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I-4 Project Development and Environment (PD&E) Study
from east of 50th Street to Polk Parkway

Draft

Noise Study Report

May 2015

Project Limits:

I-4 from east of 50th Street to Polk Parkway

Hillsborough County, Florida

Polk County, Florida

Work Program Item Segment Number:

431746-1



Florida Department of Transportation

District Seven

11201 North McKinley Drive

Tampa, Florida 33612-6456

EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) Study to evaluate the need for express lane improvements along the 22.1 mile segment of I-4 from east of 50th Street (US 41/SR 583) in Hillsborough County to the Polk Parkway (SR 570) in Polk County. The express lane improvements are needed to increase the capacity, maintain the operations and improve the safety of I-4.

This *Noise Study Report (NSR)* for the project was prepared as part of the PD&E Study as required by the FDOT's PD&E Manual, Part 2, Chapter 17 (May 4, 2011) and in accordance with the Title 23, Part 772 of the Code of Federal Regulations (23 CFR 772)—Procedures for Abatement of Highway Traffic Noise and Construction Noise (July 13, 2010).

One-thousand and twelve noise sensitive receptors (i.e., discrete representative locations on a property that has noise sensitive land uses) representing 1,034 noise sensitive land uses were evaluated within 59 noise sensitive areas (NSAs). Nine hundred and seventy-seven receptors were evaluated on residential properties, two in cemeteries, six at two schools, seven at hotels, 13 at places of worship, two in outdoor dining areas at restaurants, two in a park, one in a recreational area, one at a 20-acre for-profit business for which the theme is dinosaurs and one at a concert-only outdoor amphitheater.

Of the 1,012 evaluated receptors, 379 are predicted to be impacted by traffic noise with existing conditions. In the future without the proposed improvements 395 of the receptors are predicted to be impacted. Finally, with the proposed improvements, 582 receptors are predicted to be impacted by traffic noise. Five hundred and sixty-eight of the 582 receptors were evaluated on residential properties, two in cemeteries, five at two schools, five at places of worship and two in a park.

Traffic management measures, modifications to the roadway alignment, buffer zones and noise barriers were considered as abatement measures. With the exception of the proposed noise barriers for the impacted properties within the following NSAs, the noise abatement measures were not determined to be both feasible and reasonable.

- NSA 4: Residences in the Pardeau Shores subdivision (see Sheets 3 and 4 in Appendix B)
- NSA 21: Residences south of I-4 between Parsons Avenue and Brinwood Drive (see Sheet 14 in Appendix B)
- NSA 45: Residences in the Bracewell Heights subdivision (Sheets 33 and 34 in Appendix B)
- NSA 57: Residences south of I-4 between Wiggins Road and County Line Road (Sheets 38 and 39 in Appendix B)

The estimated cost to construct the noise barriers ranges from \$2,228,000 to \$4,325,000 depending on barrier length and height.

The FDOT is committed to the construction of noise barriers at the locations above, contingent upon the following:

- Detailed noise analysis during the final design process supports the need for, and the feasibility and reasonableness of providing the barriers as abatement;
- The detailed analysis demonstrates that the cost of the noise barrier will not exceed the cost effective limit;
- The residents/property owners benefitted by the noise barrier desire that a noise barrier be constructed; and
- All safety and engineering conflicts or issues related to construction of a noise barrier are resolved.

Notably, the noise barriers for the impacted properties in NSA 21 and NSA 45 have the potential to visually block outdoor advertising signs. Should the barriers at these locations remain a feasible and reasonable abatement measure after the detailed noise analysis during the final design process and the signs are determined to be conforming and legally permitted signs, a notice of the possible noise wall screening will be provided to the affected sign permit holder(s) and the appropriate local sign regulating agency and a public hearing will be held to receive input on the proposed noise barrier/sign conflict.

Some land uses adjacent to I-4 are identified on the FDOT listing of noise- and vibration-sensitive sites (e.g., residential use). Application of the *FDOT Standard Specifications for Road and Bridge Construction* may minimize or eliminate potential issues should they arise during the construction process.

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1.0 INTRODUCTION

This *Noise Study Report (NSR)* is one of several documents being prepared as part of the I-4 (SR 400) Project Development and Environment (PD&E) Study. Title 23, Part 772 of the Code of Federal Regulations (23 CFR 772), Procedures for Abatement of Highway Traffic Noise and Construction Noise (July 13, 2010), requires that projects requiring approval, or that are funded by, the Federal Highway Administration (FHWA) be subjected to a traffic noise analysis and, if applicable, an evaluation of abatement measures.

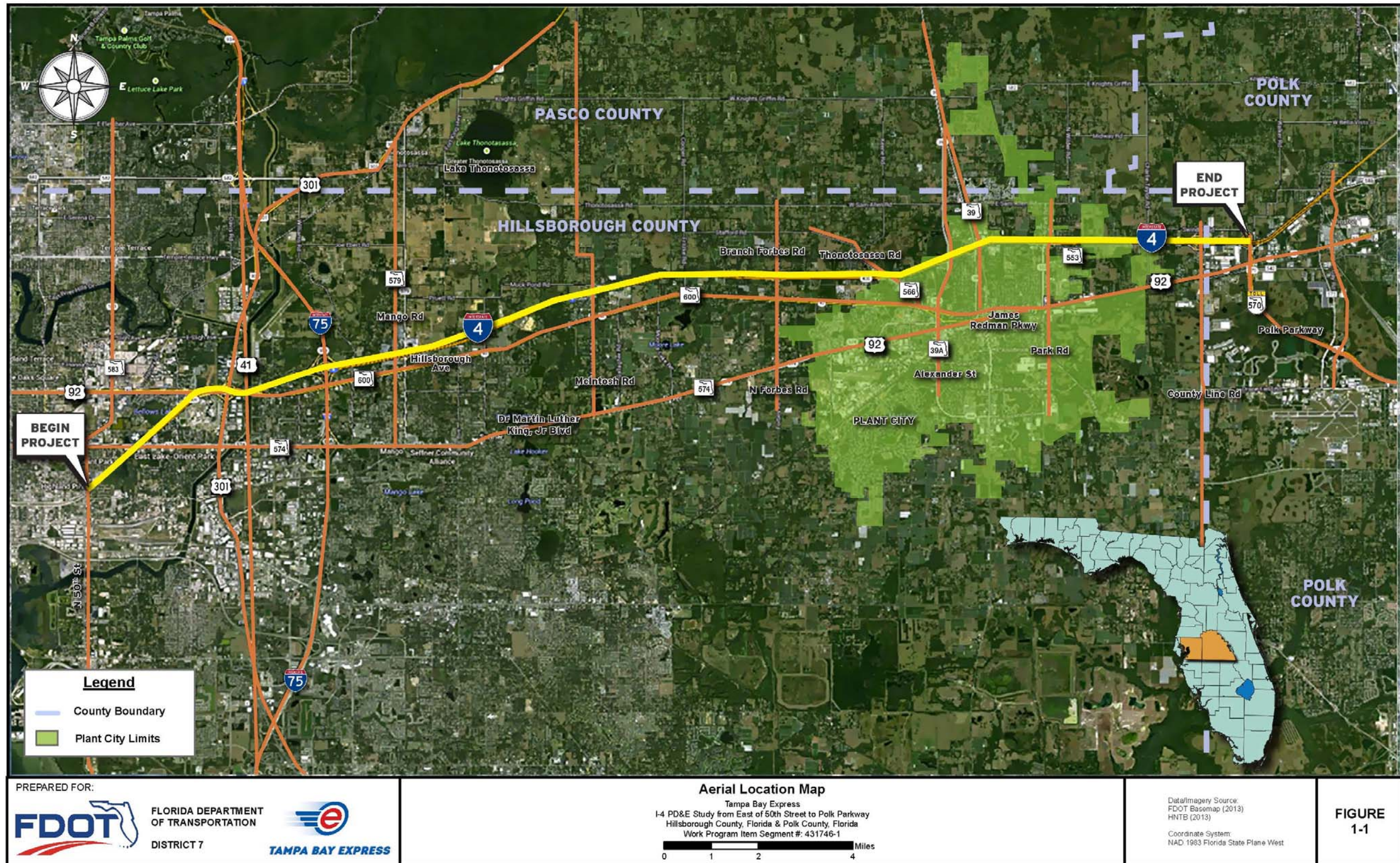
To implement this guidance, the Florida Department of Transportation (FDOT) authored Part 2, Chapter 17 of the PD&E Manual (May 4, 2011), which identifies and explains the purpose, process and procedures that are to be used when conducting a traffic noise analysis. This NSR has been prepared in accordance with all applicable guidelines as stated within both 23 CFR 772 and Part 2, Chapter 17 of the FDOT PD&E Manual.

1.1 Purpose and Need

I-4 is a major east-west interstate highway that connects I-275, the Lee Roy Selmon Expressway, I-75 and the Polk Parkway. I-4 provides access to important industrial areas, such as the Port of Tampa, as well as downtown Tampa and residential/commercial areas in eastern Hillsborough and western Polk Counties. I-4 also provides an important connection to the regional and statewide transportation networks linking the Tampa Bay region to the remainder of the state and nation. On a more regional scale, I-4 extends from the I-275 interchange in downtown Tampa to I-95 in Daytona Beach. FDOT has designated I-4 eastbound from Tampa as one of seven one-way emergency evacuation routes in Florida.

The I-4 PD&E study will examine the need for express lane improvements along the 22.1-mile segment of I-4 from east of 50th Street (US 41/SR 583) in Hillsborough County to the Polk Parkway (SR 570) in Polk County. The express lane improvements are needed to increase the capacity, maintain the operations and improve the safety of I-4. A project location map is provided as Figure 1-1 below.

Figure 1-1. Project Location Map



1.2 Existing Facility and Proposed Improvements

Throughout the project study limits, I-4 typically includes six 12-foot general use lanes, 10-foot paved outside shoulders, 10-foot paved inside shoulders and a 64-foot grassed median. The existing right-of-way (ROW) ranges from approximately 240- to 390-feet wide. The posted speed limit varies between 60 and 70 miles per hour (mph). Figure 1-2 depicts an existing typical section of I-4 within the project corridor.

The improvements being considered for this project include widening I-4 to accommodate four express lanes with two express lanes in each direction. The proposed typical section allows for two 11-foot express lanes, a 4-foot buffer, two 11-foot general use lanes and one 12-foot general use lane, at a minimum, in each direction. Widening will occur both to the inside and the outside throughout most of the project study area, except from approximately Alexander Street (SR 39A) to Polk Parkway (SR 570) where widening will be only to the inside. The project is to be constructed mainly within the existing I-4 ROW with the exception of ten locations, six on the north side of I-4 and four on the south side of I-4. The additional ROW is needed to correct horizontal geometry, provide for various ramp improvements where necessary, provide 10-foot maintenance berms behind Mechanically Stabilized Earth (MSE) walls and for the inclusion of express lanes at the I-4 and I-75 interchange. Figure 1-3 depicts the proposed typical section for I-4 throughout the project limits.

Figure 1-2. Existing Typical Section

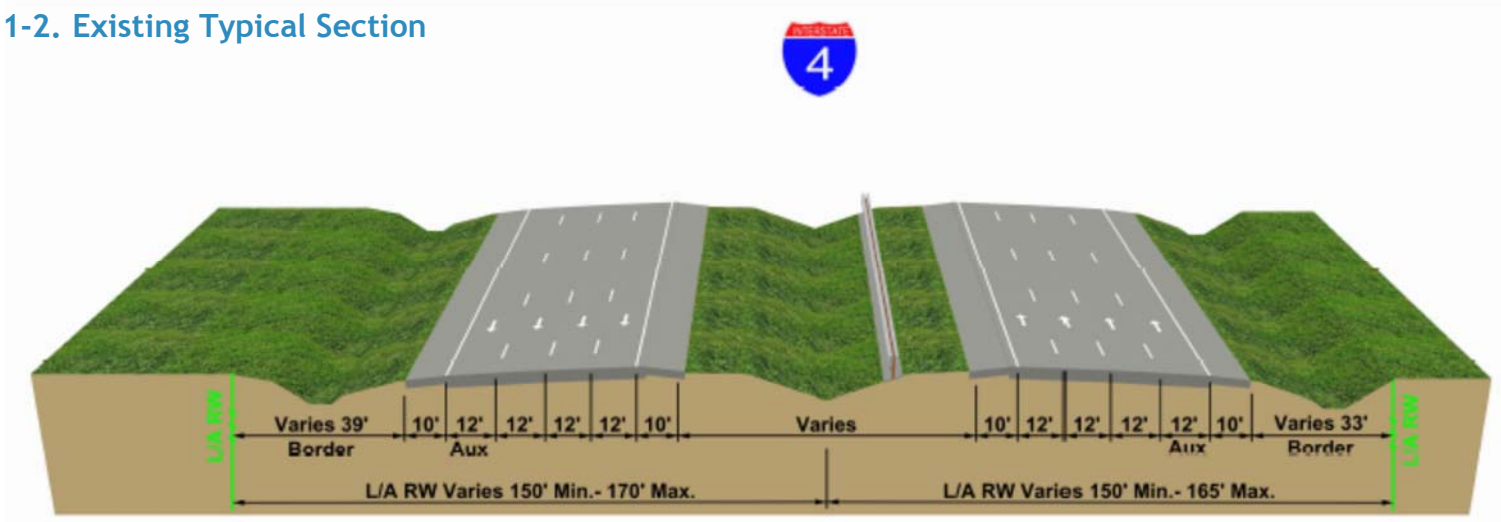
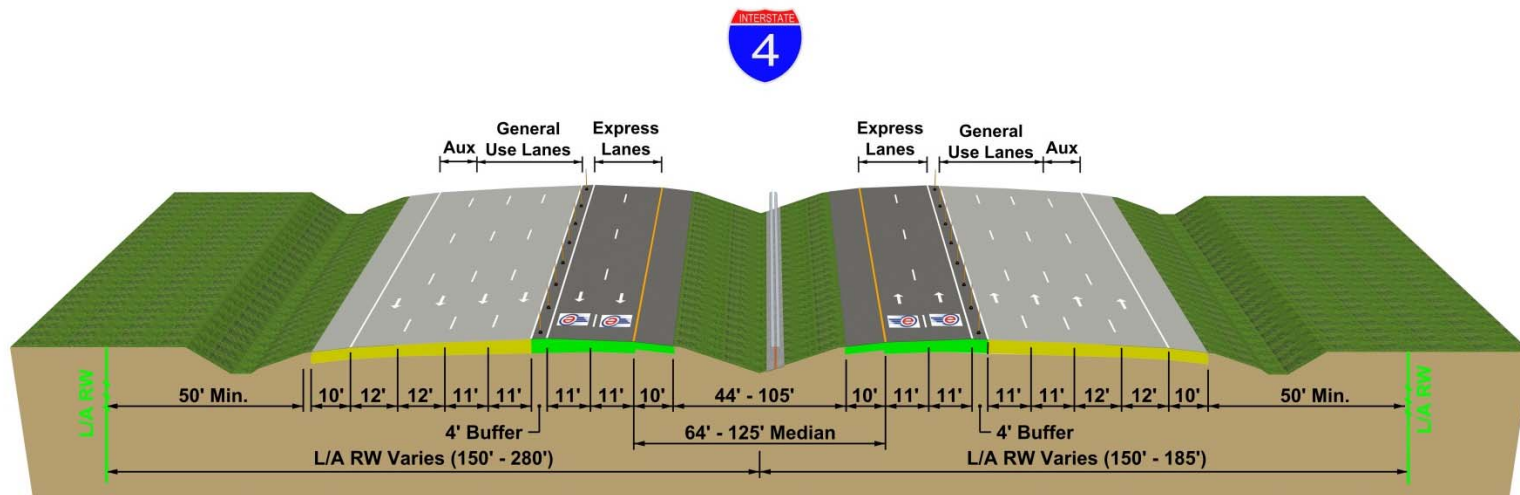


Figure 1-3. Proposed Typical Section



2.0 METHODOLOGY

As stated in the Introduction of this NSR, the traffic noise analysis has been prepared in accordance with all applicable guidelines as stated within both 23 CFR 772 and Part 2, Chapter 17 of the FDOT PD&E Manual. As such, the analysis was performed using the FHWA's Traffic Noise Model (TNM, Version 2.5). Use of the TNM is required when evaluating the potential for traffic noise impacts during the design year of roadway improvement projects for which the regulations, policies and guidelines with 23 CFR 772 and Part 2, Chapter 17 of the PD&E Manual are applicable.

For properties with uses other than residential, the methodologies described in the FDOT's *A Method to Determine Reasonableness and Feasibility of Noise Abatement at Special Use Locations* were also used. Special land uses include churches, schools, parks and amphitheaters.

2.1 Noise Metrics

The predicted traffic noise levels presented in this report are expressed in decibels on the "A"-weighted scale (dB(A)). This scale most closely approximates the response characteristics of the human ear to traffic noise. All traffic noise levels are reported as equivalent levels (Leq(h)). Levels reported as Leq(h) are equivalent steady-state sound levels that contain the same acoustic energy as time-varying sound levels over a period of one hour.

2.2 Traffic Data

Noise levels are low when traffic volumes are low and operating conditions are good (level-of-service (LOS) A or B) and when traffic is so congested that movement is slow (LOS D, E, or F). Generally, the maximum hourly noise level occurs between these two conditions (i.e., LOS C).

The traffic volumes used in the analysis were either the roadway design LOS C volume or the forecast demand volume, whichever was less, so that the predicted traffic noise levels with the improvements to I-4 represent the maximum hourly noise level during the project's design year. The Existing (year 2014), Future No-

Build (year 2040) and Future Build (year 2040) traffic data used in the analysis are provided in **Appendix A** of this NSR.

2.3 Noise Abatement Criteria

For the purpose of evaluating traffic noise, the FHWA established Noise Abatement Criteria (NAC). As shown in **Table 2-1**, these criteria vary according to a properties' activity category (i.e., land use). For comparative purposes, typical noise levels for common indoor and outdoor activities are provided in **Table 2-2**.

When predicted traffic noise levels "approach" or exceed the NAC, or when predicted future noise levels increase substantially from existing levels, the FHWA requires that noise abatement measures be considered. FDOT defines the word "approach" to mean within 1 dB(A) of the NAC. The FDOT's NAC are also shown in Table 2-1.

FHWA regulations also state that a traffic noise impact is predicted to occur when predicted traffic noise levels with a proposed improvement are considered substantial when compared to existing levels. The FDOT considers a substantial increase to be when traffic noise levels are predicted to increase 15 dB(A) or more above existing conditions as a direct result of a transportation improvement project.

2.4 Noise Abatement Measures

When traffic noise impacts are predicted, noise abatement measures are considered for the impacted properties and the feasibility and reasonableness of providing an abatement measure are considered. Feasibility factors are related to the acoustical and engineering properties of an abatement measure while reasonableness factors relate to the social, economic and environmental properties of a measure.

The following subsections of this NSR present and discuss four methods of abating traffic noise impacts.

Table 2-1 - FHWA/FDOT Noise Abatement Criteria

| Activity Category | Description of Activity Category | Activity Leq(h) ¹ | |
|-------------------|---|------------------------------|------------------|
| | | FHWA | FDOT |
| A | Lands on which serenity and quiet are of extraordinary 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. | 57 (Exterior) | 56 (Exterior) |
| B ² | Residential | 67 (Exterior) | 66 (Exterior) |
| C ² | Active sports 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, recreational areas, Section 4(f) sites, schools, television studios, trails and trail crossings. | 67 (Exterior) | 66 (Exterior) |
| D | 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. | 52 (Interior) | 51 (Interior) |
| E ² | Hotels, motels, offices, restaurants/bars and other developed lands, properties or activities not included in A-D or F. | 72 (Exterior) | 71 (Exterior) |
| F | Agriculture, 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. | -- | -- |

Sources: Table 1 of 23 CFR Part 772 and Table 17.1 of Chapter 17 of the FDOT's PD&E Manual (dated 5-24-11).

¹ The Leq(h) activity criteria values are for impact determination only, and are not design standards for noise abatement measures.

² Includes undeveloped lands permitted for this activity category.

Note: Noise abatement considerations are also warranted when a substantial noise increase is predicted to occur (i.e., when the predicted future traffic noise level with an improvement project is equal to or greater than 15 dB(A) when compared to the existing traffic noise level.

Table 2-2 - Typical Noise Levels

| Common Outdoor Activities | Noise Level dB(A) | Common Indoor Activities |
|--|------------------------------|---|
| | 110 | Rock band |
| Jet flyover at 1,000 feet | 100 | |
| Gas lawnmower at 3 feet | 90 | |
| Diesel truck at 50 feet at 50 mph | 80 | Food blender at 3 feet Garbage disposal at 3 feet |
| Noisy urban area daytime Gas lawnmower at 100 feet Commercial area | 70 | Vacuum cleaner at 10 feet Normal speech at 3 feet |
| Heavy traffic at 300 feet | 60 | |
| Quiet urban daytime | 50 | Large business office Dishwasher in next room |
| Quiet urban nighttime Quiet suburban nighttime | 40 | Theater, large conference room (background) |
| | 30 | Library Bedroom at night, concert hall (background) |
| Quiet rural nighttime | 20 | |
| | 10 | Broadcast/recording studio |
| | 0 | |

2.4.1 Traffic Management

Some types of traffic management reduce noise levels. For example, trucks can be prohibited from certain streets and roads, or be permitted to only use certain streets and roads during daylight hours. The timing of traffic lights can also be changed to smooth out the flow of traffic and eliminate the need for frequent stops and starts. Speed limits can also be reduced.

2.4.2 Alignment Modifications

Modifying the horizontal and/or vertical alignment of a roadway can also be an effective traffic noise mitigation measure. When the horizontal alignment is shifted (i.e., moved) away from a noise sensitive property or when the vertical alignment is shifted below (i.e., placing the roadway below the elevation of a noise sensitive land use) or above a noise sensitive property.

2.4.3 Buffer Zones

Providing a buffer between a roadway and noise-sensitive land uses is an abatement measure that can minimize/eliminate noise impacts. To abate traffic noise at an existing noise sensitive land use, the property would be acquired to create a buffer zone. Buffer zones can also be used to eliminate the potential for new noise sensitive land uses to be impacted by traffic noise. For this purpose, and to encourage use of this abatement measure through local land use planning, noise contours have been developed and are further discussed in Section 5.0 of this NSR.

2.4.4 Noise Barriers

The most common type of noise abatement measure is construction of a noise barrier. Noise barriers have the potential to reduce traffic noise levels by blocking the sound path between the motor vehicles on the roadway (the source) and the noise-sensitive land uses adjacent to the roadway.

In order to effectively reduce traffic noise, a noise barrier must be relatively long, continuous (without intermittent openings) and sufficiently tall. For a noise barrier to be considered a potential abatement measure the barrier must also provide the following noise reduction requirements:

- **Minimum Noise Reduction Requirements** - A barrier must provide at least a 5 dB(A) reduction in traffic noise for two or more impacted noise-sensitive receptors and also provide at least a 7 dB(A) reduction (i.e., the FDOT's noise reduction design goal) for at least one impacted receptor. Receptors are discrete representative locations on a property that has noise sensitive land uses (see Table 2-1).

The cost of a noise barrier must also be reasonable. For this purpose, the FDOT established the following cost effective limit:

- Cost Effective Limit - At a cost of \$30 per square foot, a barrier should not cost more than \$42,000 per benefited noise sensitive receptor (a benefited receptor is one that receives at least a 5 dB(A) reduction in noise from a mitigation measure). For special land uses (e.g., the outdoor eating area of a restaurant), the cost of a barrier is based on the number of people using the impacted and benefitted area.

If the results of the preliminary analysis indicate that a noise barrier would provide the required reduction in traffic noise at a cost at or below the cost effective limit, additional factors are then considered. These factors relate to barrier design and construction (i.e., given site-specific details, can a barrier actually be constructed), safety, access to and from adjacent properties, ROW requirements, maintenance and impacts on utilities and drainage amongst other factors. The viewpoint of the impacted property owners (and renters if applicable) who may, or may not, desire a noise barrier, is also a factor that is considered when evaluating noise barriers as an abatement measure.

3.0 TRAFFIC NOISE ANALYSIS

3.1 Noise Sensitive Receptors

As previously stated, noise sensitive receptors are representative locations of a noise sensitive land use. The location of the receptors evaluated for the I-4 improvements are shown on aerials provided in **Appendix B**. One-thousand and twelve noise sensitive receptors (i.e., discrete representative locations on a property that has noise sensitive land uses) representing 1,034 noise sensitive land uses were evaluated within 59 noise sensitive areas (NSAs). Nine hundred and seventy-seven receptors were evaluated on residential properties, two in cemeteries, six at two schools, seven at hotels, 13 at places of worship, two in outdoor dining areas at restaurants, two in parks, one in a recreational area, one at a 20-acre for-profit business for which the theme is dinosaurs and one at a concert-only outdoor amphitheater.

Table 3-1 lists and describes each NSAs and provides the number of evaluated noise sensitive receptors in each area.

Table 3-1 Noise Sensitive Areas

| NSA No. | Sheet No. (See Appendix B) | Activity Category | Number of Evaluated Receptors | Name and/or Location of Noise Sensitive Properties |
|---------|----------------------------|---------------------------------|-------------------------------|---|
| 1 | 1-2 | B - Residential | 107 | Grant Park and Tradewinds Subdivisions |
| | | D - Place of Worship (Interior) | 1 | Trinity Chapel |
| 2 | 2-3 | E - Hotel | 2 | Fairfield Inn and Suites, Master's Inn |
| 3 | 3 | C - Place of Worship (Exterior) | 1 | New Dawn Restoration Church |
| | | D - Place of Worship (Interior) | 1 | New Dawn Restoration Church |
| 4 | 3-4 | B - Residential | 51 | Pardeau Shores Subdivision |
| 5 | 4 | B - Residential | 43 | East Lake Park Subdivision |
| | | C - Park | 2 | East Lake Park Homeowners Civic Club |
| 6 | 4 | E - Hotel | 1 | Hard Rock Hotel |
| 7 | 5 | C - Amphitheater | 1 | MidFlorida Credit Union Amphitheatre |
| 8 | 6 | E - Restaurant | 1 | Wing House |
| 9 | 6-7 | B - Residential | 9 | Residences along Maple Lane and Eureka Springs Road |
| 10 | 6 | B - Residential | 5 | Residences along Garden Lane |

| NSA No. | Sheet No. (See Appendix B) | Activity Category | Number of Evaluated Receptors | Name and/or Location of Noise Sensitive Properties |
|---------|-------------------------------|---------------------------------|-------------------------------|--|
| 11 | 7 | B - Residential | 11 | Residences between Garden Lane and Clewis Avenue |
| 12 | 7-9 | B - Residential | 33 | Residences along Eureka Springs Road |
| 13 | 7-9 | B - Residential | 32 | Residences between Eureka Springs Road and I-75 |
| | | D - Place of Worship (Interior) | 1 | State Highway Baptist Church |
| 14 | 10 | B - Residential | 6 | Residences east and west of Williams Road |
| 15 | 10 | C - Place of Worship | 2 | Landmark Baptist Ministries Church |
| 16 | 11 | B - Residential | 1 | Residence north of I-4 and west of Black Dairy Road |
| 17 | 11 | B - Residential | 19 | Residences south of I-4 and west of Black Dairy Road |
| 18 | 12 | E - Hotel | 1 | Hampton Inn and Suites |
| 19 | 12-13 | C - School | 2 | Armwood High School |
| 20 | 13 | B - Residential | 3 | Residences east of Pine Street |
| 21 | 14 | B - Residential | 44 | Residences within Parsons Village, east of Parsons Avenue North and within Graystone Subdivision |
| 22 | 14-15 | B - Residential | 20 | Residences between Parsons Avenue North and North Kingsway Road |
| 23 | 15 | C - Recreational Area | 1 | Evans Recreational Center |
| 24 | 15-16 | B - Residential | 51 | Residences from west of Kingsway Road to east of the Kingsway Subdivision |
| 25 | 18-19 | B - Residential | 7 | Residences east of the truck weigh station |
| 26 | 19-20 | B - Residential | 14 | Residences from McIntosh Road to east of Gallagher Road |
| 27 | 19-20 | C - School | 4 | Strawberry Crest High School |
| 28 | 20-21 | B - Residential | 3 | Residences east of Strawberry Crest High School |
| 29 | 22 | B - Residential | 3 | Residences west of Reola Road and Fritzke Road |
| 30 | 22 | B - Residential | 3 | Residences west of Fritzke Road |
| 31 | 23-25 | B - Residential | 37 | Residences from west of Bethlehem Road to Branch Forbes Road |
| 32 | 23-24 | B - Residential | 13 | Residences between Bethlehem Road and Branch Forbes Road |
| 33 | 25 | E - Other Activity | 1 | Dinosaur World |
| 34 | 26 | B - Residential | 3 | Residences west of Hawk Griffin Road |
| 35 | 26-29 | B - Residential | 50 | Residences south of I-4 between Hawk Griffin Road and Thonotosassa Road |
| 36 | 27 | D - Place of Worship (Interior) | 1 | Nazarene Christian Congregation |
| 37 | 27-29 | B - Residential | 42 | Residences north of I-4 from Hawk Griffin Road to east of Thonotosassa Road |
| 38 | 29 | E - Restaurant | 1 | Starbucks |

| NSA No. | Sheet No. (See Appendix B) | Activity Category | Number of Evaluated Receptors | Name and/or Location of Noise Sensitive Properties |
|---------|----------------------------|---------------------------------|-------------------------------|--|
| 39 | 29-30 | B - Residential | 60 | Residences and common area pools in Townsgate Apartments |
| 40 | 30 | B - Residential | 3 | Residences along Bennett Road |
| 41 | 31-32 | B - Residential | 52 | Residences in the Orange Court Subdivision |
| 42 | 32 | E - Hotel | 1 | Red Rose Inn and Suites |
| 43 | 32 | C - Cemetery | 1 | Memorial Park Cemetery |
| 44 | 32 | E - Hotel | 1 | Knight's Inn |
| 45 | 33-34 | B - Residential | 54 | Residences in the Bracewell Heights Subdivision |
| 46 | 33 | B - Residential | 1 | Residence west of Procchi Street |
| 47 | 34 | B - Residential | 3 | Residences along Maryland Avenue |
| 48 | 34 | D - Place of Worship (Interior) | 1 | Plant City Assembly Hall |
| 49 | 35 | E - Hotel | 1 | Best Western |
| 50 | 35 | B - Residential | 46 | Residences in Colonial Village Subdivision |
| 51 | 35-36 | B - Residential | 49 | Residences in the Dorene Terrace Subdivision |
| 52 | 36 | D - Place of Worship (Interior) | 1 | Covenant Bible Church |
| 53 | 36-38 | B - Residential | 37 | Residences west and east of Charlie Taylor Road |
| 54 | 37-38 | B - Residential | 17 | Residences west of Charlie Taylor Road |
| 55 | 38 | D - Place of Worship (Interior) | 3 | Mt. Enon Primitive Baptist Church |
| 56 | 38-39 | C - Cemetery | 1 | Mt. Enon Cemetery |
| 57 | 38-39 | B - Residential | 40 | Residences between Wiggins Road and County Line Road |
| 58 | 39 | B - Residential | 5 | Residences from Charlie Taylor Road to County Line Road |
| 59 | 39 | C - Place of Worship | 1 | Faith Temple Assembly of God Church |
| Total | | | 1,012 | |

Following FHWA/FDOT guidance, the residences were evaluated as Activity Category "B" (i.e. abatement considered at a predicted traffic noise of 66 dB(A)). Where exterior areas of use exist the schools, cemeteries, the community park, the recreational area, the amphitheater and the places of worship were evaluated as Activity Category "C" (i.e., abatement considered at a predicted traffic noise level of 66 dB(A)). Several places of worship do not have areas of exterior use. Therefore, these receptors were evaluated as Activity Category "D" (i.e., abatement considered at a predicted interior level of 51 dB(A)). Finally, the hotels, the outdoor

dining areas and the for-profit property were evaluated as Activity Category “E” (i.e., abatement considered at a predicted traffic noise level of 71 dB(A)). These Activity Categories are also listed in the table above for each NSA.

3.2 Measured Noise Levels

Both existing and future noise levels (with and without the proposed improvements) were modeled using the TNM. To verify the accuracy of the predictions, the computer model was validated using field measured noise levels adjacent to the project corridor. Traffic data including motor vehicle volumes, vehicle mix, vehicle speeds and meteorological conditions were recorded during each measurement period.

The field measurements were conducted in accordance with the FHWA’s *Measurement of Highway-Related Noise*. The measurements were obtained using a Larson Davis Model 831, Type II integrating sound level meter (SLM). The SLM was calibrated before and after the measurement period with a Larson Davis CAL200 calibrator.

The recorded traffic data were used as input for the TNM to determine if, given the topography and site conditions of the area, the computer model could “re-create” the measured levels with the existing roadway. Following FDOT guidelines, a noise prediction model is considered within the accepted level of accuracy if the measured and predicted noise levels are within a tolerance standard of 3 dB(A).

Table 3-2 presents the field measurements and the validation results. As shown, the ability of the model to predict noise levels within the FDOT limits of plus or minus 3 dB(A) for the project was confirmed. Documentation in support of the validation is provided in **Appendix C** of this NSR.

Table 3-2 Validation Data

| Location | Measurement Period | Modeled (dB(A)) | Measured (dB(A)) | Difference |
|--|--------------------|-----------------|------------------|------------|
| Site 1: South side of I-4 between Mango Road and Kingsway Road | 1 | 78.8 | 78.8 | 0.0 |
| | 2 | 78.7 | 78.8 | -0.1 |
| | 3 | 78.5 | 79.0 | -0.5 |
| Site 2: North side of I-4 between Charlie Taylor Road and County Line Road | 1 | 71.3 | 70.6 | 0.7 |
| | 2 | 70.9 | 71.3 | -0.4 |
| | 3 | 71.1 | 70.4 | 0.7 |

3.3 Predicted Traffic Noise Levels

The predicted traffic noise levels for each evaluated receptor are provided in **Appendix D. Table 3-3** lists the number of evaluated receptors in each NSA and the number of receptors predicted to be impacted by traffic noise with existing conditions and for future conditions with and without the improvements to I-4.

Table 3-3 Summary of the Traffic Noise Analysis Results

| NSA No. | Sheet No. (See Appendix B) | Activity Category | Number of Evaluated Receptors | Number of Impacted Receptors | | |
|---------|----------------------------|---------------------------------|-------------------------------|------------------------------|-----------|-------|
| | | | | Existing | No- Build | Build |
| 1 | 1-2 | B - Residential | 107 | 1 | 1 | 5 |
| | | D - Place of Worship (Interior) | 1 | 0 | 0 | 0 |
| 2 | 2-3 | E - Hotel | 2 | 0 | 0 | 0 |
| 3 | 3 | C - Place of Worship (Exterior) | 1 | 1 | 1 | 1 |
| | | D - Place of Worship (Interior) | 1 | 1 | 1 | 1 |
| 4 | 3-4 | B - Residential | 51 | 16 | 19 | 27 |
| 5 | 4 | B - Residential | 43 | 17 | 21 | 27 |
| | | C - Park | 2 | 2 | 2 | 2 |
| 6 | 4 | E - Hotel | 1 | 0 | 0 | 0 |
| 7 | 5 | C - Amphitheater | 1 | 0 | 0 | 0 |
| 8 | 6 | E - Restaurant | 1 | 0 | 0 | 0 |
| 9 | 6-7 | B - Residential | 9 | 2 | 5 | 8 |
| 10 | 6 | B - Residential | 5 | 5 | 5 | 5 |
| 11 | 7 | B - Residential | 11 | 6 | 7 | 8 |
| 12 | 7-9 | B - Residential | 33 | 18 | 20 | 23 |
| 13 | 7-9 | B - Residential | 32 | 3 | 4 | 10 |
| | | D - Place of Worship (Interior) | 1 | 0 | 0 | 0 |
| 14 | 10 | B - Residential | 6 | 1 | 1 | 1 |
| 15 | 10 | C - Place of Worship | 2 | 2 | 2 | 2 |
| 16 | 11 | B - Residential | 1 | 0 | 0 | 0 |
| 17 | 11 | B - Residential | 19 | 11 | 11 | 15 |

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From East of 50th Street to the Polk Parkway
Draft Noise Study Report

| NSA No. | Sheet No. (See Appendix B) | Activity Category | Number of Evaluated Receptors | Number of Impacted Receptors | | |
|---------|-------------------------------|---------------------------------|-------------------------------------|---------------------------------|-----------|-------|
| | | | | Existing | No- Build | Build |
| 18 | 12 | E - Hotel | 1 | 0 | 0 | 0 |
| 19 | 12-13 | C - School | 2 | 1 | 1 | 1 |
| 20 | 13 | B - Residential | 3 | 1 | 1 | 2 |
| 21 | 14 | B - Residential | 44 | 31 | 31 | 35 |
| 22 | 14-15 | B - Residential | 20 | 5 | 5 | 9 |
| 23 | 15 | C - Recreational Area | 1 | 0 | 0 | 0 |
| 24 | 15-16 | B - Residential | 51 | 21 | 21 | 25 |
| 25 | 18-19 | B - Residential | 7 | 0 | 0 | 2 |
| 26 | 19-20 | B - Residential | 14 | 8 | 8 | 11 |
| 27 | 19-20 | C - School | 4 | 3 | 3 | 4 |
| 28 | 20-21 | B - Residential | 3 | 0 | 0 | 1 |
| 29 | 22 | B - Residential | 3 | 1 | 1 | 2 |
| 30 | 22 | B - Residential | 3 | 0 | 0 | 2 |
| 31 | 23-25 | B - Residential | 37 | 5 | 5 | 17 |
| 32 | 23-24 | B - Residential | 13 | 9 | 9 | 9 |
| 33 | 25 | E - Other Activity | 1 | 0 | 0 | 0 |
| 34 | 26 | B - Residential | 3 | 2 | 2 | 3 |
| 35 | 26-29 | B - Residential | 50 | 32 | 32 | 47 |
| 36 | 27 | C - Recreational Area | 1 | 0 | 0 | 0 |
| 37 | 27-29 | B - Residential | 42 | 35 | 35 | 41 |
| 38 | 29 | C - School | 1 | 0 | 0 | 0 |
| 39 | 29-30 | B - Residential | 60 | 0 | 0 | 0 |
| 40 | 30 | B - Residential | 3 | 1 | 1 | 2 |
| 41 | 31-32 | B - Residential | 52 | 33 | 35 | 50 |
| 42 | 32 | E - Hotel | 1 | 0 | 0 | 0 |
| 43 | 32 | C - Cemetery | 1 | 1 | 1 | 1 |
| 44 | 32 | E - Hotel | 1 | 0 | 0 | 0 |
| 45 | 33-34 | B - Residential | 54 | 19 | 19 | 42 |
| 46 | 33 | B - Residential | 1 | 0 | 0 | 1 |
| 47 | 34 | B - Residential | 3 | 1 | 1 | 3 |
| 48 | 35 | D - Place of Worship (Interior) | 1 | 0 | 0 | 0 |
| 49 | 35 | E - Hotel | 1 | 0 | 0 | 0 |
| 50 | 35 | B - Residential | 46 | 20 | 20 | 24 |
| 51 | 35-36 | B - Residential | 49 | 16 | 16 | 33 |
| 52 | 36 | D - Place of Worship (Interior) | 1 | 0 | 0 | 0 |
| 53 | 36-38 | B - Residential | 37 | 17 | 17 | 28 |
| 54 | 37-38 | B - Residential | 17 | 7 | 7 | 13 |
| 55 | 38 | D - Place of Worship (Interior) | 3 | 0 | 0 | 0 |
| 56 | 38-39 | C - Cemetery | 1 | 1 | 1 | 1 |
| 57 | 38-39 | B - Residential | 40 | 18 | 18 | 32 |
| 58 | 39 | B - Residential | 5 | 4 | 4 | 5 |
| 59 | 39 | C - Place of Worship | 1 | 1 | 1 | 1 |
| Total | | | 1,012 | 379 | 395 | 582 |

As shown in the table above, of the 1,012 evaluated receptors, 379 are predicted to be impacted by traffic noise with existing conditions. In the future without the proposed improvements 395 of the receptors are predicted to be impacted. Finally, with the proposed improvements, 582 receptors are predicted to be impacted by traffic noise. Five hundred and sixty-eight of the 582 receptors were evaluated on residential properties, two in cemeteries, five at two schools, five at places of worship and two in a park.

3.4 Abatement Considerations

As previously stated, when traffic noise impacts are predicted, noise abatement measures are considered for the impacted properties. The following discusses the FDOT's consideration of each of the measures for which an overview was provided in Section 2.4 of this NSR.

3.4.1 Traffic Management

Reducing traffic speeds and/or the traffic volume or changing the motor vehicle fleet on I-4 is inconsistent with the goal of improving the ability of the roadway to handle the forecast traffic volume. Therefore traffic management measures are not considered to be a reasonable noise abatement measure for the I-4 project.

3.4.2 Alignment Modifications

The proposed improvements would be constructed to follow the existing roadway alignment. Because shifting the alignment horizontally would require substantial right-of-way (ROW) acquisitions and, because noise sensitive land uses are located on both sides of the roadway, a modification to the alignment of I-4 for the purpose of reducing traffic impacts is not considered to be a reasonable noise abatement measure.

3.4.3 Buffer Zones

As previously stated, to abate predicted traffic noise at an existing noise sensitive land use, the property would have to be acquired. The same cost effective limit that applies to noise barriers (i.e., \$42,000 per benefited noise sensitive receptor) would apply to the purchase price of any impacted noise sensitive property. A review of data from the Hillsborough and Polk County Property Appraisers indicates that the cost to acquire the developed properties adjacent to I-4 exceed the cost

effective limit. Therefore, creating a buffer zone by acquiring existing noise sensitive properties is not considered to be a reasonable noise abatement measure.

3.4.4 Noise Barriers

The TNM was used to evaluate the ability of noise barriers to reduce traffic noise levels for the impacted noise sensitive receptors adjacent to I-4. The barriers were evaluated at heights from eight to 22 feet (in two-foot increments). The length of each barrier was optimized to determine if at least the minimum noise reduction requirements (i.e., a minimum reduction of 5 dB(A) for two impacted receptors and a minimum reduction of 7 dB(A) for one benefitted receptor) could be achieved.

For the majority of the NSAs, noise barriers were evaluated five feet within the FDOT's ROW. In areas where frontage roads¹ abut and parallel I-4, barriers were evaluated on the roadway shoulder. Shoulder barriers were also evaluated for impacted receptors in NSAs located near elevated portions of I-4 (e.g., overpasses at interchanges). Notably, shoulder barriers were not evaluated at all locations where a ROW barrier wouldn't provide at least the minimum noise reduction requirements because a shoulder barrier would be limited in height to a maximum of 14 feet and a barrier of this height would provide less reduction in traffic noise than a ROW barrier.

Notably, barriers were optimized (length and height) in an attempt to benefit all of the impacted receptors in an NSA. In areas with varying densities of receptors (e.g., NSA 35). The barriers were optimized by inserting gaps in the barrier, where possible, between the areas of higher density impacted receptors.

The following provides the results of the noise barrier evaluation and discusses the potential amount of noise reduction and the cost effectiveness of providing barriers as an abatement measure for the NSAs in which traffic noise has been predicted to impact noise sensitive properties (i.e, the NSAs listed in Table 3-3 for which receptors are predicted to be impacted with the Build Alternative).

¹ A frontage road is a local road that runs parallel to a higher-speed, limited-access road.

NSA 1

A noise barrier was evaluated for the impacted residences in the Grant Park and Tradewinds subdivisions (Receptors 88, 89, 91, 92 and 101). In this area, there is an existing 22-foot noise barrier that was constructed by the FDOT as part of a previous improvement to I-4. The existing noise barrier abates (i.e., reduces) traffic noise levels to levels below the NAC at all but five residences at the east end of the Grant Park subdivision. The five residences are located between Wiggings Leaf Street and Smith Tree Street.

Notably, a review of documentation prepared for the existing barrier (*Noise Barrier Conceptual Design Study Technical Memorandum, I-4 (SR 400) from 50th Street to SR 39 (Wheeler St)*, August 2003), states that the existing barrier was not extended to the east because doing so would block a portion of the water that flows to a drainage pipe. Regardless, to abate predicted traffic noise levels at these residences, consideration was given to extending the existing barrier.

The results of the barrier analysis are provided in **Table 3-4**. As shown, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier length/heights. Therefore, the barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 1.

Table 3-4 NSA 1: Barrier Results for Impacted Residences in the Grant Park Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 5</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ⁵ | 2 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | NA ⁵ | 3 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 20 | NA ⁵ | 3 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 22 | NA ⁵ | 3 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 3

A noise barrier was evaluated for the impacted areas of the New Dawn Restoration Church (Receptors 1 and 2). The church is located between Dr Martin Luther King Jr Boulevard and Orient Road, north of I-4. Both the interior of the church and the exterior area of frequent use, a basketball court, are predicted to be impacted by traffic noise exceeding the NAC. For these areas, the FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 972 feet and an optimal height of 20 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the church would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the church in order for a barrier to be considered cost effective is 820 person-hours (i.e., 820 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, a barrier is not considered a reasonable noise abatement measure for the impacted areas of the New Dawn Restoration Church.

NSA 4

A noise barrier was evaluated five feet within the FDOT ROW line for the 27 impacted residences located south of I-4 between 72nd Street and Orient Road within the Pardeau Shores Subdivision (Receptors 1 through 5, 12 through 28, 36, 37, 39, 40 and 47).

The results of the evaluation are provided in **Table 3-5**. As shown, at barrier heights of 14, 18 and 22 feet, at least 12 of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more, the noise reduction design goal of 7 dB(A) would be achieved and the cost of the barrier would be below the FDOT’s cost reasonable limit. Notably, at 16 and 20 feet a noise barrier is no longer cost reasonable because the additional length of the barrier does not add a sufficient number of benefited receivers.

Because a barrier is predicted to provide the minimum noise reduction requirements at a cost below the cost effective limit, the barrier was evaluated further. A summary of the additional barrier considerations is provided in **Table 3-6**. Based on the review of these factors, a barrier was determined to be a potential noise abatement measure for the impacted residences in NSA 4. The limits of the most cost reasonable barrier (based on the results of this PD&E analysis) are depicted on Sheets 3 and 4 in Appendix B.

Table 3-5 NSA 4: Barrier Results for Impacted Residences in the Pardeau Shores Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 27</i> | | | | | | | | | | |
| 8 | 869 | 1 | 1 | 1 | 3 | 0 | 3 | \$208,560 | \$69,520 | No |
| 10 | 801 | 2 | 2 | 1 | 5 | 0 | 5 | \$240,300 | \$48,060 | No |
| 12 | 936 | 4 | 1 | 3 | 8 | 0 | 8 | \$336,960 | \$42,120 | No |
| 14 | 1,191 | 5 | 3 | 4 | 12 | 0 | 12 | \$500,220 | \$41,685 | Yes |
| 16 | 1,485 | 5 | 2 | 7 | 14 | 0 | 14 | \$712,800 | \$50,914 | No |
| 18 | 1,285 | 6 | 4 | 7 | 17 | 0 | 17 | \$693,900 | \$40,818 | Yes |
| 20 | 1,540 | 6 | 6 | 9 | 21 | 0 | 21 | \$924,000 | \$44,000 | No |
| 22 | 1,291 | 8 | 2 | 13 | 23 | 0 | 23 | \$852,060 | \$37,046 | Yes |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

Table 3-6 NSA 4: Additional Barrier Considerations

| Type of Factor | Evaluation Criteria | Comment |
|-----------------|-------------------------|--|
| Feasibility | Design and Construction | A determination of whether a noise barrier can be constructed using standard construction methods and techniques will be made during the project's design phase. Notably, additional costs to solely construct a noise barrier will be included in the final cost reasonableness evaluation of a noise barrier at this location. |
| | Safety | It does not appear that there would be any safety concerns (e.g., loss of sight distance). |
| | Accessibility | The barrier would be located within the FDOT's ROW for I-4 and would not block ingress or egress to any property. |
| | ROW | No acquisition of ROW or easements for construction/maintenance would be necessary to construct a barrier within the FDOT's ROW. |
| | Maintenance | The FDOT should be able to maintain a barrier at this location using standard practices. |
| | Drainage | A determination as to whether the barrier can be design so that water would be directed along, under, or away from the barrier will be made during the project's design phase. |
| | Utilities | A determination of utility conflicts will be made during the project's design phase. Notably, there are existing poles within the FDOT ROW that may cause a conflict with a noise barrier. |
| Reasonable-ness | Community desires | The desires of the property owners and renters (if applicable) will be solicited during the design phase of the project. |

NSA 5

In NSA 5, two barriers were evaluated for the 27 impacted residential receptors within the East Lake Park Subdivision ((Receptors 4, 7 through 12, 16 through 28, 30 through 34 and 42). The first barrier was evaluated five feet within the FDOT's ROW. The results of the evaluation for this barrier are provided in **Table 3-7**. As shown, at barrier heights between 12 and 22 feet, at least three of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier five feet within the FDOT's ROW is not considered a reasonable noise abatement measure.

Table 3-7 NSA 5: Barrier Results for Impacted Residences in the East Lake Park Subdivision (Barrier Five Feet Within FDOT ROW)

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 27</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | 1,461 | 2 | 0 | 1 | 3 | 0 | 3 | \$525,960 | \$175,320 | No |
| 14 | 538 | 2 | 0 | 1 | 3 | 0 | 3 | \$225,960 | \$75,320 | No |
| 16 | 538 | 1 | 1 | 1 | 3 | 0 | 3 | \$258,240 | \$86,080 | No |
| 18 | 1,074 | 3 | 2 | 1 | 6 | 0 | 6 | \$579,960 | \$96,660 | No |
| 20 | 829 | 3 | 2 | 1 | 6 | 0 | 6 | \$497,400 | \$82,900 | No |
| 22 | 1,335 | 5 | 3 | 3 | 11 | 0 | 11 | \$881,100 | \$80,100 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

The East Lake Park Subdivision is located in the northwest quadrant of the I-4/Orient Road interchange. As previously stated, for those impacted receptors located near elevated portions of I-4, shoulder barriers were also evaluated if the results of the analysis indicates that a barrier five feet within the ROW would not be feasible and reasonable. For the receptors in this area, a combination barrier, segments both five feet within the ROW and on the roadway shoulder was evaluated. The results of the evaluation for this barrier combination are provided in **Table 3-8**.

As shown in Table 3-8, at barrier heights between 10 and 22 feet, at least three of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a combination barrier is also not considered a reasonable noise abatement measure for the impacted residences in NSA 5.

A third barrier was evaluated within this NSA for the impacted area of East Lake Park Homeowners Civic Club. The impacted frequent use area is comprised of a basketball court and picnic tables. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for this impacted area.

