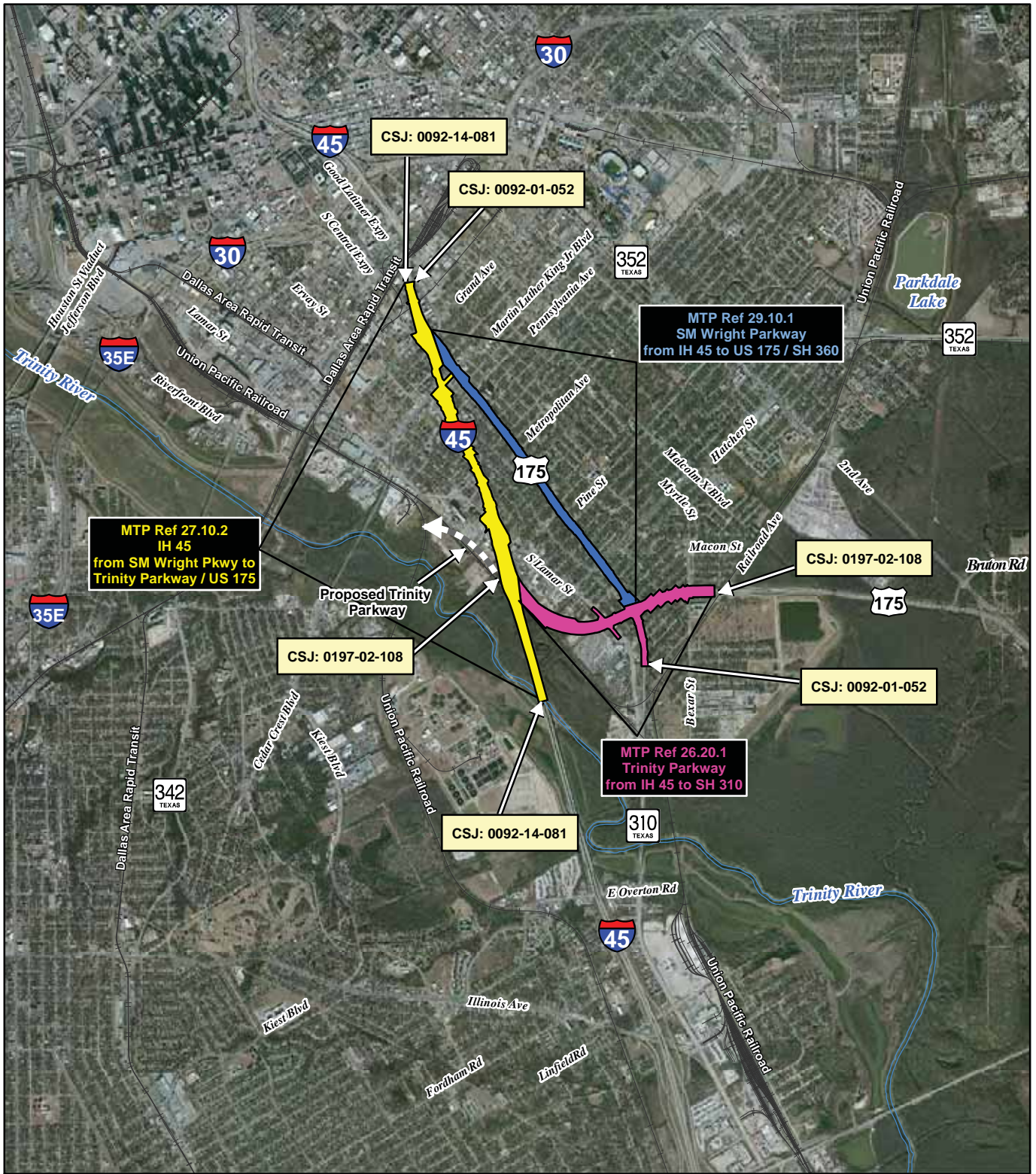
Project History:

Total Project Cost Information:		Cost of Approved Phases:	Authorized Funding by Category/Share:					Local Contribution	Funding By Category
			Federal	State	Regional	Local			
Preliminary Engineering:	\$150,000	\$250,000	SBPE:	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Right Of Way:	\$100,000		S102:	\$80,000	\$20,000	\$0	\$0	\$0	\$100,000
Construction:	\$10,732,000		:	:	:	:	:	:	:
Construction Engineering	\$141,791		:	:	:	:	:	:	:
Contingencies:	\$0		:	:	:	:	:	:	:
Indirects:	\$0		:	:	:	:	:	:	:
Bond Financing:	\$0		:	:	:	:	:	:	:
Total Project Cost:	\$11,123,791		Funding by Share:	\$80,000	\$170,000	\$0	\$0	\$0	\$250,000