Table 3-8 NSA 5: Barrier Results for Impacted Residences in the East Lake Park Subdivision (Combination ROW and Shoulder Barrier)

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 27</i> | | | | | | | | | | |
| 8 | NA ⁵ | 2 | 0 | 0 | 2 | 0 | 2 | NA ⁵ | NA ⁵ | NA ⁵ |
| 10 | 2,574 | 1 | 1 | 1 | 3 | 0 | 3 | \$690,960 | \$230,320 | No |
| 12 | 3,005 | 1 | 0 | 3 | 4 | 0 | 4 | \$895,320 | \$223,830 | No |
| 14 | 2,174 | 3 | 0 | 2 | 5 | 0 | 5 | \$741,360 | \$148,272 | No |
| 16 | 2,674 | 5 | 2 | 3 | 10 | 0 | 10 | \$934,560 | \$93,456 | No |
| 18 | 2,674 | 6 | 1 | 6 | 13 | 1 | 14 | \$1,007,760 | \$71,983 | No |
| 20 | 3,105 | 2 | 4 | 10 | 16 | 1 | 17 | \$1,339,560 | \$78,798 | No |
| 22 | 3,205 | 4 | 2 | 13 | 19 | 2 | 21 | \$1,462,620 | \$80,100 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 98 feet and an optimal height of 16 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area in order for a barrier to be considered cost effective is 727 person-hours (i.e., 727 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, a barrier is not considered a reasonable noise abatement measure for the impacted area of the East Lake Park Homeowners Civic Club.

NSA 9

A noise barrier was evaluated for the eight impacted residences (Receptors 1 through 6, 8 and 9) along Maple Lane and Eureka Springs Road. The barrier was evaluated five feet inside of the FDOT ROW line. The results of the evaluation are provided in **Table 3-9**. As shown, at a barrier height of 22 feet, four of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 9.

Table 3-9 NSA 9: Barrier Results for Impacted Residences Along Maple Lane and Eureka Springs Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 8</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ⁵ | 2 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 16 | NA ⁵ | 3 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | NA ⁵ | 3 | 2 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 20 | NA ⁵ | 4 | 2 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 22 | 1,106 | 4 | 1 | 1 | 6 | 0 | 6 | \$879,420 | \$146,570 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 10

A barrier was evaluated five feet within the FDOT ROW line for the five impacted residences located along Garden Lane and south of I-4 (Receptors 1 through 5). The results of the evaluation are provided in **Table 3-10**. As shown, at barrier heights between 16 and 22 feet, at least two of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier

at all barrier heights would be above the FDOT’s cost reasonable limit, the barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 10.

Table 3-10 NSA 10: Barrier Results for Impacted Residences along Garden Lane

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 5</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 1 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 14 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 16 | 1,289 | 1 | 0 | 1 | 2 | 0 | 2 | \$489,360 | \$244,680 | No |
| 18 | 1,435 | 2 | 0 | 1 | 3 | 0 | 3 | \$613,200 | \$204,400 | No |
| 20 | 1,362 | 1 | 1 | 1 | 3 | 0 | 3 | \$623,160 | \$207,720 | No |
| 22 | 1,106 | 1 | 1 | 1 | 3 | 0 | 3 | \$611,100 | \$203,700 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.
⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 11

A barrier was evaluated five feet within the FDOT ROW line for the eight impacted residences located south of I-4 between Garden Lane and Clewis Avenue (Receptors 1 through 6, 8 and 9). The results of the evaluation are provided in **Table 3-11**. As shown, at barrier heights between 18 and 22 feet, at least five of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 11.

Table 3-11 NSA 11: Barrier Results for Impacted Residences between Garden Lane and Clewis Avenue

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 8</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ⁵ | 0 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 14 | NA ⁵ | 1 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 16 | NA ⁵ | 3 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | 1,857 | 4 | 1 | 0 | 5 | 0 | 5 | \$841,080 | \$168,216 | No |
| 20 | 1,857 | 5 | 0 | 1 | 6 | 0 | 6 | \$920,160 | \$153,360 | No |
| 22 | 1,957 | 4 | 1 | 1 | 6 | 2 | 8 | \$1,065,240 | \$133,155 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 12

A barrier was evaluated five feet within the FDOT's ROW for the 28 impacted residences located along Eureka Springs Road and north of I-4 (Receptors 1, 3 through 18 and 26 through 31). The results of the evaluation are provided in **Table 3-12**. As shown, at all analyzed barrier heights, at least two of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 12.

Table 3-12 NSA 12: Barrier Results for Impacted Residences along Eureka Springs Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 28</i> | | | | | | | | | | |
| 8 | 584 | 1 | 0 | 1 | 2 | 0 | 2 | \$140,160 | \$70,080 | No |
| 10 | 3,581 | 4 | 0 | 2 | 6 | 0 | 6 | \$1,074,300 | \$179,050 | No |
| 12 | 4,045 | 5 | 3 | 2 | 10 | 0 | 10 | \$1,456,200 | \$145,620 | No |
| 14 | 5,437 | 9 | 4 | 5 | 18 | 0 | 18 | \$2,283,540 | \$126,863 | No |
| 16 | 5,886 | 6 | 5 | 10 | 21 | 0 | 21 | \$2,825,280 | \$134,537 | No |
| 18 | 4,605 | 5 | 5 | 12 | 22 | 0 | 22 | \$2,486,700 | \$113,032 | No |
| 20 | 4,561 | 6 | 3 | 14 | 23 | 0 | 23 | \$2,736,600 | \$118,983 | No |
| 22 | 4,311 | 4 | 5 | 14 | 23 | 0 | 23 | \$2,845,260 | \$123,707 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 13

A noise barrier was evaluated for the ten impacted residences located south of I-4 between Eureka Springs Road and I-75 (Receptors 1 through 6, 10, 12, 13 and 16). In a portion of this area there is an existing noise barrier that is 16 feet in height. This barrier was considered in the evaluation. The results of the evaluation are provided in **Table 3-13**. As shown, at barrier heights between 12 and 22 feet, at least four of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit the barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 13.

Table 3-13 NSA 13: Barrier Results for Impacted Residences Between East Hillsborough Avenue and I-75

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 10</i> | | | | | | | | | | |
| 8 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 10 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 12 | 2,417 | 3 | 0 | 1 | 4 | 0 | 4 | \$723,360 | \$103,337 | No |
| 14 | 2,417 | 5 | 1 | 1 | 7 | 0 | 7 | \$1,201,500 | \$171,643 | No |
| 16 | 1,507 | 5 | 1 | 1 | 7 | 0 | 7 | \$1,270,200 | \$141,133 | No |
| 18 | 2,225 | 2 | 5 | 0 | 7 | 0 | 7 | \$1,529,220 | \$139,020 | No |
| 20 | 2,117 | 2 | 2 | 4 | 8 | 0 | 9 | \$870,120 | \$217,530 | No |
| 22 | 2,317 | 2 | 1 | 6 | 9 | 2 | 11 | \$1,015,140 | \$145,020 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 14

There is only one traffic noise impacted receptor in NSA 14, a residence located east of Williams Road (Receptor 2). As stated previously, for a noise barrier to be considered for construction, at least the minimum noise reduction requirements must be met (i.e., two or more impacted noise-sensitive receptors must be benefited). Because this requirement cannot be met for this area, a barrier is not considered a feasible and reasonable abatement measure for the impacted receptor in NSA 14.

NSA 15

A noise barrier was evaluated for the impacted area of the Landmark Baptist Ministries Church (Receptors 1 and 2). The church is located east of Williams Road, south of I-4. The impacted frequent use area is a playground and multi-use court. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for the impacted area.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 937 feet and an optimal height of 22 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the church would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the church in order for a barrier to be considered cost effective is 869 person-hours (i.e., 869 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, it is not considered a reasonable noise abatement measure for the impacted area of the Landmark Baptist Ministries Church.

NSA 17

A noise barrier was evaluated five feet within the FDOT's ROW for the 15 impacted residences located south of I-4 and west of Black Dairy Road (Receptors 1 through 10 and 12 through 16). The results of the evaluation are provided in **Table 3-14**. As shown, at barrier heights between 20 and 22 feet, all of the 15 impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 17.

Table 3-14 NSA 17: Barrier Results for Impacted Residences West of Black Dairy Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|-----------------------|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ⁵ | 5 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | NA ⁵ | 9 | 4 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 20 | 1,928 | 3 | 9 | 3 | 15 | 3 | 18 | \$1,156,800 | \$64,267 | No |
| 22 | 1,728 | 3 | 9 | 3 | 15 | 3 | 18 | \$1,140,480 | \$63,360 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 19

A noise barrier was evaluated for the impacted area of Armwood High School (Receptors 1 and 2). The school is located south of I-4 and east of Mango Road. The impacted frequent use area is a track and football field. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for the impacted area.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 718 feet and an optimal height of 22 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the school would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the school in order for a barrier to be considered cost effective is 1,211 person-hours (i.e., 1,211 people

would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, it is not considered a reasonable noise abatement measure for the impacted area of Armwood High School.

NSA 20

A barrier was evaluated five feet within the FDOT's ROW for the two impacted residences south of I-4 and east of Pine Street (Receptors 1 and 2). The results of the evaluation are provided in **Table 3-15**. As shown, at barrier heights between 14 and 22 feet, the two impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 20.

Table 3-15 NSA 20: Barrier Results for Impacted Residences East of Pine Street

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 2</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 10 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 12 | NA ⁶ | 0 | 0 | 1 | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 14 | 1,470 | 1 | 0 | 1 | 2 | 0 | 2 | \$617,400 | \$308,700 | No |
| 16 | 1,370 | 1 | 0 | 1 | 2 | 0 | 2 | \$657,600 | \$328,800 | No |
| 18 | 1,270 | 1 | 0 | 1 | 2 | 0 | 2 | \$685,800 | \$342,900 | No |
| 20 | 1,170 | 1 | 0 | 1 | 2 | 0 | 2 | \$702,000 | \$351,000 | No |
| 22 | 1,170 | 1 | 0 | 1 | 2 | 0 | 2 | \$772,200 | \$386,100 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 21

A barrier was evaluated 5 feet within the FDOT’s ROW for the 35 residences located south of I-4 within Parsons Village mobile home park (MHP), east of Parsons Avenue North and within Graystone Subdivision (Receptors 1, 2, 23 through 29 and 31 through 37). The results of the evaluation are provided in **Table 3-16**. As shown, at barrier heights between 8 and 22 feet, at least 22 of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more, the noise reduction design goal of 7 dB(A) would be achieved and the cost of the barrier would be below the FDOT’s cost reasonable limit. Because the results of the analysis indicate that a barrier would provide the minimum noise reduction requirements at a cost below the cost effective limit, the barrier was evaluated further. A summary of the additional barrier considerations is provided in **Table 3-17**. Based on the review of these factors, a barrier was determined to be a potential noise abatement measure for the impacted residences in NSA 21. The limits of the most cost reasonable barrier (based on the results of this PD&E analysis) are depicted on Sheet 14 in Appendix B.

Table 3-16 NSA 21: Barrier Results for Impacted Residences in Parsons Village MHP, east of Parsons Avenue North and Graystone Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 35</i> | | | | | | | | | | |
| 8 | 2,290 | 11 | 3 | 8 | 22 | 0 | 22 | \$549,600 | \$24,982 | Yes |
| 10 | 2,879 | 9 | 11 | 8 | 28 | 0 | 28 | \$863,700 | \$30,846 | Yes |
| 12 | 2,644 | 8 | 7 | 15 | 30 | 0 | 30 | \$4951,840 | \$31,728 | Yes |
| 14 | 2,623 | 5 | 6 | 23 | 34 | 0 | 34 | \$1,101,660 | \$32,402 | Yes |
| 16 | 2,400 | 9 | 6 | 20 | 35 | 0 | 35 | \$1,152,000 | \$32,914 | Yes |
| 18 | 2,400 | 7 | 6 | 22 | 35 | 1 | 36 | \$1,296,000 | \$36,000 | Yes |
| 20 | 2,300 | 4 | 6 | 25 | 35 | 2 | 37 | \$1,406,400 | \$38,011 | Yes |
| 22 | 2,300 | 3 | 8 | 24 | 35 | 2 | 37 | \$1,518,000 | \$41,027 | Yes |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

Table 3-17 NSA 21: Additional Barrier Considerations

| Type of Factor | Evaluation Criteria | Comment |
|-----------------|-------------------------|--|
| Feasibility | Design and Construction | A determination of whether a noise barrier can be constructed using standard construction methods and techniques will be made during the project's design phase. Notably, additional costs to solely construct a noise barrier will be included in the final cost reasonableness evaluation of a noise barrier at this location. |
| | Safety | It does not appear that there would be any safety concerns (e.g., loss of sight distance). |
| | Accessibility | The barrier would be located within the FDOT's ROW for I-4 and would not block ingress or egress to any property. |
| | ROW | No acquisition of ROW or easements for construction/maintenance would be necessary to construct a barrier within the FDOT's ROW. |
| | Maintenance | The FDOT should be able to maintain a barrier at this location using standard practices. |
| | Drainage | A determination as to whether the barrier can be design so that water would be directed along, under, or away from the barrier will be made during the project's design phase. |
| | Utilities | A determination of utility conflicts will be made during the project's design phase. |
| Reasonable-ness | Community desires | The desires of the property owners and renters (if applicable) will be solicited during the design phase of the project. |

Notably, should a final determination be made that a noise barrier is a feasible and reasonable abatement measure during the project's design phase and depending on the final length of the barrier, there is a potential for outdoor advertising signs to be visually blocked. One sign is located west of Parsons Village MHP (at latitude 28.008247, longitude -82.288329), the other sign is located east of Graystone Subdivision (at latitude 28.010061, longitude -82.281979).

NSA 22

A noise barrier was evaluated five feet within the FDOT ROW for the nine impacted residences north of I-4 between Parsons Avenue North and North Kingsway Road (Receptor 3, 4, 8, 10 and 13 through 17). The results of the evaluation are provided in **Table 3-18**. As shown, at barrier heights between 12 and 22 feet, four impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 22.

Table 3-18 NSA 22: Barrier Results for Impacted Residences Between Parsons Avenue North and North Kingsway Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 9</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ⁵ | 2 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 12 | 2,128 | 2 | 1 | 1 | 4 | 0 | 4 | \$766,080 | 191,520 | No |
| 14 | 1,368 | 2 | 1 | 1 | 4 | 0 | 4 | \$574,560 | 143,640 | No |
| 16 | 1,100 | 1 | 2 | 1 | 4 | 0 | 4 | \$528,000 | 132,000 | No |
| 18 | 900 | 2 | 1 | 1 | 4 | 0 | 4 | \$486,000 | 121,500 | No |
| 20 | 900 | 2 | 1 | 1 | 4 | 0 | 4 | \$540,000 | 135,000 | No |
| 22 | 800 | 2 | 1 | 1 | 4 | 0 | 4 | \$528,000 | 132,000 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 24

A noise barrier was evaluated five feet within the FDOT ROW for the twenty-five impacted residences located south of I-4 from west of North Kingsway Road to east of the Kingsway Subdivision (Receptors 2, 3, 5, 11, 12, 19 through 32 and 37 through 42). The results of the evaluation are provided in **Table 3-19**. As shown, at barrier heights between 8 and 22 feet, at least seven impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 24.

Table 3-19 NSA 24: Barrier Results for Impacted Residences from West of Kingsway Road to east of the Kingsway Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 25</i> | | | | | | | | | | |
| 8 | 2,816 | 5 | 0 | 2 | 7 | 0 | 7 | \$675,840 | \$96,549 | No |
| 10 | 2,430 | 10 | 2 | 2 | 14 | 0 | 14 | \$729,000 | \$52,071 | No |
| 12 | 2,915 | 10 | 6 | 5 | 21 | 0 | 21 | \$1,049,400 | \$49,971 | No |
| 14 | 2,356 | 8 | 9 | 5 | 22 | 0 | 22 | \$989,520 | \$44,978 | No |
| 16 | 2,356 | 4 | 8 | 10 | 22 | 1 | 23 | \$1,130,880 | \$49,169 | No |
| 18 | 2,891 | 3 | 2 | 19 | 24 | 7 | 31 | \$1,561,140 | \$50,359 | No |
| 20 | 3,081 | 3 | 8 | 14 | 25 | 5 | 30 | \$1,848,600 | \$61,620 | No |
| 22 | 2,881 | 4 | 4 | 17 | 25 | 5 | 30 | \$1,901,460 | \$63,382 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 25

A barrier was evaluated five feet within the FDOT's ROW for the two impacted residences located south of I-4 and east of the truck weigh station (Receptors 2 and 4). The results of the evaluation are provided in **Table 3-20**. As shown, at a barrier height of 22 feet, both of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 25.

Table 3-20 NSA 25: Barrier Results for Impacted Residences East of the Truck Weigh Station

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 2</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ⁵ | 2 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | NA ⁵ | 0 | 2 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 20 | NA ⁵ | 0 | 2 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 22 | 2,068 | 1 | 0 | 1 | 2 | 1 | 3 | \$1,364,880 | \$454,960 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 26

A noise barrier was evaluated five feet within the FDOT ROW for the eleven impacted residences north of I-4 from McIntosh Road to Gallagher Road (Receptors 1 through 9, 11 and 12). The results of the evaluation are provided in **Table 3-21**. As shown, at barrier heights between 10 and 22 feet, seven of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 26.

Table 3-21 NSA 26: Barrier Results for Impacted Residences from McIntosh Road to Gallagher Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 11</i> | | | | | | | | | | |
| 8 | NA ⁵ | 2 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 10 | 2,329 | 6 | 0 | 1 | 7 | 0 | 7 | \$668,700 | \$95,529 | No |
| 12 | 2,329 | 5 | 4 | 2 | 11 | 0 | 11 | \$838,440 | \$76,222 | No |
| 14 | 1,829 | 4 | 4 | 3 | 11 | 0 | 11 | \$768,180 | \$69,835 | No |
| 16 | 1,629 | 4 | 3 | 4 | 11 | 0 | 11 | \$781,920 | \$71,084 | No |
| 18 | 1,629 | 4 | 2 | 5 | 11 | 0 | 11 | \$879,660 | \$79,969 | No |
| 20 | 1,629 | 4 | 0 | 7 | 11 | 0 | 11 | \$879,660 | \$79,969 | No |
| 22 | 1,529 | 3 | 4 | 4 | 11 | 0 | 11 | \$1,009,140 | \$91,740 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

NSA 27

Two noise barriers were evaluated for impacted areas of Strawberry Crest High School. The school is located south of I-4 and east of McIntosh Road. The first barrier was evaluated for an outdoor eating/gathering area (Receptor 1) and the second barrier was evaluated for the sports fields (Receptors 2 through 4). The impacted sports fields are the softball and baseball fields and the track/football field. The FDOT's special land use procedures were used to determine if these noise barriers could be considered a potential abatement measure for the impacted areas.

Outdoor Eating/Gathering Area - For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 595 feet and an optimal height of 12 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the school would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the school in order for a barrier to be considered cost effective is 1,204 person-hours (i.e., 1,204 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, a barrier is not considered a reasonable noise abatement measure for the impacted outdoor eating/gathering area at Strawberry Crest High School.

Sports Fields - For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 1,664 feet and an optimal height of 20 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the school would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the school in order for a barrier to be considered cost effective is 1,684 person-hours (i.e., 1,684 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, a barrier is not considered a reasonable noise abatement measure for the impacted area of the sports fields at Strawberry Crest High School.

NSA 29

A noise barrier was evaluated five feet within FDOT's ROW for the two impacted residences south of I-4 and located west of Reola Road to Fritzke Road (Receptors 1 and 2). The results of the evaluation are provided in **Table 3-22**. As shown, at

barrier heights between 14 and 22 feet, both of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 29.

Table 3-22 NSA 29: Barrier Results for Impacted Residences West of Reola Road to Fritzke Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 2</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 1 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | 1,121 | 1 | 0 | 1 | 2 | 0 | 2 | \$470,820 | \$235,410 | No |
| 16 | 1,021 | 1 | 0 | 1 | 2 | 0 | 2 | \$490,080 | \$245,040 | No |
| 18 | 921 | 1 | 0 | 1 | 2 | 0 | 2 | \$497,340 | \$248,670 | No |
| 20 | 921 | 1 | 0 | 1 | 2 | 0 | 2 | \$552,600 | \$276,300 | No |
| 22 | 821 | 1 | 0 | 1 | 2 | 0 | 2 | \$541,860 | \$270,930 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.
⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 30

A noise barrier was evaluated five feet within the FDOT’s ROW for the two residences located north of I-4 west of Fritzke Road (Receptors 1 and 2). The results of the barrier analysis are provided in **Table 3-23**. Due to the distance of the receptors from the barrier, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier heights. Therefore, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 30.

Table 3-23 NSA 30: Barrier Results for Impacted Residences West of Fritzke Rd

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 2</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 18 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 20 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 22 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 31

A noise barrier was evaluated five feet within the FDOT’s ROW for the seventeen impacted residences located south of I-4 from west of Bethlehem Road to Branch Forbes Road (Receptors 2, 7 through 9, 18 through 28, 30 and 35). The results of the evaluation are provided in **Table 3-24**. As shown, at barrier heights between 12 and 22 feet, at least six of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 31.

Table 3-24 NSA 31: Barrier Results for Impacted Residences South of I-4 from Bethlehem Road to Branch Forbes Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 17</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ⁵ | 3 | 1 | 0 | 4 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ |
| 12 | 2,153 | 4 | 1 | 1 | 6 | 0 | 6 | \$775,080 | \$129,180 | No |
| 14 | 3,435 | 5 | 1 | 2 | 8 | 0 | 8 | \$1,442,700 | \$180,338 | No |
| 16 | 2,625 | 6 | 1 | 3 | 10 | 0 | 10 | \$1,260,000 | \$126,000 | No |
| 18 | 2,725 | 4 | 3 | 4 | 11 | 0 | 11 | \$1,471,500 | \$133,773 | No |
| 20 | 2,453 | 4 | 2 | 6 | 12 | 0 | 12 | \$1,471,800 | \$122,650 | No |
| 22 | 2,355 | 7 | 1 | 7 | 15 | 0 | 15 | \$1,554,300 | \$103,620 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 32

A barrier was evaluated five feet within the FDOT's ROW for the nine impacted residences located north of I-4 from Bethlehem Road to Branch Forbes Road (Receptors 1 through 9). The results of the evaluation are provided in **Table 3-25**. As shown, at barrier heights between 18 and 22 feet, all of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 32.

Table 3-25 NSA 32: Barrier Results for Impacted Residences North of I-4 from Bethlehem Road to Branch Forbes Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 9</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ⁵ | 2 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 14 | NA ⁵ | 7 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 16 | NA ⁵ | 1 | 8 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 18 | 2,244 | 2 | 4 | 3 | 9 | 0 | 9 | \$1,211,760 | \$134,640 | No |
| 20 | 2,144 | 2 | 2 | 5 | 9 | 1 | 10 | \$1,286,400 | \$128,640 | No |
| 22 | 2,144 | 2 | 1 | 6 | 9 | 1 | 10 | \$1,415,040 | \$141,504 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 34

A barrier was evaluated five feet within the FDOT's ROW for the three residences located north of I-4 and west of Hawk Griffin Road (Receptors 1 through 3). The results of the barrier analysis are provided in **Table 3-26**. Due to the distance of the receptors from the barrier, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier heights. Therefore, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 34.

Table 3-26 NSA 34: Barrier Results for Impacted Residences West of Hawk Griffin Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 3</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 18 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 20 | NA ⁵ | 3 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 22 | NA ⁵ | 3 | 1 | 0 | NA ⁵ | NA ⁵ | NA ^{5,6} | NA ⁵ | NA ⁵ | NA ⁵ |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 35

A noise barrier was evaluated five feet within the FDOT’s ROW for the 47 impacted residences located south of I-4 between Hawk Griffin Road and Thonotosassa Road (Receptors 1 through 14, 16 through 21, 23 through 29 and 31 through 50). The results of the evaluation are provided in **Table 3-27**. As shown, at barrier heights between 8 and 22 feet, at least 22 of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 35.

**Table 3-27 NSA 35: Barrier Results for Impacted Residences South of I-4
 Between Hawk Griffin Road and Thonotosassa Road**

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 47</i> | | | | | | | | | | |
| 8 | 6,848 | 11 | 3 | 8 | 22 | 0 | 22 | \$1,643,520 | \$74,705 | No |
| 10 | 8,003 | 15 | 7 | 12 | 34 | 2 | 36 | \$2,400,900 | \$64,889 | No |
| 12 | 7,507 | 10 | 11 | 16 | 37 | 2 | 39 | \$2,702,520 | \$69,295 | No |
| 14 | 7,285 | 11 | 9 | 19 | 39 | 2 | 41 | \$3,059,700 | \$74,627 | No |
| 16 | 7,180 | 7 | 9 | 24 | 40 | 2 | 42 | \$3,446,400 | \$82,057 | No |
| 18 | 7,184 | 9 | 5 | 28 | 42 | 2 | 44 | \$3,879,360 | \$88,167 | No |
| 20 | 7,484 | 7 | 4 | 33 | 44 | 2 | 46 | \$4,392,000 | \$95,478 | No |
| 22 | 7,085 | 8 | 3 | 34 | 45 | 3 | 48 | \$4,676,100 | \$97,419 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 37

A noise barrier was evaluated five feet within FDOT's ROW for the 41 impacted residences located north of I-4 from Hawk Griffin Road to east of Thonotosassa Road (Receptors 1 through 6 and 8 through 42). The results of the evaluation are provided in **Table 3-28**. As shown, at barrier heights between 8 and 22 feet, at least seven of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 37.

Table 3-28 NSA 37: Barrier Results for Impacted Residences North of I-4 from Hawk Griffin Road to Thonotosassa Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|-----------------------------------|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| Number of Impacted Receptors = 41 | | | | | | | | | | |
| 8 | 3,531 | 3 | 2 | 2 | 7 | 0 | 7 | \$847,440 | \$121,063 | No |
| 10 | 5,357 | 10 | 1 | 5 | 16 | 0 | 16 | \$1,607,100 | \$100,444 | No |
| 12 | 6,091 | 13 | 7 | 6 | 26 | 0 | 26 | \$2,192,760 | \$84,337 | No |
| 14 | 5,891 | 10 | 11 | 10 | 31 | 0 | 31 | \$2,474,220 | \$79,814 | No |
| 16 | 5,791 | 9 | 10 | 15 | 34 | 0 | 34 | \$2,779,680 | \$81,755 | No |
| 18 | 6,853 | 6 | 9 | 21 | 36 | 0 | 36 | \$3,700,620 | \$102,795 | No |
| 20 | 6,221 | 10 | 3 | 24 | 37 | 0 | 37 | \$3,732,600 | \$100,881 | No |
| 22 | 6,853 | 6 | 6 | 28 | 40 | 0 | 40 | \$4,522,980 | \$113,075 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 40

A barrier was evaluated five feet within FDOT's ROW for the three residences located north of I-4 along Bennett Road (Receptors 1 and 2). The results of the barrier analysis are provided in **Table 3-29**. Due to the distance of the receptors from the barrier, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier heights. Therefore, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 40.

Table 3-29 NSA 40: Barrier Results for Impacted Residences Along Bennett Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 3</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 16 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 18 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 20 | NA ⁵ | 1 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 22 | NA ⁵ | 1 | 1 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 41

Two barriers were evaluated for the 50 impacted residences in the Orange Court Subdivision (Receptors 1 through 34, 36, 37 and 39 through 52). The first barrier was evaluated five feet within the FDOT’s ROW. The results of the evaluation for this barrier are provided in **Table 3-30**. As shown, at barrier heights between 12 and 22 feet, at least two of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a ROW barrier is not considered a reasonable noise abatement measure.

Table 3-30 NSA 41: Barrier Results for Residences in the Orange Court Subdivision (Five Feet Within ROW)

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 49</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 1 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ⁶ | 0 | 0 | 1 | NA ^{5,6} | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 12 | 591 | 1 | 0 | 1 | 2 | 0 | 2 | \$212,760 | \$106,380 | No |
| 14 | 591 | 1 | 1 | 1 | 3 | 0 | 3 | \$248,220 | \$82,740 | No |
| 16 | 989 | 2 | 0 | 2 | 4 | 0 | 4 | \$474,720 | \$118,680 | No |
| 18 | 1,189 | 2 | 2 | 2 | 6 | 0 | 6 | \$642,060 | \$107,010 | No |
| 20 | 1,289 | 4 | 1 | 3 | 8 | 0 | 8 | \$773,400 | \$96,675 | No |
| 22 | 1,089 | 4 | 2 | 3 | 9 | 0 | 9 | \$718,740 | \$79,860 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.
⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

Because this segment of I-4 is elevated and a ROW barrier would not be cost reasonable, a second barrier was evaluated on the shoulder of the roadway. The results of the evaluation are provided in **Table 3-31**. As shown, at barrier heights between 12 and 14 feet, four of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more. However, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier heights. Therefore, a shoulder barrier is also not considered a reasonable noise abatement measure for the impacted residences in NSA 41.

Table 3-31 NSA 41: Barrier Results for Impacted Residences in the Orange Court Subdivision (Shoulder Barrier)

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 49</i> | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ⁶ | 0 | 0 | 0 | NA ^{5,6} | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ | NA ⁶ |
| 12 | 591 | 4 | 0 | 0 | 4 | 0 | 4 | NA ⁵ | NA ⁵ | NA ⁵ |
| 14 | 591 | 4 | 0 | 0 | 4 | 0 | 4 | NA ⁵ | NA ⁵ | NA ⁵ |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.
⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 43

A noise barrier was evaluated for the impacted area of Memorial Park Cemetery (Receptor 1). The cemetery is located north of I-4 and west of N Wheeler Street. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for the impacted area.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 650 feet and an optimal height of 22 feet, a barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the cemetery would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the cemetery in order for a barrier to be considered cost effective is 2,111 person-hours (i.e., 2,111 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, it is not considered a reasonable noise abatement measure for the impacted area of the Memorial Park Cemetery.

NSA 45

Due to a constraint caused by a frontage road, a noise barrier was evaluated at the roadway shoulder for the 42 residences at the Bracewell Heights Subdivision (Receptors 1 through 19, 26 through 32, 36 through 46 and 50 through 54). Following FDOT's *Plans Preparation Manual* (PPM), the height of roadway shoulder barrier was limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-32**. As shown, at barrier heights between 8 and 14 feet, at least 25 of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more, the noise reduction design goal of 7 dB(A) would be achieved and the cost of the barrier would be below the FDOT's cost reasonable limit. Because a barrier is predicted to provide the minimum noise reduction requirements at a cost

below the cost effective limit, the barrier was evaluated further. A summary of the additional barrier considerations is provided in **Table 3-33**. Based on the review of these factors, a barrier was determined to be a potential noise abatement measure for the impacted residences in NSA 45. The limits of the most cost reasonable barrier (based on the results of this PD&E analysis) are depicted on Sheets 33 and 34 in Appendix B.

Table 3-32 NSA 45: Barrier Results for Impacted Residences in Bracewell Heights Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 42</i> | | | | | | | | | | |
| 8 | 2,960 | 13 | 7 | 5 | 25 | 0 | 25 | \$710,400 | \$28,416 | Yes |
| 10 | 2,721 | 14 | 9 | 15 | 38 | 1 | 39 | \$816,300 | \$20,931 | Yes |
| 12 | 3,773 | 5 | 9 | 28 | 42 | 7 | 49 | \$1,272,720 | \$25,974 | Yes |
| 14 | 3,417 | 4 | 5 | 33 | 42 | 8 | 50 | \$1,352,880 | \$27,058 | Yes |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

Table 3-33 NSA 45: Additional Barrier Considerations

| Type of Factor | Evaluation Criteria | Comment |
|-----------------|-------------------------|--|
| Feasibility | Design and Construction | A determination of whether a noise barrier can be constructed using standard construction methods and techniques will be made during the project's design phase. Notably, additional costs to solely construct a noise barrier will be included in the final cost reasonableness evaluation of a noise barrier at this location. |
| | Safety | It does not appear that there would be any safety concerns (e.g., loss of sight distance). |
| | Accessibility | The barrier would be located within the FDOT's ROW for I-4 and would not block ingress or egress to any property. |
| | ROW | No acquisition of ROW or easements for construction/maintenance would be necessary to construct a barrier within the FDOT's ROW. |
| | Maintenance | The FDOT should be able to maintain a barrier at this location using standard practices. |
| | Drainage | A determination as to whether the barrier can be design so that water would be directed along, under, or away from the barrier will be made during the project's design phase. |
| | Utilities | A determination of utility conflicts will be made during the project's design phase. |
| Reasonable-ness | Community desires | The desires of the property owners and renters (if applicable) will be solicited during the design phase of the project. |

Notably, should a final determination be made that a noise barrier is a feasible and reasonable abatement measure during the project’s design phase and depending on the final length of the barrier, there is a potential for an outdoor advertising sign to be visually blocked. The sign is located west of the Bracewell Heights Subdivision (at latitude 28.036271, longitude -82.117994).

NSA 47

Again, due to the constraints caused by a frontage road, a noise barrier was evaluated at the roadway shoulder for the three residences located north of I-4 west of Maryland Avenue (Receptors 1 through 3). Following FDOT’s *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the barrier analysis are provided in **Table 3-34**. Due to the distance of the receptors from the barrier, the noise reduction design goal of 7 dB(A) could not be achieved at any of the evaluated barrier heights. Therefore, the barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 47.

Table 3-34 NSA 47: Barrier Results for Impacted Residences West of Maryland Avenue

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|----------------------------------|-----------------------|--|---------|----|--|-------------------|-------------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| Number of Impacted Receptors = 3 | | | | | | | | | | |
| 8 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 10 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 12 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |
| 14 | NA ^{5,6} | 0 | 0 | 0 | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} | NA ^{5,6} |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.
⁶ 5 dB(A) reduction or greater was not achieved at two or more receptors.

NSA 50

Also due to the constraints caused by a frontage road, a shoulder barrier was evaluated for the 24 impacted residences in the Colonial Village Subdivision (Receptors 1 through 2, 10 through 18, 22 through 23, 25 through 31, 40, 42, 43 and

46). Following FDOT’s *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-35**. As shown, at barrier heights between 8 and 14 feet, at least nine of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 50.

Table 3-35 NSA 50: Barrier Results for Impacted Residences in Colonial Village Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 24</i> | | | | | | | | | | |
| 8 | NA ⁵ | 3 | 2 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 10 | 1,636 | 5 | 2 | 2 | 9 | 0 | 9 | \$486,900 | \$54,100 | No |
| 12 | 1,336 | 5 | 4 | 5 | 14 | 0 | 14 | \$1,053,480 | \$75,249 | No |
| 14 | 2,163 | 4 | 6 | 8 | 18 | 0 | 18 | \$1,211,700 | \$67,317 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.
² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.
³ Based on a unit cost of \$30 per square foot.
⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.
⁵ 7 dB(A) reduction not achieved at any receptor.

NSA 51

Again, due to the constraints caused by a frontage road, a barrier was evaluated at the roadway shoulder for the 33 impacted residences in the Dorene Terrace Subdivision (Receptors 1 through 10, 14, 15, 18 through 20, 27 through 31, 34 through 45 and 49). Following FDOT’s *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-36**. As shown, at barrier heights between 8 and 14 feet, at least seven of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT’s cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 51.

Table 3-36 NSA 51: Barrier Results for Impacted Residences in Dorene Terrace Subdivision

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 33</i> | | | | | | | | | | |
| 8 | 3,357 | 3 | 1 | 3 | 7 | 0 | 7 | \$805,680 | \$115,097 | No |
| 10 | 3,057 | 7 | 5 | 4 | 16 | 0 | 16 | \$878,580 | \$54,911 | No |
| 12 | 4,262 | 13 | 5 | 9 | 27 | 0 | 27 | \$1,426,440 | \$52,831 | No |
| 14 | 3,100 | 10 | 8 | 10 | 28 | 0 | 28 | \$1,268,700 | \$45,311 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 53

Again, due to the constraints caused by a frontage road, a barrier was evaluated at the roadway shoulder for the 28 impacted residences located north of I-4 and both west and east of Charlie Taylor Road (Receptors 1 through 8, 10 through 16, 17, 20, 21, 24, 26, 27, 29 through 33, 35 and 36). Following FDOT's *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-37**. As shown, at barrier heights between 8 and 14 feet, at least eight of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 53.

Table 3-37 NSA 53: Barrier Results for Impacted Residences West and East of Charlie Taylor Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 27</i> | | | | | | | | | | |
| 8 | 6,397 | 6 | 1 | 1 | 8 | 0 | 8 | \$1,535,280 | \$1,579,620 | No |
| 10 | 5,615 | 11 | 3 | 2 | 16 | 1 | 17 | \$191,910 | \$92,919 | No |
| 12 | 5,315 | 7 | 7 | 3 | 17 | 2 | 19 | \$1,535,280 | \$1,579,620 | No |
| 14 | 5,415 | 6 | 2 | 10 | 18 | 2 | 20 | \$191,910 | \$92,919 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

NSA 54

In this segment of I-4, the roadway is elevated. Due to this constraint and the constraint of a frontage road, a barrier was evaluated on the wall structure along the shoulder for the 13 impacted residences south of I-4 and west of Charlie Taylor Road (Receptors 1, 2, 4 through 8 and 10 through 15). Following FDOT's *Plans Preparation Manual* (PPM), the height of a roadway shoulder barrier on structure is limited to a maximum of 8 feet. The results of the barrier analysis are provided in **Table 3-38**. Due to the limitation on barrier height, the noise reduction design goal of 7 dB(A) could not be achieved at the evaluated barrier height. Therefore, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 54.

Table 3-38 NSA 54: Barrier Results for Impacted Residences West of Charlie Taylor Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|-----------------------|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| 8 | NA ⁵ | 2 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

NSA 56

A noise barrier was also evaluated at the roadway shoulder for the impacted area of Mt. Enon Cemetery (Receptor 1). The cemetery is located north of I-4 and east of Charlie Taylor Road. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for the impacted area.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 1,741 feet and an optimal height of 14 feet, a shoulder barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the cemetery would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the cemetery in order for a barrier to be considered cost effective is 1,979 person-hours (i.e., 1,979 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, it is not considered a reasonable noise abatement measure for the impacted area of Mt. Enon Cemetery.

NSA 57

Again due to a constraint caused by a frontage road, a barrier was evaluated on the shoulder for the 32 impacted residences located south of I-4 between Wiggins Road and County Line Road (Receptors 1 through 26 and 28 through 33). Following FDOT's *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-39**. As shown, at barrier heights between 8 and 14 feet, at least 31 of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more, the noise reduction design goal of 7 dB(A) would be achieved and the cost of the barrier would be below the FDOT's cost reasonable limit. Because a barrier is predicted to provide the minimum noise reduction requirements at a cost below the cost effective limit, the barrier was evaluated further. A summary of the additional

barrier considerations is provided in **Table 3-40**. Based on the review of these factors, a barrier was determined to be a potential noise abatement measure for the impacted residences in NSA 57. The limits of the most cost reasonable barrier (based on the results of the PD&E analysis) are depicted on Sheets 38 and 39 in Appendix B.

Table 3-39 NSA 57: Barrier Results for Impacted Residences Between Wiggins Road and County Line Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|--|-----------------------|--|---------|----|--|--------------|-------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 32</i> | | | | | | | | | | |
| 8 | 2,348 | 13 | 5 | 13 | 31 | 0 | 31 | \$563,520 | \$18,178 | Yes |
| 10 | 2,154 | 11 | 6 | 15 | 32 | 0 | 32 | \$601,620 | \$18,801 | Yes |
| 12 | 1,448 | 8 | 8 | 16 | 32 | 0 | 32 | \$468,120 | \$14,629 | Yes |
| 14 | 1,448 | 7 | 8 | 17 | 32 | 0 | 32 | \$528,420 | \$16,513 | Yes |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

Table 3-40 NSA 57: Additional Barrier Considerations

| Type of Factor | Evaluation Criteria | Comment |
|-----------------|-------------------------|--|
| Feasibility | Design and Construction | A determination of whether a noise barrier can be constructed using standard construction methods and techniques will be made during the project's design phase. Notably, additional costs to solely construct a noise barrier will be included in the final cost reasonableness evaluation of a noise barrier at this location. |
| | Safety | It does not appear that there would be any safety concerns (e.g., loss of sight distance). |
| | Accessibility | The barrier would be located within the FDOT's ROW for I-4 and would not block ingress or egress to any property. |
| | ROW | No acquisition of ROW or easements for construction/maintenance would be necessary to construct a barrier within the FDOT's ROW. |
| | Maintenance | The FDOT should be able to maintain a barrier at this location using standard practices. |
| | Drainage | A determination as to whether the barrier can be design so that water would be directed along, under, or away from the barrier will be made during the project's design phase. |
| | Utilities | A determination of utility conflicts will be made during the project's design phase. |
| Reasonable-ness | Community desires | The desires of the property owners and renters (if applicable) will be solicited during the design phase of the project. |

NSA 58

Again due to a constraint caused by a frontage road, a barrier was evaluated on the shoulder for the five impacted residences located north of I-4 from Charlie Taylor Road to County Line Road (Receptors 1 through 5). Following FDOT's *Plans Preparation Manual* (PPM), the height of roadway shoulder barriers is limited to a maximum of 14 feet. The results of the evaluation are provided in **Table 3-41**. As shown, at barrier heights between 12 and 14 feet, all of the impacted residences would receive a benefit from a reduction in traffic noise of 5 dB(A) or more and the noise reduction design goal of 7 dB(A) would be achieved. However, because the cost of the barrier at all barrier heights would be above the FDOT's cost reasonable limit, a barrier is not considered a reasonable noise abatement measure for the impacted residences in NSA 58.

Table 3-41 NSA 58: Barrier Results for Impacted Residence from Charlie Taylor Road to County Line Road

| Barrier Height (feet) | Barrier Length (feet) | Noise Reduction at Impacted Receptors (dB(A)) ¹ | | | Number of Benefited Receptors ² | | | Total Estimated Cost ³ | Cost per Benefited Receptor ⁴ | Cost Reasonable Yes/No |
|---|-----------------------|--|---------|----|--|-----------------|-----------------|-----------------------------------|--|------------------------|
| | | 5 - 5.9 | 6 - 6.9 | ≥7 | Impacted | Not Impacted | Total | | | |
| <i>Number of Impacted Receptors = 5</i> | | | | | | | | | | |
| 8 | NA ⁵ | 4 | 0 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 10 | NA ⁵ | 0 | 4 | 0 | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ | NA ⁵ |
| 12 | 1,448 | 2 | 0 | 3 | 5 | 0 | 5 | \$543,600 | \$108,720 | No |
| 14 | 1,448 | 1 | 1 | 3 | 5 | 0 | 5 | \$634,200 | \$126,840 | No |

¹ Receptors with a predicted noise level of 66 dB(A) or greater.

² Receptors with a predicted reduction of 5 dB(A) or more are considered benefited.

³ Based on a unit cost of \$30 per square foot.

⁴ FDOT cost reasonable criterion is \$42,000 per benefited receptor.

⁵ 7 dB(A) reduction not achieved at any receptor.

NSA 59

A noise barrier was evaluated for the impacted area of Faith Temple Assembly of God Church (Receptor 1). The church is located north of I-4 and west of County Line Road. The impacted frequent use area is a playground. The FDOT's special land use procedures were used to determine if a noise barrier could be considered a potential abatement measure for the impacted area.

For the purpose of this special land use evaluation, the optimal length and height for a noise barrier was determined using TNM. At an optimal length of 7,742 feet and an optimal height of 14 feet, a shoulder barrier would reduce predicted traffic noise levels within the impacted area a minimum of 7 dB(A). Because it is not known how frequently the impacted and benefited area of the church would be used and by how many people, the minimum number of person-hours of use on an average day in order for a barrier to be considered cost effective was calculated.

The cost effectiveness calculations were based on the formulas from the special land use procedures. Assuming the optimal barrier length and height, the minimum daily use required within the impacted and benefited area of the church in order for a barrier to be considered cost effective is 326 person-hours (i.e., 326 people would have to use the area for one hour each day of the year). Because it is not reasonable to assume that this level of activity would occur within the impacted area that would be benefited by a barrier, it is not considered a reasonable noise abatement measure for the impacted area of the Faith Temple Assembly of God Church.

4.0 CONCLUSIONS

As previously stated, future traffic noise levels with the proposed improvements are predicted to approach, meet, or exceed the NAC at 582 properties with noise sensitive uses. The results of the evaluation indicate that construction of noise barriers is a potentially reasonable and feasible noise abatement method to reduce predicted traffic noise for up to 132 of the 582 properties. These properties are located at

- NSA 4: Residences in the Pardeau Shores subdivision
- NSA 21: Residences south of I-4 between Parsons Avenue and Brinwood Drive
- NSA 45: Residences in the Bracewell Heights subdivision
- NSA 57: Residences south of I-4 between Wiggins Road and County Line Road

The estimated cost to construct the noise barriers ranges from \$2,228,000 to \$4,325,000 depending on barrier length and height.

Notably, the noise barriers for the impacted properties in NSA 21 and NSA 45 have the potential to visually block outdoor advertising signs. Should the barriers at these locations remain a feasible and reasonable abatement measure after the detailed noise analysis during the final design process and the signs are determined to be conforming and legally permitted signs, a notice of the possible screening will be provided to the affected sign permit holder(s) and the appropriate local sign regulating agency and a public hearing will be held to receive input on the proposed noise barrier/sign conflict.

4.1 Statement of Likelihood

The FDOT is committed to the construction noise barriers at the locations in the bullet list above, contingent upon the following:

- Detailed noise analysis during the final design process continues to support the need for, and the feasibility and reasonableness of providing the barriers as abatement;
- The detailed analysis demonstrates that the cost of the noise barrier will not exceed the cost effective limit;

- The residents/property owners benefitted by the noise barrier desire that a noise barrier be constructed; and
- All safety and engineering conflicts or issues related to construction of a noise barrier are resolved.

5.0 NOISE CONTOURS

Land uses such as residences and recreational areas are considered incompatible with highway noise levels that approach or exceed the NAC. To reduce the possibility of additional traffic noise-related impacts, noise level contours were developed for the future improved roadway facility. These noise contours delineate the extent of the predicted traffic noise impact area from the improved roadway's edge-of-travel lane for each of the land use Activity Categories (Table 2-1). **Table 5-1** provides the distance from the edge-of-travel lane at which traffic noise levels are predicted to be 56 dB(A)—the NAC for land uses classified as Activity Category A, to 66 dB(A)—the NAC for land uses classified as Activity Category B and C, and to 71 dB(A)—the NAC for land uses classified as Activity Category E.

Local officials will be provided a copy of the Final NSR to promote compatibility between any future land developments in this area and the proposed project.

Table 5-1 Noise Contour Limits

| I-4 Roadway Segment | Distance from Improved Roadway's Edge-of-Pavement (ft)* | | |
|--|---|-----------------------------------|---------------------------------|
| | Activity Category A 56 dB(A) | Activity Category B/C 66 dB(A) | Activity Category E 71 dB(A) |
| East of 50 th Street to US 92 Flyover | 1,390 | 490 | 290 |
| US 92 Flyover to East of I-75 | 1,390 | 495 | 290 |
| East of I-75 to West of SR 579 | 1,330 | 470 | 275 |
| West of SR 579 to West of County Line Rd | 1,595 | 610 | 340 |

* See Table 2-1 for a description of the activities that occur within each category. Distances do not reflect any reduction in noise levels that would occur from existing structures (shielding) and should be used for planning purposes only.

6.0 CONSTRUCTION NOISE AND VIBRATION

Some land uses adjacent I-4 are identified on the FDOT listing of noise- and vibration-sensitive sites (e.g., residential use). Construction of the proposed roadway improvements is not expected to have a significant noise or vibration effect. Additionally, the application of the *FDOT Standard Specifications for Road and Bridge Construction* may minimize or eliminate potential issues. Should unanticipated noise or vibration issues arise during the construction process, the Project Engineer, in coordination with the District Noise Specialist and the Contractor, will investigate additional methods of controlling these impacts.

7.0 COMMUNITY COORDINATION

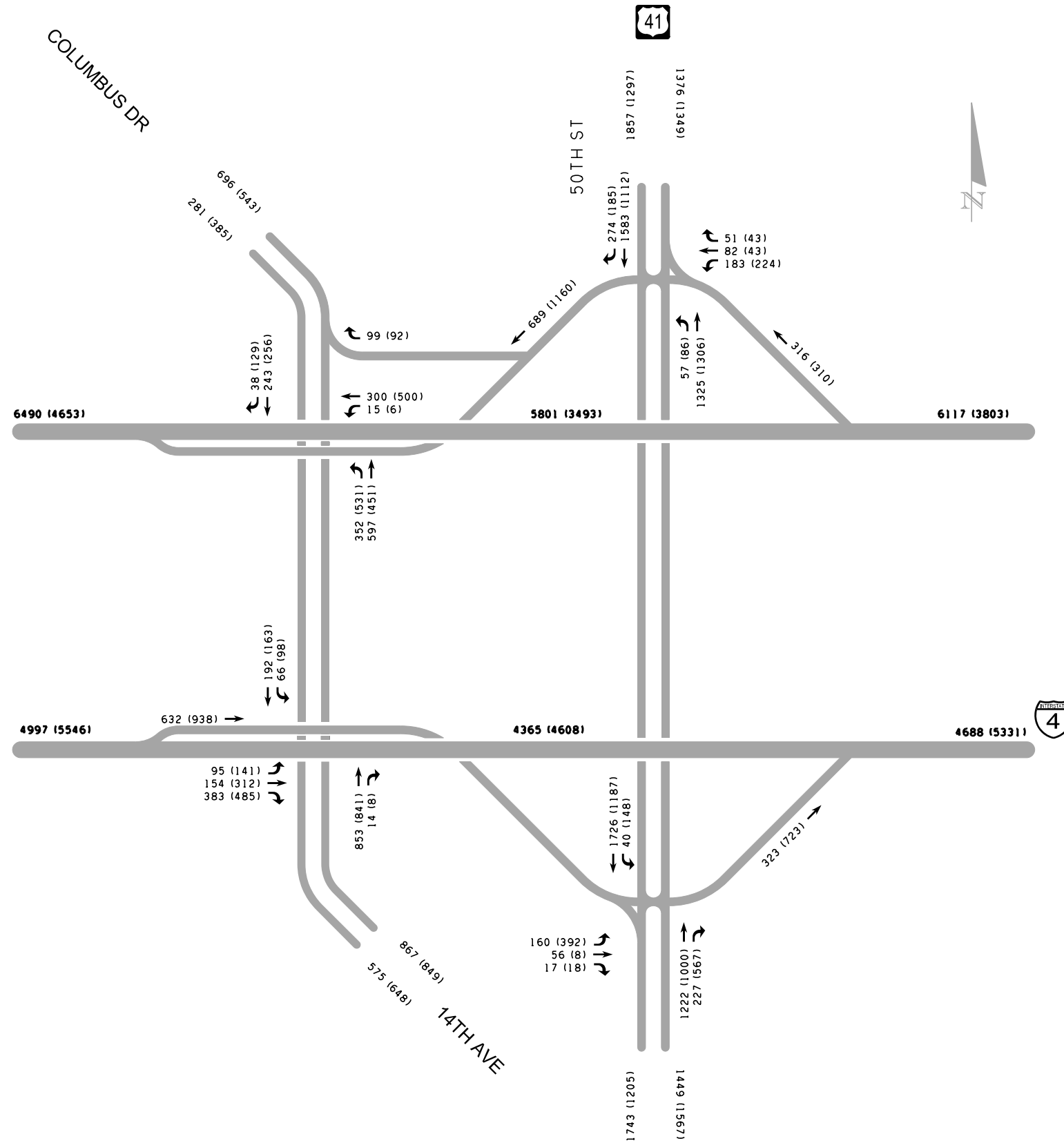
A project-related public hearing is planned. Details regarding the hearing (i.e, date and location) and any traffic noise-related issues raised at the hearing will be documented in the final NSR.

8.0 REFERENCES

- Federal Highway Administration. U.S. Department of Transportation. July 13, 2010. Title 23 CFR, Part 772. *Procedures for Abatement of Highway Traffic Noise and Construction Noise*.
- Federal Highway Administration. February 2004. *Traffic Noise Model, Version 2.5*.
- Federal Highway Administration. December 2011. *Highway Traffic Noise: Analysis and Abatement Guidance*.
- Federal Highway Administration. May 1996. *Measurement of Highway-Related Noise*. FHWA-PD-96-046.
- Florida Department of Transportation. May 24, 2011. *Project Development and Environment Manual, Part 2, Chapter 17 - Noise*.
- Florida Department of Transportation. July 1, 2013. *Plans Preparation Manual, Volume 1, Chapter 32 - Sound Barriers*.
- Florida Department of Transportation. 2014. *Standard Specifications for Road and Bridge Construction*.
- California Department of Transportation. September 2013. *Technical Noise Supplement to the Traffic Noise Analysis Protocol*.

APPENDIX A

Traffic Data



XXX (XXX) 2012 Existing AM Volume (PM Volume)

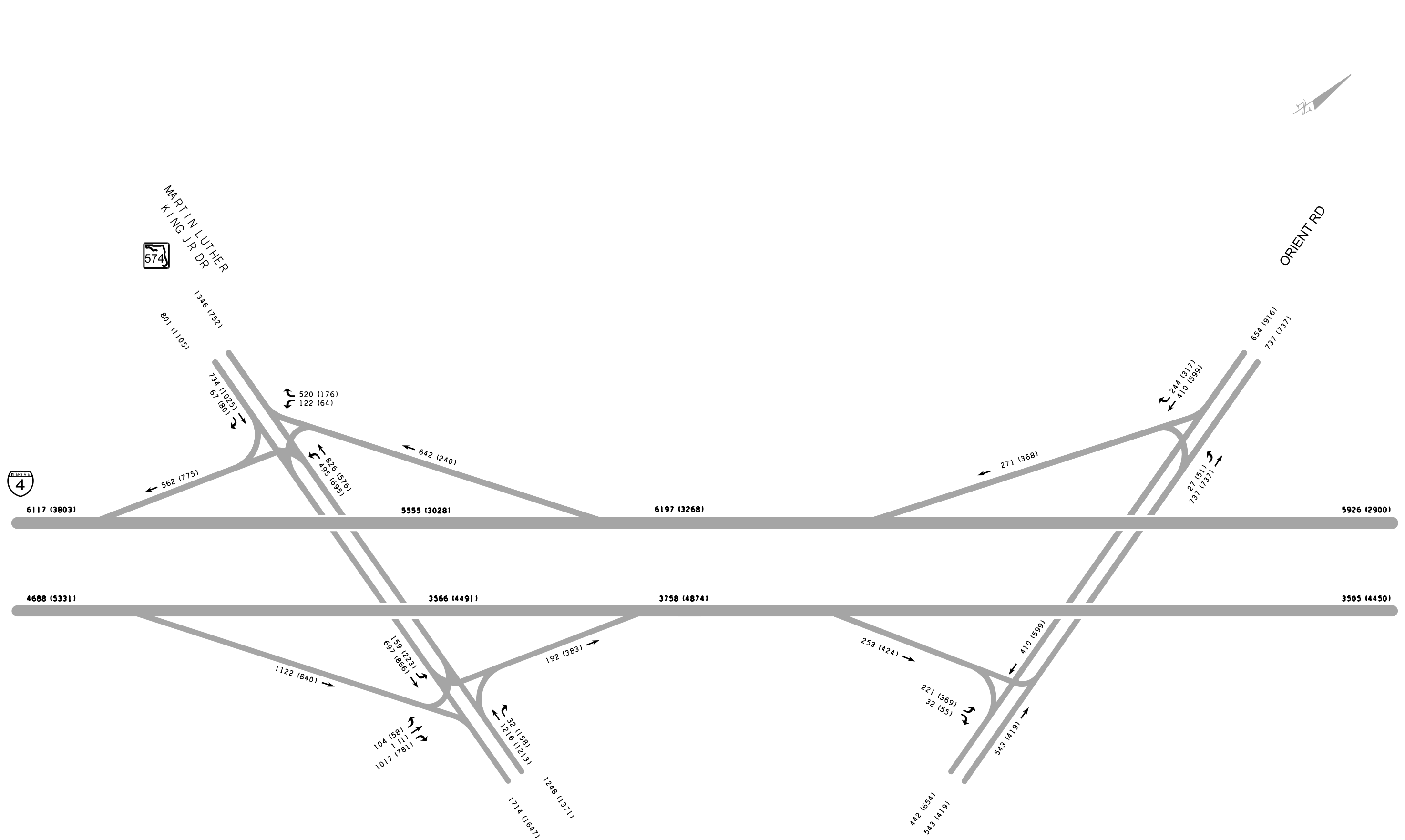


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County

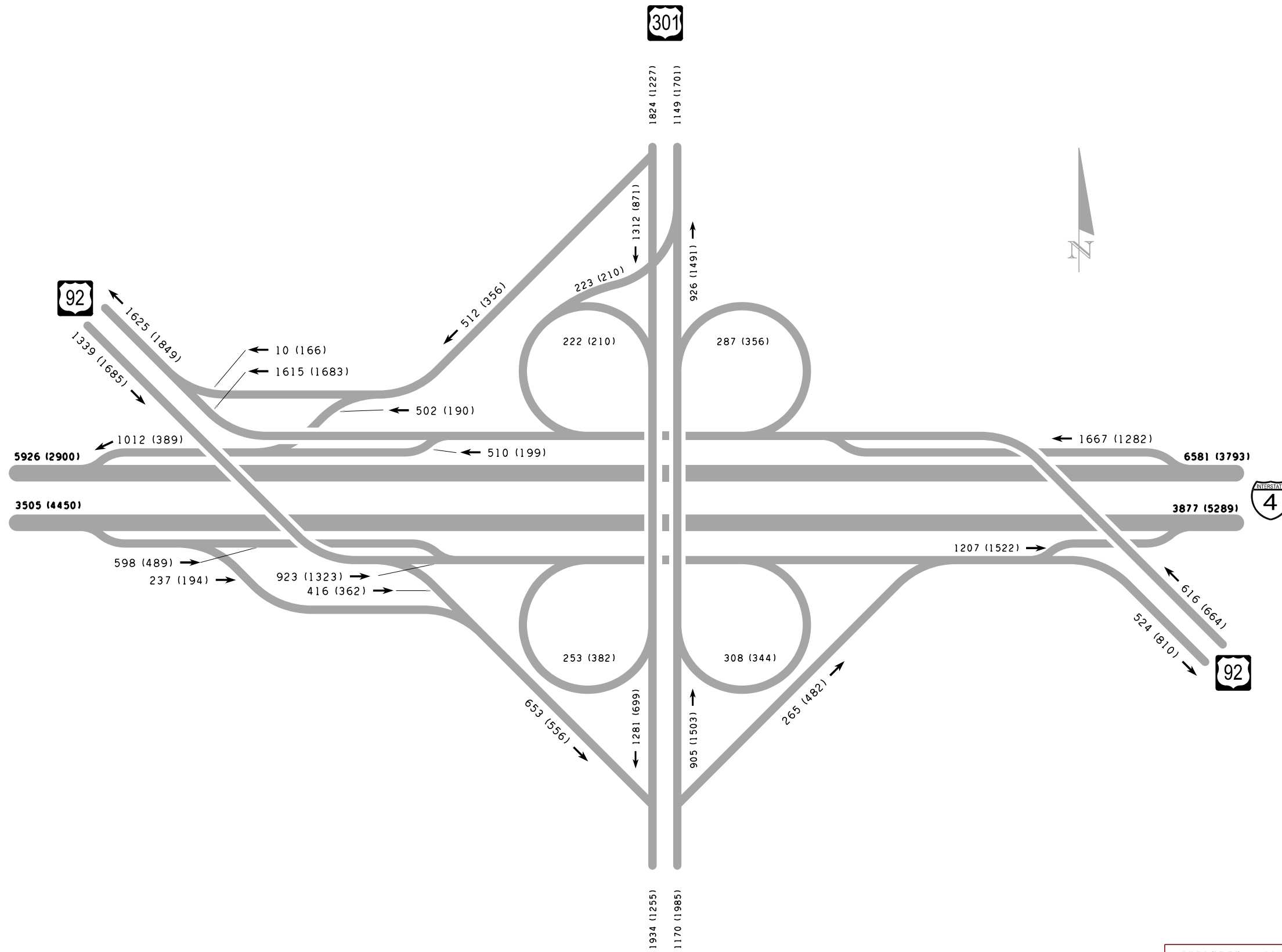


I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for Existing (2012)

Figure 2-1

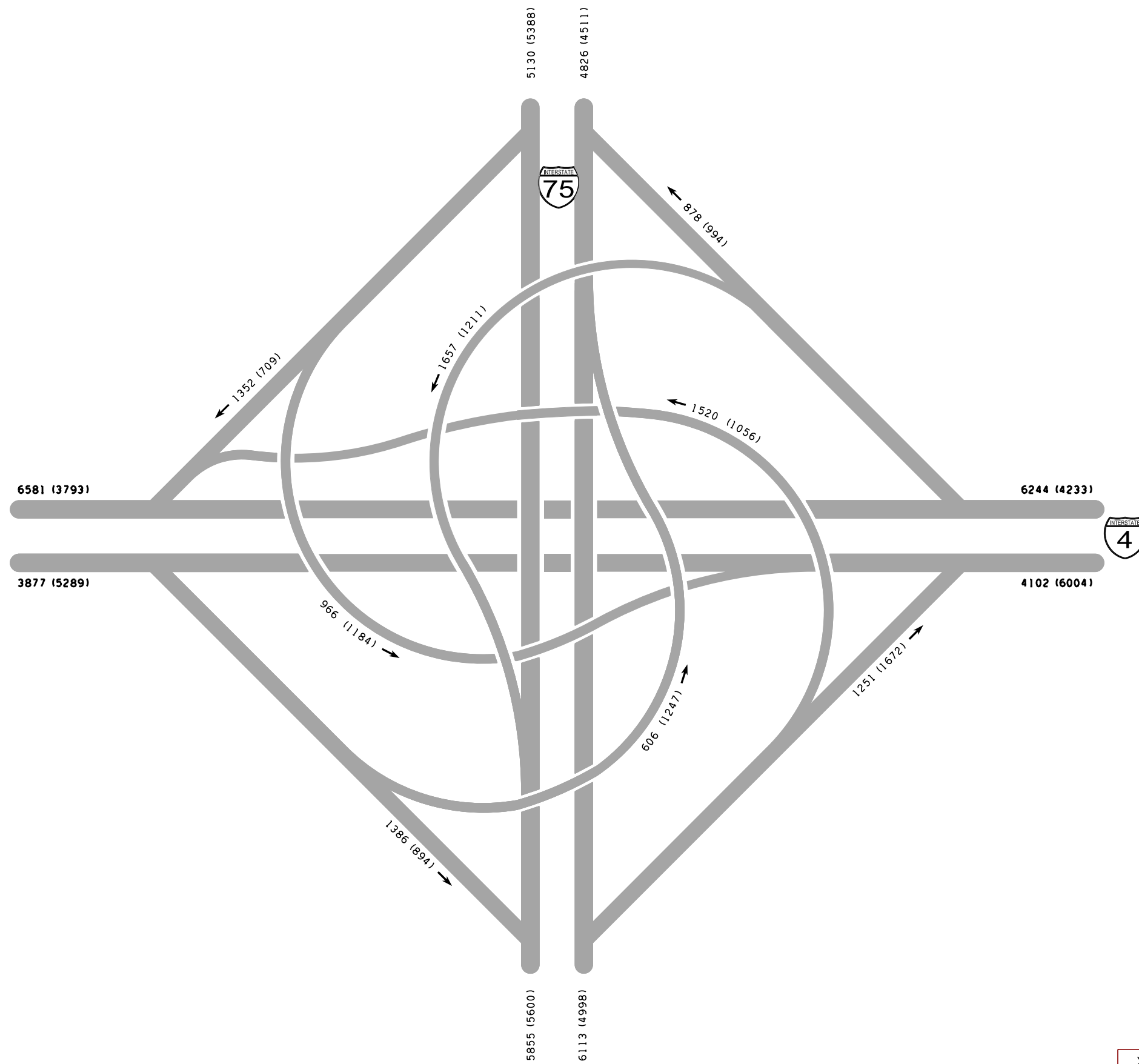


XXX (XXX) 2012 Existing AM Volume (PM Volume)



XXX (XXX) 2012 Existing AM Volume (PM Volume)





XXX (XXX) 2012 Existing AM Volume (PM Volume)

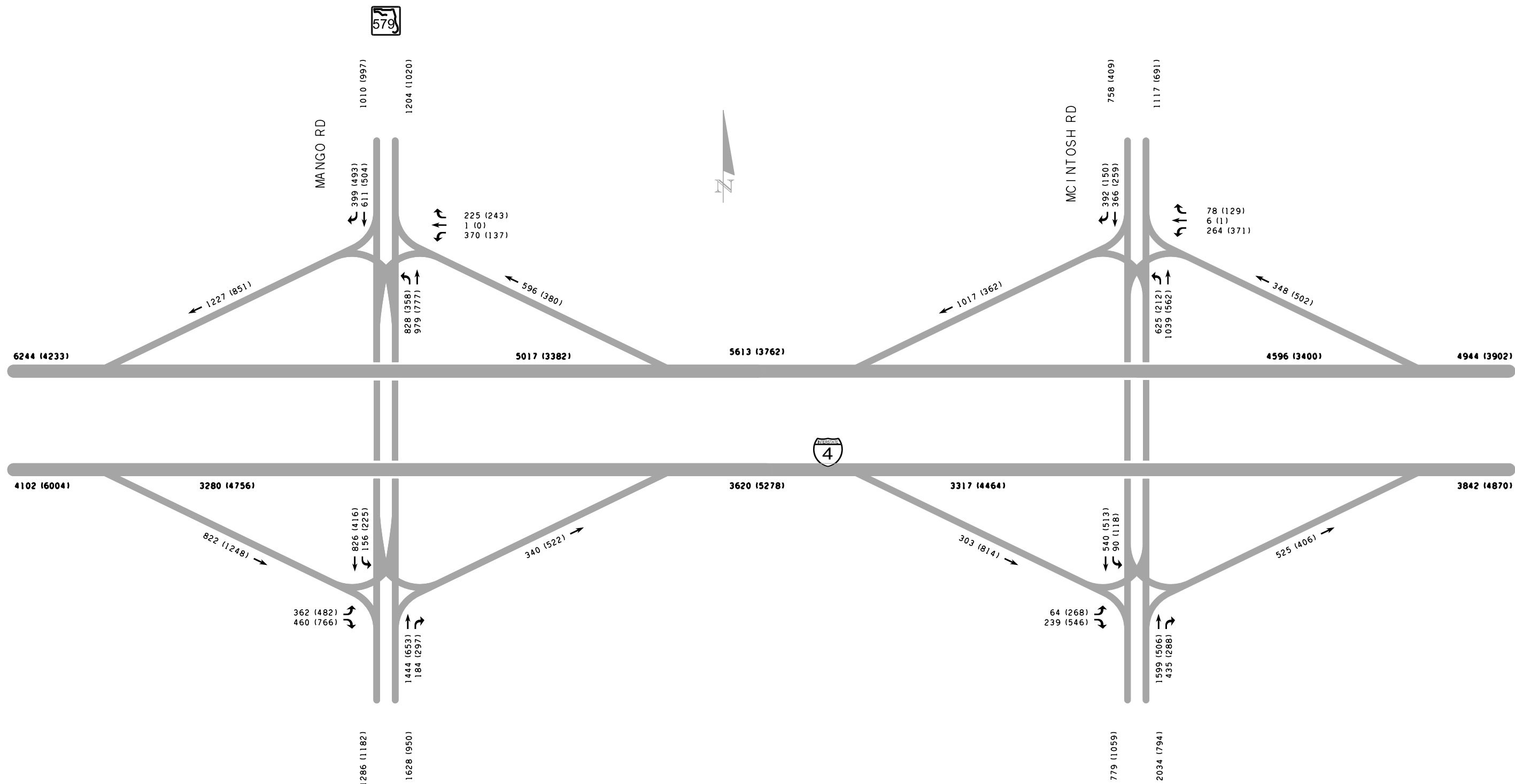


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and
 Ramp Intersection Turning Movement Volumes
 for Existing (2012)

Figure 2-4



XXX (XXX) 2012 Existing AM Volume (PM Volume)

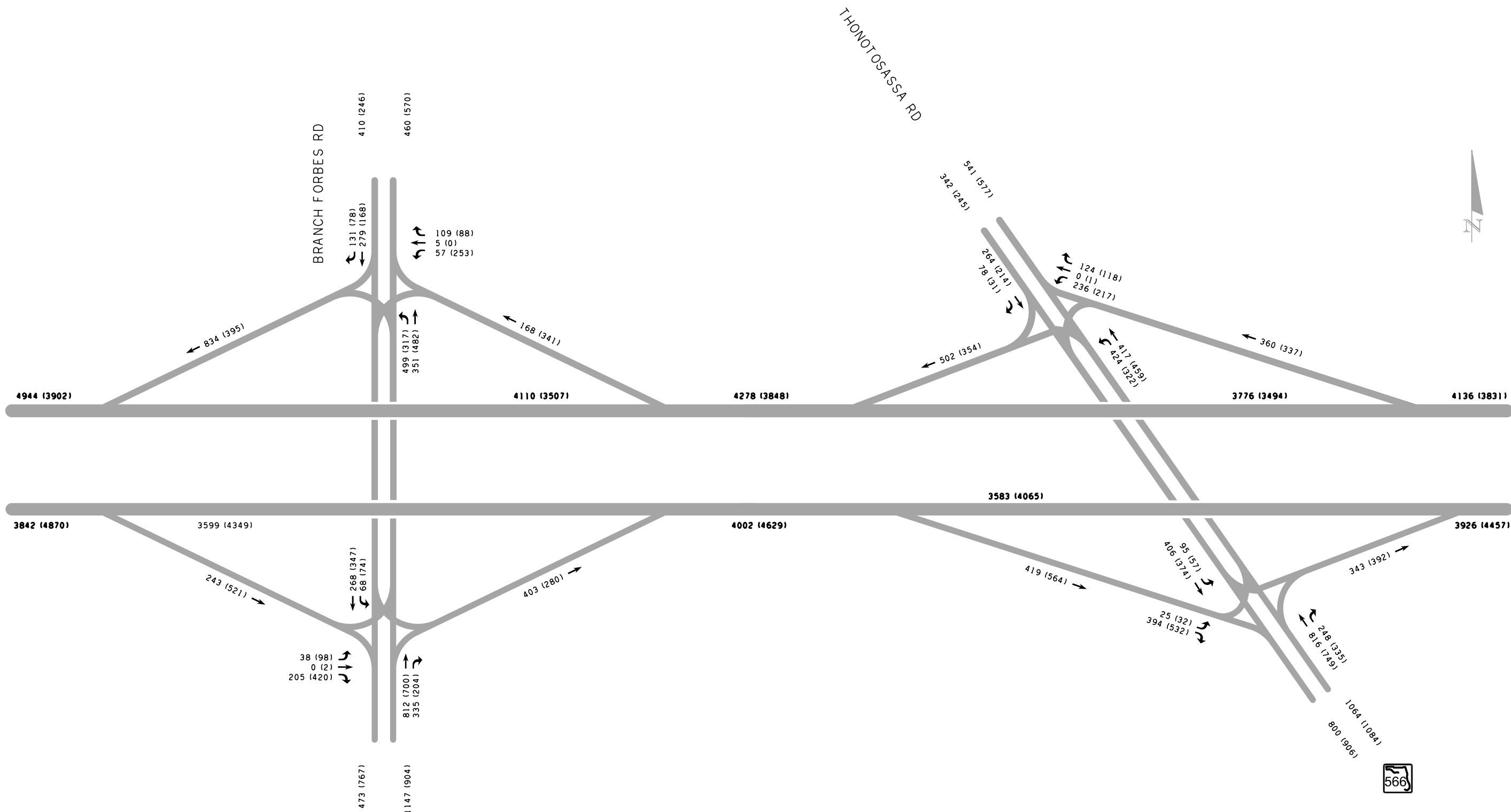


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for Existing (2012)

Figure 2-5



XXX (XXX) 2012 Existing AM Volume (PM Volume)

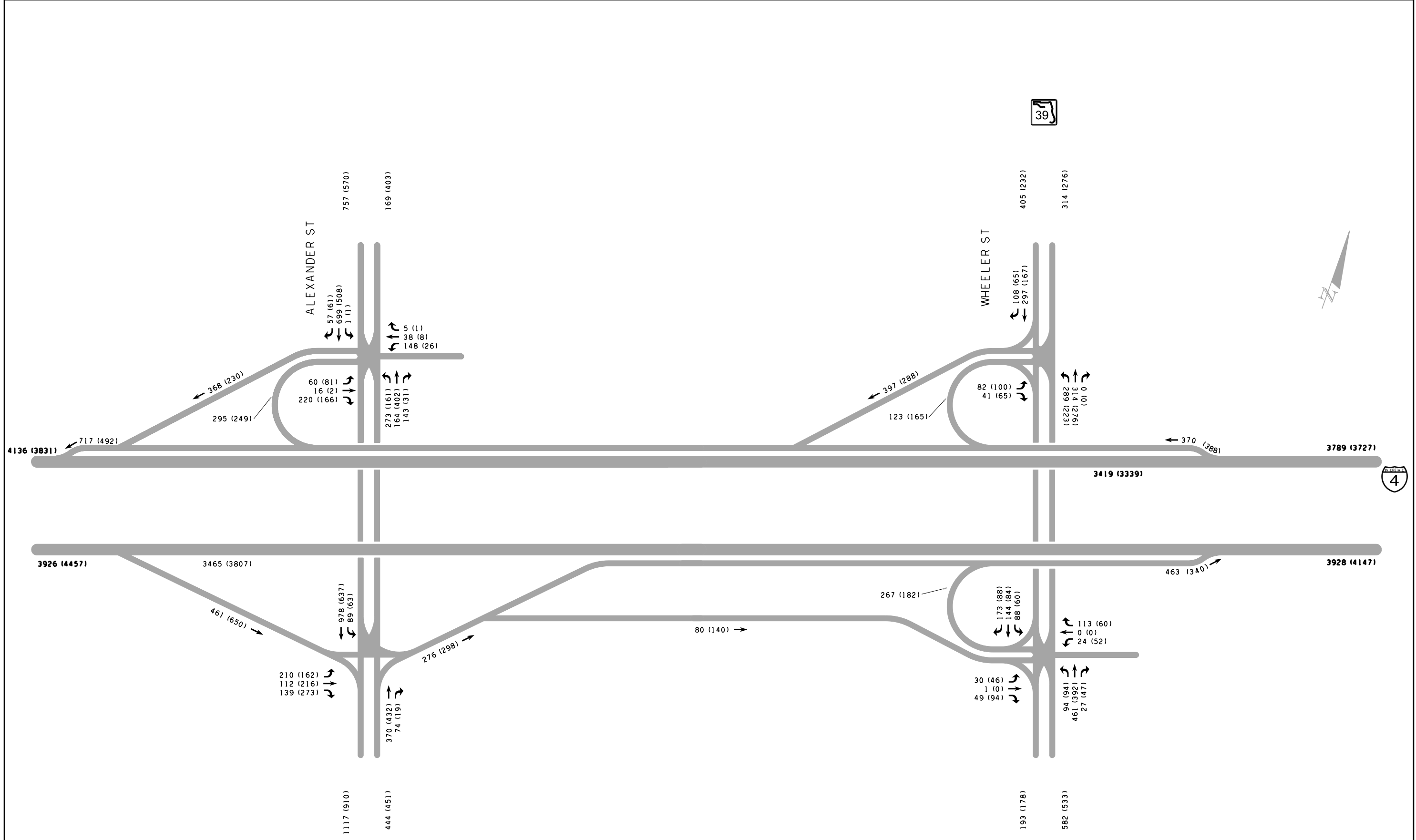


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for Existing (2012)

Figure 2-6



XXX (XXX) 2012 Existing AM Volume (PM Volume)

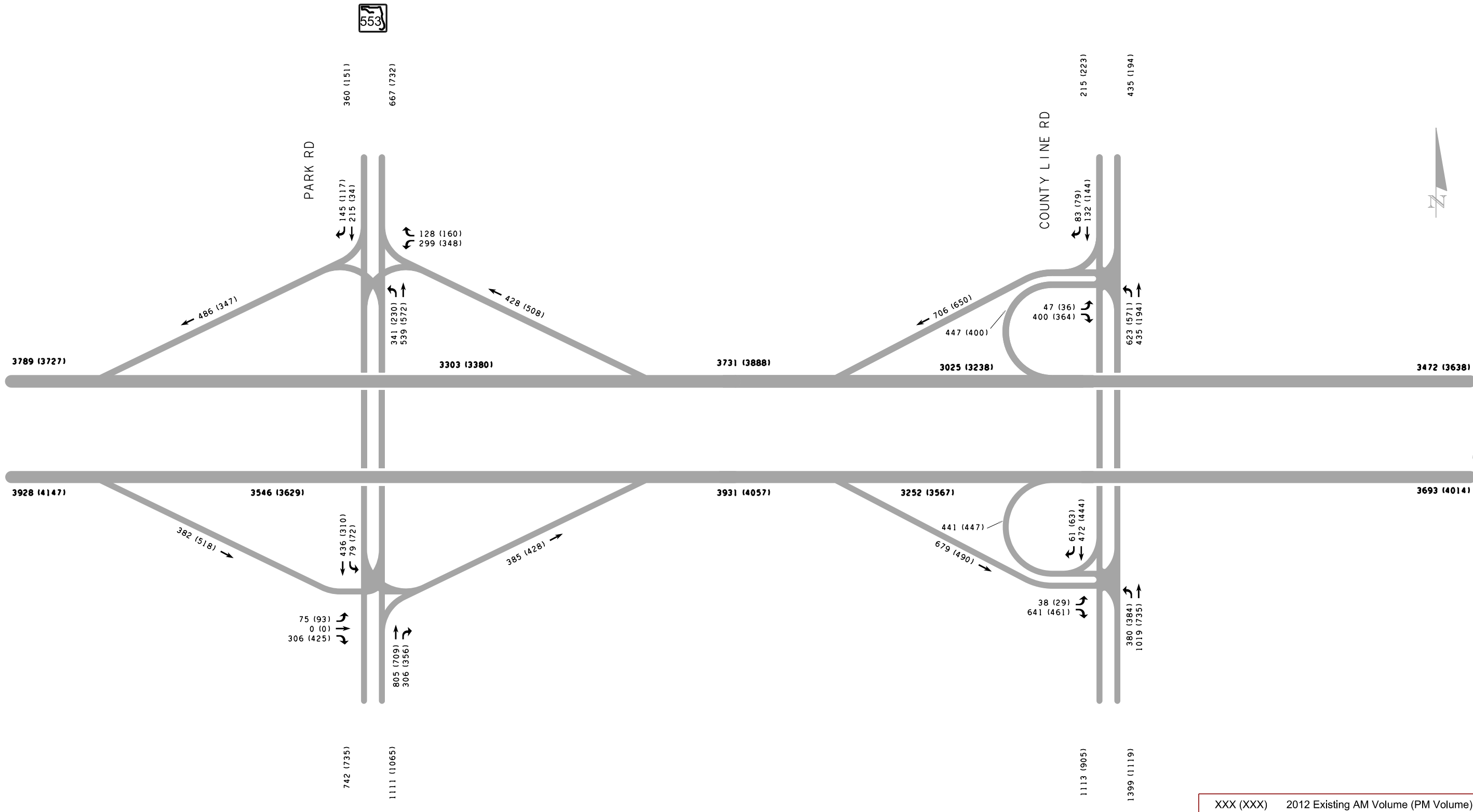


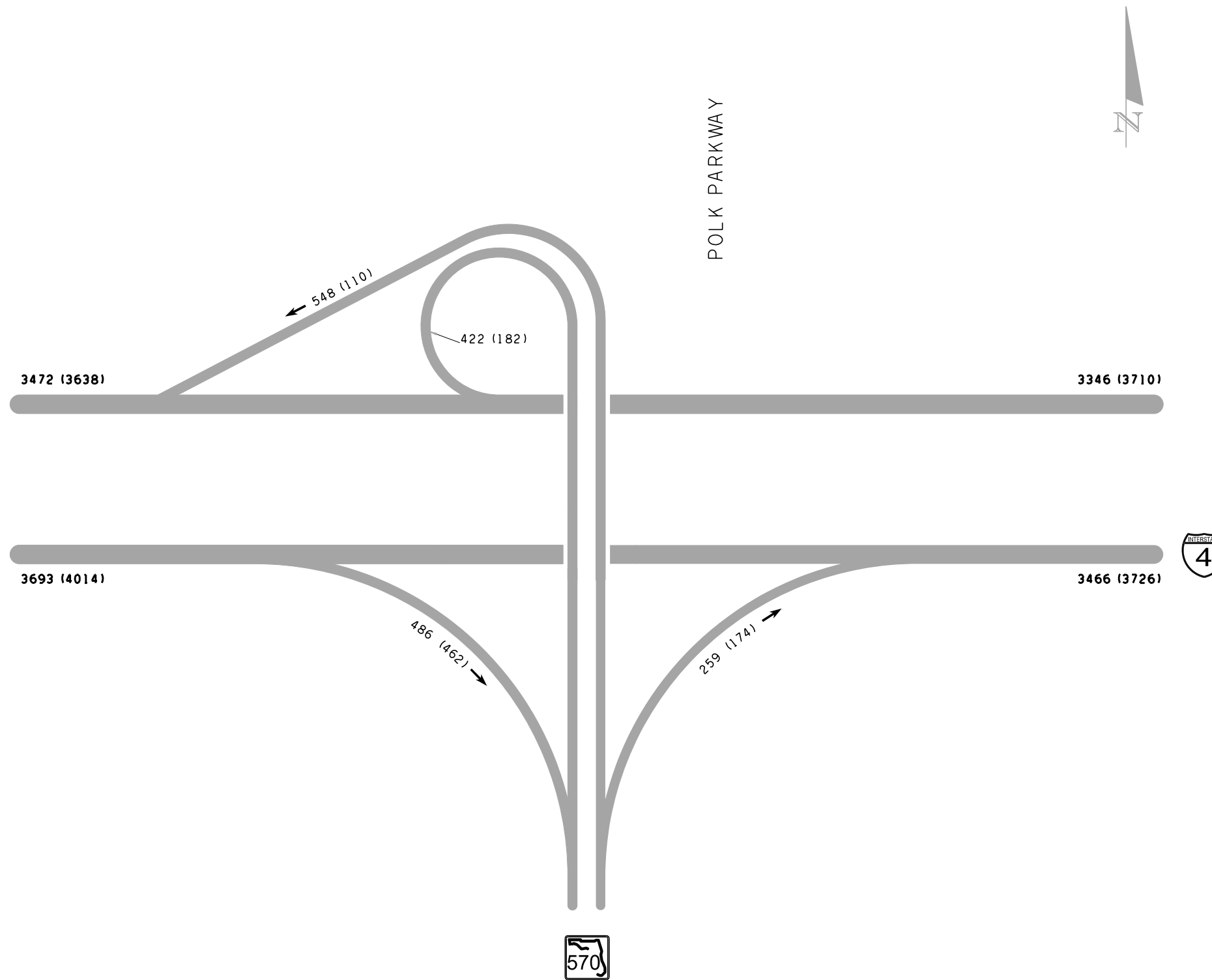
Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for Existing (2012)

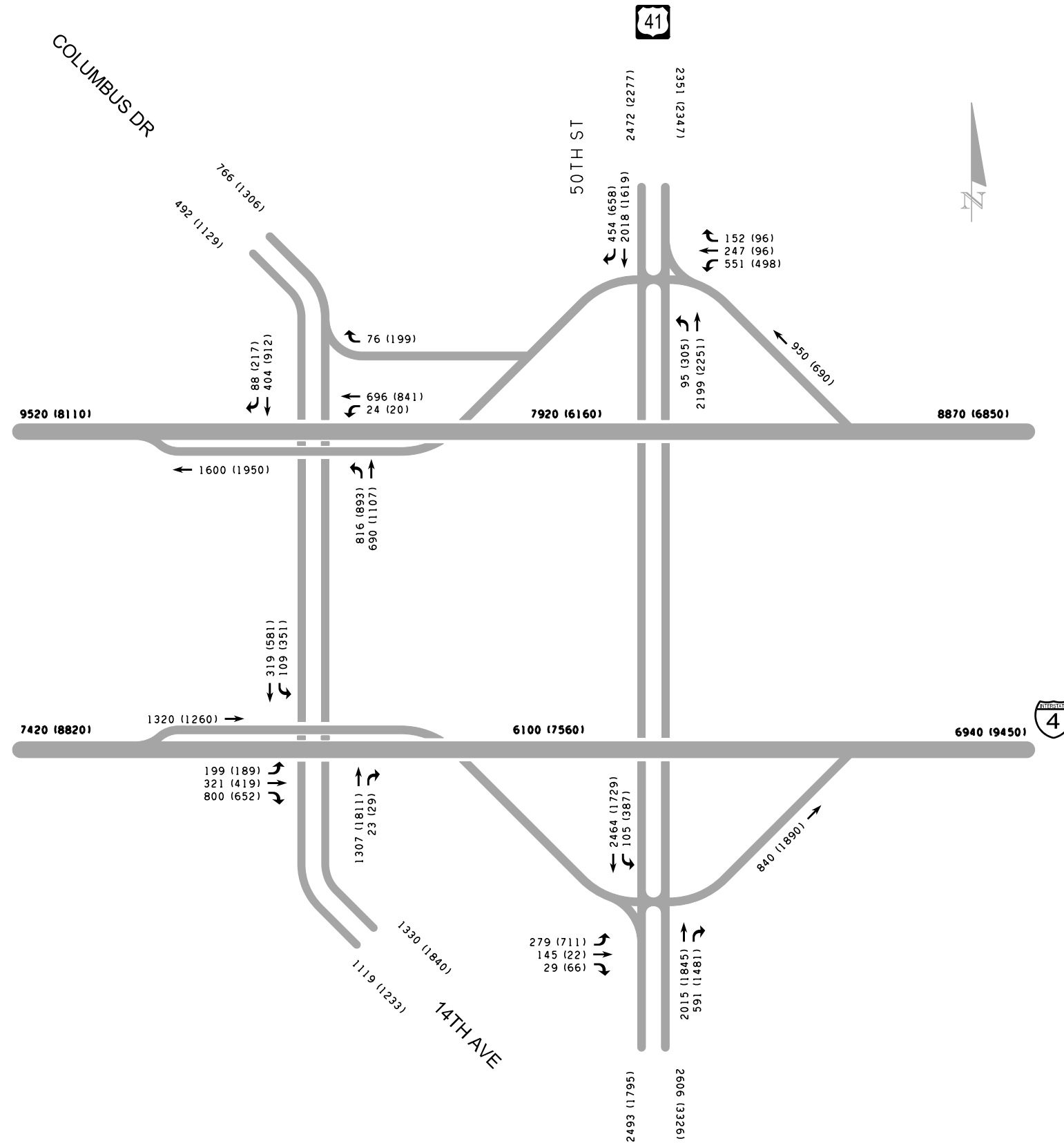
Figure 2-7

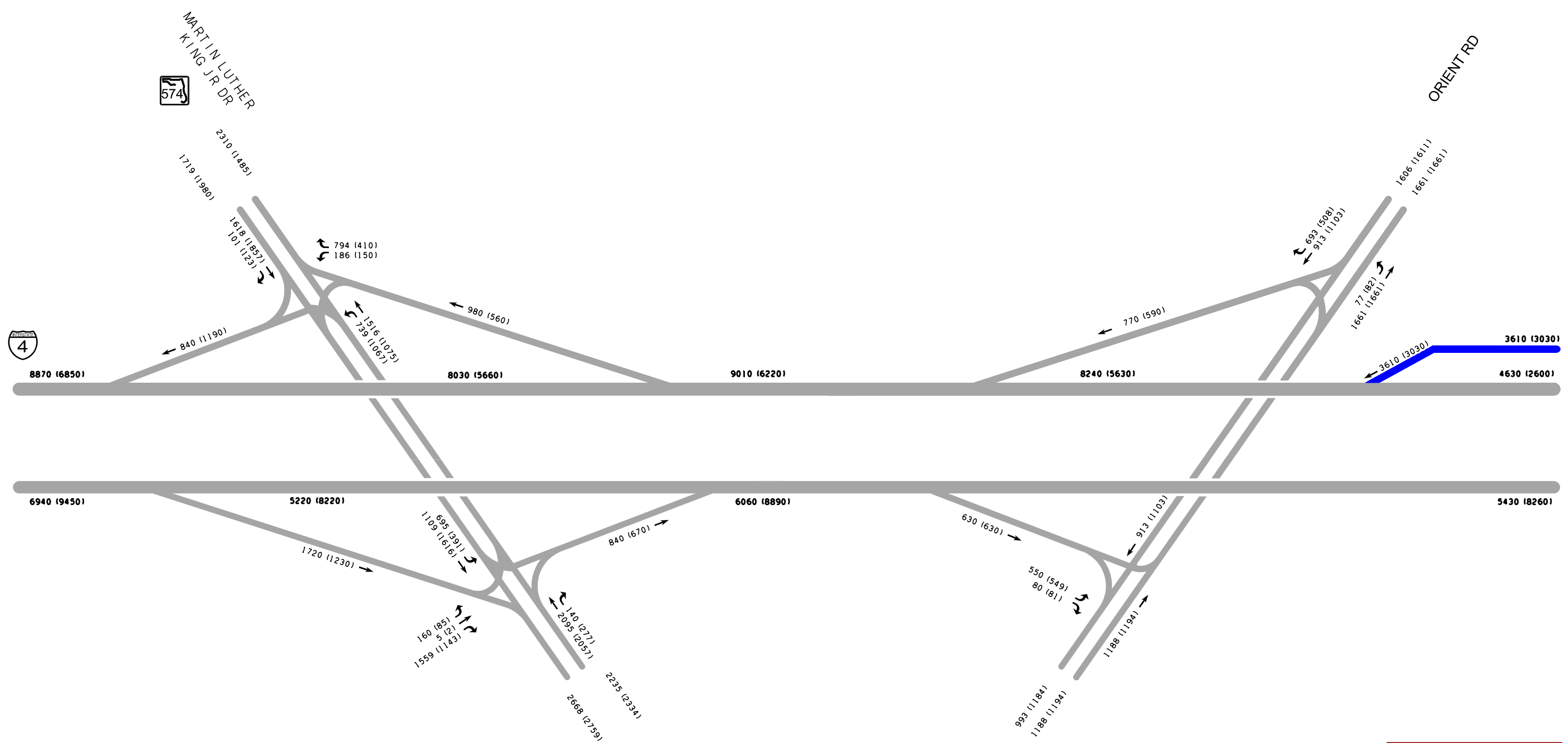


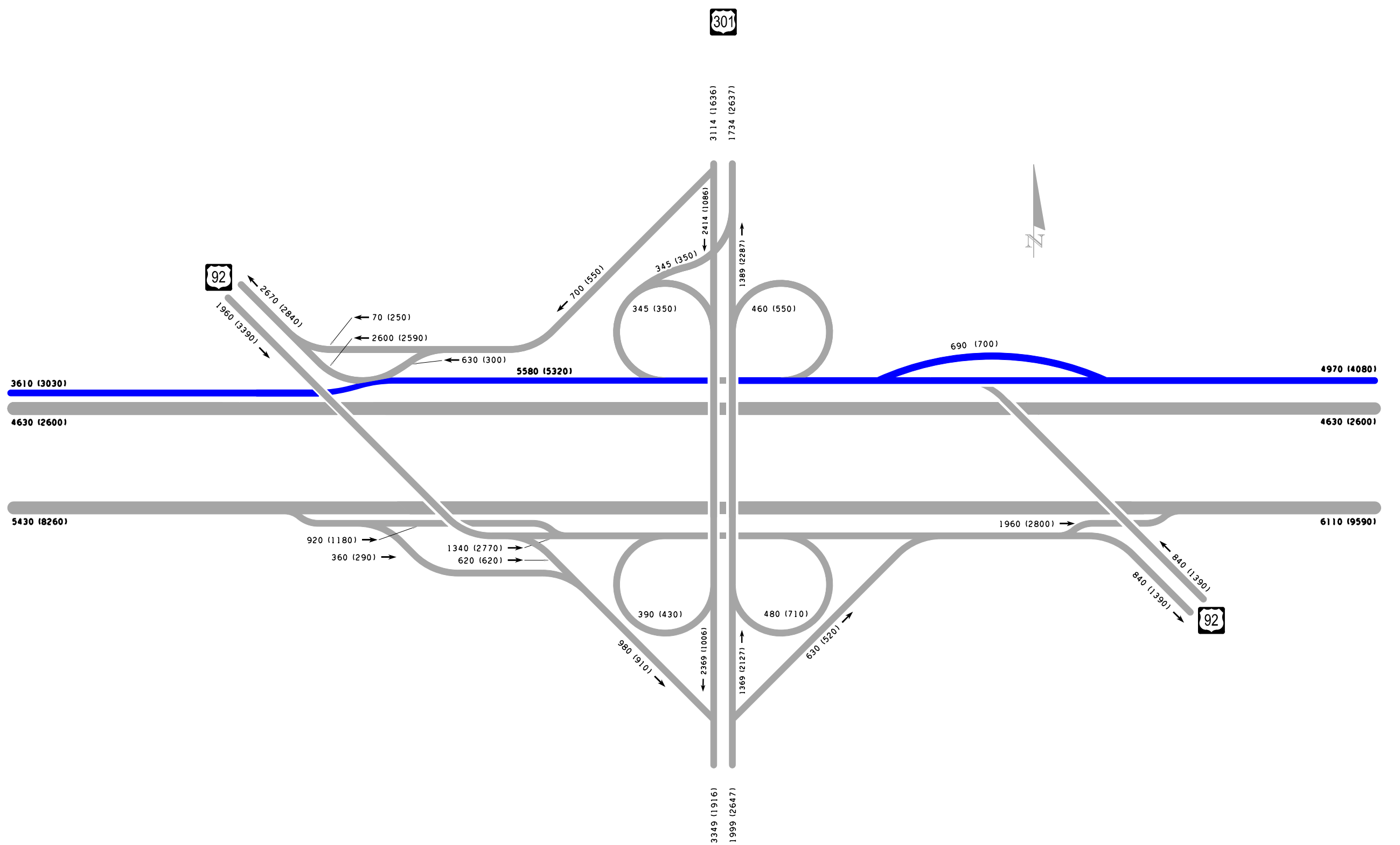


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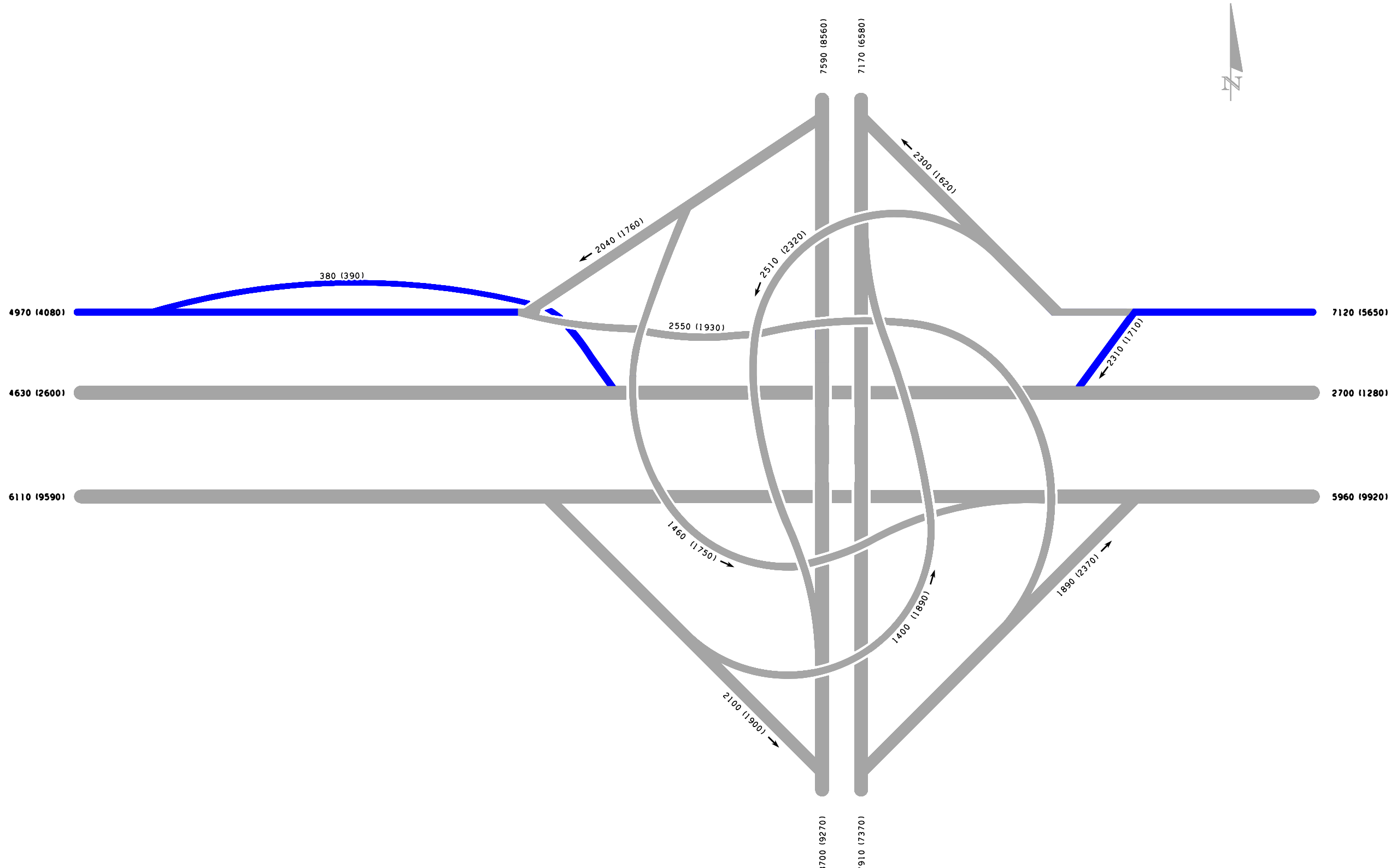


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 No Build

Figure 3-30



XXX (XXX) 2040 NB AM Volume (PM Volume)
 ——— 2040 NB CD

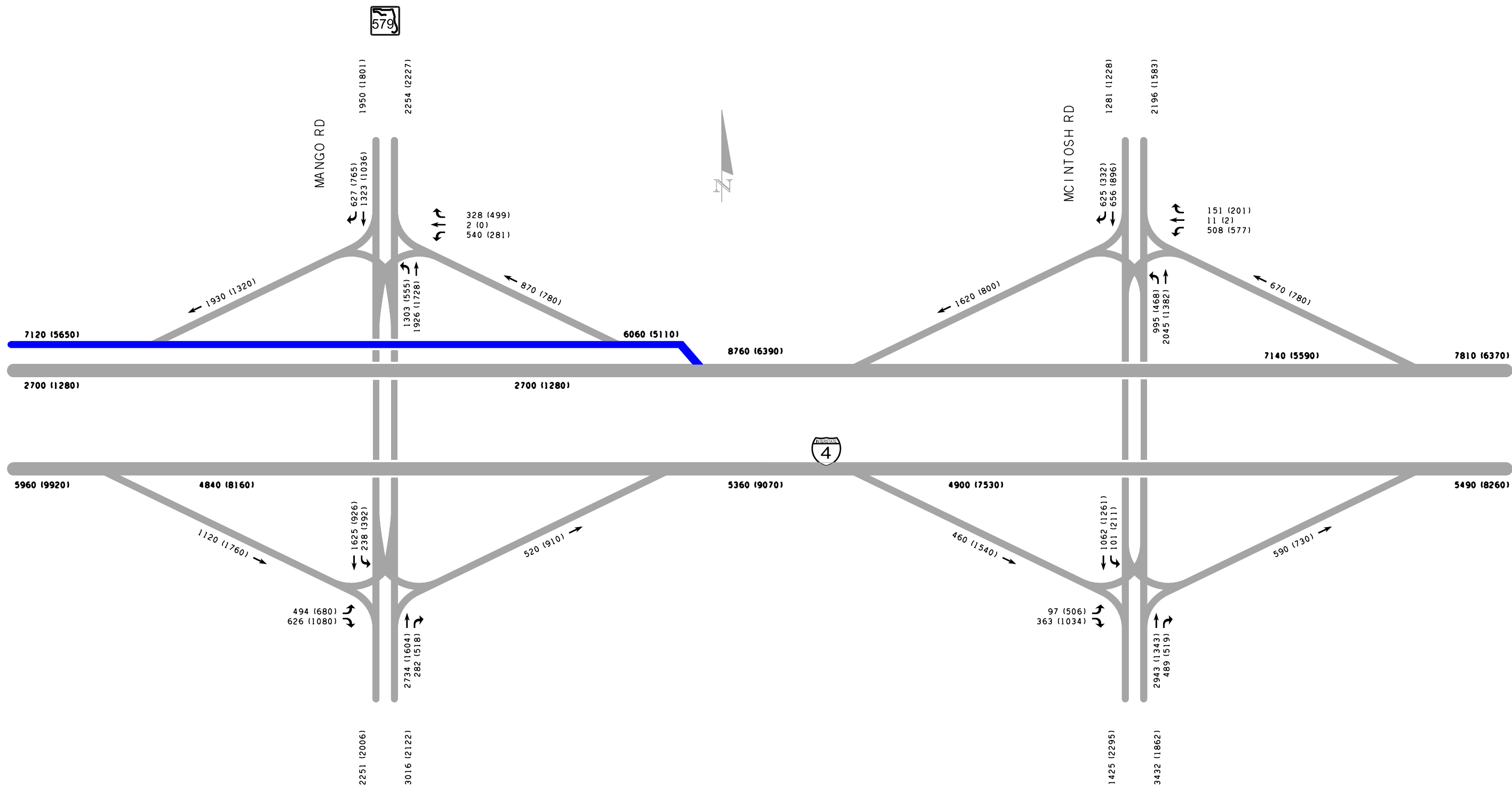


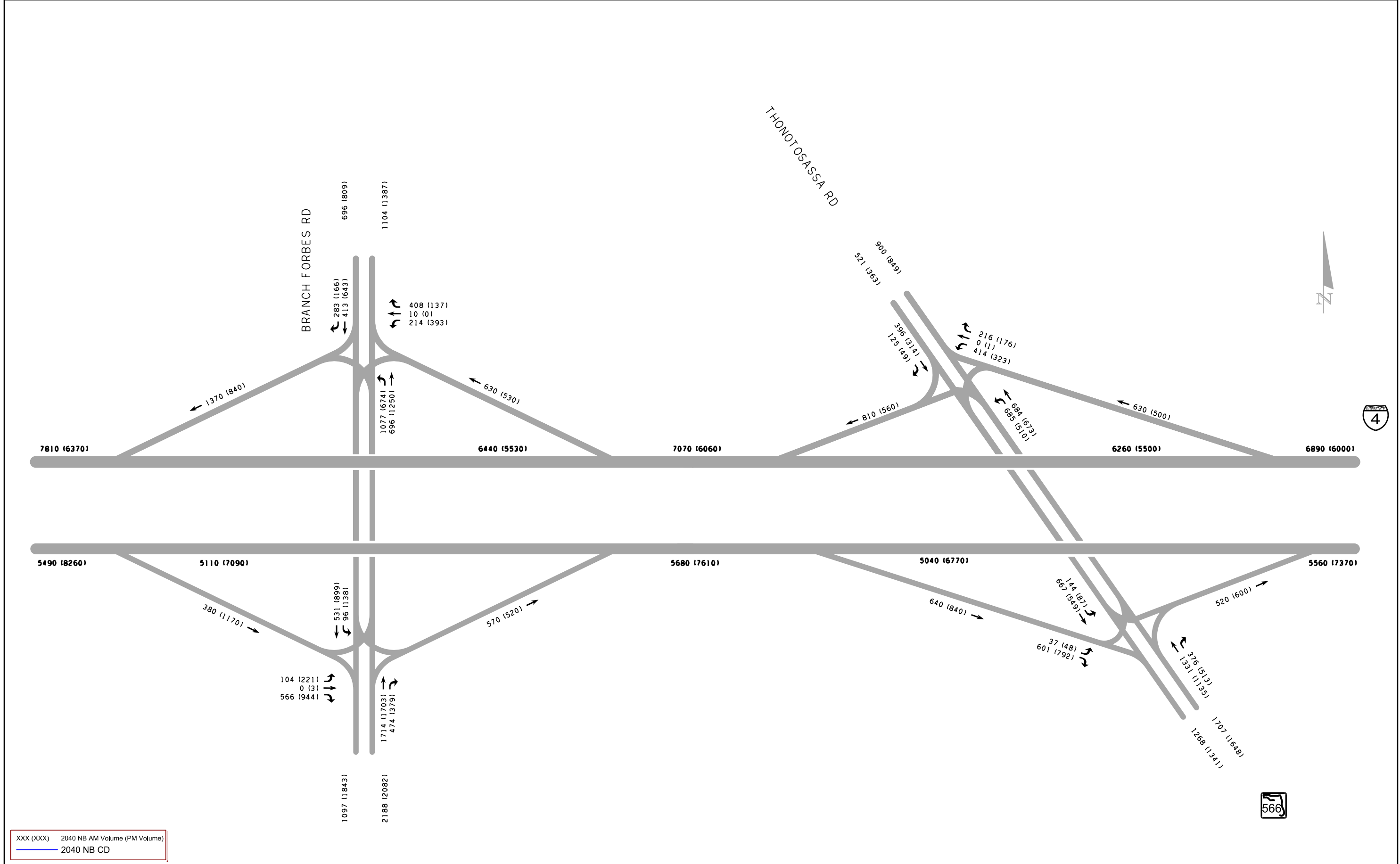
Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and
 Ramp Intersection Turning Movement Volumes
 for 2040 No Build