DISTRICT	COUNTY	CSJ	HWY	PHASE	CITY	PROJECT SPONSOR
DALLAS	DENTON	0081-04-038	US 377	E	OTHER	TXDOT-DALLAS
LIMITS FROM:	NORTH OF HICKORY CREEK					REV DATE: 07/2012
LIMITS TO:	FM 1830					MPO PROJECT ID: 55004
TIP	RECONSTRUCT AND WIDEN 2 LANE RURAL HIGHWAY AS A 4 LANE DIVIDED URBAN					MTP REFERENCE: RSA1-368.2
DESCRIPTION:						
REMARKS:	ADD TO TIP/STIP; PASS THRU FUNDED					
						Project History:
DALLAS	COLLIN	0091-03-022	SH 289	E	OTHER	TXDOT-DALLAS
LIMITS FROM:	N BUS 289C, NORTH OF CELINA					REV DATE: 07/2012
LIMITS TO:	N CR 60/CR 107 (GRAYSON C/L)					MPO PROJECT ID: 54023
TIP	RECONSTRUCT AND WIDEN 2 LN RURAL HIGHWAY TO 6 LNS					MTP REFERENCE: RSA1-202.1
DESCRIPTION:						
REMARKS:						
						Project History:
DALLAS	DALLAS	0092-01-052	US 175	C	DALLAS	TXDOT-DALLAS
LIMITS FROM:	ON SM WRIGHT PHASE 2 (EXISTING SM WRIGHT RECONSTRUCTION FROM US 175/ SH 310					REV DATE: 07/2012
LIMITS TO:	IH 45					MPO PROJECT ID: 20062
TIP	RECONSTRUCT FREEWAY TO 6 LANE ARTERIAL WITH TRANSITIONS TO SH 310 (NORTH OF					MTP REFERENCE: FT1-29.10.1, RSA1-84.3, RSA1-
DESCRIPTION:	BUDD ST.)					84.4
REMARKS:	R PHASE IS REALLY UTILITY FUNDING; CONSTRUCTION FUNDING INCLUDES \$3.088 M OF CE; RTR 121-DA2 FUNDS					
						Project History:
DALLAS	DALLAS	0092-14-080	IH 345	E	DALLAS	TXDOT-DALLAS
LIMITS FROM:	EAST OF DOWNTOWN BETWEEN IH 30					REV DATE: 07/2012
LIMITS TO:	AND SPUR 366 (WOODALL RODGERS FREEWAY)					MPO PROJECT ID: 20266
TIP	ENGINEERING FOR BRIDGE RECONSTRUCTION					MTP REFERENCE: M03-002
DESCRIPTION:						
REMARKS:						
						Project History:
DALLAS	DALLAS	0094-07-020	SH 183	E,R	DALLAS	TXDOT-DALLAS
LIMITS FROM:	WEST END OF ELM FORK TRINITY RIVER BRIDGE					REV DATE: 07/2012
LIMITS TO:	IH 35E					MPO PROJECT ID: 54066
TIP	ADD 6 CONCURRENT HOV/MANAGED LANES TO EXISTING 8 MAINLANES AND 4/6					MTP REFERENCE: FT1-22.40.2, FT1-22.40.3
DESCRIPTION:	FRONTAGE LANES FROM SH 183 SOUTH OF SH 114 TO FUTURE TRINITY PKWY AND ADD 4 CONCURRENT HOV/MANAGED LANES TO EXISTING 6 MAINLANES AND 4/6 FRONTAGE LANES FROM TRINITY PKWY TO IH 35E					
REMARKS:	CONSTRUCTION PHASE IN APPENDIX D					
						Project History:
DALLAS	DALLAS	0095-13-024	IH 20	E,R	MESQUITE	TXDOT-DALLAS
LIMITS FROM:	IH 20 AT FALCON'S LAIR INTERCHANGE					REV DATE: 07/2012
LIMITS TO:						MPO PROJECT ID: 52370
TIP	CONSTRUCT DIAMOND INTERCHANGE					MTP REFERENCE: IN1-30.547.1
DESCRIPTION:						
REMARKS:	CANCELLED THRU TIP DEVELOPMENT PER TXDOT					
						Project History:
DALLAS	ELLIS	0172-08-053	US 287	E	OTHER	TXDOT-DALLAS
LIMITS FROM:	SOUTH OF SH 34					REV DATE: 07/2012
LIMITS TO:	IH 45 SOUTH OF ENNIS					MPO PROJECT ID: 53082
TIP	WIDEN 2-LANE UNDIVIDED HIGHWAY TO 4-LANE DIVIDED HIGHWAY WITH GRADE					MTP REFERENCE: FT1-1.110.6, IN1-1.33.1, IN1-
DESCRIPTION:	SEPARATED INTERCHANGES AND CONTROL OF ACCESS					1.560.1, IN1-1.561.1, IN1-1.562.1,
REMARKS:	ENNIS BYPASS; PH 2					TSM2-001
						Project History:

CSJs: 0092-01-052, 0197-02-108, 0092-14-081

Project History: PER 2013-2016 TIP DEVELOPMENT
CONST. COST \$70,460,035; C/O TO
APPX Appendix F-2 Page 3 of 3



Legend

- Railroad
- River

0 2,000 4,000
Feet

Source/Year of Aerial Photograph: Landiscor/2011

Project MTP Reference Limits with CSJ Limits and Locations

SM Wright Project
Dallas, Texas