Figure 3-31



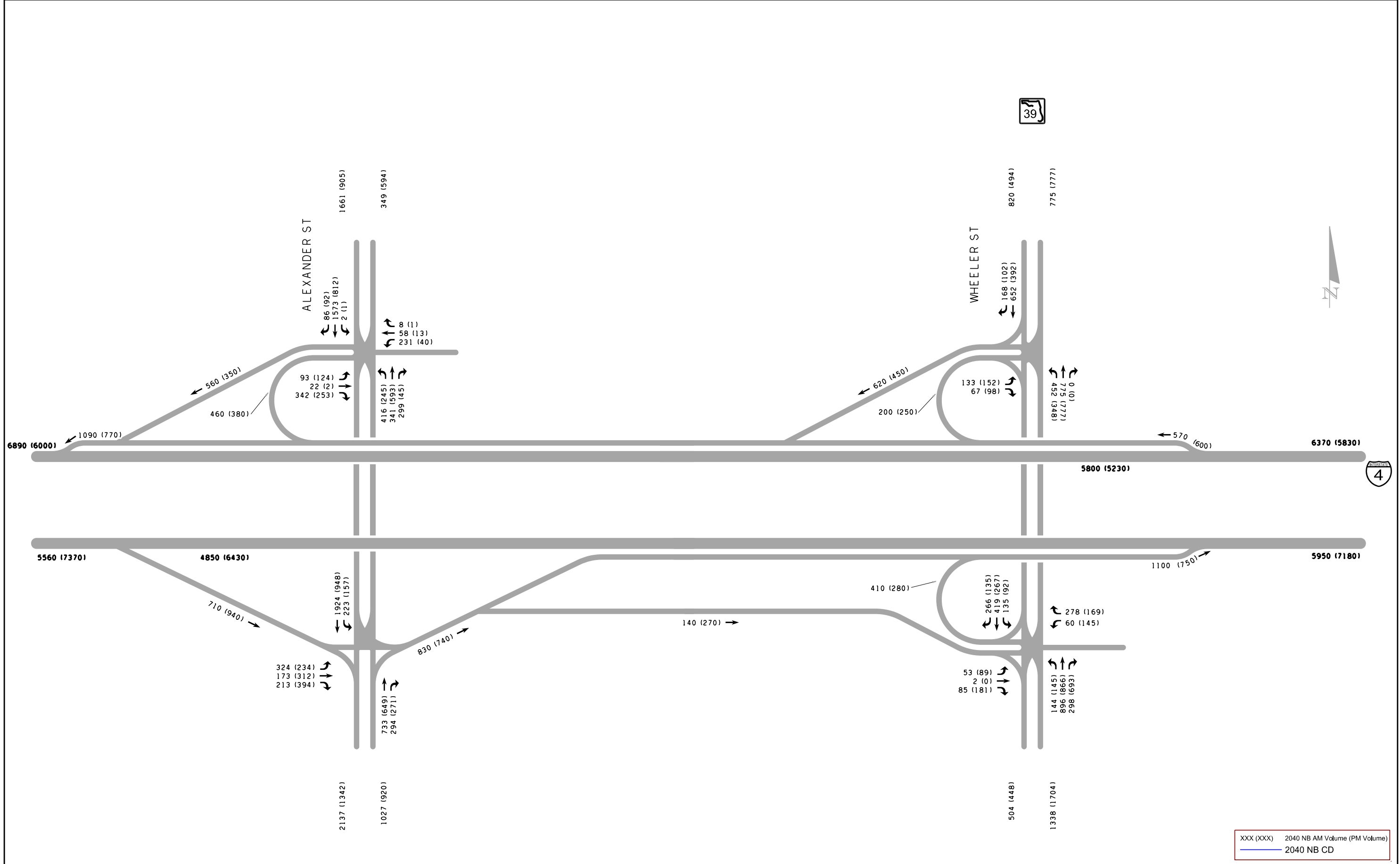


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and
 Ramp Intersection Turning Movement Volumes
 for 2040 No Build

Figure 3-33

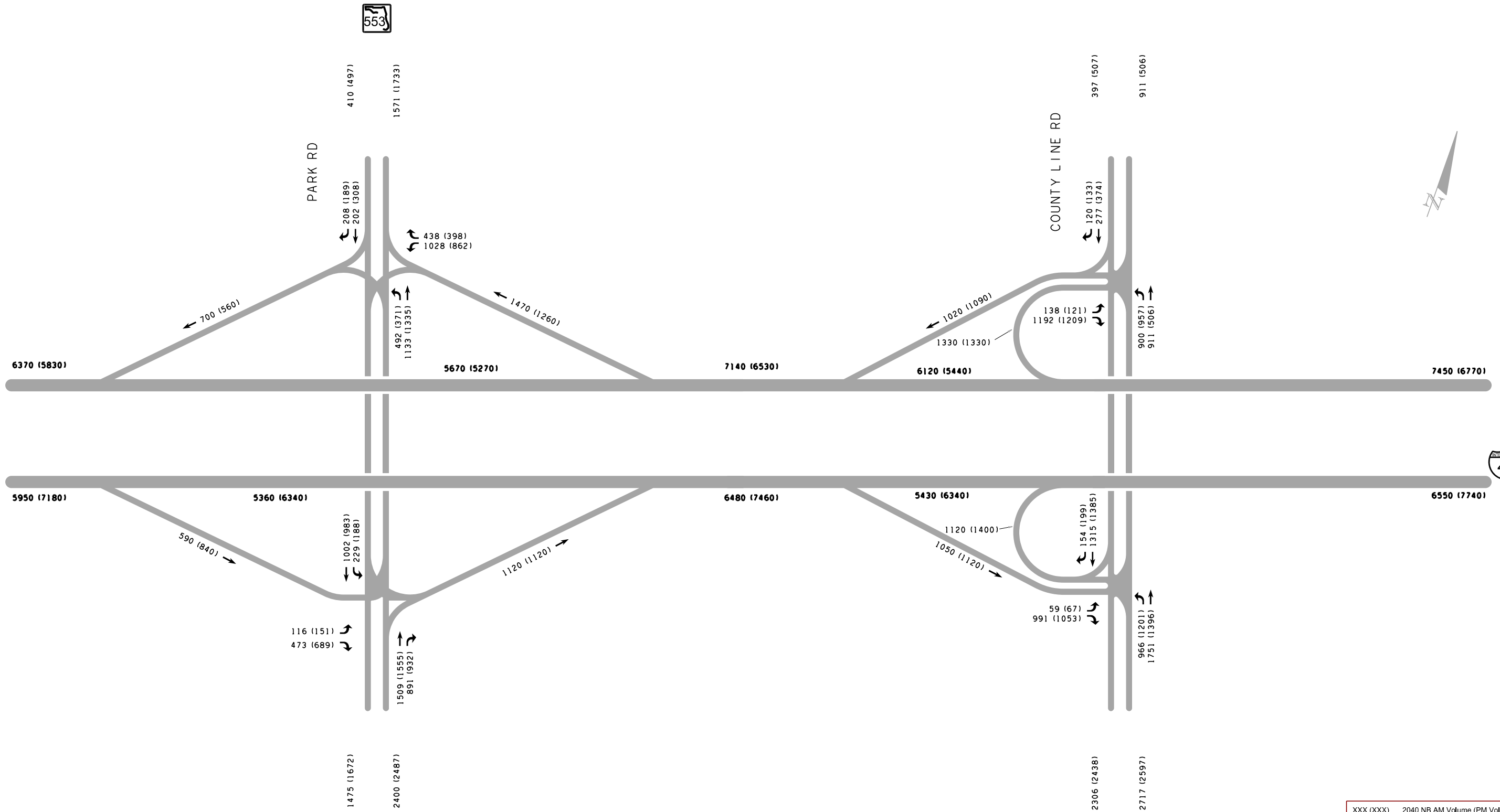


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 No Build

Figure 3-34



XXX (XXX) 2040 NB AM Volume (PM Volume)
 ——— 2040 NB CD

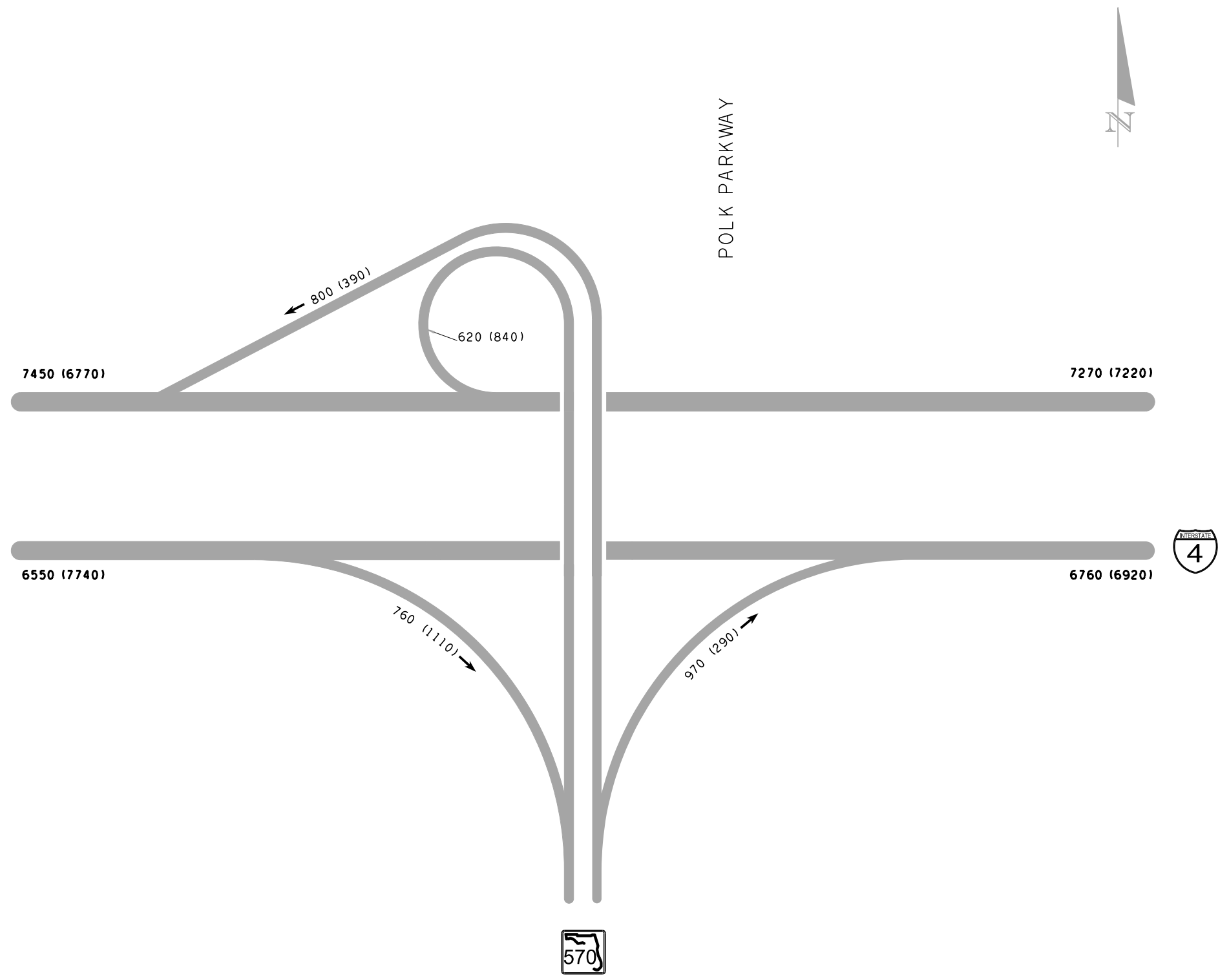


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
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 Hillsborough County



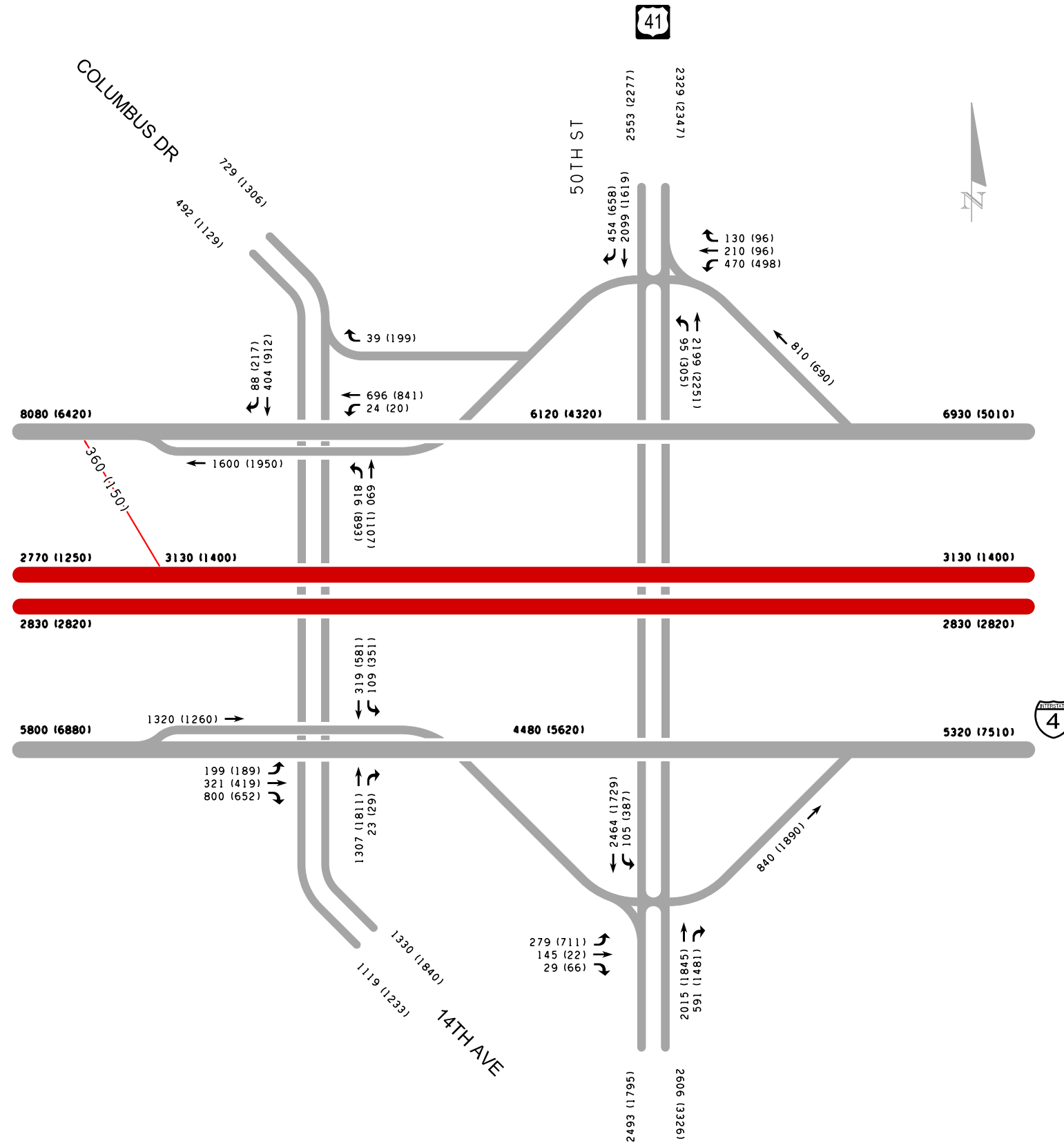
I-4 Mainline and Ramps Directional Design Hour Volumes and
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 for 2040 No Build

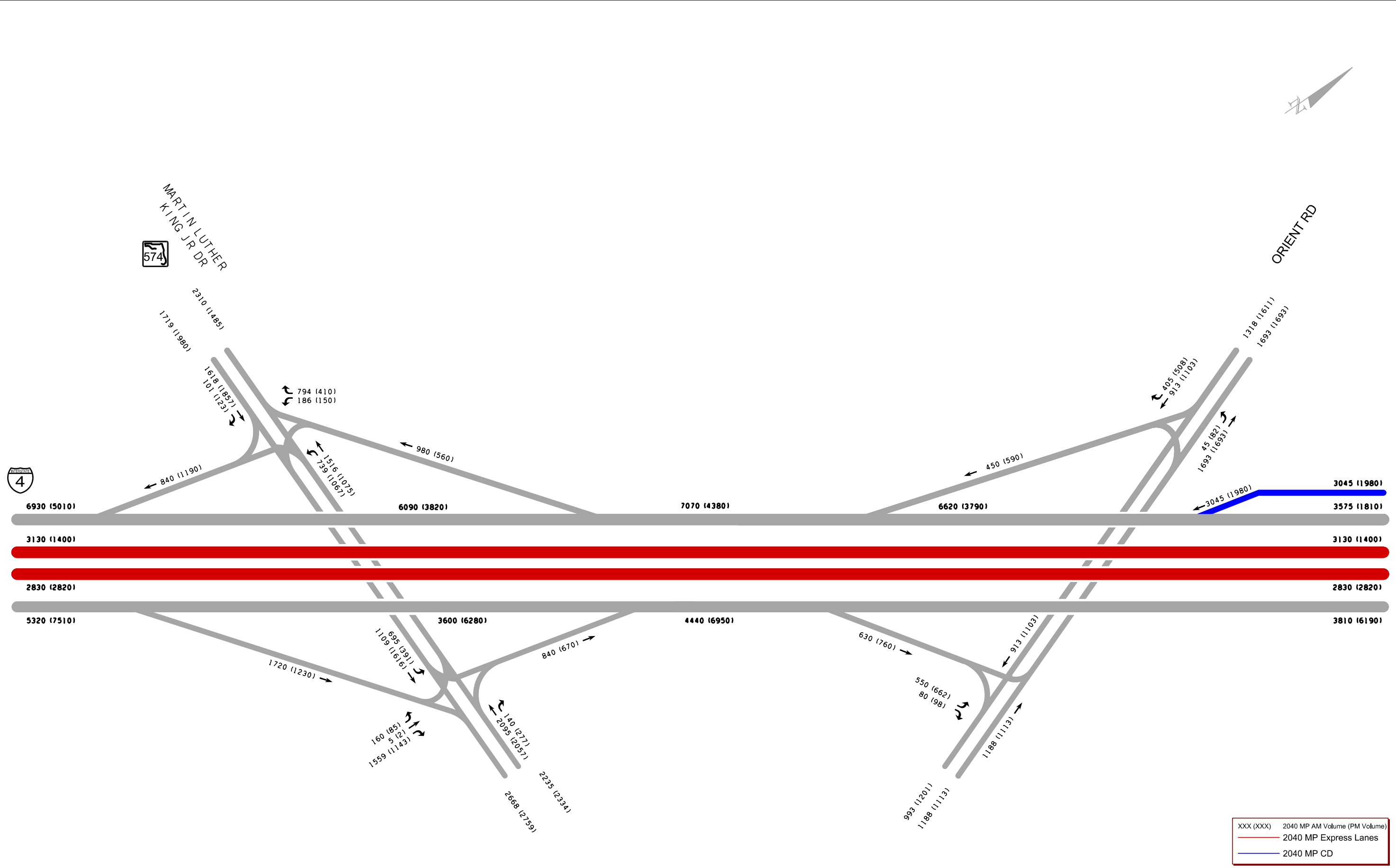
Figure 3-35

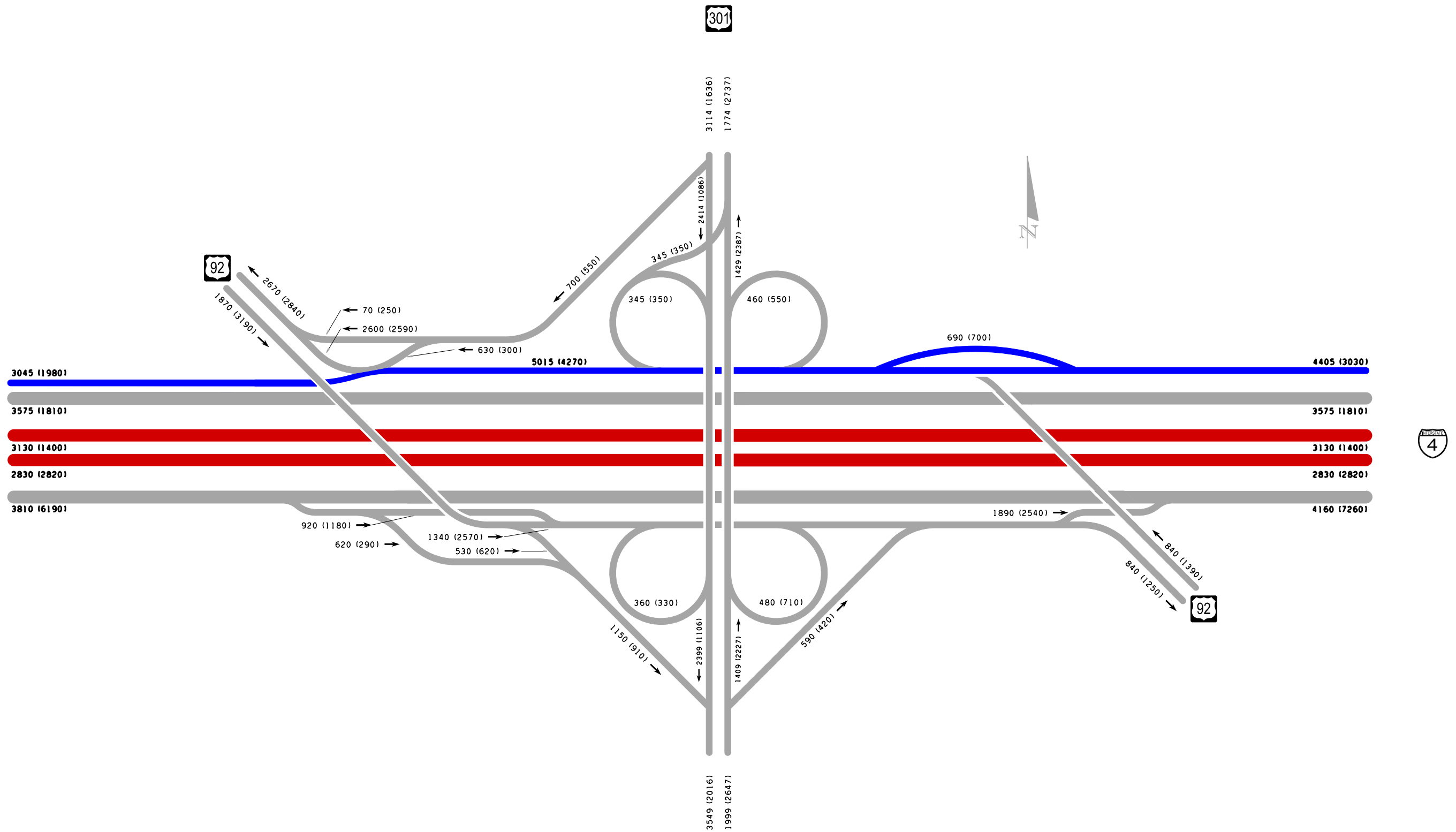


XXX (XXX) 2040 NB AM Volume (PM Volume)
 — 2040 NB CD









XXX (XXX) 2040 MP AM Volume (PM Volume)
 — 2040 MP Express Lanes
 — 2040 MP CD

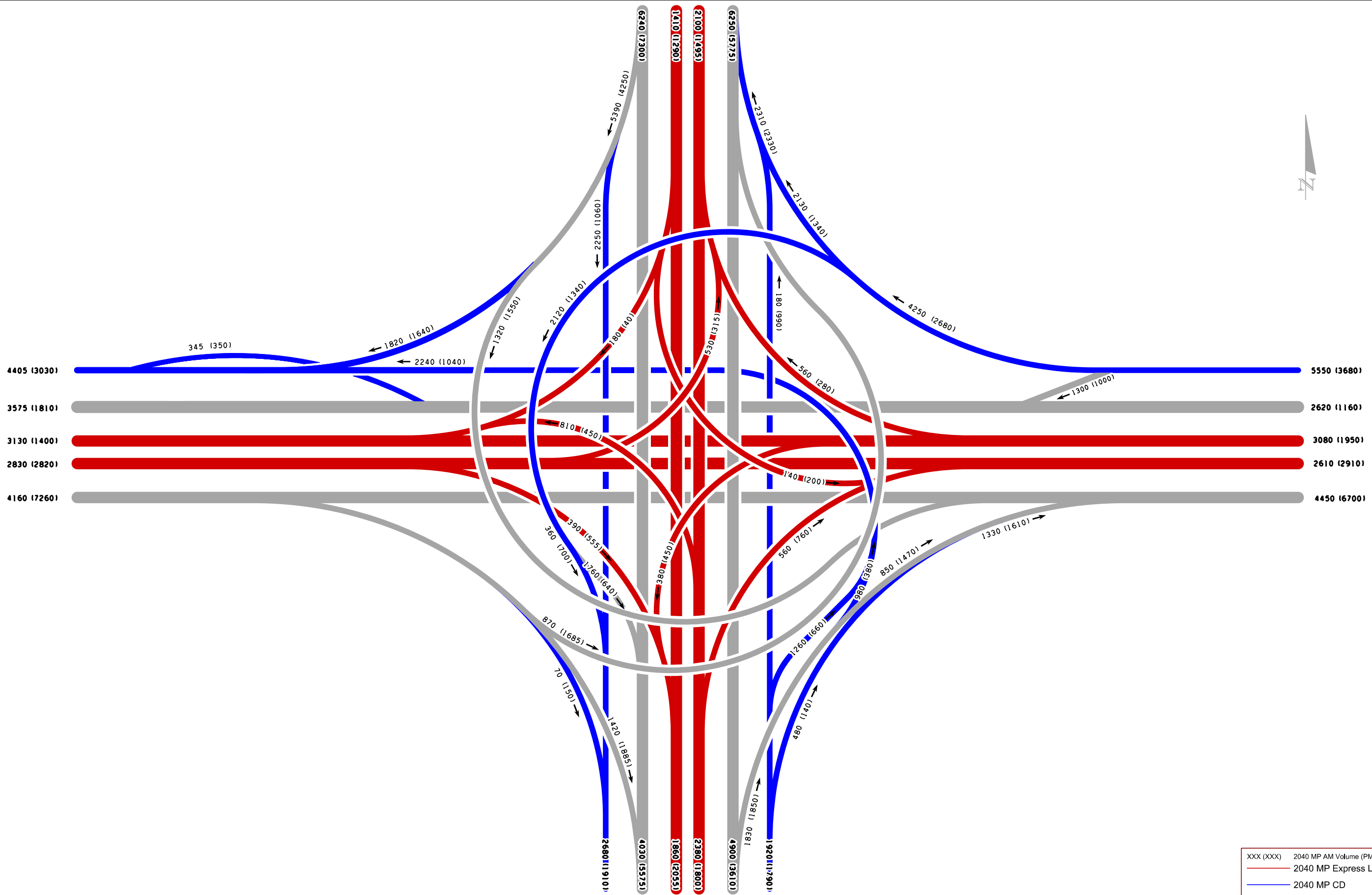


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 Master Plan

Figure 3-21

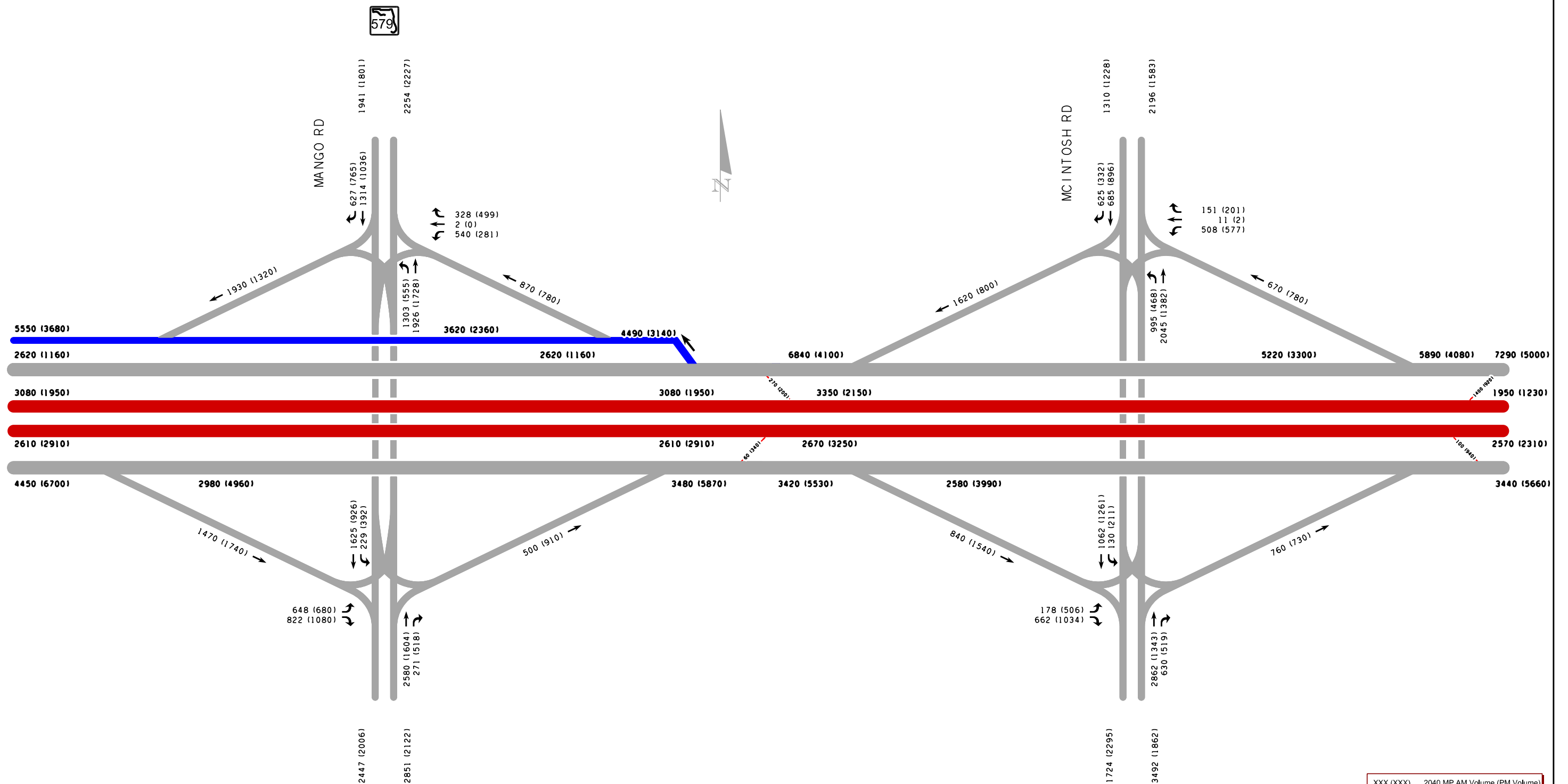


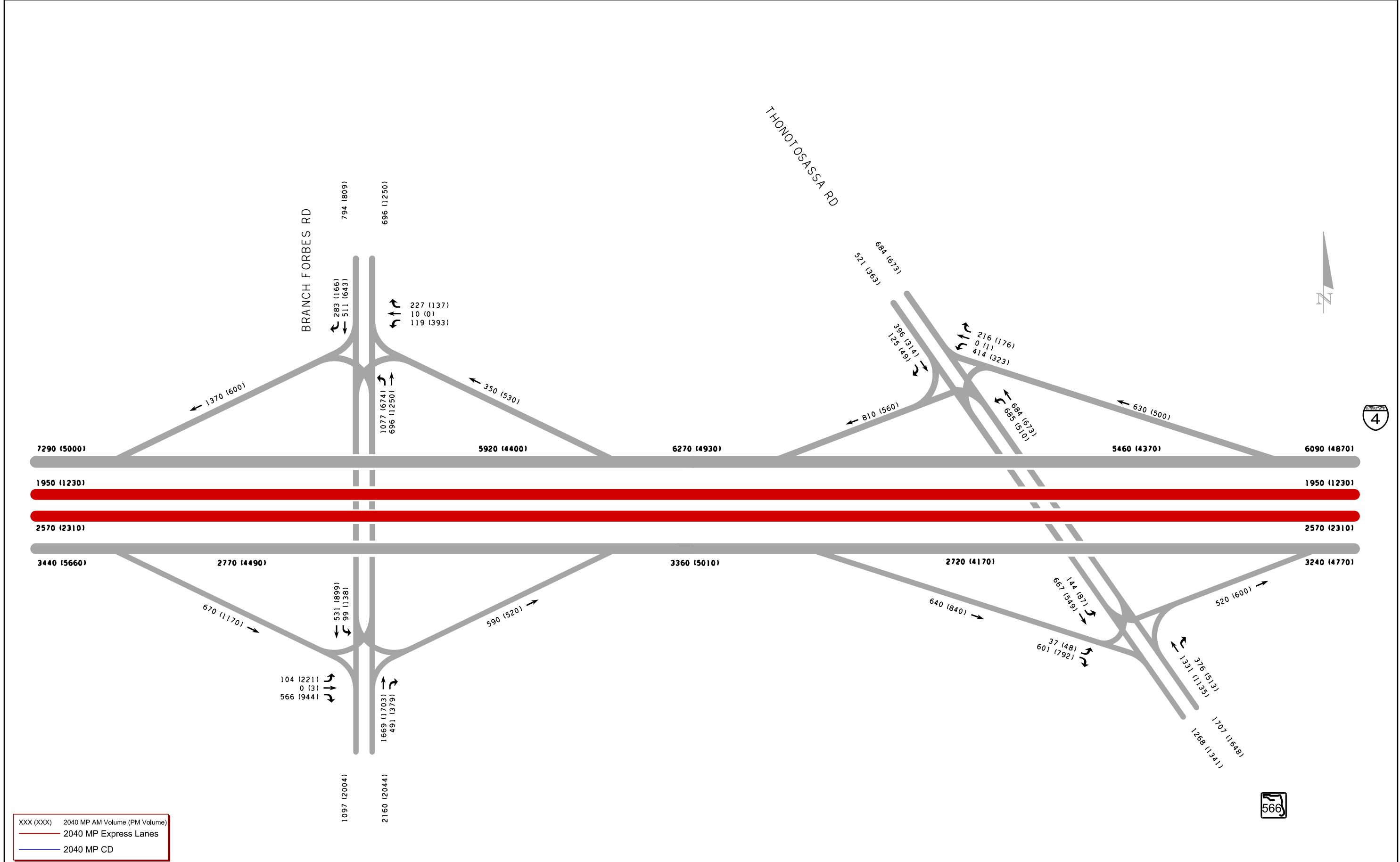
Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 Master Plan

Figure 3-22



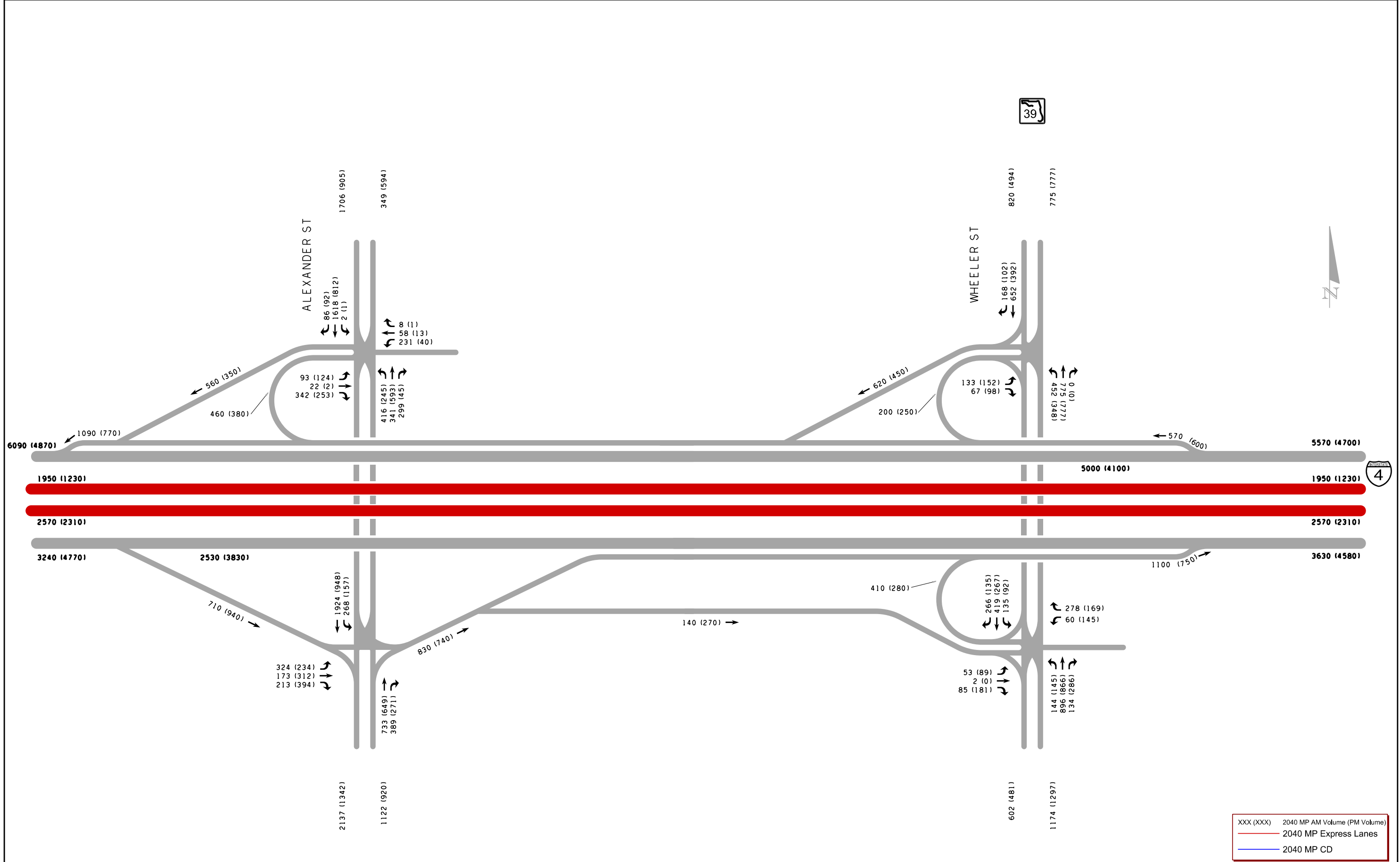


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 Master Plan

Figure 3-24

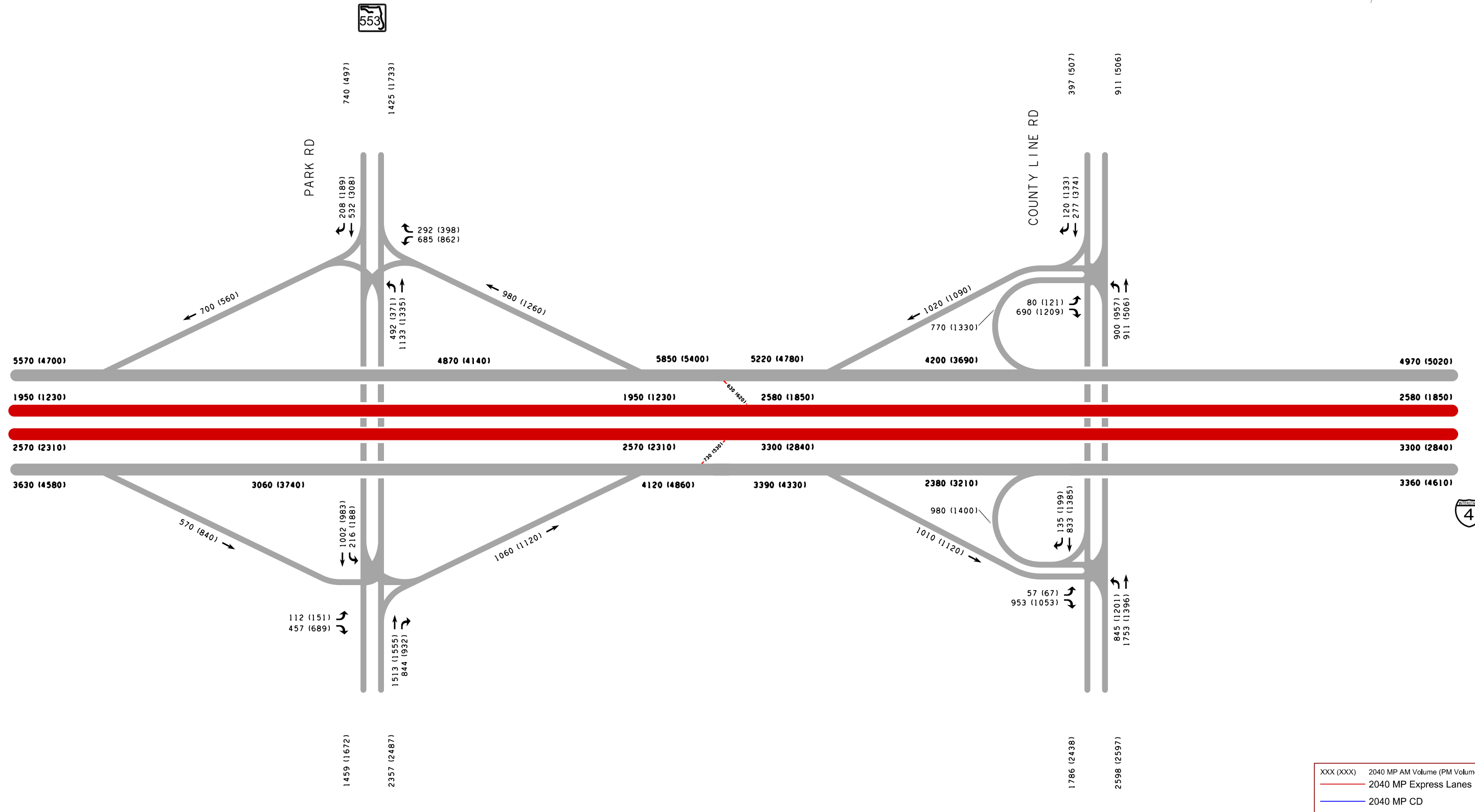


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 Master Plan

Figure 3-25

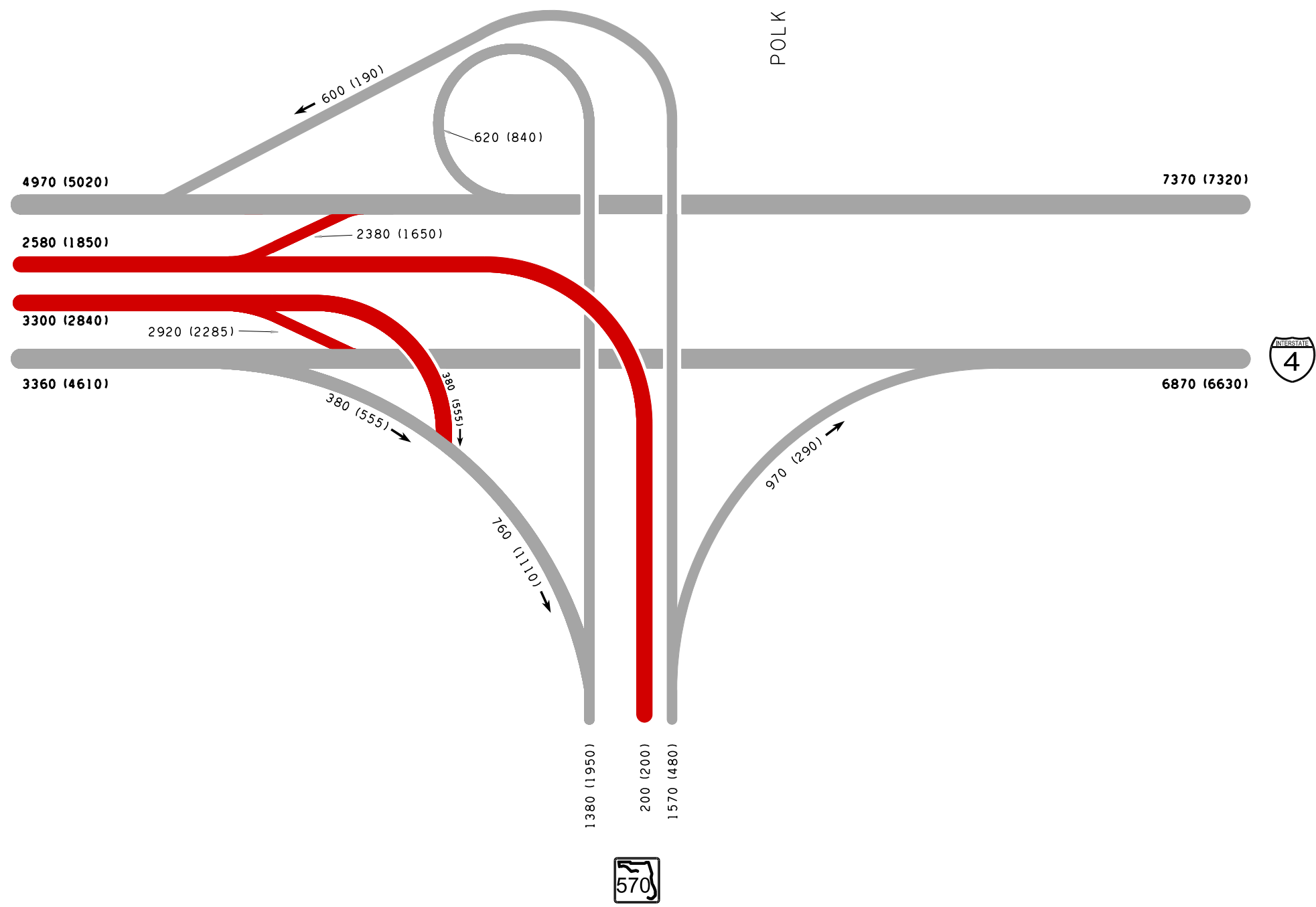


Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County



I-4 Mainline and Ramps Directional Design Hour Volumes and Ramp Intersection Turning Movement Volumes for 2040 Master Plan

Figure 3-26



XXX (XXX) 2040 MP AM Volume (PM Volume)
 — 2040 MP Express Lanes
 — 2040 MP CD



Interstate 4 (I-4/SR 400) Corridor PD&E Study
 From 50th Street (US 41) to Polk Parkway (SR 570)
 WPI Segment No: 431746-1
 Hillsborough County

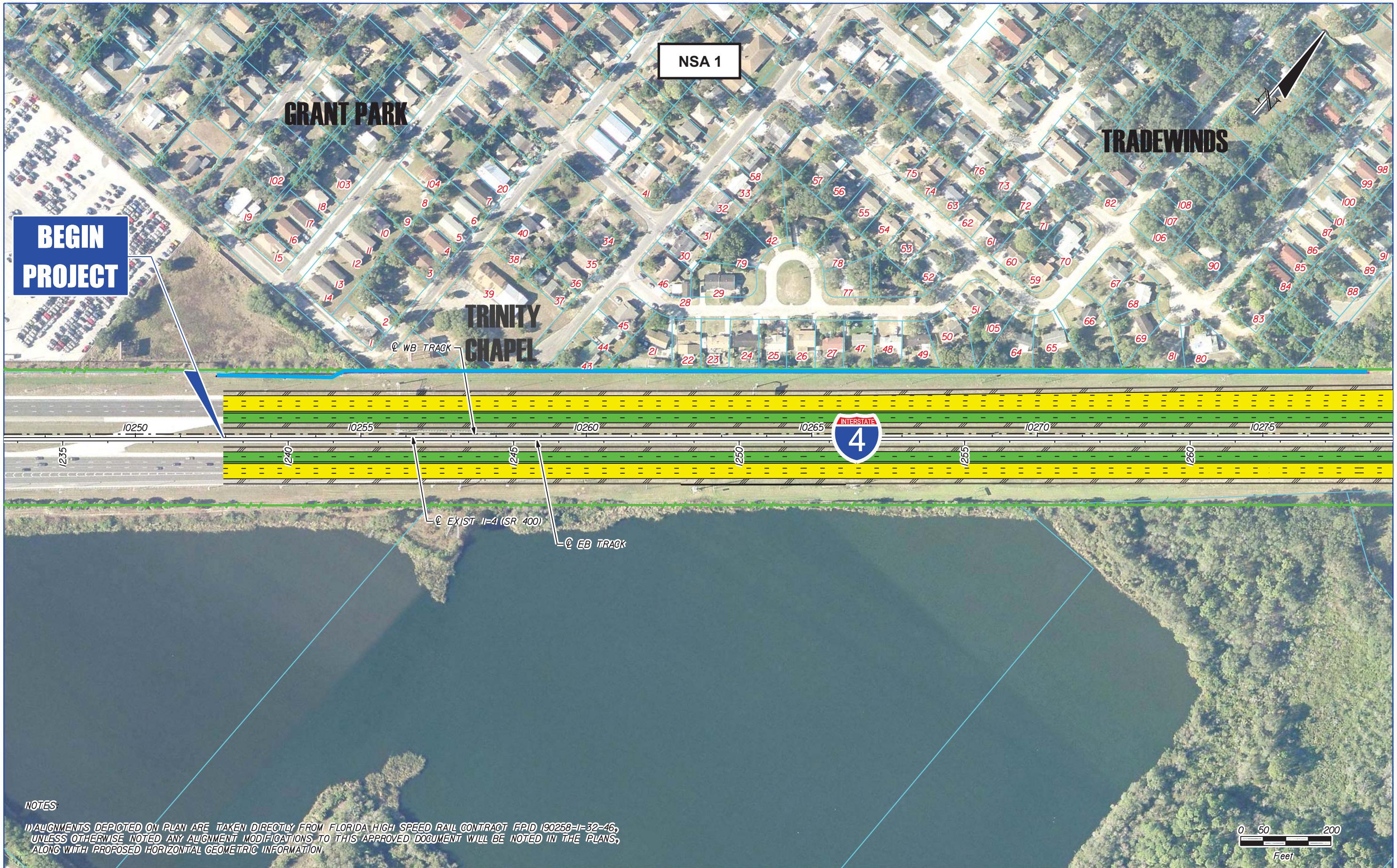


I-4 Mainline and Ramps Directional Design Hour Volumes and
 Ramp Intersection Turning Movement Volumes
 for 2040 Master Plan

Figure 3-27

APPENDIX B

Noise Sensitive Receptors



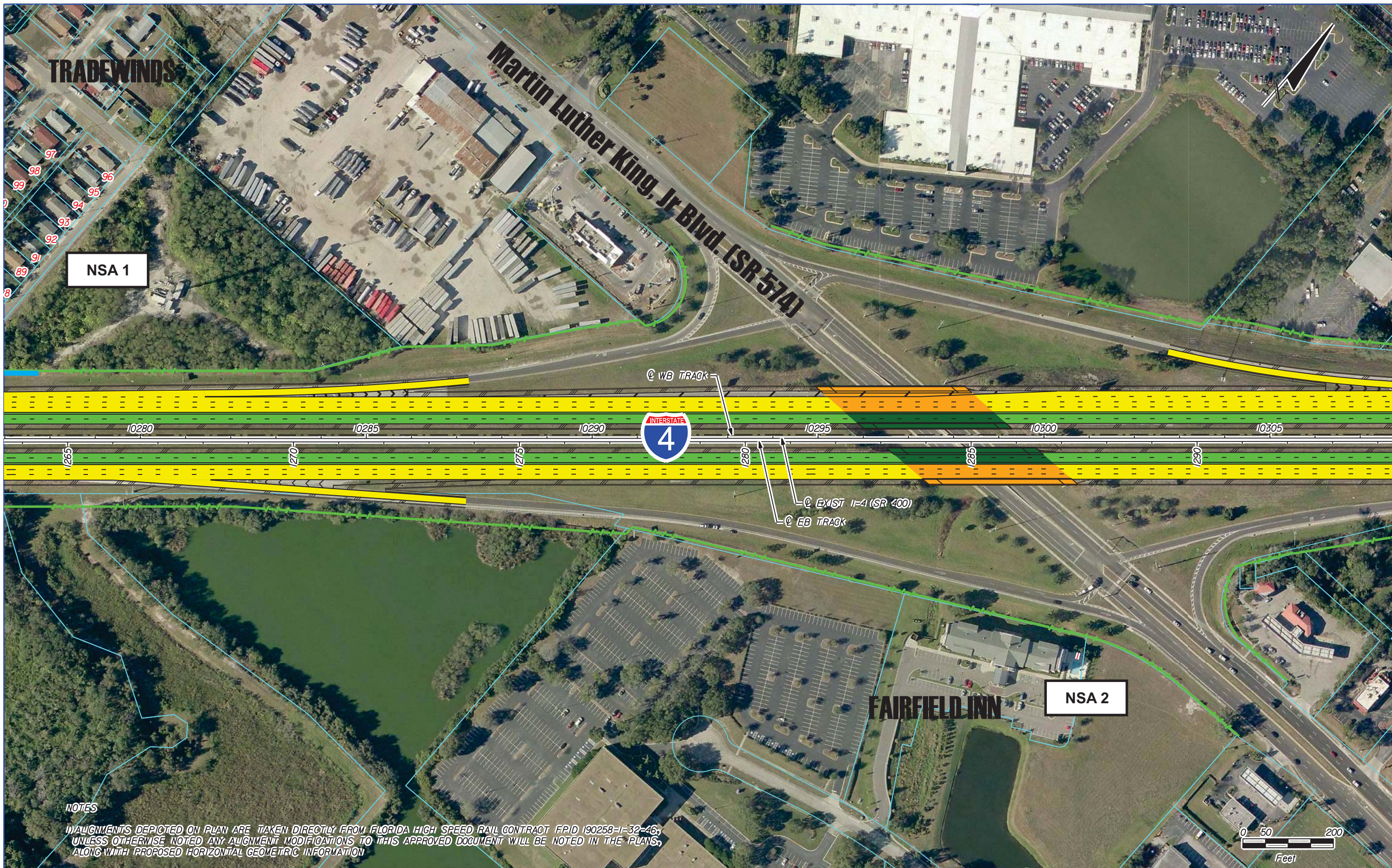
BEGIN PROJECT

NOTES

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| LEGEND: | | AERIAL FLOWN DATE: 2013 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 1 |
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| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | |



| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 2 |
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| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | EXIST. L/A R/W |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

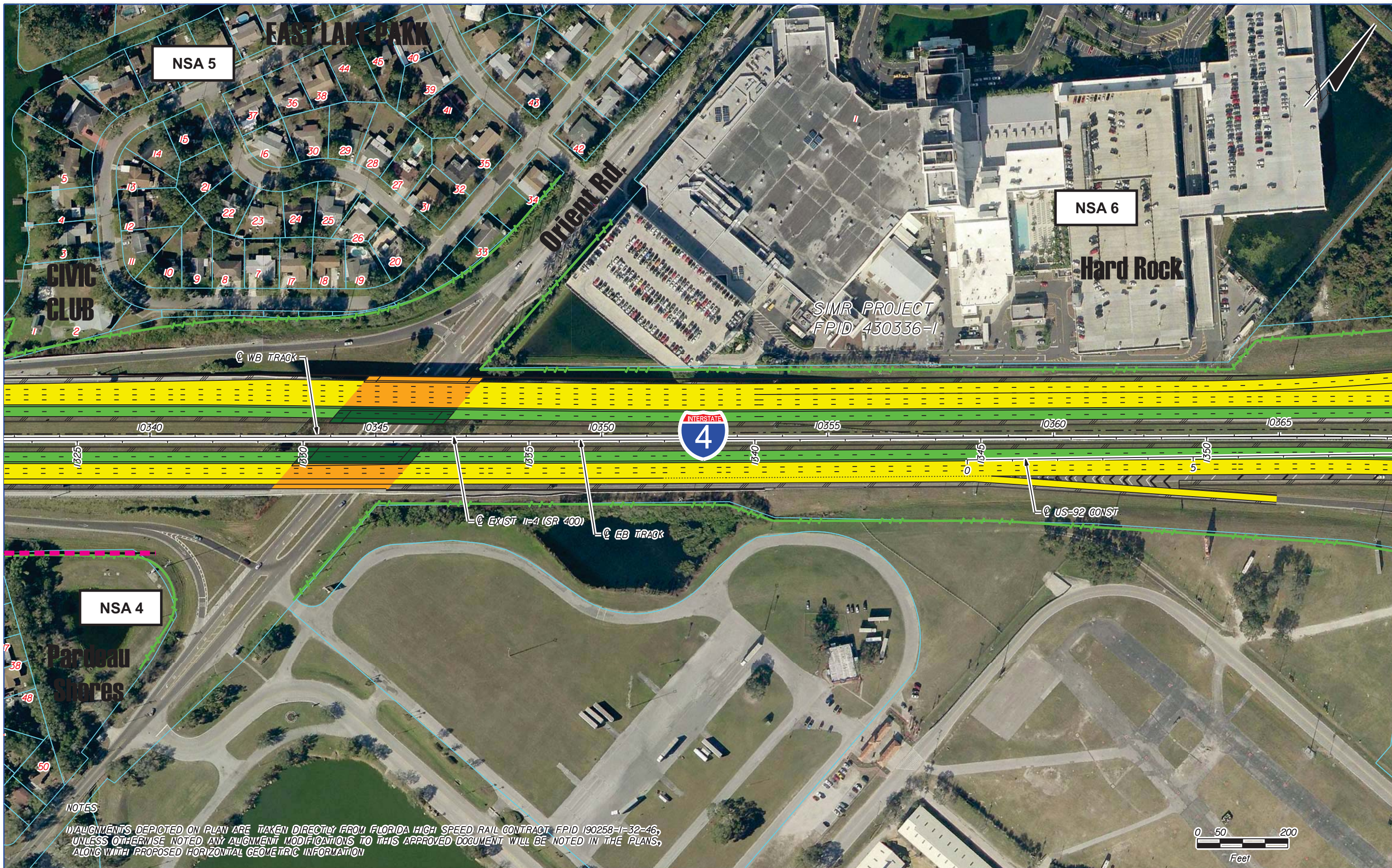
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
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| 400 | HILLSBOROUGH | 431746-1-22-01 |

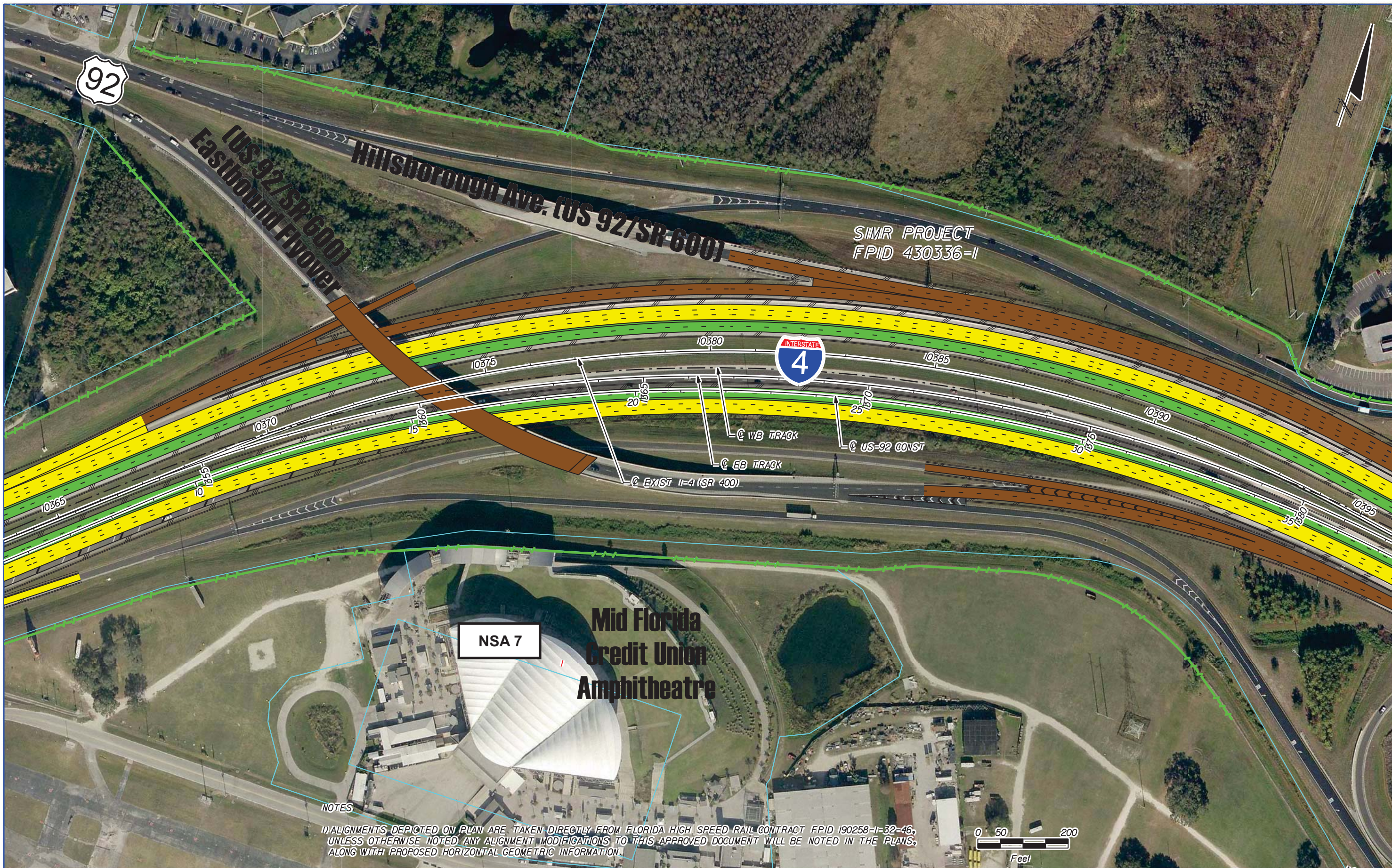
SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO. 3



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT, FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 NOISE SENSITIVE AREA RECEPTOR 14 EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 4 |
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | |



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| | | | | | | | |
|--|--|---|----------------------------|--|--|--|----------------|
| LEGEND: --- EXIST. R/W --- EXIST. L/A R/W --- PROP. L/A R/W --- PARCEL LINES ■ EXPRESS LANE ■ EXPRESS LANE - BRIDGE ■ GENERAL USE LANE ■ GENERAL USE LANE - BRIDGE ■ NON-INTERSTATE RDWY. AND BRIDGE | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR ■ EXISTING NOISE BARRIER ■ POTENTIAL NOISE BARRIER ● OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. 400 COUNTY HILLSBOROUGH FINANCIAL PROJECT ID 431746-1-22-01 | SR 400 (I-4) CONCEPT PLANS - ULTIMATE | SHEET NO. 5 |
|--|--|---|----------------------------|--|--|--|----------------|



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| LEGEND: | | NSA 14 | |
|---------|---------------------------------|--------|-------------------------------|
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| | EXIST. L/A R/W | | EXISTING NOISE BARRIER |
| | PROP. L/A R/W | | POTENTIAL NOISE BARRIER |
| | PARCEL LINES | | OUTDOOR ADVERTISING SIGN |
| | EXPRESS LANE | | |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

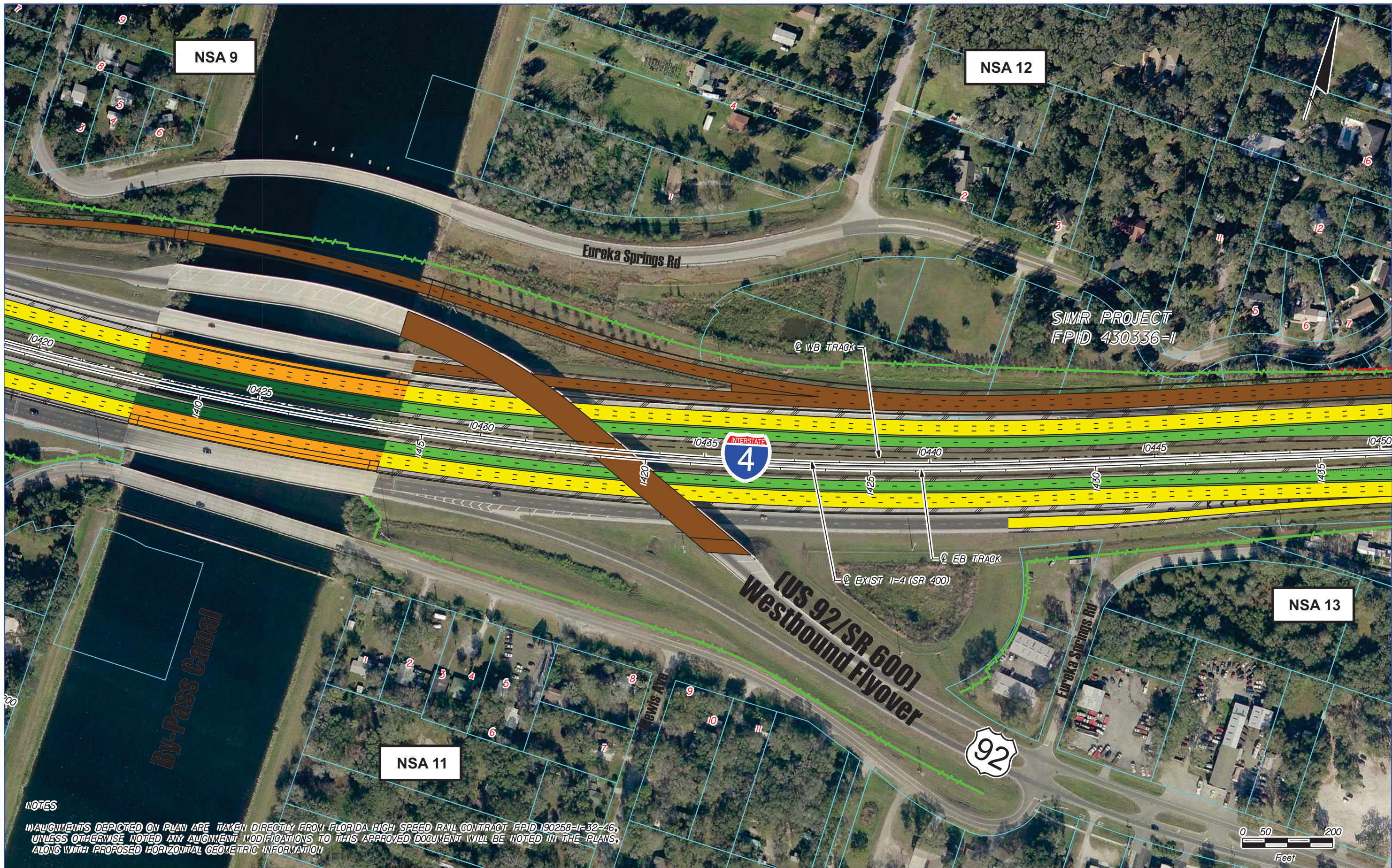
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
6



NOTES
 ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 14 | |
|---------|---------------------------------|--------|--------------------------|
| | EXIST. R/W | | NOISE SENSITIVE AREA |
| | EXIST. L/A R/W | | RECEPTOR |
| | PROP. L/A R/W | | EXISTING NOISE BARRIER |
| | PARCEL LINES | | POTENTIAL NOISE BARRIER |
| | EXPRESS LANE | | OUTDOOR ADVERTISING SIGN |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

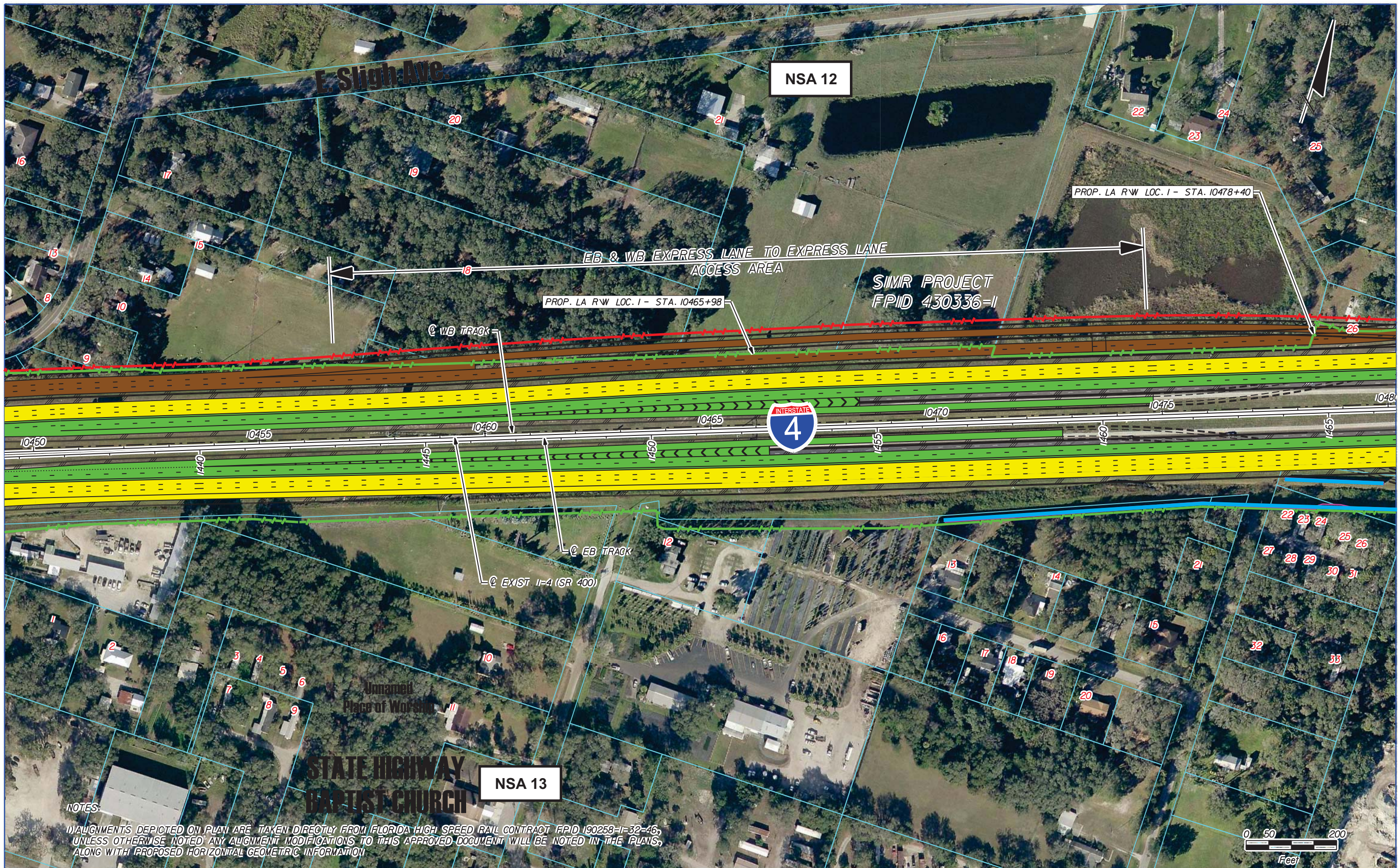
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

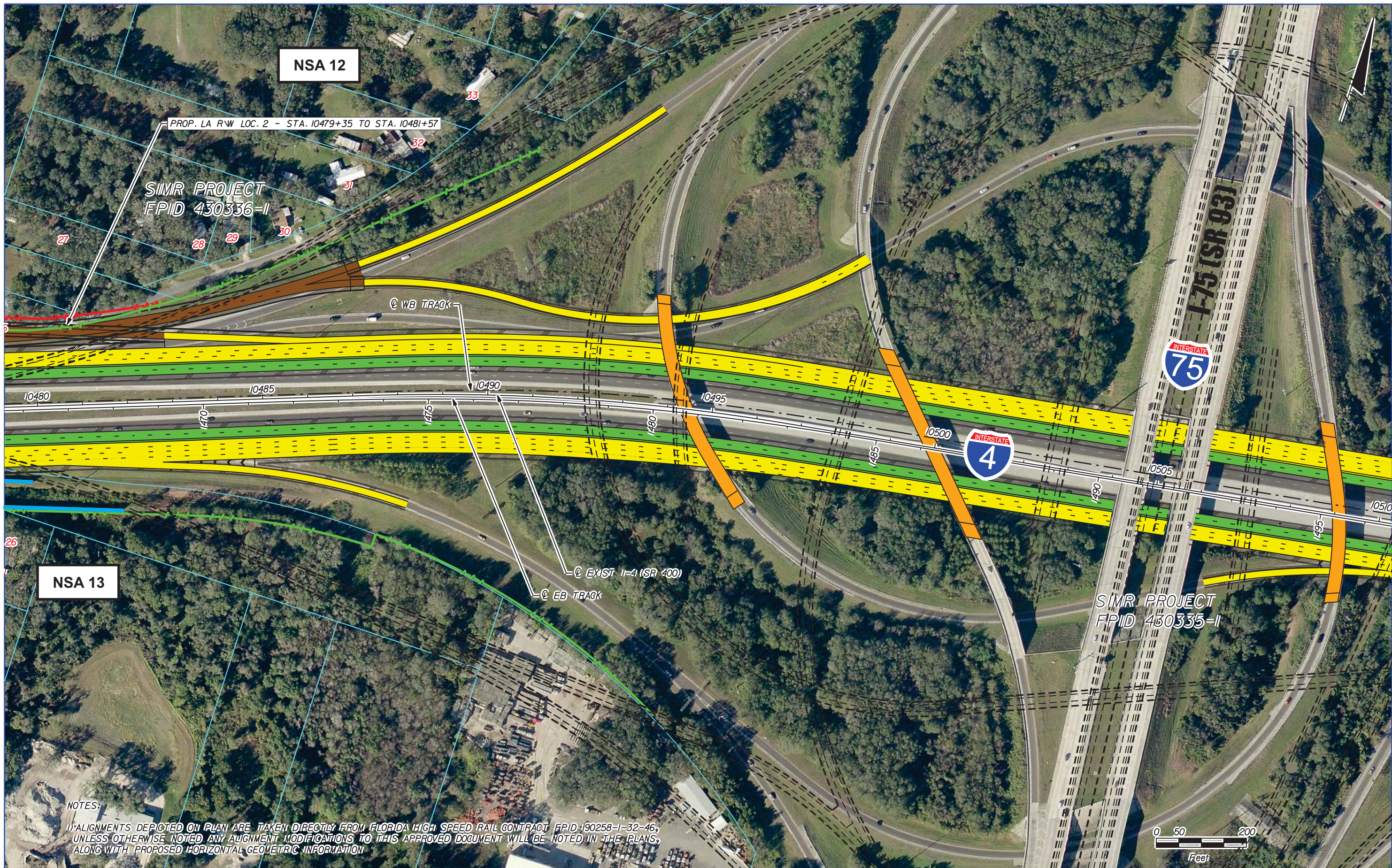
SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO. 7



NOTES:
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SR 400 (I-4) CONCEPT PLANS - ULTIMATE | SHEET NO. 8 |
|--------------------|--------------|---|----------------------------|--|--|----------|--------|----------------------|-----|--------------|----------------|--|----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



NOTES:

ALL ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | | NSA 1 | |
|---------|---------------------------------|-------|--------------------------|
| | EXIST. R/W | | NOISE SENSITIVE AREA |
| | EXIST. L/A R/W | | RECEPTOR |
| | PROP. L/A R/W | | EXISTING NOISE BARRIER |
| | PARCEL LINES | | POTENTIAL NOISE BARRIER |
| | EXPRESS LANE | | OUTDOOR ADVERTISING SIGN |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

| | |
|-----------|---|
| SHEET NO. | 9 |
|-----------|---|



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL 3 GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA |
| | RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

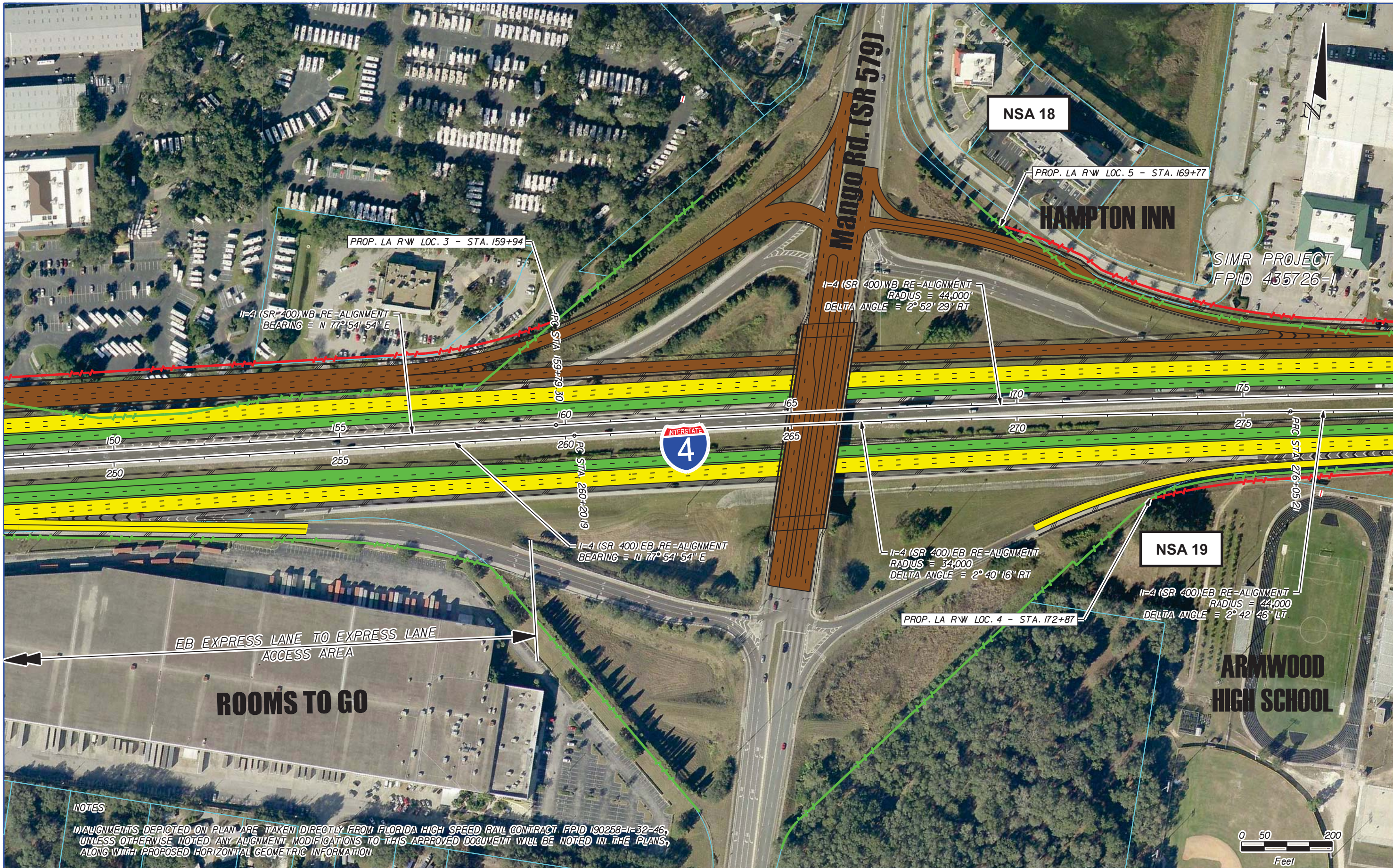
SHEET NO. 10



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| <p>LEGEND:</p> <ul style="list-style-type: none"> --- EXIST. R/W - - - EXIST. L/A R/W - - - PROP. L/A R/W --- PARCEL LINES █ EXPRESS LANE ▬ EXPRESS LANE - BRIDGE █ GENERAL USE LANE ▬ GENERAL USE LANE - BRIDGE █ NON-INTERSTATE RDWY. AND BRIDGE | | <p>NSA 1</p> <ul style="list-style-type: none"> █ 14 NOISE SENSITIVE AREA RECEPTOR ▬ EXISTING NOISE BARRIER ▬ POTENTIAL NOISE BARRIER ● OUTDOOR ADVERTISING SIGN | <p>AERIAL FLOWN DATE: 2013</p> | | <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | <p>SR 400 (I-4) CONCEPT PLANS - ULTIMATE</p> | <p>SHEET NO. 11</p> |
|--|--------------|---|--------------------------------|--|---|----------|--------|----------------------|-----|--------------|----------------|--|-------------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



PROP. LA R/W LOC. 3 - STA. 159+94

I-4 (SR 400) WB RE-ALIGNMENT
BEARING = N 77° 54' 54" E

I-4 (SR 400) WB RE-ALIGNMENT
RADIUS = 44,000'
DELTA ANGLE = 2° 52' 29" RT

I-4 (SR 400) EB RE-ALIGNMENT
BEARING = N 77° 54' 54" E

I-4 (SR 400) EB RE-ALIGNMENT
RADIUS = 34,000'
DELTA ANGLE = 2° 40' 16" RT

I-4 (SR 400) EB RE-ALIGNMENT
RADIUS = 44,000'
DELTA ANGLE = 2° 42' 46" LT

EB EXPRESS LANE TO EXPRESS LANE
ACCESS AREA

ROOMS TO GO

HAMPTON INN

SIMR PROJECT
FPID 435726-1

ARMWOOD
HIGH SCHOOL

Mango Rd. (SR 579)

NSA 18

PROP. LA R/W LOC. 5 - STA. 169+77

NSA 19

PROP. LA R/W LOC. 4 - STA. 172+87

NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION



| | | | | | | | | | | | |
|--------------------|--------|----------------------|--|---------------------------------------|--|-----------------------------|--|--|--|--|-----------------|
| LEGEND: | | | | | | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. 12 |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | SR 400 (I-4) CONCEPT PLANS - ULTIMATE | | | ROAD NO. 400 COUNTY HILLSBOROUGH FINANCIAL PROJECT ID 431746-1-22-01 | | | | |



NOTES:
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | | NSA 1 | |
|---------|---------------------------------|-------|--------------------------|
| | EXIST. R/W | | NOISE SENSITIVE AREA |
| | EXPRESS LANE | | RECEPTOR |
| | EXPRESS LANE - BRIDGE | | EXISTING NOISE BARRIER |
| | GENERAL USE LANE | | POTENTIAL NOISE BARRIER |
| | PROP. L/A R/W | | OUTDOOR ADVERTISING SIGN |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |
| | PARCEL LINES | | |

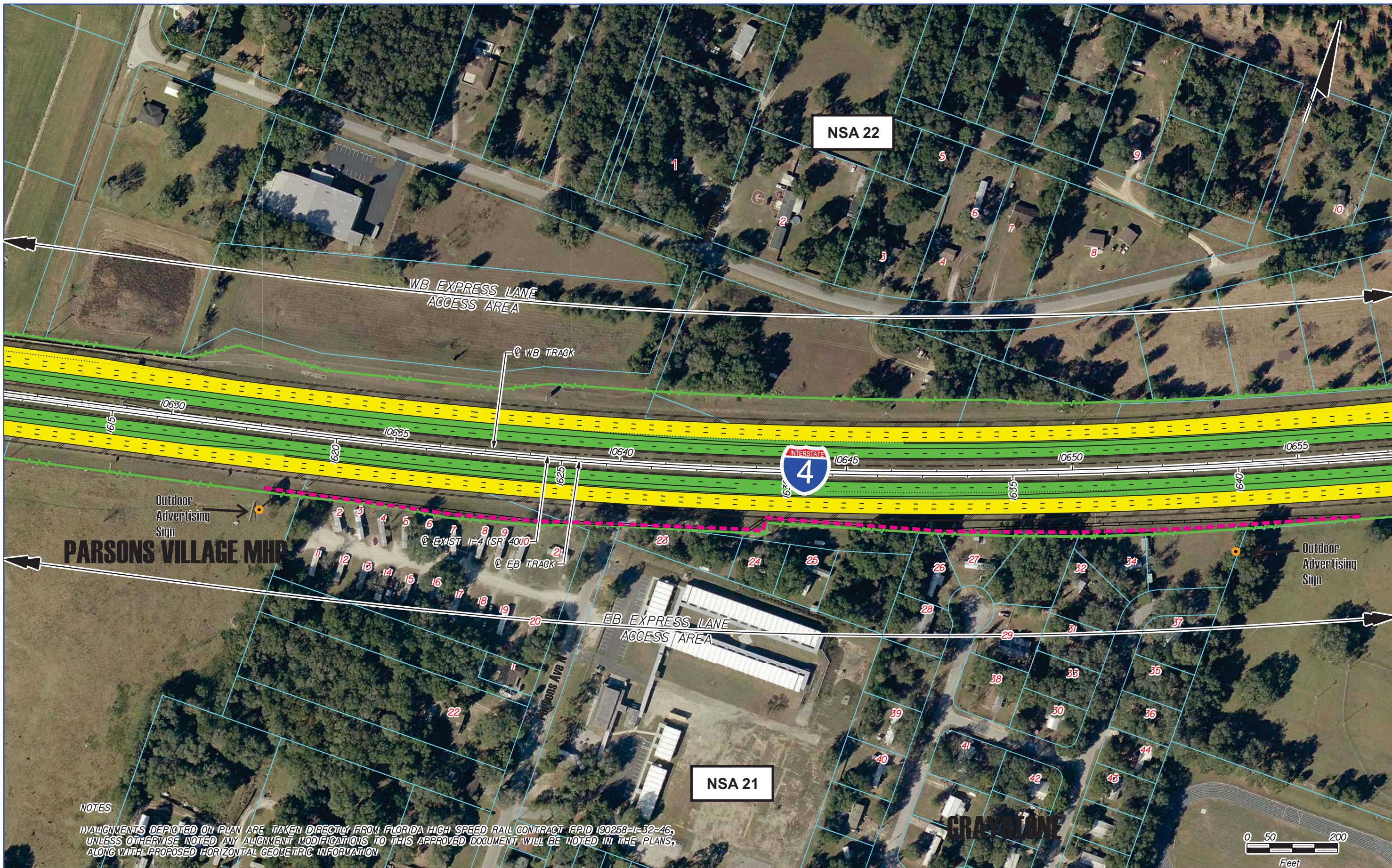
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO.
 13



NOTES

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-I-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 | NOISE SENSITIVE AREA RECEPTOR | AERIAL FLOWN DATE: |
|---------|---------------------------------|-------|-------------------------------|--------------------|
| | EXIST. R/W | | 14 | 2013 |
| | EXIST. L/A R/W | | EXISTING NOISE BARRIER | |
| | PROP. L/A R/W | | POTENTIAL NOISE BARRIER | |
| | PARCEL LINES | | OUTDOOR ADVERTISING SIGN | |
| | EXPRESS LANE | | | |
| | EXPRESS LANE - BRIDGE | | | |
| | GENERAL USE LANE | | | |
| | GENERAL USE LANE - BRIDGE | | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | | |



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

| |
|-----------|
| SHEET NO. |
| 14 |



PROP. LA R/W LOC. 7
STA. 10681+11 TO
STA. 10686+73

NSA 24

NSA 23

NSA 22

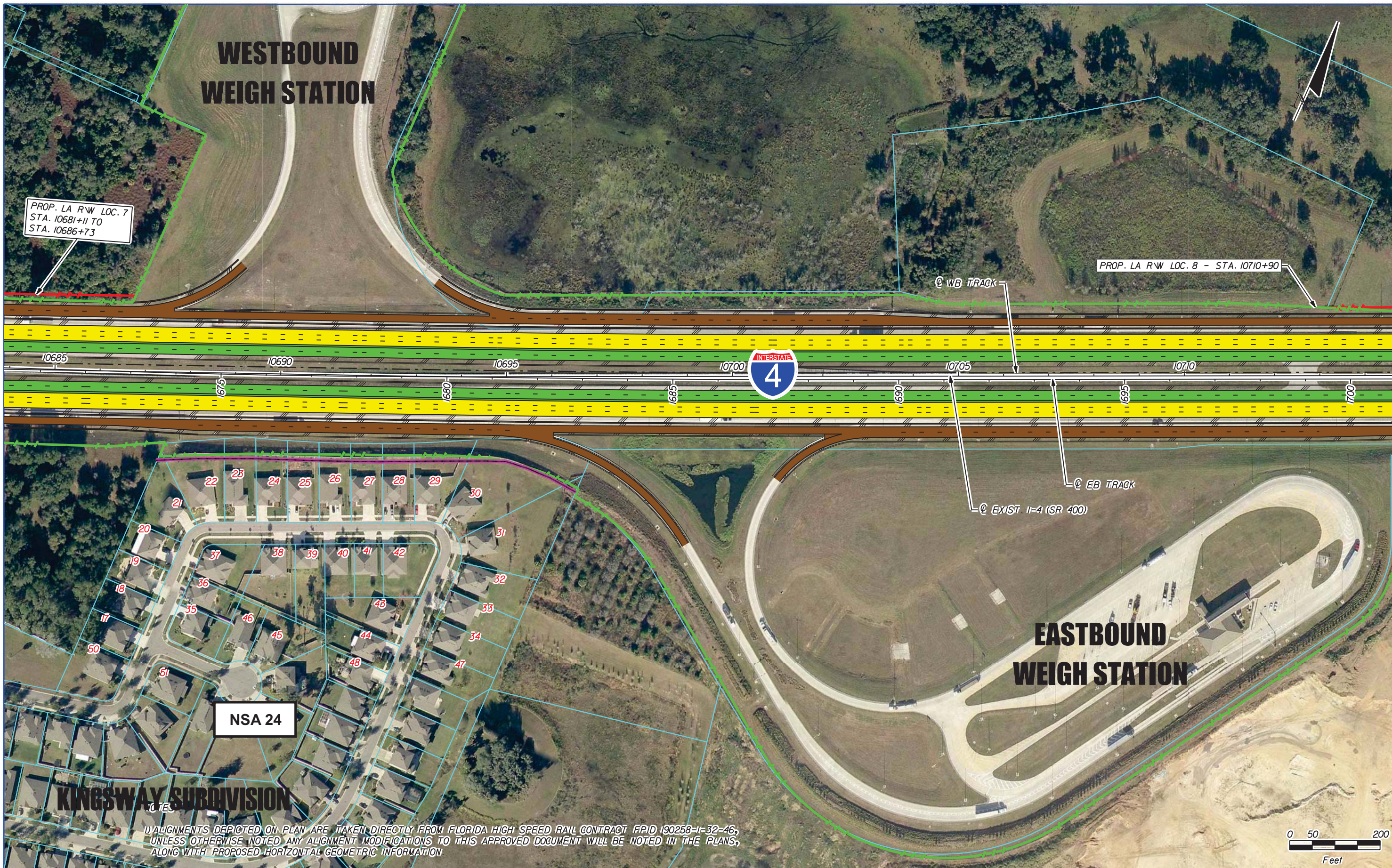
EVANS RECREATIONAL CENTER

KINGSWAY SUBDIVISION

NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SR 400 (I-4) CONCEPT PLANS - ULTIMATE | SHEET NO. 15 |
|--------------------|--------------|---|----------------------------|--|--|----------|--------|----------------------|-----|--------------|----------------|---|-----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



NOTES:
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | EXIST. L/A R/W |
| | GENERAL USE LANE |
| | PROP. L/A R/W |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | PARCEL LINES |
| | NSA 1 |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

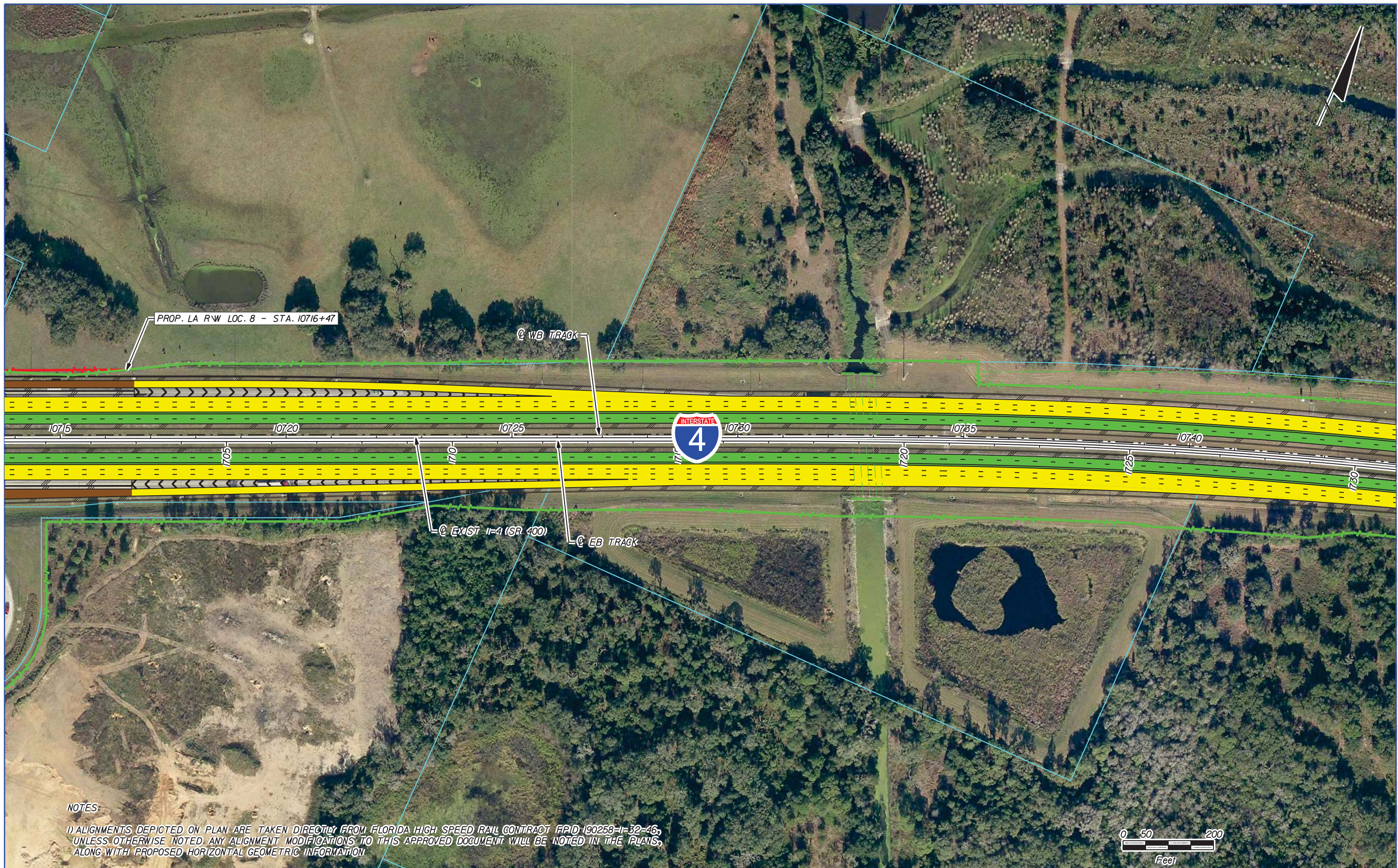
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO.
 16



NOTES:

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

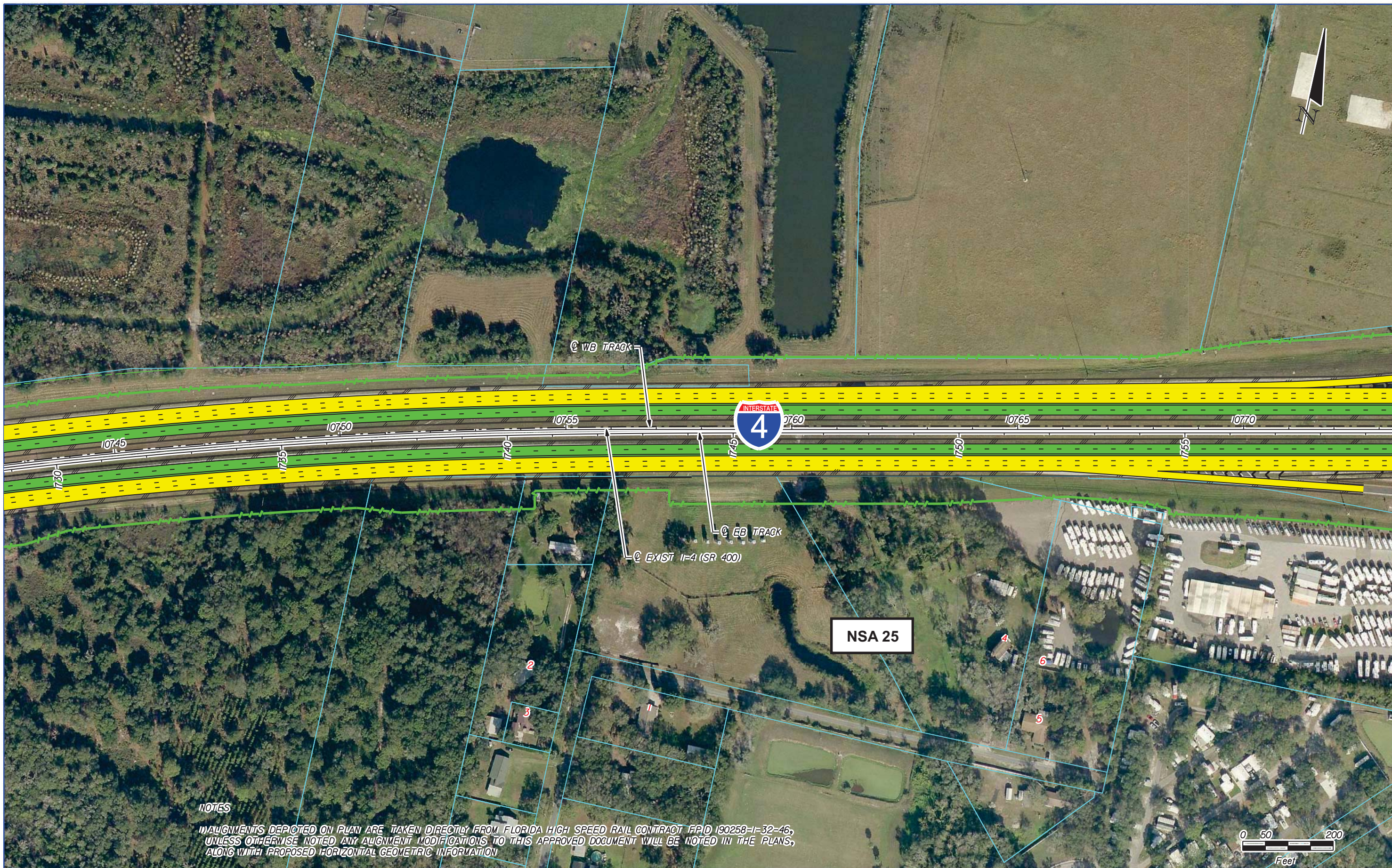
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
17



NOTES

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

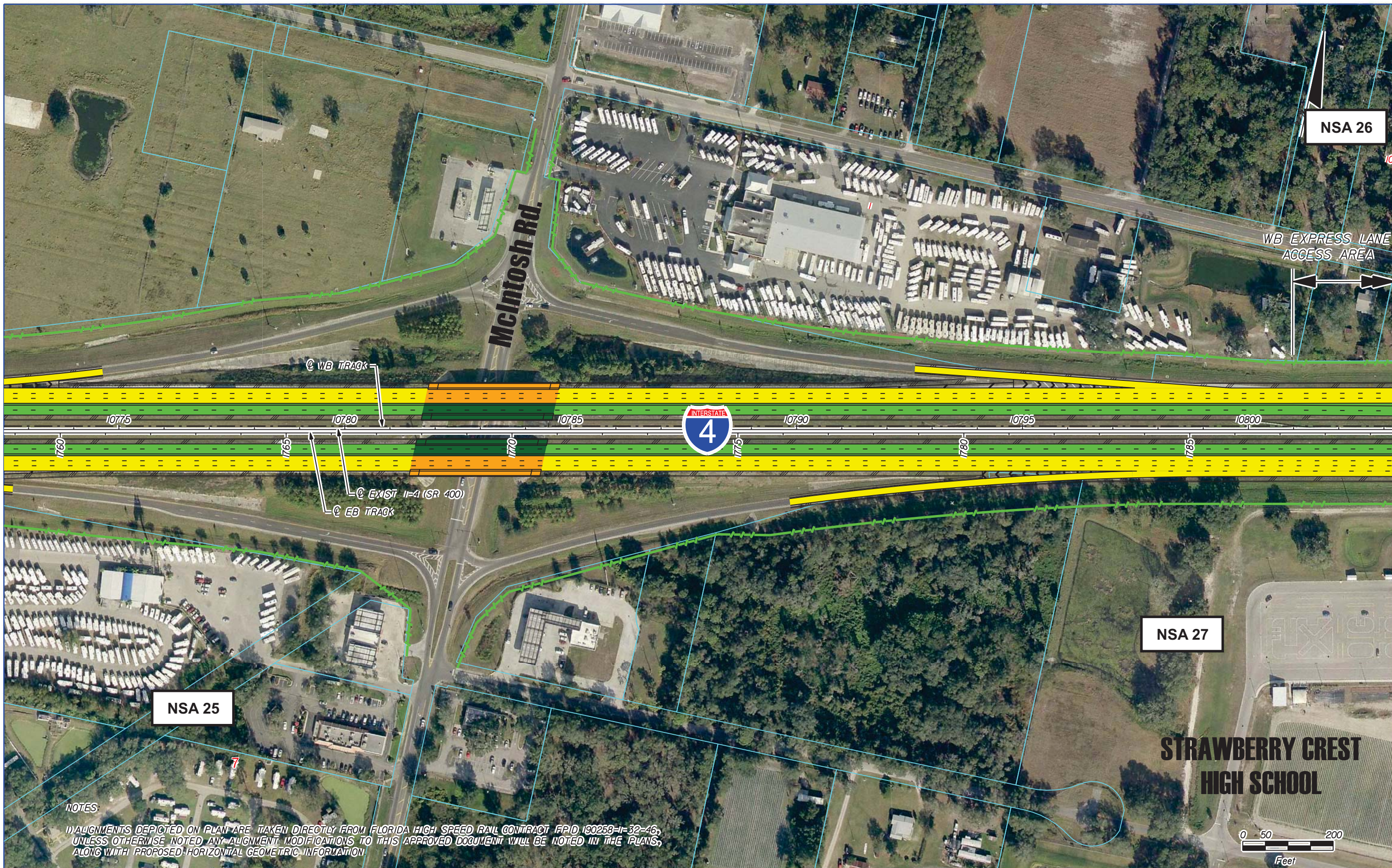
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
18



NOTES:
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPD 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NSA 1 |
| | 14 |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO. 19



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 20 |
|--------------------|--------------|--|-------------------------------|--|--|--|----------|--------|----------------------|-----|--------------|----------------|-----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | | |
|---------|----------------|--|---------------------------------|
| | EXIST. R/W | | EXPRESS LANE |
| | EXIST. L/A R/W | | EXPRESS LANE - BRIDGE |
| | PROP. L/A R/W | | GENERAL USE LANE |
| | PARCEL LINES | | GENERAL USE LANE - BRIDGE |
| | | | NON-INTERSTATE RDWY. AND BRIDGE |
| | NSA 1 14 | | NOISE SENSITIVE AREA |
| | | | RECEPTOR |
| | | | EXISTING NOISE BARRIER |
| | | | POTENTIAL NOISE BARRIER |
| | | | OUTDOOR ADVERTISING SIGN |

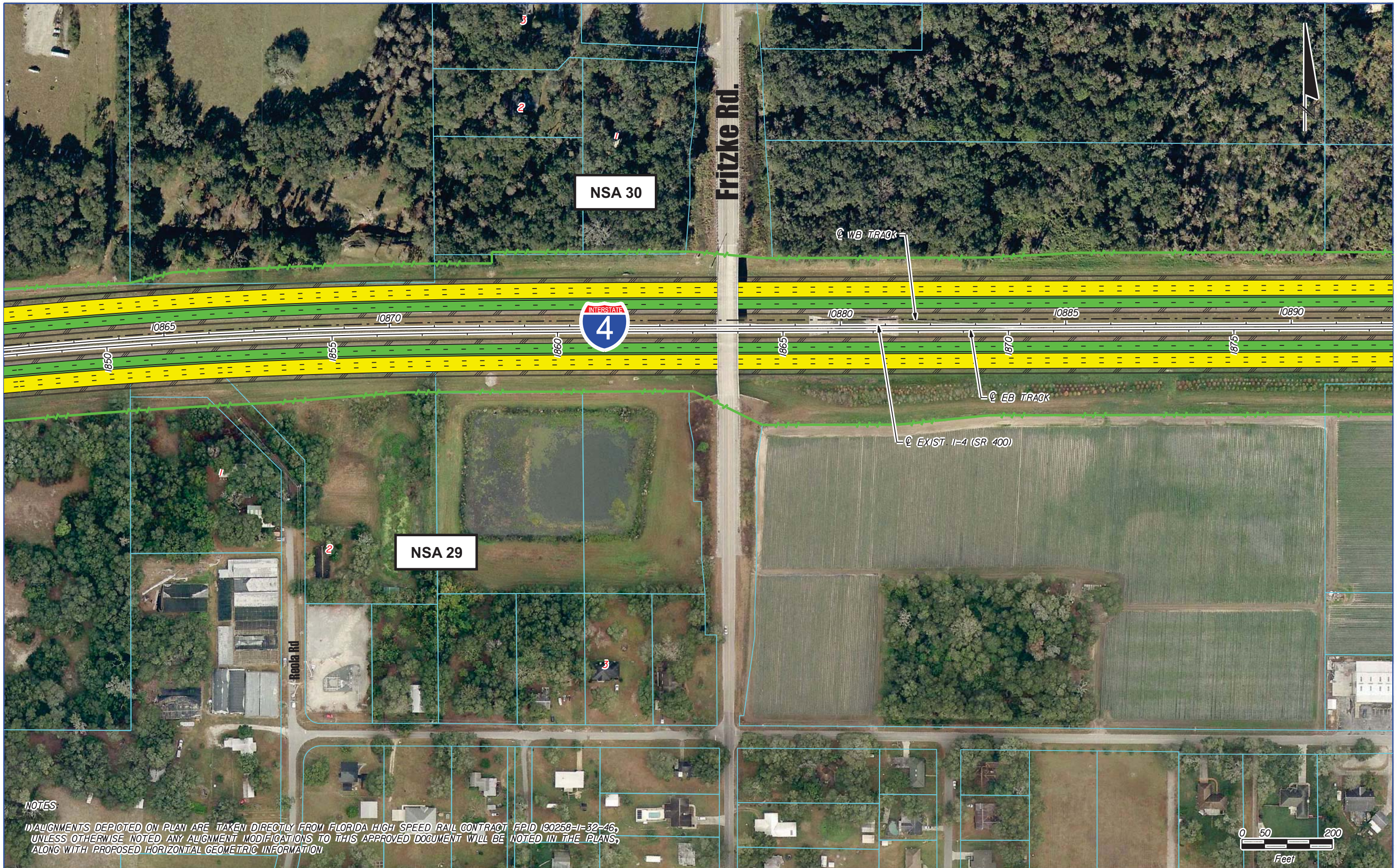
AERIAL FLOWN
DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
21



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

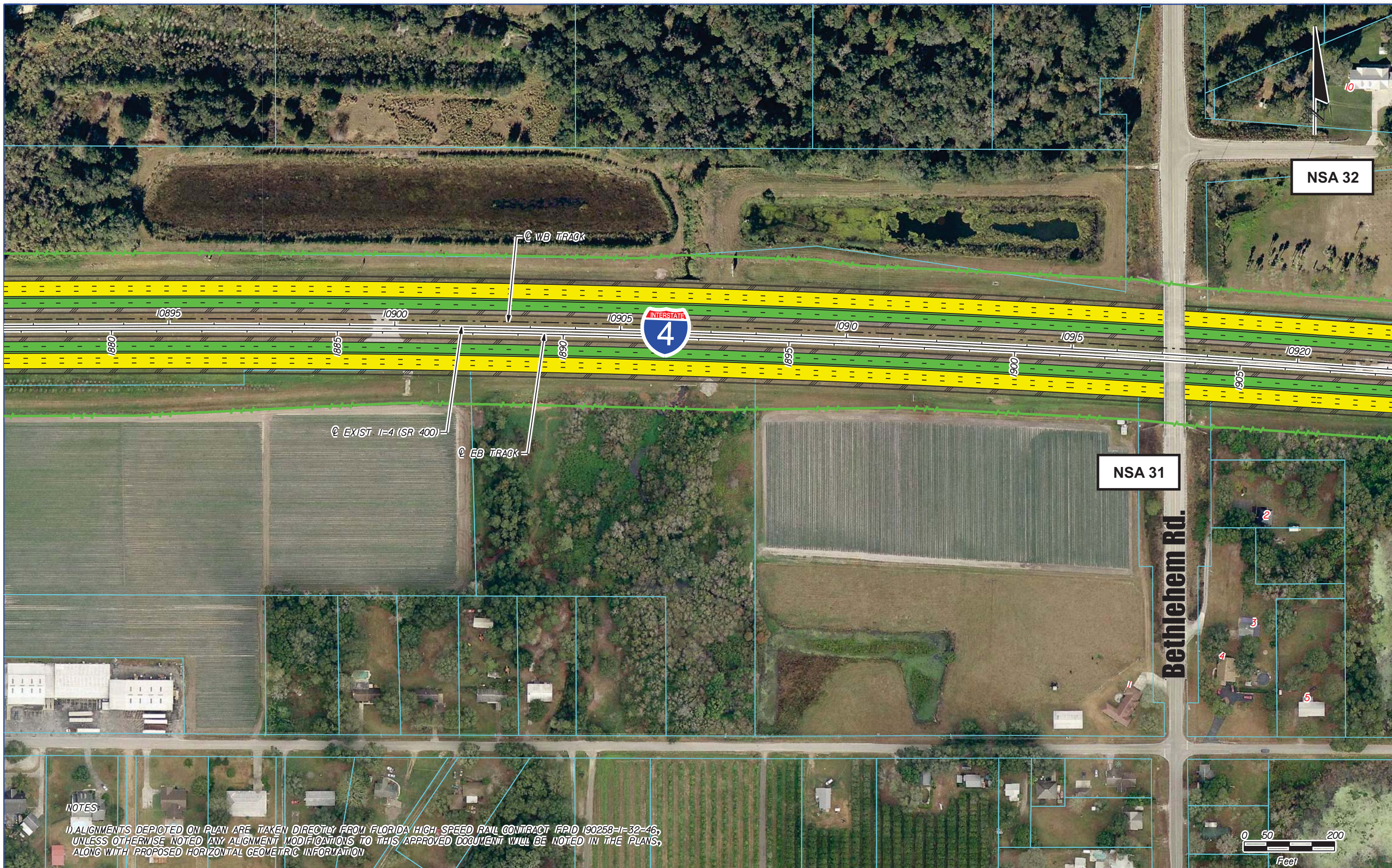
| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

| |
|-----------|
| SHEET NO. |
| 22 |



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| <p>LEGEND:</p> <ul style="list-style-type: none"> --- EXIST. R/W - - - EXIST. L/A R/W - - - PROP. L/A R/W --- PARCEL LINES █ EXPRESS LANE ▨ EXPRESS LANE - BRIDGE █ GENERAL USE LANE █ GENERAL USE LANE - BRIDGE █ NON-INTERSTATE RDWY. AND BRIDGE | | <p>NSA 1</p> <p>14 NOISE SENSITIVE AREA RECEPTOR</p> <p>█ EXISTING NOISE BARRIER</p> <p>█ POTENTIAL NOISE BARRIER</p> <p>● OUTDOOR ADVERTISING SIGN</p> | <p>AERIAL FLOWN DATE: 2013</p> | | <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | <p>SR 400 (I-4) CONCEPT PLANS - ULTIMATE</p> | <p>SHEET NO. 23</p> |
|--|--------------|---|--------------------------------|--|---|----------|--------|----------------------|-----|--------------|----------------|--|-------------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | | NSA 1 | |
|---------|---------------------------------|-------|--------------------------|
| | EXIST. R/W | | NOISE SENSITIVE AREA |
| | EXIST. L/A R/W | | RECEPTOR |
| | PROP. L/A R/W | | EXISTING NOISE BARRIER |
| | PARCEL LINES | | POTENTIAL NOISE BARRIER |
| | EXPRESS LANE | | OUTDOOR ADVERTISING SIGN |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

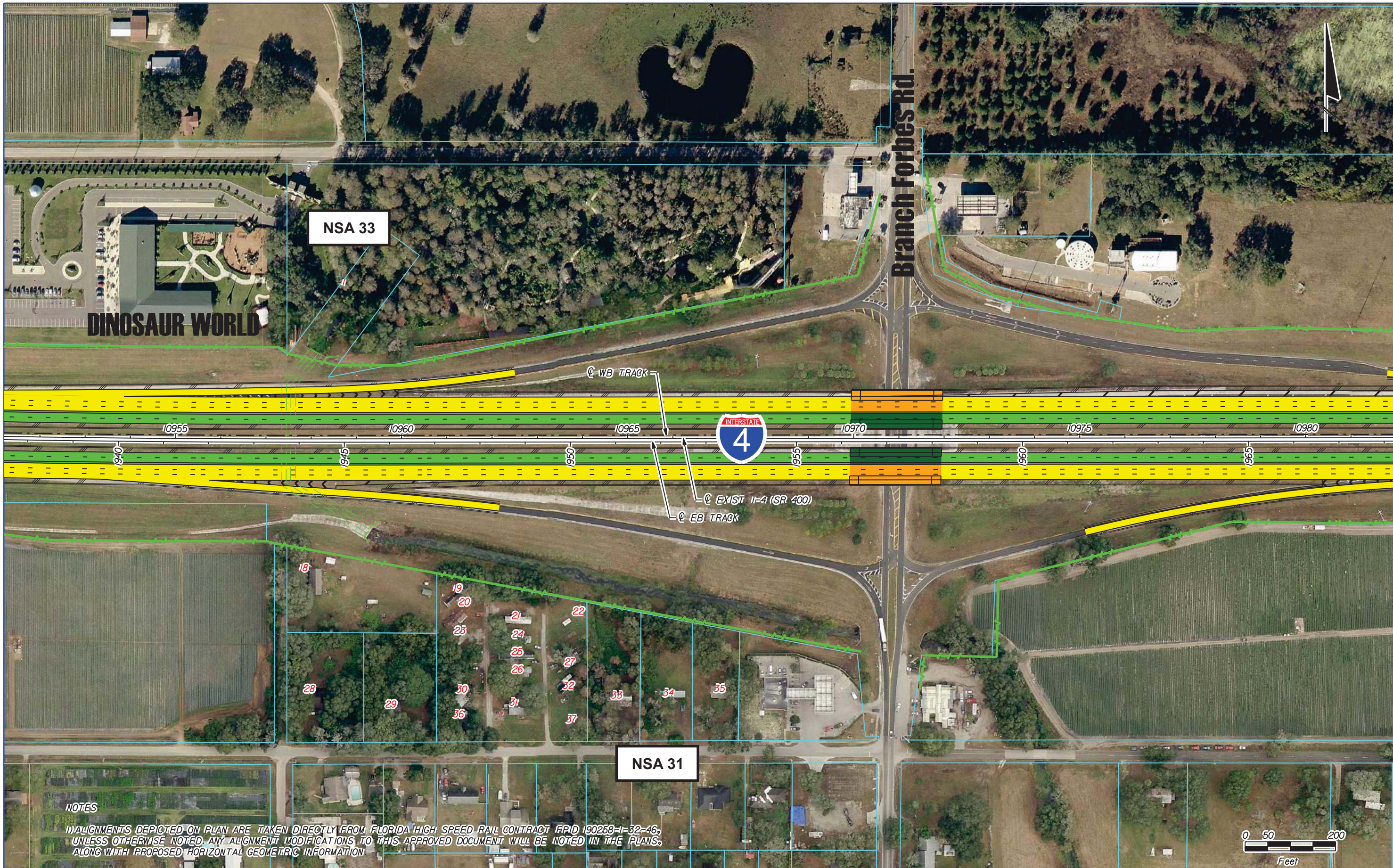
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
24



| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 25 |
|--------------------|--------------|---|-----------------------------|--|----------|--------|----------------------|-----|--------------|----------------|-----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | |



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NSA 1 |
| | 14 |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
26



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION



| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
27



NOTES:

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

LEGEND:

| | |
|--|----------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |

| | |
|--|---------------------------------|
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |

| | | |
|--|--------------|--------------------------|
| | NSA 1 | NOISE SENSITIVE AREA |
| | 14 | RECEPTOR |
| | | EXISTING NOISE BARRIER |
| | | POTENTIAL NOISE BARRIER |
| | | OUTDOOR ADVERTISING SIGN |

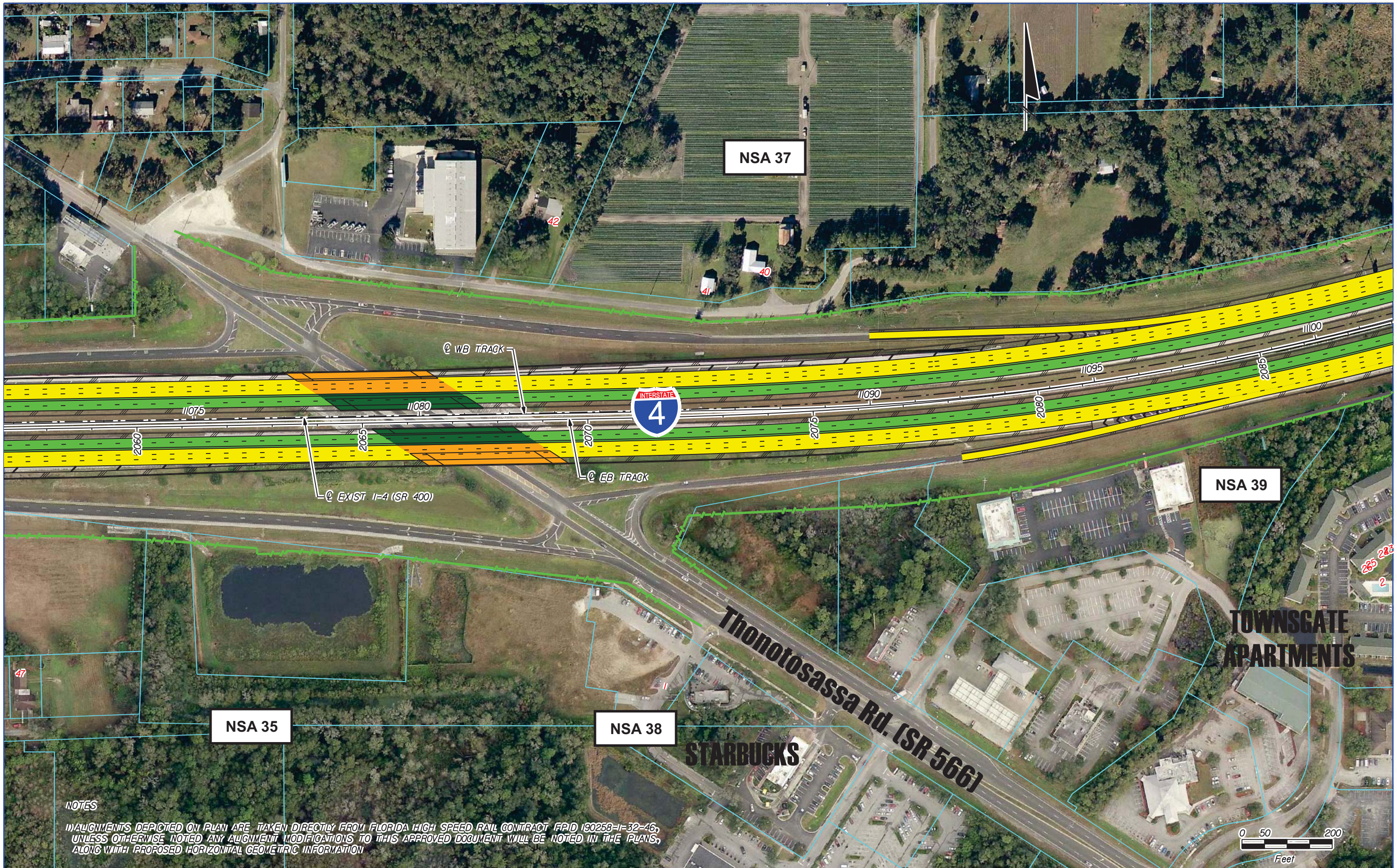
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
28



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 | NOISE SENSITIVE AREA RECEPTOR |
|---------|---------------------------------|-------|-------------------------------|
| | EXIST. R/W | 14 | EXISTING NOISE BARRIER |
| | EXIST. L/A R/W | | POTENTIAL NOISE BARRIER |
| | PROP. L/A R/W | | OUTDOOR ADVERTISING SIGN |
| | PARCEL LINES | | |
| | EXPRESS LANE | | |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

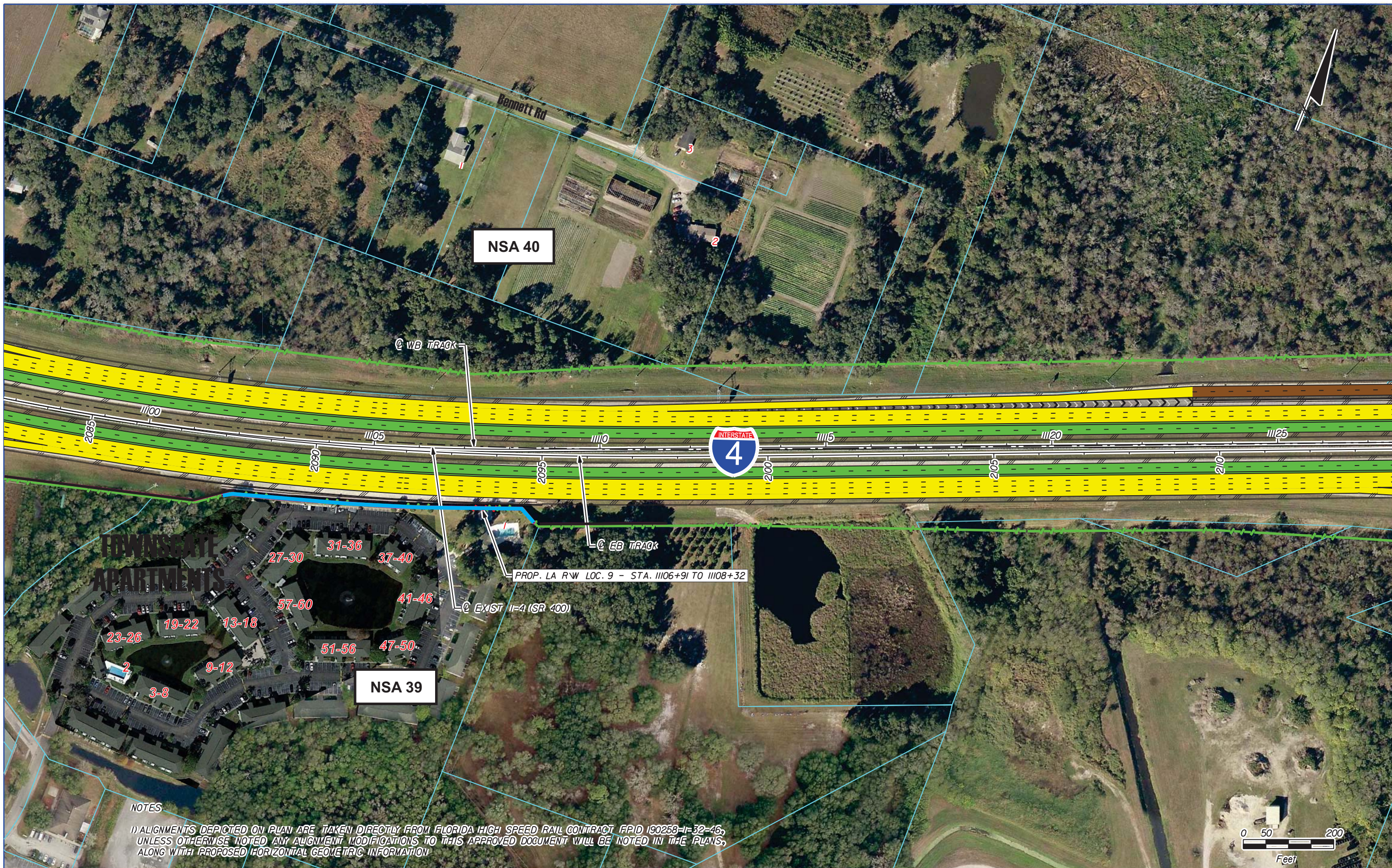
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|---|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO. 29



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-I-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | EXIST. L/A R/W |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | PROP. L/A R/W |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | PARCEL LINES |
| | NSA 1 |
| | 14 |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

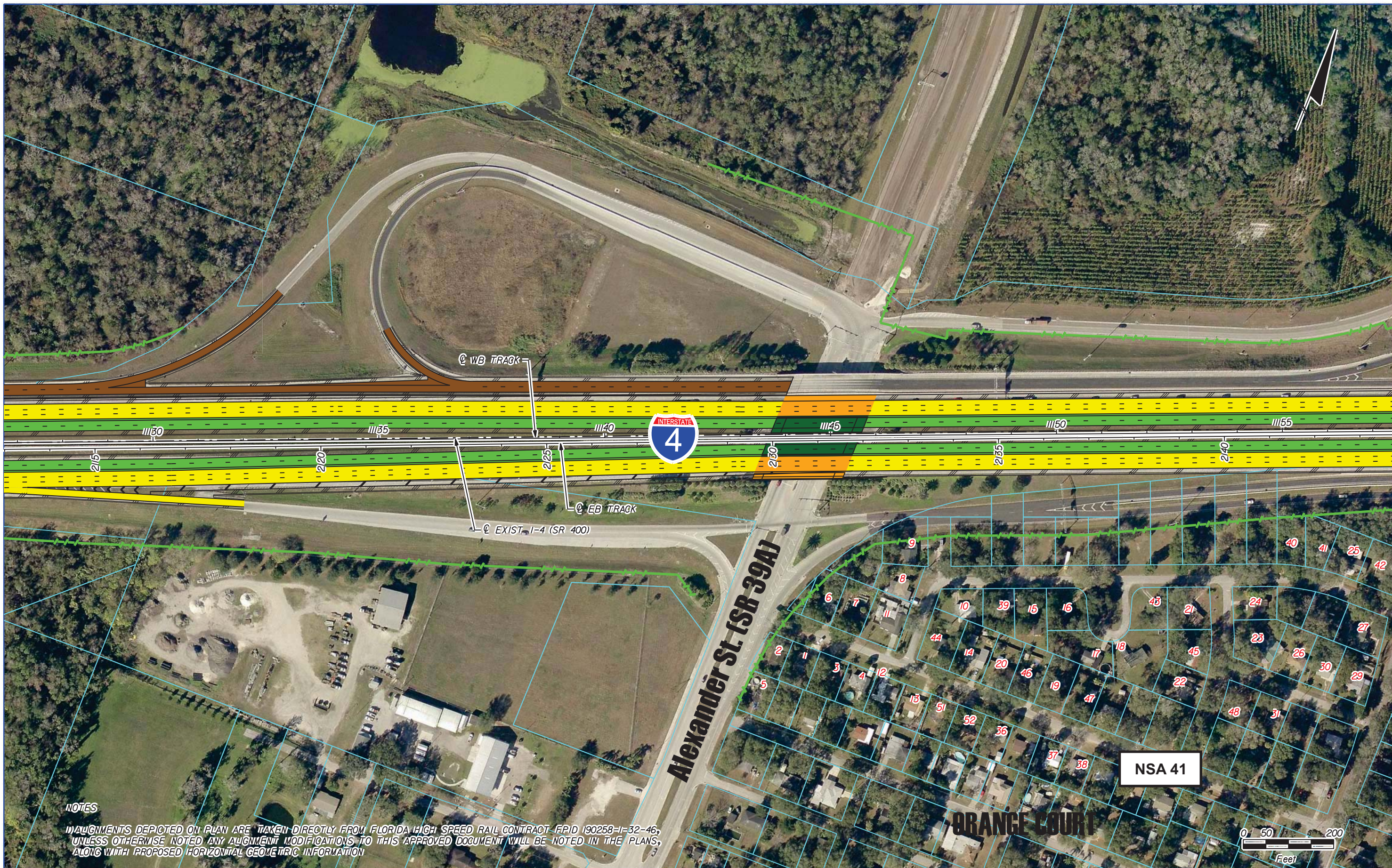
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO.
 30



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

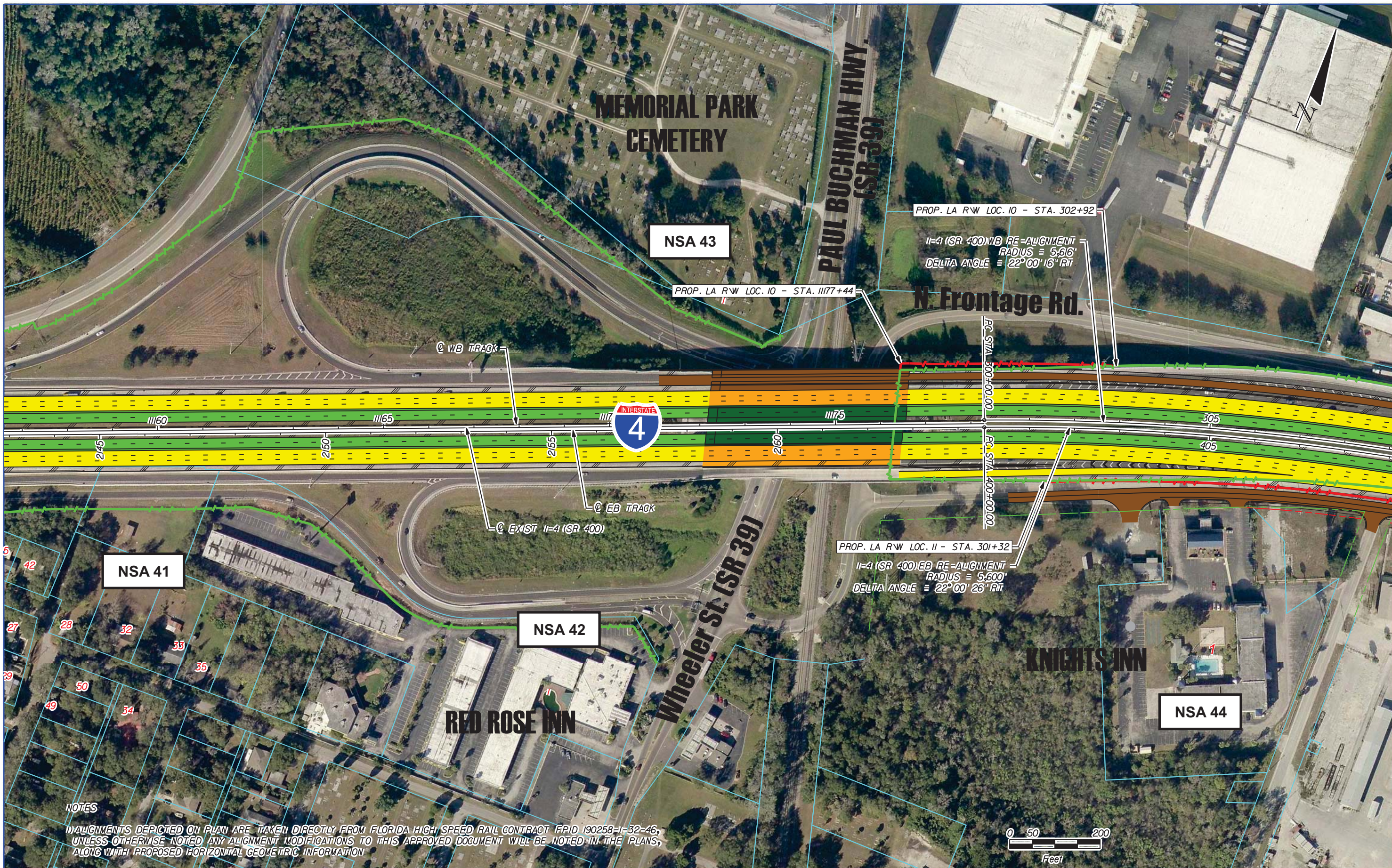
| LEGEND: | | NSA 14 | | AERIAL FLOWN DATE: | |
|---------|----------------|--------|---------------------------------|--------------------|-------------------------------|
| | EXIST. R/W | | EXPRESS LANE | | NOISE SENSITIVE AREA RECEPTOR |
| | EXIST. L/A R/W | | EXPRESS LANE - BRIDGE | | EXISTING NOISE BARRIER |
| | PROP. L/A R/W | | GENERAL USE LANE | | POTENTIAL NOISE BARRIER |
| | PARCEL LINES | | GENERAL USE LANE - BRIDGE | | OUTDOOR ADVERTISING SIGN |
| | | | NON-INTERSTATE RDWY. AND BRIDGE | | |



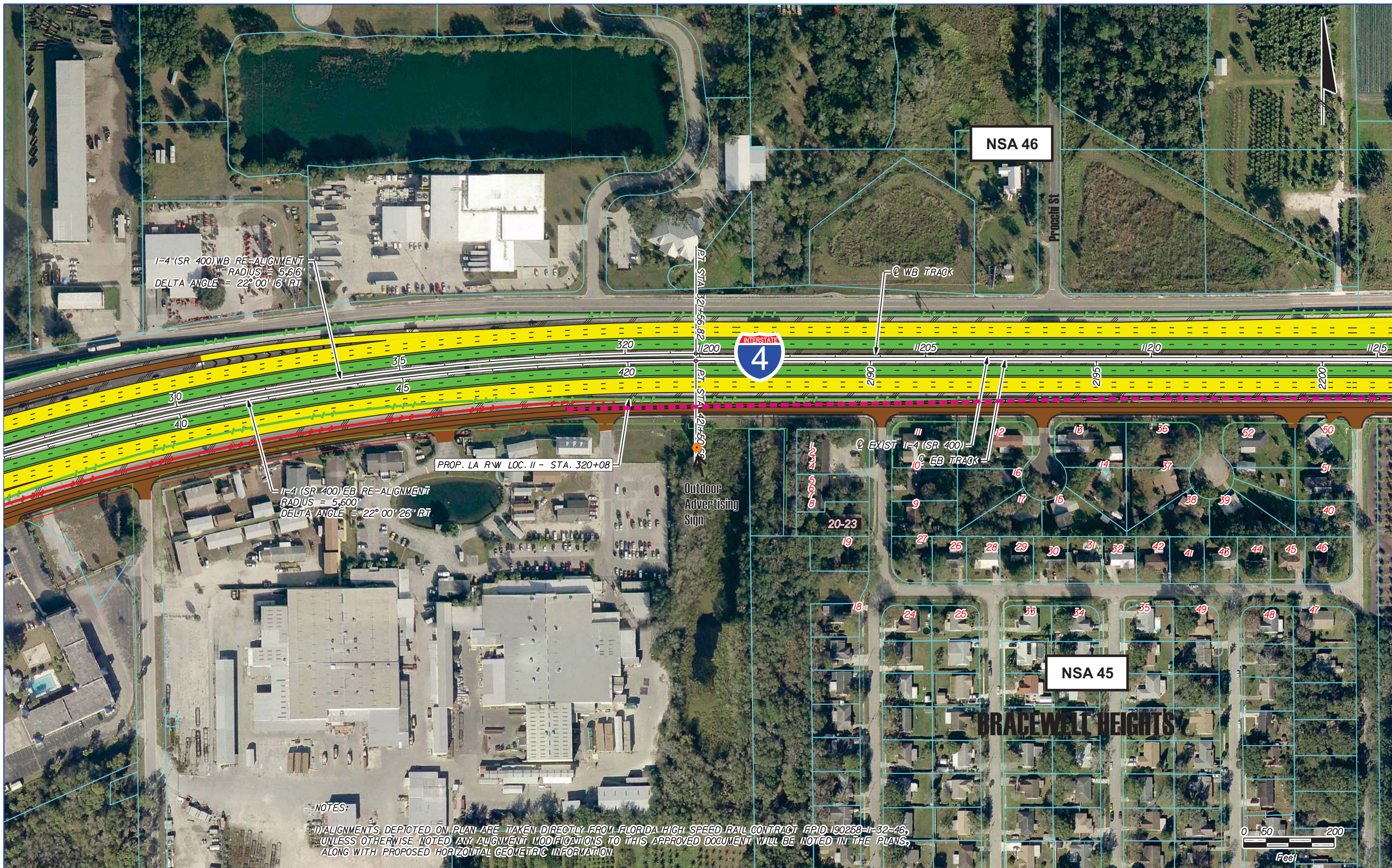
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

| |
|-----------|
| SHEET NO. |
| 31 |



| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR EXISTING NOISE BARRIER POTENTIAL NOISE BARRIER OUTDOOR ADVERTISING SIGN | AERIAL FLOWN DATE: 2013 | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SR 400 (I-4) CONCEPT PLANS - ULTIMATE | SHEET NO. 32 |
|--------------------|--------------|---|----------------------------|--|--|--|----------|--------|----------------------|-----|--------------|----------------|--|-----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | | |



I-4 (SR 400) WB RE-ALIGNMENT
 RADIUS = 5,616'
 DELTA ANGLE = 22° 00' 16" RT

I-4 (SR 400) EB RE-ALIGNMENT
 RADIUS = 5,600'
 DELTA ANGLE = 22° 00' 26" RT

PROP. LA R/W LOC. II - STA. 320+08

NOTES:

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-I-32-46, UNLESS OTHERWISE NOTED, ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

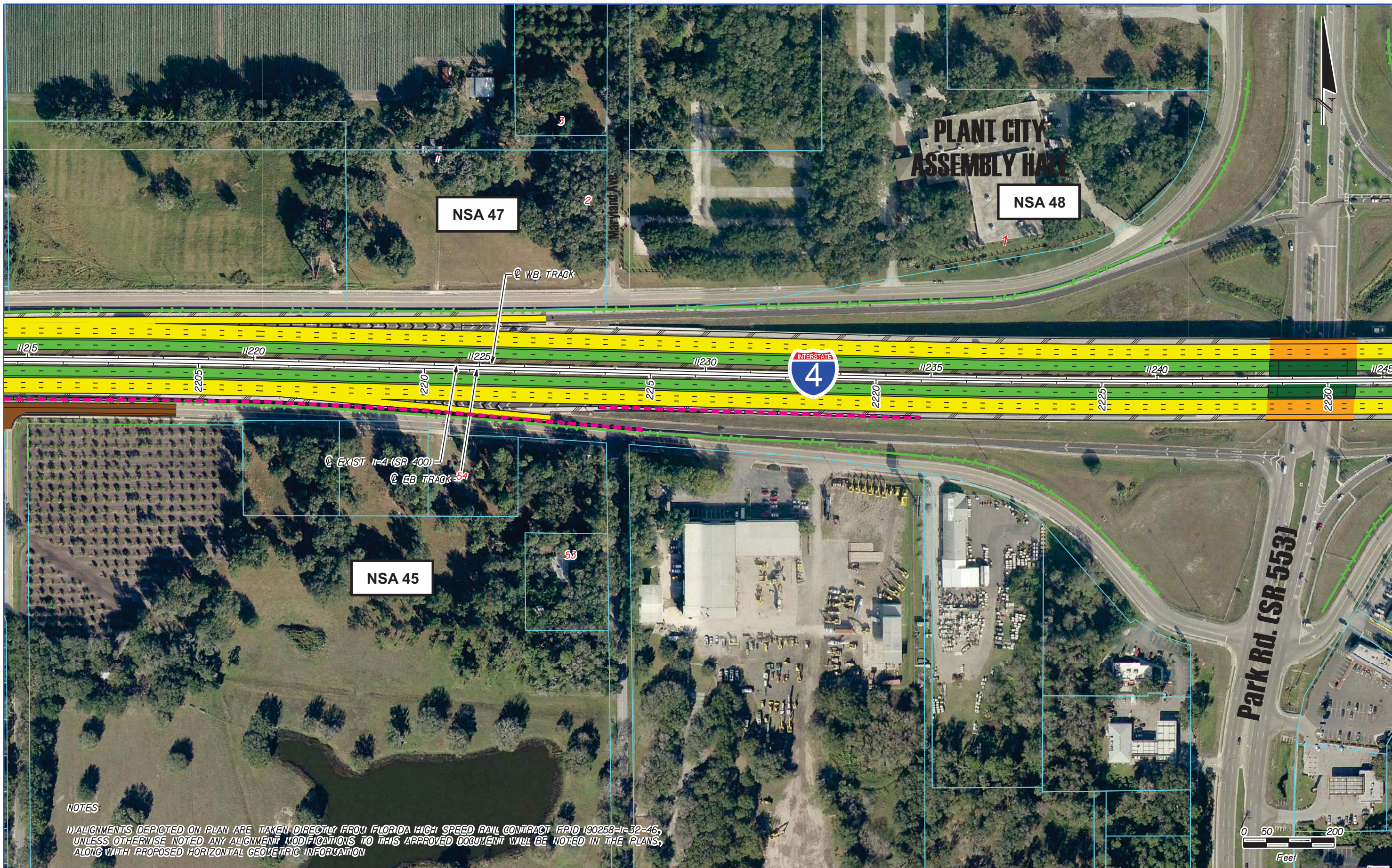
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO. 33



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA |
| | RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

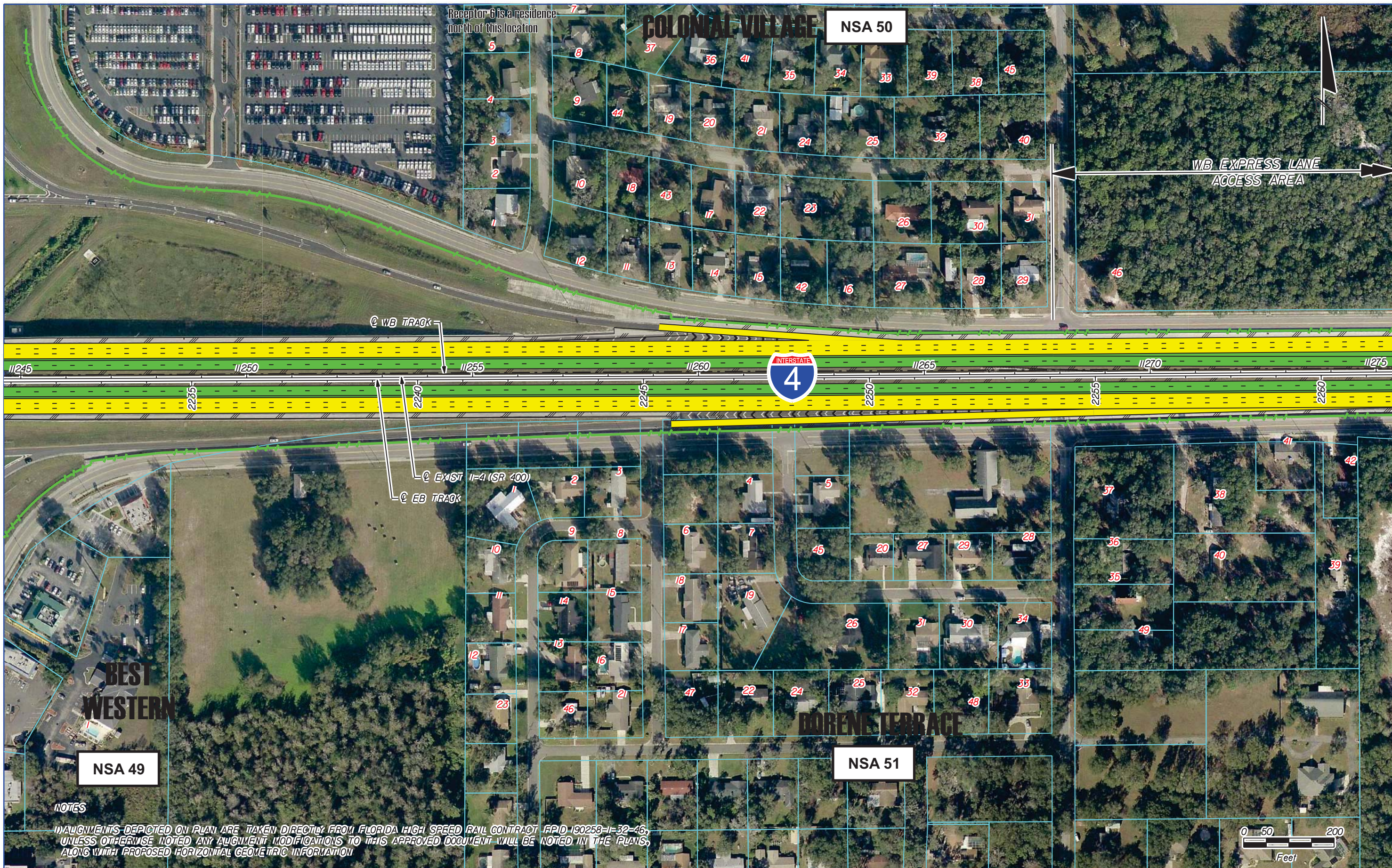
AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

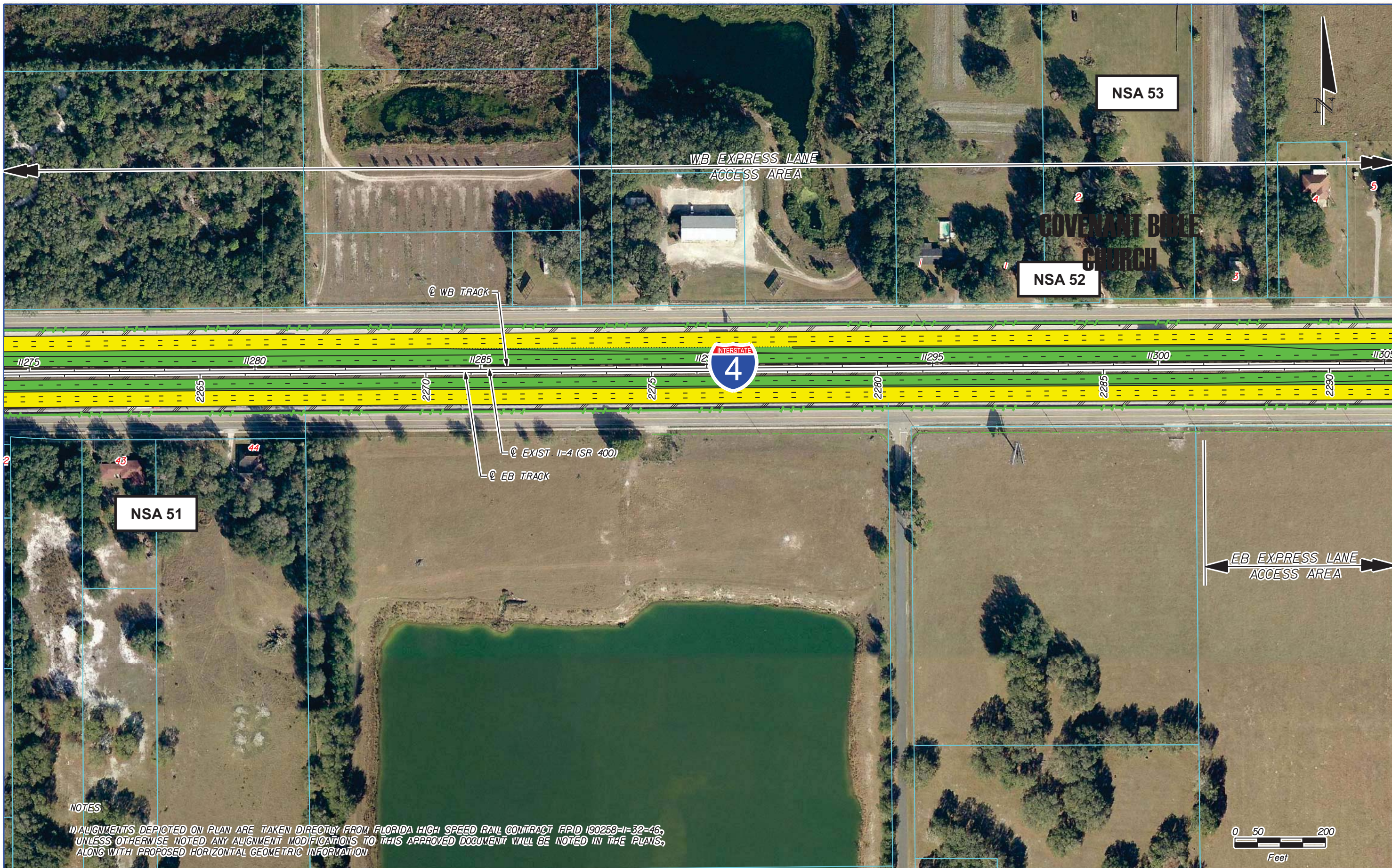
SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
34



NOTES
 ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190253-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 14 NOISE SENSITIVE AREA RECEPTOR | AERIAL FLOWN DATE: 2013 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | SHEET NO. 35 |
|--------------------|--------------|--|-----------------------------|--|----------|--------|----------------------|-----|--------------|----------------|-----------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | |



NOTES

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| <p>LEGEND:</p> <ul style="list-style-type: none"> --- EXIST. R/W - - - EXIST. L/A R/W - - - PROP. L/A R/W --- PARCEL LINES █ EXPRESS LANE ▬ EXPRESS LANE - BRIDGE █ GENERAL USE LANE ▬ GENERAL USE LANE - BRIDGE █ NON-INTERSTATE RDWY. AND BRIDGE | | <p>NSA 1</p> <ul style="list-style-type: none"> █ 14 NOISE SENSITIVE AREA ▬ RECEPTOR ▬ EXISTING NOISE BARRIER ▬ POTENTIAL NOISE BARRIER ● OUTDOOR ADVERTISING SIGN | <p>AERIAL FLOWN DATE: 2013</p> | | <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>400</td> <td>HILLSBOROUGH</td> <td>431746-1-22-01</td> </tr> </table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | 400 | HILLSBOROUGH | 431746-1-22-01 | <p style="text-align: center;">SR 400 (I-4) CONCEPT PLANS - ULTIMATE</p> | <p>SHEET NO. 36</p> |
|--|--------------|--|--------------------------------|--|---|----------|--------|----------------------|-----|--------------|----------------|--|-------------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | |
| 400 | HILLSBOROUGH | 431746-1-22-01 | | | | | | | | | | | |



NOTES

1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH-SPEED RAIL CONTRACT FPID 190253-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

MATCH LINE

| LEGEND: | | | | | |
|---------|----------------|--|---------------------------------|--|--------------------------|
| | EXIST. R/W | | EXPRESS LANE | | NOISE SENSITIVE AREA |
| | EXIST. L/A R/W | | EXPRESS LANE - BRIDGE | | RECEPTOR |
| | PROP. L/A R/W | | GENERAL USE LANE | | EXISTING NOISE BARRIER |
| | PARCEL LINES | | GENERAL USE LANE - BRIDGE | | POTENTIAL NOISE BARRIER |
| | | | NON-INTERSTATE RDWY. AND BRIDGE | | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
37



NOTES
 1) ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-I-32-46, UNLESS OTHERWISE NOTED. ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 | NOISE SENSITIVE AREA RECEPTOR |
|---------|---------------------------------|-------|-------------------------------|
| | EXIST. R/W | | EXISTING NOISE BARRIER |
| | EXIST. L/A R/W | | POTENTIAL NOISE BARRIER |
| | PROP. L/A R/W | | OUTDOOR ADVERTISING SIGN |
| | PARCEL LINES | | |
| | EXPRESS LANE | | |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
 CONCEPT PLANS - ULTIMATE

SHEET NO.
 38



NOTES

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED, ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION

| LEGEND: | | NSA 1 | NOISE SENSITIVE AREA |
|---------|---------------------------------|-------|--------------------------|
| | EXIST. R/W | | RECEPTOR |
| | EXIST. L/A R/W | | EXISTING NOISE BARRIER |
| | PROP. L/A R/W | | POTENTIAL NOISE BARRIER |
| | PARCEL LINES | | OUTDOOR ADVERTISING SIGN |
| | EXPRESS LANE | | |
| | EXPRESS LANE - BRIDGE | | |
| | GENERAL USE LANE | | |
| | GENERAL USE LANE - BRIDGE | | |
| | NON-INTERSTATE RDWY. AND BRIDGE | | |

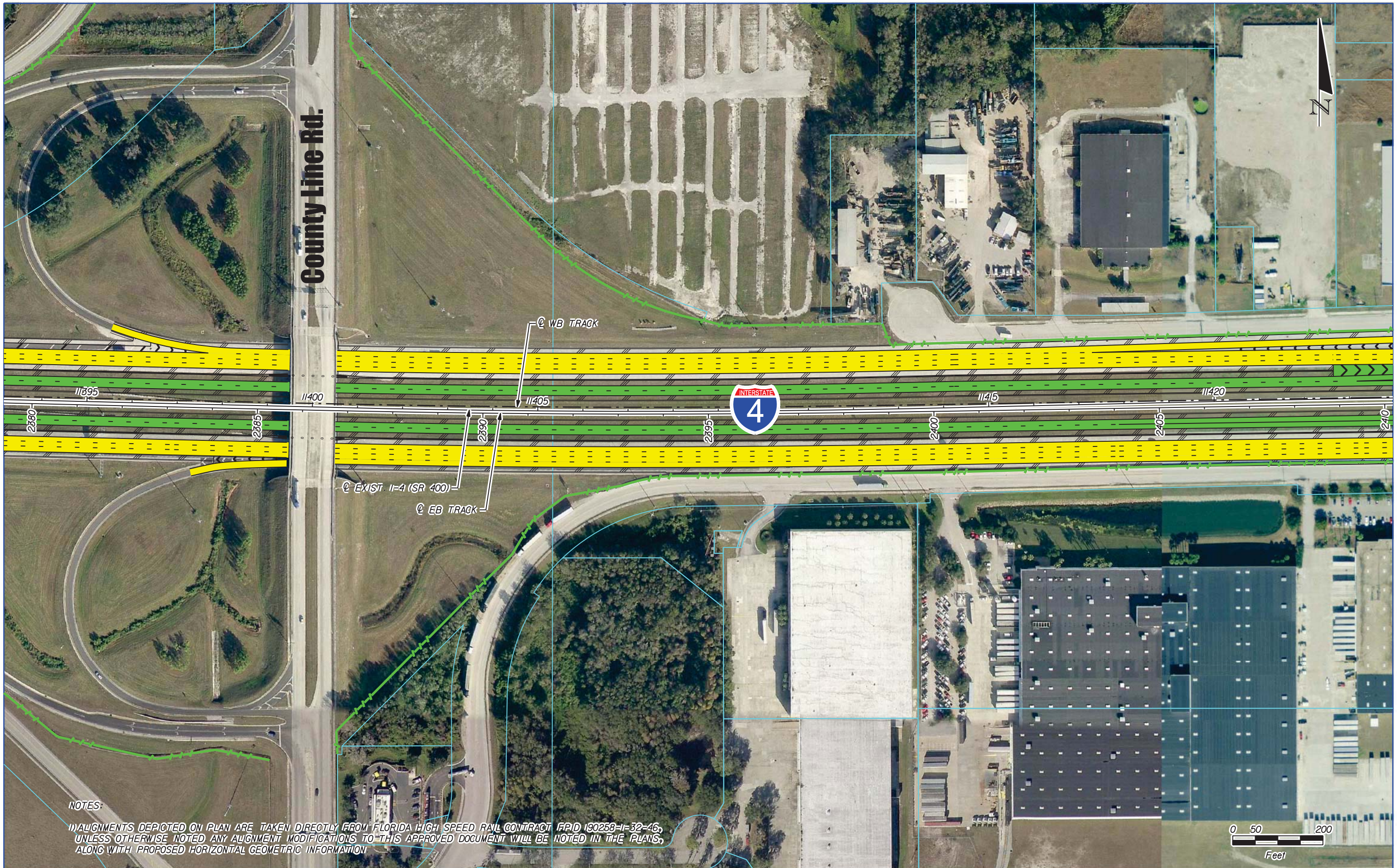
AERIAL FLOWN
DATE:
2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
39



NOTES:

ALIGNMENTS DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-I-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, ALONG WITH PROPOSED HORIZONTAL GEOMETRIC INFORMATION.

| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | EXIST. L/A R/W |
| | GENERAL USE LANE |
| | PROP. L/A R/W |
| | GENERAL USE LANE - BRIDGE |
| | PARCEL LINES |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN DATE: 2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|----------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | HILLSBOROUGH POLK | 431746-1-22-01 |

**SR 400 (I-4)
CONCEPT PLANS - ULTIMATE**

SHEET NO.
40



NOTES:

1) CENTERLINES DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, INCLUDING PROPOSED HORIZONTAL GEOMETRY

2) CENTERLINE CONSTRUCTION POLK PARKWAY (SR 570) TAKEN DIRECTLY FROM FDOT RIGHT OF WAY MAP STATE PROJECT NO. 16390-2423

LEGEND:

| | | | |
|--|----------------|--|---------------------------------|
| | EXIST. R/W | | EXPRESS LANE |
| | EXIST. L/A R/W | | EXPRESS LANE - BRIDGE |
| | PROP. L/A R/W | | GENERAL USE LANE |
| | PARCEL LINES | | GENERAL USE LANE - BRIDGE |
| | | | NON-INTERSTATE RDWY. AND BRIDGE |

AERIAL FLOWN
DATE:
2013

TAMPA BAY EXPRESS

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | POLK | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
41



**END
CONSTRUCTION**

CONST
POLK PARKWAY
(SR 570)

Old Tampa Hwy.
(SR 542)

New Tampa Hwy.
(US 92/SR 600)

MATCHLINE
STA 92+00.00

945

940

935

930

925

920

Polk Pkwy. (SR 570)

Clark Rd.

NOTES:

- 1) CENTERLINES DEPICTED ON PLAN ARE TAKEN DIRECTLY FROM FLORIDA HIGH SPEED RAIL CONTRACT FPID 190258-1-32-46, UNLESS OTHERWISE NOTED ANY ALIGNMENT MODIFICATIONS TO THIS APPROVED DOCUMENT WILL BE NOTED IN THE PLANS, INCLUDING PROPOSED HORIZONTAL GEOMETRY.
- 2) CENTERLINE CONSTRUCTION POLK PARKWAY (SR 570) TAKEN DIRECTLY FROM FDOT RIGHT OF WAY MAP STATE PROJECT NO 16390-2423.



| LEGEND: | |
|---------|---------------------------------|
| | EXIST. R/W |
| | EXIST. L/A R/W |
| | PROP. L/A R/W |
| | PARCEL LINES |
| | EXPRESS LANE |
| | EXPRESS LANE - BRIDGE |
| | GENERAL USE LANE |
| | GENERAL USE LANE - BRIDGE |
| | NON-INTERSTATE RDWY. AND BRIDGE |
| | NOISE SENSITIVE AREA RECEPTOR |
| | EXISTING NOISE BARRIER |
| | POTENTIAL NOISE BARRIER |
| | OUTDOOR ADVERTISING SIGN |

AERIAL FLOWN
DATE:
2013



| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| 400 | POLK | 431746-1-22-01 |

SR 400 (I-4)
CONCEPT PLANS - ULTIMATE

SHEET NO.
42

APPENDIX C

Validation Documentation

NOISE MEASUREMENT DATA SHEET

Measurements Taken By: Paola Pringle Date: 1/9/2015
 Time Study Started: 11:20 Time Study Ended: 12:08

Project Identification:
 Financial Project ID: 431746-3
 Project Location: I-4 Managed Lanes

Site Identification: Site 1 Parson @ I4
(dead end street) next to trailer park and
private school

Weather Conditions:
 Sky: Clear Partly Cloudy Cloudy Other
 Temperature 54.2°F Wind Speed 1.8 mph Wind Direction NW Humidity 68%

Equipment:
 Sound Level Meter:
 Type: Larson Davis 831 Serial Number(s): 1285
 Did you check the battery? Yes No
 Calibration Readings: Start 114.11 End 113.95
 Response Settings: Fast Slow
 Weighting: A Other
 Calibrator:
 Type: Larson Davis CAL 200 Serial Number: 5592
 Did you check the battery? Yes No

TRAFFIC DATA

| Roadway Identification | I-4 Westbound | | I-4 Eastbound | |
|------------------------|--------------------|-------------|--------------------|-------------|
| | Run 1-Run 2-Run 3 | | Run 1-Run 2-Run 3 | |
| Vehicle Type | Volume | Speed (mph) | Volume | Speed (mph) |
| Autos | 604-585-582 | 67-68-67 | 471-532-514 | 67-68-67 |
| Medium Trucks | 21-19-28 | 70-61-60 | 32-15-22 | 70-61-60 |
| Heavy Trucks | 65-49-71 | 60-64-63 | 55-52-42 | 60-64-60 |
| Buses | 1-13-1 | 70-61-60 | 1-0-0 | 70-0-0 |
| Motorcycles | 0-1-0 | 0-68-0 | 0-0-1 | 0-0-67 |
| Duration | 10 minutes per run | | 10 minutes per run | |

RESULTS [dB(A)]

L_{EQ} 78.8-78.8-79.0 L_{max} 86.0-83.5-85.0

Background Noise: Edger.
 Major Sources: I-4
 Unusual Events: Run 3: aircraft fly by.



NOISE MEASUREMENT DATA SHEET

Measurements Taken By: Paola Pringle Date: 1/9/2015
 Time Study Started: 1:35 PM Time Study Ended: 2:16 PM

Project Identification:

Financial Project ID: 431746-3
 Project Location: I-4 Managed Lanes

Site Identification: Site 2 East of Charlie Taylor Rd next to the cemetery, north side of the road

Weather Conditions:

Sky: Clear Partly Cloudy Cloudy Other
 Temperature 59.5°F Wind Speed 1.1 mph Wind Direction N Humidity 64%

Equipment:

Sound Level Meter:

Type: Larson Davis 831 Serial Number(s): 1285
 Did you check the battery? Yes No
 Calibration Readings: Start 114.11 End 113.95
 Response Settings: Fast Slow
 Weighting: A Other

Calibrator:

Type: Larson Davis CAL 200 Serial Number: 5592
 Did you check the battery? Yes No

TRAFFIC DATA

| Roadway Identification | I-4 Westbound | | I-4 Eastbound | |
|------------------------|--------------------|-------------------|--------------------|-------------------|
| | Run 1-Run 2-Run 3 | Run 1-Run 2-Run 3 | Run 1-Run 2-Run 3 | Run 1-Run 2-Run 3 |
| Vehicle Type | Volume | Speed (mph) | Volume | Speed (mph) |
| Autos | 522-519-577 | 68-62-64 | 552-535-523 | 68-62-64 |
| Medium Trucks | 28-41-22 | 61-60-66 | 26-22-23 | 61-60-66 |
| Heavy Trucks | 38-32-38 | 57-59-59 | 5-56-46 | 57-59-59 |
| Buses | 1-0-0 | 61-0-0 | 0-0-0 | 0-0-0 |
| Motorcycles | 1-3-2 | 68-62-64 | 0-1-0 | 0-62-0 |
| Duration | 10 minutes per run | | 10 minutes per run | |

RESULTS [dB(A)]

L_{EQ} 70.6-71.3-70.4 L_{max} 78.5-83.0-79.4

Background Noise: _____

Major Sources: I-4

Unusual Events: Run 2: man yelled from car.



APPENDIX D

Predicted Traffic Noise Levels at Individual Receptors



| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 1-1 | B | Residential | 2 | 1 | 61.8 | 61.9 | 63.0 | 1.2 | |
| 1-2 | B | Residential | 2 | 1 | 61.6 | 61.7 | 63.0 | 1.4 | |
| 1-3 | B | Residential | 2 | 1 | 60.1 | 60.2 | 61.5 | 1.4 | |
| 1-4 | B | Residential | 2 | 1 | 58.7 | 58.8 | 60.5 | 1.8 | |
| 1-5 | B | Residential | 2 | 1 | 58.2 | 58.2 | 60 | 1.8 | |
| 1-6 | B | Residential | 2 | 1 | 57.4 | 57.5 | 59.4 | 2.0 | |
| 1-7 | B | Residential | 2 | 1 | 56.7 | 56.8 | 59.1 | 2.4 | |
| 1-8 | B | Residential | 2 | 1 | 57.7 | 57.8 | 59.4 | 1.7 | |
| 1-9 | B | Residential | 2 | 1 | 58.5 | 58.5 | 60.2 | 1.7 | |
| 1-10 | B | Residential | 2 | 1 | 59.8 | 59.9 | 61.6 | 1.8 | |
| 1-11 | B | Residential | 2 | 1 | 59.6 | 59.7 | 61.6 | 2.0 | |
| 1-12 | B | Residential | 2 | 1 | 60.4 | 60.5 | 62.3 | 1.9 | |
| 1-13 | B | Residential | 2 | 1 | 61.2 | 61.3 | 63.0 | 1.8 | |
| 1-14 | B | Residential | 2 | 1 | 62.0 | 62.1 | 63.6 | 1.6 | |
| 1-15 | B | Residential | 1 | 1 | 61.8 | 61.8 | 63.9 | 2.1 | |
| 1-16 | B | Residential | 2 | 1 | 60.5 | 60.6 | 62.7 | 2.2 | |
| 1-17 | B | Residential | 2 | 1 | 59.5 | 59.6 | 61.7 | 2.2 | |
| 1-18 | B | Residential | 1 | 1 | 59.7 | 59.8 | 61.5 | 1.8 | |
| 1-19 | B | Residential | 1 | 1 | 60.3 | 60.4 | 62.6 | 2.3 | |
| 1-20 | B | Residential | 2 | 1 | 56.6 | 56.7 | 58.7 | 2.1 | |
| 1-21 | B | Residential | 1 | 1 | 59.9 | 60.0 | 61.4 | 1.5 | |
| 1-22 | B | Residential | 1 | 1 | 59.5 | 59.6 | 61.1 | 1.6 | |
| 1-23 | B | Residential | 1 | 1 | 59.5 | 59.6 | 61.1 | 1.6 | |
| 1-24 | B | Residential | 1 | 1 | 59.9 | 59.9 | 61.4 | 1.5 | |
| 1-25 | B | Residential | 1 | 1 | 59.9 | 60.0 | 61.4 | 1.5 | |
| 1-26 | B | Residential | 1 | 1 | 59.9 | 60.0 | 61.4 | 1.5 | |
| 1-27 | B | Residential | 1 | 1 | 61.8 | 61.9 | 63.2 | 1.4 | |
| 1-28 | B | Residential | 1 | 1 | 59.3 | 59.4 | 60.2 | 0.9 | |
| 1-29 | B | Residential | 2 | 1 | 58.9 | 59.0 | 60.1 | 1.2 | |
| 1-30 | B | Residential | 1 | 1 | 57.7 | 57.7 | 59.0 | 1.3 | |
| 1-31 | B | Residential | 1 | 1 | 57.4 | 57.5 | 58.6 | 1.2 | |
| 1-32 | B | Residential | 1 | 1 | 57.1 | 57.2 | 58.3 | 1.2 | |
| 1-33 | B | Residential | 1 | 1 | 56.7 | 56.8 | 58.0 | 1.3 | |
| 1-34 | B | Residential | 1 | 1 | 58.1 | 58.1 | 59.2 | 1.1 | |
| 1-35 | B | Residential | 2 | 1 | 58.8 | 58.9 | 59.8 | 1.0 | |
| 1-36 | B | Residential | 2 | 1 | 59.0 | 59.1 | 59.7 | 0.7 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 1-37 | B | Residential | 1 | 1 | 59.5 | 59.5 | 60.4 | 0.9 | |
| 1-38 | B | Residential | 1 | 1 | 59.1 | 59.2 | 58.8 | -0.3 | |
| 1-39 | D | Place of Worship (Interior) | 1 | 1 | 34.7 | 34.7 | 35.6 | 0.9 | |
| 1-40 | B | Residential | 1 | 1 | 58.3 | 58.3 | 60.0 | 1.7 | |
| 1-41 | B | Residential | 1 | 1 | 57.0 | 57.0 | 58.7 | 1.7 | |
| 1-42 | B | Residential | 1 | 1 | 58.0 | 58.1 | 59.3 | 1.3 | |
| 1-43 | B | Residential | 1 | 1 | 58.0 | 58.1 | 59.5 | 1.5 | |
| 1-44 | B | Residential | 1 | 1 | 59.1 | 59.2 | 60.0 | 0.9 | |
| 1-45 | B | Residential | 1 | 1 | 59.0 | 59.1 | 59.4 | 0.4 | |
| 1-46 | B | Residential | 1 | 1 | 59.0 | 59.0 | 60.0 | 1.0 | |
| 1-47 | B | Residential | 1 | 1 | 61.8 | 61.9 | 63.1 | 1.3 | |
| 1-48 | B | Residential | 1 | 1 | 60.0 | 60.1 | 61.6 | 1.6 | |
| 1-49 | B | Residential | 1 | 1 | 59.9 | 60.0 | 61.5 | 1.6 | |
| 1-50 | B | Residential | 1 | 1 | 60.9 | 60.9 | 62.2 | 1.3 | |
| 1-51 | B | Residential | 1 | 1 | 59.9 | 60.0 | 61.1 | 1.2 | |
| 1-52 | B | Residential | 1 | 1 | 59.3 | 59.3 | 60.4 | 1.1 | |
| 1-53 | B | Residential | 1 | 1 | 60.9 | 61.0 | 62.1 | 1.2 | |
| 1-54 | B | Residential | 1 | 1 | 58.7 | 58.8 | 60.1 | 1.4 | |
| 1-55 | B | Residential | 1 | 1 | 57.8 | 57.9 | 58.2 | 0.4 | |
| 1-56 | B | Residential | 1 | 1 | 57.5 | 57.6 | 57.8 | 0.3 | |
| 1-57 | B | Residential | 1 | 1 | 55.8 | 55.9 | 57.1 | 1.3 | |
| 1-58 | B | Residential | 1 | 1 | 56.3 | 56.4 | 57.6 | 1.3 | |
| 1-59 | B | Residential | 1 | 1 | 60.0 | 60.1 | 60.4 | 0.4 | |
| 1-60 | B | Residential | 1 | 1 | 61.7 | 61.7 | 59.7 | -2.0 | |
| 1-61 | B | Residential | 1 | 1 | 58.6 | 58.7 | 60 | 1.4 | |
| 1-62 | B | Residential | 1 | 1 | 60.0 | 60.1 | 61.3 | 1.3 | |
| 1-63 | B | Residential | 1 | 1 | 59.7 | 59.8 | 60.9 | 1.2 | |
| 1-64 | B | Residential | 1 | 1 | 60.9 | 61.0 | 62.3 | 1.4 | |
| 1-65 | B | Residential | 1 | 1 | 61.0 | 61.0 | 62.5 | 1.5 | |
| 1-66 | B | Residential | 1 | 1 | 61.2 | 61.3 | 62.2 | 1.0 | |
| 1-67 | B | Residential | 1 | 1 | 60.2 | 60.2 | 61.3 | 1.1 | |
| 1-68 | B | Residential | 1 | 1 | 60.8 | 60.9 | 62.2 | 1.4 | |
| 1-69 | B | Residential | 1 | 1 | 61.5 | 61.6 | 62.8 | 1.3 | |
| 1-70 | B | Residential | 1 | 1 | 62.6 | 62.7 | 59.9 | -2.7 | |
| 1-71 | B | Residential | 1 | 1 | 58.2 | 58.3 | 58.8 | 0.6 | |
| 1-72 | B | Residential | 1 | 1 | 56.6 | 56.7 | 58.2 | 1.6 | |
| 1-73 | B | Residential | 1 | 1 | 55.8 | 56.0 | 57.5 | 1.7 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 1-74 | B | Residential | 1 | 1 | 56.9 | 57.0 | 58.2 | 1.3 | |
| 1-75 | B | Residential | 1 | 1 | 56.4 | 56.5 | 57.7 | 1.3 | |
| 1-76 | B | Residential | 1 | 1 | 56.3 | 56.4 | 57.8 | 1.5 | |
| 1-77 | B | Residential | 1 | 1 | 60.8 | 60.8 | 62.0 | 1.2 | |
| 1-78 | B | Residential | 1 | 1 | 59.8 | 59.9 | 61.1 | 1.3 | |
| 1-79 | B | Residential | 1 | 1 | 58.1 | 58.2 | 59.4 | 1.3 | |
| 1-80 | B | Residential | 1 | 1 | 61.0 | 61.1 | 62.5 | 1.5 | |
| 1-81 | B | Residential | 1 | 1 | 61.3 | 61.3 | 62.6 | 1.3 | |
| 1-82 | B | Residential | 1 | 1 | 60.2 | 60.2 | 58.9 | -1.3 | |
| 1-83 | B | Residential | 1 | 1 | 63.4 | 63.5 | 65.2 | 1.8 | |
| 1-84 | B | Residential | 1 | 1 | 63.3 | 63.4 | 65.4 | 2.1 | |
| 1-85 | B | Residential | 1 | 1 | 62.9 | 63.0 | 65.2 | 2.3 | |
| 1-86 | B | Residential | 1 | 1 | 63.2 | 63.3 | 65.4 | 2.2 | |
| 1-87 | B | Residential | 1 | 1 | 62.9 | 63.0 | 65.0 | 2.1 | |
| 1-88 | B | Residential | 1 | 1,2 | 66.5 | 66.6 | 68.6 | 2.1 | Yes |
| 1-89 | B | Residential | 1 | 1,2 | 65.8 | 65.9 | 68.0 | 2.2 | Yes |
| 1-90 | B | Residential | 1 | 1 | 61.0 | 61.1 | 62.1 | 1.1 | |
| 1-91 | B | Residential | 1 | 1,2 | 65.6 | 65.7 | 67.7 | 2.1 | Yes |
| 1-92 | B | Residential | 1 | 1,2 | 64.8 | 64.9 | 67.0 | 2.2 | Yes |
| 1-93 | B | Residential | 1 | 1,2 | 63.6 | 63.7 | 65.7 | 2.1 | |
| 1-94 | B | Residential | 1 | 1,2 | 63.0 | 63.1 | 65.0 | 2.0 | |
| 1-95 | B | Residential | 1 | 1,2 | 62.4 | 62.5 | 64.5 | 2.1 | |
| 1-96 | B | Residential | 1 | 1,2 | 61.9 | 62.0 | 64.0 | 2.1 | |
| 1-97 | B | Residential | 1 | 1,2 | 59.8 | 59.9 | 61.8 | 2.0 | |
| 1-98 | B | Residential | 1 | 1,2 | 61.6 | 61.7 | 63.7 | 2.1 | |
| 1-99 | B | Residential | 1 | 1,2 | 61.8 | 61.9 | 64.1 | 2.3 | |
| 1-100 | B | Residential | 1 | 1 | 63.0 | 63.1 | 64.8 | 1.8 | |
| 1-101 | B | Residential | 1 | 1 | 64.3 | 64.4 | 66.2 | 1.9 | Yes |
| 1-102 | B | Residential | 1 | 1 | 58.0 | 58.1 | 60.3 | 2.3 | |
| 1-103 | B | Residential | 1 | 1 | 58.7 | 58.7 | 60.3 | 1.6 | |
| 1-104 | B | Residential | 2 | 1 | 57.1 | 57.2 | 58.9 | 1.8 | |
| 1-105 | B | Residential | 1 | 1 | 60.7 | 60.7 | 61.9 | 1.2 | |
| 1-106 | B | Residential | 1 | 1 | 60.2 | 60.3 | 60.7 | 0.5 | |
| 1-107 | B | Residential | 1 | 1 | 59.4 | 59.5 | 60.3 | 0.9 | |
| 1-108 | B | Residential | 1 | 1 | 58.7 | 58.8 | 59.8 | 1.1 | |
| 2-1 | E | Hotel | 1 | 2 | 68.5 | 68.9 | 70.5 | 2.0 | |
| 2-2 | E | Hotel | 1 | 3 | 66.2 | 66.2 | 66.8 | 0.6 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 3-1 | D | Place of Worship (Interior) | 1 | 3 | 53.8 | 53.8 | 54.4 | 0.6 | Yes |
| 3-2 | C | Place of Worship | 1 | 3 | 69.3 | 69.4 | 70.0 | 0.7 | Yes |
| 4-1 | B | Residential | 1 | 3 | 72.7 | 72.8 | 74.5 | 1.8 | Yes |
| 4-2 | B | Residential | 1 | 3 | 70.8 | 70.9 | 73.2 | 2.4 | Yes |
| 4-3 | B | Residential | 1 | 3 | 66.6 | 66.6 | 67.8 | 1.2 | Yes |
| 4-4 | B | Residential | 1 | 3 | 65.9 | 66.0 | 66.7 | 0.8 | Yes |
| 4-5 | B | Residential | 1 | 3 | 65.0 | 65.1 | 66.0 | 1.0 | Yes |
| 4-6 | B | Residential | 1 | 3 | 63.9 | 64.0 | 64.8 | 0.9 | |
| 4-7 | B | Residential | 1 | 3 | 63.0 | 63.0 | 63.7 | 0.7 | |
| 4-8 | B | Residential | 1 | 3 | 63.5 | 63.6 | 64.3 | 0.8 | |
| 4-9 | B | Residential | 1 | 3 | 63.0 | 63.1 | 63.6 | 0.6 | |
| 4-10 | B | Residential | 1 | 3 | 62.6 | 62.7 | 63.2 | 0.6 | |
| 4-11 | B | Residential | 1 | 3 | 64.0 | 64.1 | 65.3 | 1.3 | |
| 4-12 | B | Residential | 1 | 3 | 65.1 | 65.2 | 66.9 | 1.8 | Yes |
| 4-13 | B | Residential | 1 | 3 | 68.9 | 68.9 | 71.0 | 2.1 | Yes |
| 4-14 | B | Residential | 1 | 3 | 69.0 | 69.1 | 71.5 | 2.5 | Yes |
| 4-15 | B | Residential | 1 | 3 | 68.7 | 68.8 | 70.4 | 1.7 | Yes |
| 4-16 | B | Residential | 1 | 3 | 68.3 | 68.4 | 68.8 | 0.5 | Yes |
| 4-17 | B | Residential | 1 | 3 | 68.1 | 68.3 | 68.2 | 0.1 | Yes |
| 4-18 | B | Residential | 1 | 3 | 68.0 | 68.1 | 68.3 | 0.3 | Yes |
| 4-19 | B | Residential | 1 | 3 | 67.9 | 68.2 | 69.5 | 1.6 | Yes |
| 4-20 | B | Residential | 1 | 3 | 67.5 | 67.6 | 70.2 | 2.7 | Yes |
| 4-21 | B | Residential | 1 | 3 | 66.8 | 66.9 | 69.5 | 2.7 | Yes |
| 4-22 | B | Residential | 1 | 3 | 66.2 | 66.3 | 69.0 | 2.8 | Yes |
| 4-23 | B | Residential | 1 | 3 | 65.8 | 66.0 | 68.7 | 2.9 | Yes |
| 4-24 | B | Residential | 1 | 3 | 64.9 | 65.0 | 67.8 | 2.9 | Yes |
| 4-25 | B | Residential | 1 | 3 | 64.1 | 64.3 | 67.5 | 3.4 | Yes |
| 4-26 | B | Residential | 1 | 3 | 66.2 | 66.3 | 67.8 | 1.6 | Yes |
| 4-27 | B | Residential | 1 | 3 | 65.3 | 65.5 | 67.1 | 1.8 | Yes |
| 4-28 | B | Residential | 1 | 3 | 64.7 | 64.9 | 66.7 | 2.0 | Yes |
| 4-29 | B | Residential | 1 | 3 | 62.4 | 62.6 | 65.0 | 2.6 | |
| 4-30 | B | Residential | 1 | 3 | 62.0 | 62.2 | 64.5 | 2.5 | |
| 4-31 | B | Residential | 1 | 3 | 63.1 | 63.2 | 64.4 | 1.3 | |
| 4-32 | B | Residential | 1 | 3 | 62.5 | 62.6 | 63.7 | 1.2 | |
| 4-33 | B | Residential | 1 | 3 | 61.9 | 62.0 | 63.5 | 1.6 | |
| 4-34 | B | Residential | 1 | 3 | 61.2 | 61.4 | 62.9 | 1.7 | |
| 4-35 | B | Residential | 1 | 3 | 60.8 | 61.0 | 62.5 | 1.7 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 4-36 | B | Residential | 1 | 3 | 67.6 | 67.8 | 67.9 | 0.3 | Yes |
| 4-37 | B | Residential | 1 | 3 | 66.8 | 67.0 | 67.0 | 0.2 | Yes |
| 4-38 | B | Residential | 1 | 3,4 | 63.9 | 64.1 | 65.7 | 1.8 | |
| 4-39 | B | Residential | 1 | 3 | 65.8 | 66.0 | 66.5 | 0.7 | Yes |
| 4-40 | B | Residential | 1 | 3 | 64.6 | 64.8 | 66.2 | 1.6 | Yes |
| 4-41 | B | Residential | 1 | 3 | 63.7 | 63.9 | 65.7 | 2.0 | |
| 4-42 | B | Residential | 1 | 3 | 62.7 | 63.0 | 64.7 | 2.0 | |
| 4-43 | B | Residential | 1 | 3 | 62.0 | 62.3 | 64.4 | 2.4 | |
| 4-44 | B | Residential | 1 | 3 | 62.4 | 62.6 | 64.6 | 2.2 | |
| 4-45 | B | Residential | 1 | 3 | 61.1 | 61.3 | 63.7 | 2.6 | |
| 4-46 | B | Residential | 1 | 3 | 61.4 | 61.6 | 63.8 | 2.4 | |
| 4-47 | B | Residential | 1 | 3 | 64.6 | 64.9 | 66.1 | 1.5 | Yes |
| 4-48 | B | Residential | 1 | 3,4 | 62.7 | 62.9 | 64.8 | 2.1 | |
| 4-49 | B | Residential | 1 | 3 | 61.6 | 61.9 | 63.7 | 2.1 | |
| 4-50 | B | Residential | 1 | 3,4 | 60.2 | 60.5 | 62.4 | 2.2 | |
| 4-51 | B | Residential | 1 | 3 | 61.4 | 61.7 | 63.5 | 2.1 | |
| 5-1 | C | Park | 1 | 4 | 67.5 | 69.8 | 70.9 | 3.4 | Yes |
| 5-2 | C | Park | 1 | 4 | 67.3 | 69.7 | 70.6 | 3.3 | Yes |
| 5-3 | B | Residential | 1 | 4 | 66.2 | 67.3 | 67.4 | 1.2 | Yes |
| 5-4 | B | Residential | 1 | 4 | 65.3 | 66.3 | 66.4 | 1.1 | Yes |
| 5-5 | B | Residential | 1 | 4 | 64.5 | 65.2 | 65.7 | 1.2 | |
| 5-6 | B | Residential | 1 | 4 | 63.3 | 63.8 | 64.9 | 1.6 | |
| 5-7 | B | Residential | 1 | 4 | 67.6 | 68.7 | 69.2 | 1.6 | Yes |
| 5-8 | B | Residential | 1 | 4 | 67.7 | 68.8 | 69.2 | 1.5 | Yes |
| 5-9 | B | Residential | 1 | 4 | 67.6 | 68.9 | 69.1 | 1.5 | Yes |
| 5-10 | B | Residential | 1 | 4 | 66.8 | 68.2 | 68.3 | 1.5 | Yes |
| 5-11 | B | Residential | 1 | 4 | 66.4 | 67.8 | 67.8 | 1.4 | Yes |
| 5-12 | B | Residential | 1 | 4 | 65.1 | 66.3 | 66.5 | 1.4 | Yes |
| 5-13 | B | Residential | 1 | 4 | 64.3 | 65.1 | 65.3 | 1.0 | |
| 5-14 | B | Residential | 1 | 4 | 63.9 | 64.7 | 65.1 | 1.2 | |
| 5-15 | B | Residential | 1 | 4 | 63.7 | 64.5 | 65.1 | 1.4 | |
| 5-16 | B | Residential | 1 | 4 | 64.6 | 65.2 | 66.1 | 1.5 | Yes |
| 5-17 | B | Residential | 1 | 4 | 68.0 | 69.0 | 69.5 | 1.5 | Yes |
| 5-18 | B | Residential | 1 | 4 | 68.1 | 69.0 | 69.7 | 1.6 | Yes |
| 5-19 | B | Residential | 1 | 4 | 68.3 | 69.2 | 70.1 | 1.8 | Yes |
| 5-20 | B | Residential | 1 | 4 | 67.8 | 68.5 | 69.7 | 1.9 | Yes |
| 5-21 | B | Residential | 1 | 4 | 65.6 | 66.5 | 66.8 | 1.2 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 5-22 | B | Residential | 1 | 4 | 66.4 | 67.3 | 67.6 | 1.2 | Yes |
| 5-23 | B | Residential | 1 | 4 | 66.6 | 67.5 | 67.9 | 1.3 | Yes |
| 5-24 | B | Residential | 1 | 4 | 66.5 | 67.3 | 67.9 | 1.4 | Yes |
| 5-25 | B | Residential | 1 | 4 | 66.6 | 67.3 | 68.1 | 1.5 | Yes |
| 5-26 | B | Residential | 1 | 4 | 66.9 | 67.6 | 68.7 | 1.8 | Yes |
| 5-27 | B | Residential | 1 | 4 | 65.3 | 65.8 | 67.0 | 1.7 | Yes |
| 5-28 | B | Residential | 1 | 4 | 64.7 | 65.2 | 66.2 | 1.5 | Yes |
| 5-29 | B | Residential | 1 | 4 | 64.4 | 65.0 | 65.9 | 1.5 | |
| 5-30 | B | Residential | 1 | 4 | 64.4 | 65.0 | 66.0 | 1.6 | Yes |
| 5-31 | B | Residential | 1 | 4 | 65.9 | 66.6 | 67.6 | 1.7 | Yes |
| 5-32 | B | Residential | 1 | 4 | 65.1 | 65.8 | 66.7 | 1.6 | Yes |
| 5-33 | B | Residential | 1 | 4 | 68.2 | 68.8 | 69.7 | 1.5 | Yes |
| 5-34 | B | Residential | 1 | 4 | 66.4 | 66.9 | 67.8 | 1.4 | Yes |
| 5-35 | B | Residential | 1 | 4 | 64.0 | 64.7 | 65.6 | 1.6 | |
| 5-36 | B | Residential | 1 | 4 | 62.7 | 63.3 | 64.4 | 1.7 | |
| 5-37 | B | Residential | 1 | 4 | 61.0 | 61.7 | 62.9 | 1.9 | |
| 5-38 | B | Residential | 1 | 4 | 62.6 | 63.2 | 64.4 | 1.8 | |
| 5-39 | B | Residential | 1 | 4 | 62.5 | 63.1 | 64.1 | 1.6 | |
| 5-40 | B | Residential | 1 | 4 | 61.9 | 62.6 | 63.5 | 1.6 | |
| 5-41 | B | Residential | 1 | 4 | 62.9 | 63.6 | 64.4 | 1.5 | |
| 5-42 | B | Residential | 1 | 4 | 65.0 | 65.2 | 66.7 | 1.7 | Yes |
| 5-43 | B | Residential | 1 | 4 | 61.9 | 62.5 | 63.5 | 1.6 | |
| 5-44 | B | Residential | 1 | 4 | 62.3 | 62.9 | 64.1 | 1.8 | |
| 5-45 | B | Residential | 1 | 4 | 62.1 | 62.7 | 63.8 | 1.7 | |
| 6-1 | E | Hotel | 1 | 4 | 59.5 | 60.7 | 61.2 | 1.7 | |
| 7-1 | C | Amphitheater | 1 | 5 | 53.8 | 54.6 | 55.2 | 1.4 | |
| 8-1 | E | Restaurant (Exterior) | 1 | 6 | 68.3 | 68.4 | 68.6 | 0.3 | |
| 9-1 | B | Residential | 1 | 6 | 64.8 | 66.7 | 68.1 | 3.3 | Yes |
| 9-2 | B | Residential | 1 | 6 | 64.0 | 65.0 | 66.7 | 2.7 | Yes |
| 9-3 | B | Residential | 1 | 6,7 | 65.9 | 67.3 | 69.0 | 3.1 | Yes |
| 9-4 | B | Residential | 1 | 6,7 | 66.1 | 67.4 | 69.0 | 2.9 | Yes |
| 9-5 | B | Residential | 1 | 6,7 | 65.5 | 66.8 | 68.4 | 2.9 | Yes |
| 9-6 | B | Residential | 1 | 6,7 | 67.0 | 68.3 | 69.7 | 2.7 | Yes |
| 9-7 | B | Residential | 1 | 6 | 62.9 | 63.9 | 65.4 | 2.5 | |
| 9-8 | B | Residential | 1 | 6,7 | 64.3 | 65.6 | 67.2 | 2.9 | Yes |
| 9-9 | B | Residential | 1 | 6,7 | 63.5 | 64.6 | 66.2 | 2.7 | Yes |
| 10-1 | B | Residential | 1 | 6 | 71.4 | 72.3 | 73.2 | 1.8 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 10-2 | B | Residential | 1 | 6 | 66.6 | 67.3 | 68.1 | 1.5 | Yes |
| 10-3 | B | Residential | 1 | 6 | 66.4 | 67.0 | 67.8 | 1.4 | Yes |
| 10-4 | B | Residential | 1 | 6 | 67.2 | 67.9 | 68.8 | 1.6 | Yes |
| 10-5 | B | Residential | 1 | 6 | 66.5 | 67.2 | 68.0 | 1.5 | Yes |
| 11-1 | B | Residential | 1 | 7 | 68.0 | 68.7 | 69.6 | 1.6 | Yes |
| 11-2 | B | Residential | 1 | 7 | 67.6 | 68.4 | 69.2 | 1.6 | Yes |
| 11-3 | B | Residential | 1 | 7 | 67.1 | 67.9 | 68.7 | 1.6 | Yes |
| 11-4 | B | Residential | 1 | 7 | 66.7 | 67.5 | 68.5 | 1.8 | Yes |
| 11-5 | B | Residential | 1 | 7 | 66.3 | 67.1 | 68.1 | 1.8 | Yes |
| 11-6 | B | Residential | 1 | 7 | 65.1 | 65.8 | 66.6 | 1.5 | Yes |
| 11-7 | B | Residential | 1 | 7 | 63.7 | 64.5 | 65.4 | 1.7 | |
| 11-8 | B | Residential | 1 | 7 | 66.1 | 67.0 | 67.7 | 1.6 | Yes |
| 11-9 | B | Residential | 1 | 7 | 65.0 | 66.1 | 66.7 | 1.7 | Yes |
| 11-10 | B | Residential | 1 | 7 | 64.0 | 65.1 | 65.6 | 1.6 | |
| 11-11 | B | Residential | 1 | 7 | 63.5 | 64.8 | 65.4 | 1.9 | |
| 12-1 | B | Residential | 1 | 7 | 65.1 | 66.2 | 68.2 | 3.1 | Yes |
| 12-2 | B | Residential | 1 | 7 | 64.4 | 64.9 | 65.8 | 1.4 | |
| 12-3 | B | Residential | 1 | 7 | 65.9 | 66.8 | 67.7 | 1.8 | Yes |
| 12-4 | B | Residential | 1 | 7 | 66.1 | 67.2 | 67.7 | 1.6 | Yes |
| 12-5 | B | Residential | 1 | 7 | 70.7 | 72.1 | 72.6 | 1.9 | Yes |
| 12-6 | B | Residential | 1 | 7 | 71.8 | 73.3 | 73.7 | 1.9 | Yes |
| 12-7 | B | Residential | 1 | 7 | 71.9 | 73.3 | 73.6 | 1.7 | Yes |
| 12-8 | B | Residential | 1 | 7 | 70.0 | 71.4 | 71.9 | 1.9 | Yes |
| 12-9 | B | Residential | 1 | 8 | 75.1 | 76.3 | 74.1 | -1.0 | Yes |
| 12-10 | B | Residential | 1 | 8 | 70.7 | 72.2 | 72.7 | 2.0 | Yes |
| 12-11 | B | Residential | 1 | 7 | 66.4 | 67.5 | 68.8 | 2.4 | Yes |
| 12-12 | B | Residential | 1 | 7 | 66.5 | 67.2 | 68.5 | 2.0 | Yes |
| 12-13 | B | Residential | 1 | 8 | 66.3 | 67.5 | 68.6 | 2.3 | Yes |
| 12-14 | B | Residential | 1 | 8 | 68.9 | 70.5 | 71.1 | 2.2 | Yes |
| 12-15 | B | Residential | 1 | 8 | 67.7 | 68.4 | 69.5 | 1.8 | Yes |
| 12-16 | B | Residential | 1 | 7,8 | 63.9 | 64.4 | 66.2 | 2.3 | Yes |
| 12-17 | B | Residential | 1 | 8 | 64.1 | 64.8 | 66.6 | 2.5 | Yes |
| 12-18 | B | Residential | 1 | 8 | 67.8 | 67.8 | 67.5 | -0.3 | Yes |
| 12-19 | B | Residential | 1 | 8 | 63.2 | 64.6 | 65.4 | 2.2 | |
| 12-20 | B | Residential | 1 | 8 | 61.7 | 63.1 | 64.1 | 2.4 | |
| 12-21 | B | Residential | 1 | 8 | 62.4 | 63.7 | 64.2 | 1.8 | |
| 12-22 | B | Residential | 1 | 8 | 63.3 | 64.1 | 65.0 | 1.7 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 12-23 | B | Residential | 1 | 8 | 64.3 | 65.0 | 65.5 | 1.2 | |
| 12-24 | B | Residential | 1 | 8 | 63.5 | 64.3 | 65.2 | 1.7 | |
| 12-25 | B | Residential | 1 | 8 | 64.8 | 65.5 | 65.9 | 1.1 | |
| 12-26 | B | Residential | 1 | 8 | 75.5 | 77.6 | 78.8 | 3.3 | Yes |
| 12-27 | B | Residential | 1 | 9 | 68.9 | 70.1 | 71.1 | 2.2 | Yes |
| 12-28 | B | Residential | 1 | 9 | 66.7 | 68.4 | 68.8 | 2.1 | Yes |
| 12-29 | B | Residential | 1 | 9 | 66.5 | 67.9 | 68.5 | 2.0 | Yes |
| 12-30 | B | Residential | 1 | 9 | 66.5 | 67.6 | 68.4 | 1.9 | Yes |
| 12-31 | B | Residential | 1 | 9 | 64.9 | 65.6 | 66.7 | 1.8 | Yes |
| 12-32 | B | Residential | 1 | 9 | 63.9 | 64.5 | 65.0 | 1.1 | |
| 12-33 | B | Residential | 1 | 9 | 62.7 | 63.2 | 63.5 | 0.8 | |
| 13-1 | B | Residential | 1 | 8 | 65.3 | 65.6 | 66.8 | 1.5 | Yes |
| 13-2 | B | Residential | 1 | 8 | 65.4 | 65.7 | 67.0 | 1.6 | Yes |
| 13-3 | B | Residential | 1 | 8 | 65.2 | 65.5 | 67.8 | 2.6 | Yes |
| 13-4 | B | Residential | 1 | 8 | 65.8 | 66.0 | 68.1 | 2.3 | Yes |
| 13-5 | B | Residential | 1 | 8 | 65.2 | 65.5 | 67.6 | 2.4 | Yes |
| 13-6 | B | Residential | 1 | 8 | 65.1 | 65.4 | 67.4 | 2.3 | Yes |
| 13-7 | B | Residential | 1 | 8 | 62.8 | 63.1 | 64.9 | 2.1 | |
| 13-8 | B | Residential | 1 | 8 | 61.8 | 62.2 | 63.9 | 2.1 | |
| 13-9 | B | Residential | 1 | 8 | 62.0 | 62.4 | 64.2 | 2.2 | |
| 13-10 | B | Residential | 1 | 8 | 66.6 | 66.8 | 68.6 | 2.0 | Yes |
| 13-11 | D | Place of Worship (Interior) | 1 | 8 | 39.3 | 39.5 | 41.4 | 2.1 | |
| 13-12 | B | Residential | 1 | 8 | 73.9 | 74.0 | 75.9 | 2.0 | Yes |
| 13-13 | B | Residential | 1 | 8 | 67.4 | 67.7 | 70 | 2.6 | Yes |
| 13-14 | B | Residential | 1 | 8 | 62.8 | 63.0 | 64.6 | 1.8 | |
| 13-15 | B | Residential | 1 | 8 | 61.5 | 61.7 | 62.9 | 1.4 | |
| 13-16 | B | Residential | 1 | 8 | 64.3 | 64.6 | 66.7 | 2.4 | Yes |
| 13-17 | B | Residential | 1 | 8 | 62.6 | 62.8 | 64.8 | 2.2 | |
| 13-18 | B | Residential | 1 | 8 | 61.8 | 62.0 | 63.9 | 2.1 | |
| 13-19 | B | Residential | 1 | 8 | 60.7 | 61.0 | 62.7 | 2.0 | |
| 13-20 | B | Residential | 1 | 8 | 59.9 | 60.1 | 61.6 | 1.7 | |
| 13-21 | B | Residential | 1 | 8 | 62.6 | 62.8 | 63.8 | 1.2 | |
| 13-22 | B | Residential | 1 | 8 | 60.0 | 60.3 | 61.8 | 1.8 | |
| 13-23 | B | Residential | 1 | 8 | 61.1 | 61.4 | 62.5 | 1.4 | |
| 13-24 | B | Residential | 1 | 8 | 61.5 | 61.8 | 62.7 | 1.2 | |
| 13-25 | B | Residential | 1 | 8 | 62.1 | 62.4 | 63.2 | 1.1 | |
| 13-26 | B | Residential | 1 | 8,9 | 62.3 | 62.6 | 63.4 | 1.1 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 13-27 | B | Residential | 1 | 8 | 61.7 | 61.9 | 63.1 | 1.4 | |
| 13-28 | B | Residential | 1 | 8 | 61.9 | 62.1 | 63.1 | 1.2 | |
| 13-29 | B | Residential | 1 | 8 | 62.0 | 62.2 | 63.2 | 1.2 | |
| 13-30 | B | Residential | 1 | 8 | 62.2 | 62.4 | 63.3 | 1.1 | |
| 13-31 | B | Residential | 1 | 8 | 62.4 | 62.7 | 63.5 | 1.1 | |
| 13-32 | B | Residential | 1 | 8 | 61.3 | 61.5 | 62.3 | 1 | |
| 13-33 | B | Residential | 1 | 8 | 61.5 | 61.7 | 62.5 | 1 | |
| 14-1 | B | Residential | 1 | 10 | 63.8 | 64.3 | 65.0 | 1.2 | |
| 14-2 | B | Residential | 1 | 10 | 66.8 | 66.8 | 67.7 | 0.9 | Yes |
| 14-3 | B | Residential | 1 | 10 | 62.0 | 62.5 | 63.2 | 1.2 | |
| 14-4 | B | Residential | 1 | 10 | 63.5 | 63.5 | 64.4 | 0.9 | |
| 14-5 | B | Residential | 1 | 10 | 61.3 | 61.4 | 62.2 | 0.9 | |
| 14-6 | B | Residential | 1 | 10 | 60.1 | 60.1 | 61.3 | 1.2 | |
| 15-1 | C | Place of Worship | 1 | 10 | 70.7 | 70.7 | 70.9 | 0.2 | Yes |
| 15-2 | C | Place of Worship | 1 | 10 | 66.1 | 66.1 | 67.3 | 1.2 | Yes |
| 16-1 | B | Residential | 1 | 11 | 61.6 | 61.6 | 64.7 | 3.1 | |
| 17-1 | B | Residential | 1 | 11 | 67.7 | 67.7 | 68.1 | 0.4 | Yes |
| 17-2 | B | Residential | 1 | 11 | 68.5 | 68.5 | 69.0 | 0.5 | Yes |
| 17-3 | B | Residential | 1 | 11 | 68.0 | 68.0 | 68.6 | 0.6 | Yes |
| 17-4 | B | Residential | 1 | 11 | 67.7 | 67.7 | 68.0 | 0.3 | Yes |
| 17-5 | B | Residential | 1 | 11 | 66.7 | 66.7 | 69.0 | 2.3 | Yes |
| 17-6 | B | Residential | 1 | 11 | 67.2 | 67.2 | 68.9 | 1.7 | Yes |
| 17-7 | B | Residential | 1 | 11 | 67.8 | 67.8 | 69.6 | 1.8 | Yes |
| 17-8 | B | Residential | 1 | 11 | 69.1 | 69.1 | 70.4 | 1.3 | Yes |
| 17-9 | B | Residential | 1 | 11 | 66.1 | 66.1 | 69.3 | 3.2 | Yes |
| 17-10 | B | Residential | 1 | 11 | 68.4 | 68.4 | 70.6 | 2.2 | Yes |
| 17-11 | B | Residential | 1 | 11 | 64.3 | 64.4 | 65.9 | 1.6 | |
| 17-12 | B | Residential | 1 | 11 | 65.7 | 65.7 | 68.2 | 2.5 | Yes |
| 17-13 | B | Residential | 1 | 11 | 65.1 | 65.1 | 67.7 | 2.6 | Yes |
| 17-14 | B | Residential | 1 | 11 | 64.0 | 64.0 | 66.3 | 2.3 | Yes |
| 17-15 | B | Residential | 1 | 11 | 69.3 | 69.3 | 69.8 | 0.5 | Yes |
| 17-16 | B | Residential | 1 | 11 | 65.2 | 65.2 | 67.8 | 2.6 | Yes |
| 17-17 | B | Residential | 1 | 11 | 63.4 | 63.4 | 64.7 | 1.3 | |
| 17-18 | B | Residential | 1 | 11 | 64.1 | 64.1 | 65.8 | 1.7 | |
| 17-19 | B | Residential | 1 | 11 | 62.9 | 62.9 | 64.9 | 2.0 | |
| 18-1 | E | Hotel | 1 | 12 | 61.9 | 62.0 | 64.9 | 3.0 | |
| 19-1 | C | School | 1 | 12 | 77.3 | 77.4 | 77.5 | 0.2 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 19-2 | C | School | 1 | 13 | 64.0 | 64.0 | 65.2 | 1.2 | |
| 20-1 | B | Residential | 1 | 13 | 71.7 | 71.7 | 74.0 | 2.3 | Yes |
| 20-2 | B | Residential | 1 | 13 | 65.1 | 65.1 | 67.3 | 2.2 | Yes |
| 20-3 | B | Residential | 1 | 13 | 61.0 | 61.0 | 62.9 | 1.9 | |
| 21-1 | B | Residential | 1 | 14 | 65.6 | 65.6 | 67.9 | 2.3 | Yes |
| 21-2 | B | Residential | 1 | 14 | 75.6 | 75.6 | 77.1 | 1.5 | Yes |
| 21-3 | B | Residential | 1 | 14 | 76.0 | 76.0 | 77.7 | 1.7 | Yes |
| 21-4 | B | Residential | 1 | 14 | 75.4 | 75.4 | 77.0 | 1.6 | Yes |
| 21-5 | B | Residential | 1 | 14 | 75.3 | 75.3 | 76.9 | 1.6 | Yes |
| 21-6 | B | Residential | 1 | 14 | 75.4 | 75.4 | 76.9 | 1.5 | Yes |
| 21-7 | B | Residential | 1 | 14 | 75.4 | 75.4 | 76.6 | 1.2 | Yes |
| 21-8 | B | Residential | 1 | 14 | 75.2 | 75.2 | 76.8 | 1.6 | Yes |
| 21-9 | B | Residential | 1 | 14 | 75.2 | 75.2 | 76.8 | 1.6 | Yes |
| 21-10 | B | Residential | 1 | 14 | 74.5 | 74.5 | 76.2 | 1.7 | Yes |
| 21-11 | B | Residential | 1 | 14 | 70.9 | 70.9 | 73.1 | 2.2 | Yes |
| 21-12 | B | Residential | 1 | 14 | 70.7 | 70.7 | 72.9 | 2.2 | Yes |
| 21-13 | B | Residential | 1 | 14 | 70.4 | 70.4 | 72.6 | 2.2 | Yes |
| 21-14 | B | Residential | 1 | 14 | 70.8 | 70.8 | 72.7 | 1.9 | Yes |
| 21-15 | B | Residential | 1 | 14 | 71.5 | 71.5 | 72.8 | 1.3 | Yes |
| 21-16 | B | Residential | 1 | 14 | 71.5 | 71.5 | 72.8 | 1.3 | Yes |
| 21-17 | B | Residential | 1 | 14 | 70.5 | 70.5 | 72.0 | 1.5 | Yes |
| 21-18 | B | Residential | 1 | 14 | 70.0 | 70.0 | 71.6 | 1.6 | Yes |
| 21-19 | B | Residential | 1 | 14 | 69.4 | 69.4 | 71.0 | 1.6 | Yes |
| 21-20 | B | Residential | 1 | 14 | 68.5 | 68.5 | 70.2 | 1.7 | Yes |
| 21-21 | B | Residential | 1 | 14 | 73.5 | 73.5 | 75.4 | 1.9 | Yes |
| 21-22 | B | Residential | 1 | 14 | 63.1 | 63.1 | 65.7 | 2.6 | |
| 21-23 | B | Residential | 1 | 14 | 75.8 | 75.8 | 77.6 | 1.8 | Yes |
| 21-24 | B | Residential | 1 | 14 | 73.3 | 73.3 | 75.9 | 2.6 | Yes |
| 21-25 | B | Residential | 1 | 14 | 73.0 | 73.0 | 75.7 | 2.7 | Yes |
| 21-26 | B | Residential | 1 | 14 | 71.1 | 71.1 | 73.1 | 2.0 | Yes |
| 21-27 | B | Residential | 1 | 14 | 71.1 | 71.1 | 73.7 | 2.6 | Yes |
| 21-28 | B | Residential | 1 | 14 | 67.2 | 67.2 | 69.5 | 2.3 | Yes |
| 21-29 | B | Residential | 1 | 14 | 66.5 | 66.5 | 68.6 | 2.1 | Yes |
| 21-30 | B | Residential | 1 | 14 | 62.5 | 62.5 | 64.7 | 2.2 | |
| 21-31 | B | Residential | 1 | 14 | 67.0 | 67.0 | 69.8 | 2.8 | Yes |
| 21-32 | B | Residential | 1 | 14 | 71.4 | 71.4 | 73.8 | 2.4 | Yes |
| 21-33 | B | Residential | 1 | 14 | 64.5 | 64.5 | 67.2 | 2.7 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 21-34 | B | Residential | 1 | 14 | 73.7 | 73.7 | 75.7 | 2.0 | Yes |
| 21-35 | B | Residential | 1 | 14 | 65.7 | 65.7 | 68.0 | 2.3 | Yes |
| 21-36 | B | Residential | 1 | 14 | 63.8 | 63.8 | 66.2 | 2.4 | Yes |
| 21-37 | B | Residential | 1 | 14 | 67.7 | 67.7 | 70.7 | 3.0 | Yes |
| 21-38 | B | Residential | 1 | 14 | 64.0 | 64.0 | 65.7 | 1.7 | |
| 21-39 | B | Residential | 1 | 14 | 62.3 | 62.3 | 64.2 | 1.9 | |
| 21-40 | B | Residential | 1 | 14 | 61.3 | 61.3 | 62.9 | 1.6 | |
| 21-41 | B | Residential | 1 | 14 | 62.1 | 62.1 | 63.5 | 1.4 | |
| 21-42 | B | Residential | 1 | 14 | 60.6 | 60.6 | 62.7 | 2.1 | |
| 21-43 | B | Residential | 1 | 14 | 61.0 | 61.0 | 63.3 | 2.3 | |
| 21-44 | B | Residential | 1 | 14 | 60.3 | 60.3 | 63.2 | 2.9 | |
| 22-1 | B | Residential | 1 | 14 | 61.7 | 61.7 | 64.8 | 3.1 | |
| 22-2 | B | Residential | 1 | 14 | 64.6 | 64.6 | 64.1 | -0.5 | |
| 22-3 | B | Residential | 1 | 14 | 65.7 | 65.7 | 66.7 | 1.0 | Yes |
| 22-4 | B | Residential | 1 | 14 | 65.8 | 65.8 | 66.7 | 0.9 | Yes |
| 22-5 | B | Residential | 1 | 14 | 62.4 | 62.4 | 62.9 | 0.5 | |
| 22-6 | B | Residential | 1 | 14 | 64.0 | 64.0 | 65.0 | 1 | |
| 22-7 | B | Residential | 1 | 14 | 64.3 | 64.3 | 65.5 | 1.2 | |
| 22-8 | B | Residential | 1 | 14 | 65.4 | 65.4 | 66.5 | 1.1 | Yes |
| 22-9 | B | Residential | 1 | 14 | 62.1 | 62.1 | 64.2 | 2.1 | |
| 22-10 | B | Residential | 1 | 14 | 63.8 | 63.8 | 66.4 | 2.6 | Yes |
| 22-11 | B | Residential | 1 | 15 | 63.0 | 63.0 | 65.0 | 2.0 | |
| 22-12 | B | Residential | 1 | 15 | 60.5 | 60.5 | 62.6 | 2.1 | |
| 22-13 | B | Residential | 1 | 15 | 66.7 | 66.7 | 68.0 | 1.3 | Yes |
| 22-14 | B | Residential | 1 | 15 | 66.3 | 66.3 | 67.2 | 0.9 | Yes |
| 22-15 | B | Residential | 1 | 15 | 70.4 | 70.4 | 71.1 | 0.7 | Yes |
| 22-16 | B | Residential | 1 | 15 | 69.7 | 69.7 | 70.8 | 1.1 | Yes |
| 22-17 | B | Residential | 1 | 15 | 70.2 | 70.2 | 70.5 | 0.3 | Yes |
| 22-18 | B | Residential | 1 | 15 | 63.9 | 63.9 | 65.8 | 1.9 | |
| 22-19 | B | Residential | 1 | 15 | 63.8 | 63.8 | 65.2 | 1.4 | |
| 22-20 | B | Residential | 1 | 15 | 59.0 | 59.0 | 60.7 | 1.7 | |
| 23-1 | C | Recreational Area | 1 | 15 | 62.8 | 62.9 | 65 | 2.2 | |
| 24-1 | B | Residential | 1 | 15 | 64.0 | 64.0 | 65.7 | 1.7 | |
| 24-2 | B | Residential | 1 | 15 | 70.2 | 70.2 | 72.1 | 1.9 | Yes |
| 24-3 | B | Residential | 1 | 15 | 73.7 | 73.7 | 75.5 | 1.8 | Yes |
| 24-4 | B | Residential | 1 | 15 | 65.4 | 65.4 | 64.5 | -0.9 | |
| 24-5 | B | Residential | 1 | 15 | 67.9 | 67.9 | 66.5 | -1.4 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 24-6 | B | Residential | 1 | 15 | 61.3 | 61.3 | 61.6 | 0.3 | |
| 24-7 | B | Residential | 1 | 15 | 64.9 | 64.9 | 63.4 | -1.5 | |
| 24-8 | B | Residential | 1 | 15 | 60.7 | 60.7 | 60.8 | 0.1 | |
| 24-9 | B | Residential | 1 | 15 | 59.9 | 59.9 | 59.7 | -0.2 | |
| 24-10 | B | Residential | 1 | 15 | 60.0 | 60.0 | 59.8 | -0.2 | |
| 24-11 | B | Residential | 1 | 15 | 76.4 | 76.4 | 76.8 | 0.4 | Yes |
| 24-12 | B | Residential | 1 | 15 | 69.2 | 69.2 | 70.0 | 0.8 | Yes |
| 24-13 | B | Residential | 1 | 15 | 64.3 | 64.3 | 63.8 | -0.5 | |
| 24-14 | B | Residential | 1 | 15 | 64.2 | 64.2 | 63.1 | -1.1 | |
| 24-15 | B | Residential | 1 | 15 | 63.8 | 63.8 | 63.5 | -0.3 | |
| 24-16 | B | Residential | 1 | 15 | 62.5 | 62.5 | 60.5 | -2.0 | |
| 24-17 | B | Residential | 1 | 15,16 | 63.8 | 63.8 | 63.4 | -0.4 | |
| 24-18 | B | Residential | 1 | 15,16 | 64.8 | 64.8 | 65.1 | 0.3 | |
| 24-19 | B | Residential | 1 | 16 | 65.9 | 65.9 | 66.7 | 0.8 | Yes |
| 24-20 | B | Residential | 1 | 16 | 67.6 | 67.6 | 68.6 | 1.0 | Yes |
| 24-21 | B | Residential | 1 | 16 | 67.4 | 67.4 | 68.4 | 1.0 | Yes |
| 24-22 | B | Residential | 1 | 16 | 69.6 | 69.6 | 70.7 | 1.1 | Yes |
| 24-23 | B | Residential | 1 | 16 | 71.4 | 71.4 | 72.7 | 1.3 | Yes |
| 24-24 | B | Residential | 1 | 16 | 68.1 | 68.1 | 69.3 | 1.2 | Yes |
| 24-25 | B | Residential | 1 | 16 | 68.4 | 68.4 | 69.6 | 1.2 | Yes |
| 24-26 | B | Residential | 1 | 16 | 68.9 | 68.9 | 70.1 | 1.2 | Yes |
| 24-27 | B | Residential | 1 | 16 | 69.4 | 69.4 | 70.5 | 1.1 | Yes |
| 24-28 | B | Residential | 1 | 16 | 69.8 | 69.8 | 70.9 | 1.1 | Yes |
| 24-29 | B | Residential | 1 | 16 | 70.7 | 70.7 | 72.0 | 1.3 | Yes |
| 24-30 | B | Residential | 1 | 16 | 67.5 | 67.5 | 68.6 | 1.1 | Yes |
| 24-31 | B | Residential | 1 | 16 | 69.7 | 69.7 | 71.4 | 1.7 | Yes |
| 24-32 | B | Residential | 1 | 16 | 65.8 | 65.8 | 67.9 | 2.1 | Yes |
| 24-33 | B | Residential | 1 | 16 | 63.4 | 63.4 | 65.3 | 1.9 | |
| 24-34 | B | Residential | 1 | 16 | 61.7 | 61.7 | 63.3 | 1.6 | |
| 24-35 | B | Residential | 1 | 16 | 63.2 | 63.2 | 62.8 | -0.4 | |
| 24-36 | B | Residential | 1 | 16 | 64.2 | 64.2 | 64.1 | -0.1 | |
| 24-37 | B | Residential | 1 | 16 | 65.0 | 65.0 | 66.2 | 1.2 | Yes |
| 24-38 | B | Residential | 1 | 16 | 65.9 | 65.9 | 67.2 | 1.3 | Yes |
| 24-39 | B | Residential | 1 | 16 | 66.1 | 66.1 | 67.4 | 1.3 | Yes |
| 24-40 | B | Residential | 1 | 16 | 66.3 | 66.3 | 67.6 | 1.3 | Yes |
| 24-41 | B | Residential | 1 | 16 | 66.5 | 66.5 | 67.9 | 1.4 | Yes |
| 24-42 | B | Residential | 1 | 16 | 66.8 | 66.8 | 67.9 | 1.1 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 24-43 | B | Residential | 1 | 16 | 65.1 | 65.1 | 61.2 | -3.9 | |
| 24-44 | B | Residential | 1 | 16 | 63.6 | 63.6 | 59.3 | -4.3 | |
| 24-45 | B | Residential | 1 | 16 | 63.7 | 63.7 | 60.1 | -3.6 | |
| 24-46 | B | Residential | 1 | 16 | 62.9 | 62.9 | 60.0 | -2.9 | |
| 24-47 | B | Residential | 1 | 16 | 60.5 | 60.5 | 61.6 | 1.1 | |
| 24-48 | B | Residential | 1 | 16 | 62.5 | 62.5 | 58.7 | -3.8 | |
| 24-49 | B | Residential | 1 | 16 | 61.5 | 61.5 | 57.2 | -4.3 | |
| 24-50 | B | Residential | 1 | 15,16 | 62.6 | 62.6 | 61.9 | -0.7 | |
| 24-51 | B | Residential | 1 | 16 | 60.3 | 60.3 | 59.7 | -0.6 | |
| 25-1 | B | Residential | 1 | 18 | 62.0 | 62.0 | 64.6 | 2.6 | |
| 25-2 | B | Residential | 1 | 18 | 64.2 | 64.2 | 66.9 | 2.7 | Yes |
| 25-3 | B | Residential | 1 | 18 | 62.0 | 62.0 | 64.5 | 2.5 | |
| 25-4 | B | Residential | 1 | 18 | 65.6 | 65.6 | 67.7 | 2.1 | Yes |
| 25-5 | B | Residential | 1 | 18 | 63.0 | 63.0 | 63.9 | 0.9 | |
| 25-6 | B | Residential | 1 | 18 | 64.0 | 64.1 | 64.2 | 0.2 | |
| 25-7 | B | Residential | 1 | 19 | 61.8 | 62.0 | 63.1 | 1.3 | |
| 26-1 | B | Residential | 1 | 20 | 72.4 | 72.4 | 74.1 | 1.7 | Yes |
| 26-2 | B | Residential | 1 | 20 | 72.7 | 72.8 | 72.0 | -0.7 | Yes |
| 26-3 | B | Residential | 1 | 20 | 64.0 | 64.1 | 66.5 | 2.5 | Yes |
| 26-4 | B | Residential | 1 | 20 | 67.4 | 67.5 | 69.3 | 1.9 | Yes |
| 26-5 | B | Residential | 1 | 20 | 67.7 | 67.7 | 69.5 | 1.8 | Yes |
| 26-6 | B | Residential | 1 | 20 | 68.1 | 68.1 | 69.9 | 1.8 | Yes |
| 26-7 | B | Residential | 1 | 20 | 69.3 | 69.3 | 71.0 | 1.7 | Yes |
| 26-8 | B | Residential | 1 | 20 | 67.6 | 67.6 | 69.1 | 1.5 | Yes |
| 26-9 | B | Residential | 1 | 20 | 68.6 | 68.6 | 69.9 | 1.3 | Yes |
| 26-10 | B | Residential | 1 | 20 | 62.7 | 62.7 | 64.7 | 2.0 | |
| 26-11 | B | Residential | 1 | 20 | 64.5 | 64.5 | 67.0 | 2.5 | Yes |
| 26-12 | B | Residential | 1 | 20 | 64.5 | 64.5 | 67.2 | 2.7 | Yes |
| 26-13 | B | Residential | 1 | 20 | 58.9 | 58.9 | 61.2 | 2.3 | |
| 26-14 | B | Residential | 1 | 20 | 59.9 | 59.9 | 62.0 | 2.1 | |
| 27-1 | C | School | 1 | 20 | 65.7 | 65.7 | 68.7 | 3.0 | Yes |
| 27-2 | C | School | 1 | 20 | 74.0 | 74.0 | 75.8 | 1.8 | Yes |
| 27-3 | C | School | 1 | 20 | 73.7 | 73.7 | 74.8 | 1.1 | Yes |
| 27-4 | C | School | 1 | 20 | 66.0 | 66.1 | 67.8 | 1.8 | Yes |
| 28-1 | B | Residential | 1 | 20 | 63.2 | 63.2 | 64.8 | 1.6 | |
| 28-2 | B | Residential | 1 | 20 | 62.6 | 62.6 | 63.9 | 1.3 | |
| 28-3 | B | Residential | 1 | 21 | 64.2 | 64.2 | 66.5 | 2.3 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 29-1 | B | Residential | 1 | 22 | 70.1 | 70.1 | 72.7 | 2.6 | Yes |
| 29-2 | B | Residential | 1 | 22 | 64.6 | 64.6 | 67.3 | 2.7 | Yes |
| 29-3 | B | Residential | 1 | 22 | 59.4 | 59.4 | 61.4 | 2.0 | |
| 30-1 | B | Residential | 1 | 22 | 65.8 | 65.8 | 68.0 | 2.2 | Yes |
| 30-2 | B | Residential | 1 | 22 | 64.2 | 64.2 | 68.3 | 4.1 | Yes |
| 30-3 | B | Residential | 1 | 22 | 61.2 | 61.2 | 63.4 | 2.2 | |
| 31-1 | B | Residential | 1 | 23 | 59.8 | 59.8 | 61.9 | 2.1 | |
| 31-2 | B | Residential | 1 | 23 | 68.9 | 68.9 | 71.1 | 2.2 | Yes |
| 31-3 | B | Residential | 1 | 23 | 61.7 | 61.7 | 64.2 | 2.5 | |
| 31-4 | B | Residential | 1 | 23 | 61.8 | 61.8 | 63.7 | 1.9 | |
| 31-5 | B | Residential | 1 | 23 | 60.3 | 60.3 | 62.0 | 1.7 | |
| 31-6 | B | Residential | 1 | 24 | 61.2 | 61.2 | 62.9 | 1.7 | |
| 31-7 | B | Residential | 1 | 24 | 70.7 | 70.7 | 73.1 | 2.4 | Yes |
| 31-8 | B | Residential | 1 | 24 | 67.0 | 67.0 | 69.1 | 2.1 | Yes |
| 31-9 | B | Residential | 1 | 24 | 65.6 | 65.6 | 68 | 2.4 | Yes |
| 31-10 | B | Residential | 1 | 24 | 63.2 | 63.2 | 65.3 | 2.1 | |
| 31-11 | B | Residential | 1 | 24 | 63.7 | 63.8 | 65.5 | 1.8 | |
| 31-12 | B | Residential | 1 | 24 | 63.0 | 63.0 | 64.9 | 1.9 | |
| 31-13 | B | Residential | 1 | 24 | 62.5 | 62.5 | 64.7 | 2.2 | |
| 31-14 | B | Residential | 1 | 24 | 61.7 | 61.8 | 64.2 | 2.5 | |
| 31-15 | B | Residential | 1 | 24 | 61.7 | 61.7 | 64.2 | 2.5 | |
| 31-16 | B | Residential | 1 | 24 | 62.0 | 62.0 | 64.3 | 2.3 | |
| 31-17 | B | Residential | 1 | 24 | 62.4 | 62.5 | 64.8 | 2.4 | |
| 31-18 | B | Residential | 1 | 25 | 71.7 | 71.7 | 72.7 | 1.0 | Yes |
| 31-19 | B | Residential | 1 | 25 | 65.5 | 65.8 | 68.0 | 2.5 | Yes |
| 31-20 | B | Residential | 1 | 25 | 65.6 | 65.7 | 67.7 | 2.1 | Yes |
| 31-21 | B | Residential | 1 | 25 | 65.1 | 65.3 | 67.2 | 2.1 | Yes |
| 31-22 | B | Residential | 1 | 25 | 65.4 | 65.6 | 67.3 | 1.9 | Yes |
| 31-23 | B | Residential | 1 | 25 | 67.1 | 67.2 | 67.8 | 0.7 | Yes |
| 31-24 | B | Residential | 1 | 25 | 65.2 | 65.4 | 66.9 | 1.7 | Yes |
| 31-25 | B | Residential | 1 | 25 | 64.6 | 64.7 | 66.4 | 1.8 | Yes |
| 31-26 | B | Residential | 1 | 25 | 64.5 | 64.6 | 66.0 | 1.5 | Yes |
| 31-27 | B | Residential | 1 | 25 | 64.6 | 64.7 | 66.4 | 1.8 | Yes |
| 31-28 | B | Residential | 1 | 25 | 65.1 | 65.2 | 66.2 | 1.1 | Yes |
| 31-29 | B | Residential | 1 | 25 | 64.8 | 64.9 | 65.8 | 1 | |
| 31-30 | B | Residential | 1 | 25 | 65.0 | 65.1 | 66.5 | 1.5 | Yes |
| 31-31 | B | Residential | 1 | 25 | 64.4 | 64.5 | 65.8 | 1.4 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 31-32 | B | Residential | 1 | 25 | 64.0 | 64.1 | 65.6 | 1.6 | |
| 31-33 | B | Residential | 1 | 25 | 64.0 | 64.1 | 65.5 | 1.5 | |
| 31-34 | B | Residential | 1 | 25 | 64.2 | 64.3 | 65.7 | 1.5 | |
| 31-35 | B | Residential | 1 | 25 | 64.5 | 64.6 | 66.0 | 1.5 | Yes |
| 31-36 | B | Residential | 1 | 25 | 64.1 | 64.2 | 65.4 | 1.3 | |
| 31-37 | B | Residential | 1 | 25 | 64.2 | 64.3 | 65.4 | 1.2 | |
| 32-1 | B | Residential | 1 | 23 | 68.8 | 68.8 | 71.3 | 2.5 | Yes |
| 32-2 | B | Residential | 1 | 24 | 67.8 | 67.8 | 70.3 | 2.5 | Yes |
| 32-3 | B | Residential | 1 | 24 | 66.2 | 66.2 | 68.7 | 2.5 | Yes |
| 32-4 | B | Residential | 1 | 24 | 66.9 | 66.9 | 68.6 | 1.7 | Yes |
| 32-5 | B | Residential | 1 | 24 | 66.8 | 66.8 | 68.9 | 2.1 | Yes |
| 32-6 | B | Residential | 1 | 24 | 67.5 | 67.5 | 69.3 | 1.8 | Yes |
| 32-7 | B | Residential | 1 | 24 | 68.4 | 68.4 | 69.9 | 1.5 | Yes |
| 32-8 | B | Residential | 1 | 24 | 67.5 | 67.5 | 69.8 | 2.3 | Yes |
| 32-9 | B | Residential | 1 | 24 | 67.0 | 67.0 | 69.1 | 2.1 | Yes |
| 32-10 | B | Residential | 1 | 23 | 61.1 | 61.1 | 64.0 | 2.9 | |
| 32-11 | B | Residential | 1 | 24 | 61.7 | 61.7 | 64.2 | 2.5 | |
| 32-12 | B | Residential | 1 | 24 | 61.3 | 61.3 | 64.1 | 2.8 | |
| 32-13 | B | Residential | 1 | 24 | 61.2 | 61.2 | 64.3 | 3.1 | |
| 33-1 | E | Other Activity (Dinosaur World) | 1 | 25 | 64.9 | 65.1 | 66.3 | 1.4 | |
| 34-1 | B | Residential | 1 | 26 | 71.4 | 71.4 | 71.5 | 0.1 | Yes |
| 34-2 | B | Residential | 1 | 26 | 67.5 | 67.5 | 69.4 | 1.9 | Yes |
| 34-3 | B | Residential | 1 | 26 | 62.9 | 62.9 | 66.1 | 3.2 | Yes |
| 35-1 | B | Residential | 1 | 26 | 77.6 | 77.6 | 76.7 | -0.9 | Yes |
| 35-2 | B | Residential | 1 | 26 | 70.7 | 70.7 | 72.9 | 2.2 | Yes |
| 35-3 | B | Residential | 1 | 26 | 68.8 | 68.8 | 71.0 | 2.2 | Yes |
| 35-4 | B | Residential | 1 | 26 | 65.1 | 65.1 | 67.1 | 2 | Yes |
| 35-5 | B | Residential | 1 | 26 | 74.5 | 74.5 | 76.0 | 1.5 | Yes |
| 35-6 | B | Residential | 1 | 26 | 67.6 | 67.6 | 69.1 | 1.5 | Yes |
| 35-7 | B | Residential | 1 | 26 | 66.7 | 66.7 | 67.3 | 0.6 | Yes |
| 35-8 | B | Residential | 1 | 26 | 69.3 | 69.3 | 70.8 | 1.5 | Yes |
| 35-9 | B | Residential | 1 | 26 | 66.5 | 66.5 | 68.9 | 2.4 | Yes |
| 35-10 | B | Residential | 1 | 26 | 67.1 | 67.1 | 68.8 | 1.7 | Yes |
| 35-11 | B | Residential | 1 | 26 | 75.1 | 75.1 | 76.6 | 1.5 | Yes |
| 35-12 | B | Residential | 1 | 26,27 | 74.0 | 74.0 | 75.8 | 1.8 | Yes |
| 35-13 | B | Residential | 1 | 26 | 72.4 | 72.4 | 73.7 | 1.3 | Yes |
| 35-14 | B | Residential | 1 | 26,27 | 66.5 | 66.5 | 67.6 | 1.1 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 35-15 | B | Residential | 1 | 26 | 62.4 | 62.4 | 62.9 | 0.5 | |
| 35-16 | B | Residential | 1 | 27 | 69.6 | 69.6 | 70.3 | 0.7 | Yes |
| 35-17 | B | Residential | 1 | 27 | 66.7 | 66.7 | 67.8 | 1.1 | Yes |
| 35-18 | B | Residential | 1 | 27 | 67.8 | 67.8 | 68.6 | 0.8 | Yes |
| 35-19 | B | Residential | 1 | 27 | 65.0 | 65.0 | 66.4 | 1.4 | Yes |
| 35-20 | B | Residential | 1 | 27 | 66.3 | 66.3 | 68.0 | 1.7 | Yes |
| 35-21 | B | Residential | 1 | 28 | 65.7 | 65.7 | 67.3 | 1.6 | Yes |
| 35-22 | B | Residential | 1 | 28 | 63.6 | 63.6 | 65.7 | 2.1 | |
| 35-23 | B | Residential | 1 | 28 | 68.7 | 68.7 | 71.8 | 3.1 | Yes |
| 35-24 | B | Residential | 1 | 28 | 68.3 | 68.3 | 71.8 | 3.5 | Yes |
| 35-25 | B | Residential | 1 | 28 | 68.3 | 68.3 | 71.2 | 2.9 | Yes |
| 35-26 | B | Residential | 1 | 28 | 71.3 | 71.3 | 73.9 | 2.6 | Yes |
| 35-27 | B | Residential | 1 | 28 | 73.5 | 73.5 | 75.8 | 2.3 | Yes |
| 35-28 | B | Residential | 1 | 28 | 70.6 | 70.6 | 73.2 | 2.6 | Yes |
| 35-29 | B | Residential | 1 | 28 | 66.6 | 66.6 | 69.4 | 2.8 | Yes |
| 35-30 | B | Residential | 1 | 28 | 63.6 | 63.6 | 65.7 | 2.1 | |
| 35-31 | B | Residential | 1 | 28 | 64.3 | 64.3 | 67.0 | 2.7 | Yes |
| 35-32 | B | Residential | 1 | 28 | 64.9 | 64.9 | 67.8 | 2.9 | Yes |
| 35-33 | B | Residential | 1 | 28 | 65.3 | 65.3 | 68.3 | 3.0 | Yes |
| 35-34 | B | Residential | 1 | 28 | 64.6 | 64.6 | 67.6 | 3.0 | Yes |
| 35-35 | B | Residential | 1 | 28 | 64.2 | 64.2 | 67.6 | 3.4 | Yes |
| 35-36 | B | Residential | 1 | 28 | 64.1 | 64.1 | 67.7 | 3.6 | Yes |
| 35-37 | B | Residential | 1 | 28 | 72.7 | 72.8 | 77.3 | 4.6 | Yes |
| 35-38 | B | Residential | 1 | 28 | 75.5 | 75.6 | 79.7 | 4.2 | Yes |
| 35-39 | B | Residential | 1 | 28 | 67.1 | 67.2 | 69 | 1.9 | Yes |
| 35-40 | B | Residential | 1 | 28 | 69.8 | 70.0 | 71.6 | 1.8 | Yes |
| 35-41 | B | Residential | 1 | 28 | 69.7 | 69.7 | 71.9 | 2.2 | Yes |
| 35-42 | B | Residential | 1 | 28 | 66.5 | 66.6 | 69.4 | 2.9 | Yes |
| 35-43 | B | Residential | 1 | 28 | 67.3 | 67.4 | 69.3 | 2 | Yes |
| 35-44 | B | Residential | 1 | 28 | 66.7 | 66.8 | 68.4 | 1.7 | Yes |
| 35-45 | B | Residential | 1 | 28 | 65.5 | 65.5 | 67.5 | 2 | Yes |
| 35-46 | B | Residential | 1 | 28 | 65.1 | 65.1 | 66.3 | 1.2 | Yes |
| 35-47 | B | Residential | 1 | 28,29 | 65.0 | 65.0 | 66.1 | 1.1 | Yes |
| 35-48 | B | Residential | 1 | 28 | 64.3 | 64.4 | 66.9 | 2.6 | Yes |
| 35-49 | B | Residential | 1 | 28 | 64.2 | 64.2 | 66.9 | 2.7 | Yes |
| 35-50 | B | Residential | 1 | 28 | 64.5 | 64.6 | 66.8 | 2.3 | Yes |
| 36-1 | D | Place of Worship (Interior) | 1 | 27 | 47.0 | 47.0 | 48.4 | 1.4 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 37-1 | B | Residential | 1 | 27 | 69.9 | 69.9 | 70.9 | 1.0 | Yes |
| 37-2 | B | Residential | 1 | 27 | 68.7 | 68.7 | 69.7 | 1.0 | Yes |
| 37-3 | B | Residential | 1 | 27 | 68.3 | 68.3 | 70.5 | 2.2 | Yes |
| 37-4 | B | Residential | 1 | 27 | 67.9 | 67.9 | 70.2 | 2.3 | Yes |
| 37-5 | B | Residential | 1 | 27 | 66.4 | 66.4 | 68.6 | 2.2 | Yes |
| 37-6 | B | Residential | 1 | 27 | 69.1 | 69.1 | 70.5 | 1.4 | Yes |
| 37-7 | B | Residential | 1 | 27,28 | 61.7 | 61.8 | 63.6 | 1.9 | |
| 37-8 | B | Residential | 1 | 28 | 63.1 | 63.1 | 66.4 | 3.3 | Yes |
| 37-9 | B | Residential | 1 | 27 | 68.1 | 68.1 | 69.6 | 1.5 | Yes |
| 37-10 | B | Residential | 1 | 27 | 69.8 | 69.8 | 71.3 | 1.5 | Yes |
| 37-11 | B | Residential | 1 | 27 | 71.7 | 71.7 | 72.9 | 1.2 | Yes |
| 37-12 | B | Residential | 1 | 27 | 68.9 | 68.9 | 70.5 | 1.6 | Yes |
| 37-13 | B | Residential | 1 | 27 | 68.2 | 68.2 | 69.7 | 1.5 | Yes |
| 37-14 | B | Residential | 1 | 28 | 70.2 | 70.3 | 72.0 | 1.8 | Yes |
| 37-15 | B | Residential | 1 | 28 | 69.7 | 69.8 | 71.5 | 1.8 | Yes |
| 37-16 | B | Residential | 1 | 27 | 65.5 | 65.5 | 67.2 | 1.7 | Yes |
| 37-17 | B | Residential | 1 | 28 | 68.2 | 68.2 | 71.0 | 2.8 | Yes |
| 37-18 | B | Residential | 1 | 27 | 69.3 | 69.3 | 70.6 | 1.3 | Yes |
| 37-19 | B | Residential | 1 | 27,28 | 65.8 | 65.8 | 67.8 | 2.0 | Yes |
| 37-20 | B | Residential | 1 | 28 | 67.1 | 67.1 | 68.9 | 1.8 | Yes |
| 37-21 | B | Residential | 1 | 28 | 66.5 | 66.5 | 68.4 | 1.9 | Yes |
| 37-22 | B | Residential | 1 | 28 | 66.9 | 66.9 | 68.7 | 1.8 | Yes |
| 37-23 | B | Residential | 1 | 28 | 78.0 | 78.0 | 79.1 | 1.1 | Yes |
| 37-24 | B | Residential | 1 | 28 | 69.3 | 69.3 | 70.8 | 1.5 | Yes |
| 37-25 | B | Residential | 1 | 28 | 67.2 | 67.2 | 68.7 | 1.5 | Yes |
| 37-26 | B | Residential | 1 | 28 | 66.4 | 66.4 | 67.8 | 1.4 | Yes |
| 37-27 | B | Residential | 1 | 28 | 66.9 | 66.9 | 68.1 | 1.2 | Yes |
| 37-28 | B | Residential | 1 | 28 | 66.5 | 66.5 | 68.6 | 2.1 | Yes |
| 37-29 | B | Residential | 1 | 28 | 75.1 | 75.1 | 76.1 | 1.0 | Yes |
| 37-30 | B | Residential | 1 | 28 | 67.7 | 67.7 | 69.8 | 2.1 | Yes |
| 37-31 | B | Residential | 2 | 28 | 74.8 | 74.8 | 76.9 | 2.1 | Yes |
| 37-32 | B | Residential | 1 | 28 | 64.9 | 64.9 | 66.9 | 2.0 | Yes |
| 37-33 | B | Residential | 1 | 28 | 65.0 | 65.0 | 67.5 | 2.5 | Yes |
| 37-34 | B | Residential | 1 | 28 | 68.3 | 68.4 | 70.9 | 2.6 | Yes |
| 37-35 | B | Residential | 1 | 28 | 75.0 | 75.0 | 75.8 | 0.8 | Yes |
| 37-36 | B | Residential | 1 | 28 | 71.0 | 71.1 | 71.8 | 0.8 | Yes |
| 37-37 | B | Residential | 1 | 28 | 68.4 | 68.4 | 70.3 | 1.9 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 37-38 | B | Residential | 1 | 28 | 65.1 | 65.1 | 66.5 | 1.4 | Yes |
| 37-39 | B | Residential | 1 | 28 | 66.1 | 66.2 | 67.5 | 1.4 | Yes |
| 37-40 | B | Residential | 1 | 29 | 68.4 | 68.5 | 70.5 | 2.1 | Yes |
| 37-41 | B | Residential | 1 | 29 | 67.8 | 67.9 | 70.7 | 2.9 | Yes |
| 37-42 | B | Residential | 1 | 29 | 66.1 | 66.1 | 69 | 2.9 | Yes |
| 38-1 | E | Restaurant (Exterior) | 1 | 29 | 63.9 | 63.9 | 65.3 | 1.4 | |
| 39-1 | B | Residential | 1 | 30 | 62.0 | 62.0 | 63.5 | 1.5 | |
| 39-2 | B | Residential | 1 | 30 | 52.9 | 52.9 | 54.4 | 1.5 | |
| 39-3 | B | Residential | 1 | 30 | 52.2 | 52.2 | 53.7 | 1.5 | |
| 39-4 | B | Residential | 1 | 30 | 52.1 | 52.1 | 53.6 | 1.5 | |
| 39-5 | B | Residential | 1 | 30 | 52.2 | 52.3 | 53.6 | 1.4 | |
| 39-6 | B | Residential | 1 | 30 | 52.2 | 52.2 | 53.6 | 1.4 | |
| 39-7 | B | Residential | 1 | 30 | 51.8 | 51.9 | 53.3 | 1.5 | |
| 39-8 | B | Residential | 1 | 30 | 51.7 | 51.8 | 53.2 | 1.5 | |
| 39-9 | B | Residential | 1 | 30 | 52.2 | 52.3 | 53.6 | 1.4 | |
| 39-10 | B | Residential | 1 | 30 | 53.0 | 53.1 | 54.3 | 1.3 | |
| 39-11 | B | Residential | 1 | 30 | 53.9 | 53.9 | 55.2 | 1.3 | |
| 39-12 | B | Residential | 1 | 30 | 53.9 | 53.9 | 55.2 | 1.3 | |
| 39-13 | B | Residential | 1 | 30 | 53.8 | 53.8 | 55.0 | 1.2 | |
| 39-14 | B | Residential | 1 | 30 | 53.5 | 53.5 | 54.8 | 1.3 | |
| 39-15 | B | Residential | 1 | 30 | 54.0 | 54.0 | 55.4 | 1.4 | |
| 39-16 | B | Residential | 1 | 30 | 54.1 | 54.2 | 55.5 | 1.4 | |
| 39-17 | B | Residential | 1 | 30 | 54.8 | 54.9 | 56.2 | 1.4 | |
| 39-18 | B | Residential | 1 | 30 | 55.9 | 55.9 | 57.2 | 1.3 | |
| 39-19 | B | Residential | 1 | 30 | 49.0 | 49.0 | 50.3 | 1.3 | |
| 39-20 | B | Residential | 1 | 30 | 48.4 | 48.4 | 49.7 | 1.3 | |
| 39-21 | B | Residential | 1 | 30 | 48.2 | 48.2 | 49.4 | 1.2 | |
| 39-22 | B | Residential | 1 | 30 | 48.2 | 48.2 | 49.5 | 1.3 | |
| 39-23 | B | Residential | 1 | 30 | 48.3 | 48.3 | 49.5 | 1.2 | |
| 39-24 | B | Residential | 1 | 30 | 48.2 | 48.2 | 49.5 | 1.3 | |
| 39-25 | B | Residential | 1 | 30 | 48.9 | 48.9 | 50.1 | 1.2 | |
| 39-26 | B | Residential | 1 | 30 | 50.3 | 50.3 | 51.8 | 1.5 | |
| 39-27 | B | Residential | 1 | 30 | 52.1 | 52.2 | 53.5 | 1.4 | |
| 39-28 | B | Residential | 1 | 30 | 52.2 | 52.2 | 53.5 | 1.3 | |
| 39-29 | B | Residential | 1 | 30 | 52.0 | 52.1 | 52.8 | 0.8 | |
| 39-30 | B | Residential | 1 | 30 | 51.5 | 51.6 | 52.8 | 1.3 | |
| 39-31 | B | Residential | 1 | 30 | 51.7 | 51.7 | 53.1 | 1.4 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 39-32 | B | Residential | 1 | 30 | 52.2 | 52.2 | 53.5 | 1.3 | |
| 39-33 | B | Residential | 1 | 30 | 52.2 | 52.3 | 53.6 | 1.4 | |
| 39-34 | B | Residential | 1 | 30 | 53.1 | 53.2 | 54.5 | 1.4 | |
| 39-35 | B | Residential | 1 | 30 | 53.1 | 53.1 | 54.4 | 1.3 | |
| 39-36 | B | Residential | 1 | 30 | 52.7 | 52.7 | 54 | 1.3 | |
| 39-37 | B | Residential | 1 | 30 | 51.5 | 51.5 | 52.9 | 1.4 | |
| 39-38 | B | Residential | 1 | 30 | 52.2 | 52.3 | 53.6 | 1.4 | |
| 39-39 | B | Residential | 1 | 30 | 52.6 | 52.6 | 53.9 | 1.3 | |
| 39-40 | B | Residential | 1 | 30 | 53.0 | 53.0 | 54.3 | 1.3 | |
| 39-41 | B | Residential | 1 | 30 | 51.9 | 51.9 | 53.2 | 1.3 | |
| 39-42 | B | Residential | 1 | 30 | 52.7 | 52.7 | 53.9 | 1.2 | |
| 39-43 | B | Residential | 1 | 30 | 53.0 | 53.0 | 54.3 | 1.3 | |
| 39-44 | B | Residential | 1 | 30 | 53.1 | 53.1 | 54.4 | 1.3 | |
| 39-45 | B | Residential | 1 | 30 | 53.3 | 53.3 | 54.6 | 1.3 | |
| 39-46 | B | Residential | 1 | 30 | 53.3 | 53.4 | 54.6 | 1.3 | |
| 39-47 | B | Residential | 1 | 30 | 52.9 | 52.9 | 54.2 | 1.3 | |
| 39-48 | B | Residential | 1 | 30 | 53.1 | 53.2 | 54.4 | 1.3 | |
| 39-49 | B | Residential | 1 | 30 | 53.4 | 53.4 | 54.7 | 1.3 | |
| 39-50 | B | Residential | 1 | 30 | 53.1 | 53.1 | 54.3 | 1.2 | |
| 39-51 | B | Residential | 1 | 30 | 53.3 | 53.4 | 54.6 | 1.3 | |
| 39-52 | B | Residential | 1 | 30 | 53.4 | 53.5 | 54.6 | 1.2 | |
| 39-53 | B | Residential | 1 | 30 | 53.2 | 53.3 | 54.4 | 1.2 | |
| 39-54 | B | Residential | 1 | 30 | 53.1 | 53.1 | 54.3 | 1.2 | |
| 39-55 | B | Residential | 1 | 30 | 52.8 | 52.9 | 54.1 | 1.3 | |
| 39-56 | B | Residential | 1 | 30 | 52.6 | 52.6 | 53.8 | 1.2 | |
| 39-57 | B | Residential | 1 | 30 | 53.3 | 53.4 | 54.6 | 1.3 | |
| 39-58 | B | Residential | 1 | 30 | 53.4 | 53.5 | 54.7 | 1.3 | |
| 39-59 | B | Residential | 1 | 30 | 53.4 | 53.5 | 54.7 | 1.3 | |
| 39-60 | B | Residential | 1 | 30 | 53.2 | 53.2 | 54.5 | 1.3 | |
| 40-1 | B | Residential | 1 | 30 | 62.6 | 62.6 | 66.6 | 4.0 | Yes |
| 40-2 | B | Residential | 1 | 30 | 66.1 | 66.1 | 69.3 | 3.2 | Yes |
| 40-3 | B | Residential | 1 | 30 | 61.8 | 61.8 | 65.9 | 4.1 | |
| 41-1 | B | Residential | 1 | 31 | 68.5 | 68.6 | 70.0 | 1.5 | Yes |
| 41-2 | B | Residential | 1 | 31 | 70.4 | 70.4 | 71.2 | 0.8 | Yes |
| 41-3 | B | Residential | 1 | 31 | 67.3 | 67.4 | 69.1 | 1.8 | Yes |
| 41-4 | B | Residential | 1 | 31 | 66.9 | 67.0 | 68.8 | 1.9 | Yes |
| 41-5 | B | Residential | 1 | 31 | 71.0 | 71.0 | 71.6 | 0.6 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 41-6 | B | Residential | 1 | 31 | 69.5 | 69.6 | 71.4 | 1.9 | Yes |
| 41-7 | B | Residential | 1 | 31 | 68.6 | 68.8 | 70.7 | 2.1 | Yes |
| 41-8 | B | Residential | 1 | 31 | 67.7 | 68.0 | 70.5 | 2.8 | Yes |
| 41-9 | B | Residential | 1 | 31 | 69.2 | 70.6 | 72.2 | 3.0 | Yes |
| 41-10 | B | Residential | 1 | 31 | 68.0 | 68.3 | 70.1 | 2.1 | Yes |
| 41-11 | B | Residential | 1 | 31 | 67.5 | 67.6 | 69.6 | 2.1 | Yes |
| 41-12 | B | Residential | 1 | 31 | 66.8 | 66.9 | 68.8 | 2.0 | Yes |
| 41-13 | B | Residential | 1 | 31 | 66.0 | 66.1 | 68.1 | 2.1 | Yes |
| 41-14 | B | Residential | 1 | 31 | 66.6 | 66.8 | 68.8 | 2.2 | Yes |
| 41-15 | B | Residential | 1 | 31 | 68.0 | 68.2 | 70.1 | 2.1 | Yes |
| 41-16 | B | Residential | 1 | 31 | 67.0 | 67.3 | 69.3 | 2.3 | Yes |
| 41-17 | B | Residential | 1 | 31 | 66.1 | 66.3 | 68.1 | 2.0 | Yes |
| 41-18 | B | Residential | 1 | 31 | 65.8 | 66.0 | 67.8 | 2.0 | Yes |
| 41-19 | B | Residential | 1 | 31 | 65.3 | 65.4 | 67.3 | 2.0 | Yes |
| 41-20 | B | Residential | 1 | 31 | 66.4 | 66.5 | 68.6 | 2.2 | Yes |
| 41-21 | B | Residential | 1 | 31 | 66.5 | 66.7 | 69.0 | 2.5 | Yes |
| 41-22 | B | Residential | 1 | 31 | 65.3 | 65.4 | 67.1 | 1.8 | Yes |
| 41-23 | B | Residential | 1 | 31 | 65.9 | 66.0 | 67.9 | 2.0 | Yes |
| 41-24 | B | Residential | 1 | 31 | 66.7 | 66.9 | 69.2 | 2.5 | Yes |
| 41-25 | B | Residential | 1 | 31 | 67.1 | 67.5 | 69.9 | 2.8 | Yes |
| 41-26 | B | Residential | 1 | 31 | 66.1 | 66.2 | 68.0 | 1.9 | Yes |
| 41-27 | B | Residential | 1 | 31,32 | 66.9 | 67.0 | 68.7 | 1.8 | Yes |
| 41-28 | B | Residential | 1 | 32 | 66.0 | 66.2 | 68.4 | 2.4 | Yes |
| 41-29 | B | Residential | 1 | 31,32 | 64.8 | 64.9 | 66.9 | 2.1 | Yes |
| 41-30 | B | Residential | 1 | 31 | 65.7 | 65.8 | 67.6 | 1.9 | Yes |
| 41-31 | B | Residential | 1 | 31 | 64.2 | 64.3 | 66.2 | 2.0 | Yes |
| 41-32 | B | Residential | 1 | 32 | 66.4 | 66.5 | 68.4 | 2.0 | Yes |
| 41-33 | B | Residential | 1 | 32 | 65.0 | 65.1 | 67.1 | 2.1 | Yes |
| 41-34 | B | Residential | 1 | 32 | 64.3 | 64.4 | 66.4 | 2.1 | Yes |
| 41-35 | B | Residential | 1 | 32 | 63.5 | 63.7 | 65.6 | 2.1 | |
| 41-36 | B | Residential | 1 | 31 | 65.5 | 65.6 | 67.8 | 2.3 | Yes |
| 41-37 | B | Residential | 1 | 31 | 63.8 | 63.9 | 66.0 | 2.2 | Yes |
| 41-38 | B | Residential | 1 | 31 | 63.7 | 63.8 | 65.9 | 2.2 | |
| 41-39 | B | Residential | 1 | 31 | 68.1 | 68.3 | 70.1 | 2.0 | Yes |
| 41-40 | B | Residential | 1 | 31 | 67.2 | 67.7 | 69.9 | 2.7 | Yes |
| 41-41 | B | Residential | 1 | 31 | 67.1 | 67.5 | 69.9 | 2.8 | Yes |
| 41-42 | B | Residential | 1 | 31,32 | 67.2 | 67.5 | 69.8 | 2.6 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 41-43 | B | Residential | 1 | 31 | 66.4 | 66.7 | 69.1 | 2.7 | Yes |
| 41-44 | B | Residential | 1 | 31 | 67.1 | 67.2 | 69.1 | 2.0 | Yes |
| 41-45 | B | Residential | 1 | 31 | 66.1 | 66.3 | 67.9 | 1.8 | Yes |
| 41-46 | B | Residential | 1 | 31 | 66.2 | 66.4 | 68.4 | 2.2 | Yes |
| 41-47 | B | Residential | 1 | 31 | 65.1 | 65.2 | 67.1 | 2.0 | Yes |
| 41-48 | B | Residential | 1 | 31 | 64.3 | 64.4 | 66.2 | 1.9 | Yes |
| 41-49 | B | Residential | 1 | 32 | 64.6 | 64.7 | 66.7 | 2.1 | Yes |
| 41-50 | B | Residential | 1 | 32 | 65.1 | 65.2 | 67.2 | 2.1 | Yes |
| 41-51 | B | Residential | 1 | 31 | 65.7 | 65.8 | 67.9 | 2.2 | Yes |
| 41-52 | B | Residential | 1 | 31 | 65.5 | 65.5 | 67.8 | 2.3 | Yes |
| 42-1 | E | Hotel | 1 | 32 | 50.1 | 50.4 | 52.1 | 2.0 | |
| 43-1 | C | Cemetery | 1 | 32 | 67.1 | 67.6 | 72.1 | 5.0 | Yes |
| 44-1 | E | Hotel | 1 | 32 | 61.7 | 61.9 | 64.4 | 2.7 | |
| 45-1 | B | Residential | 1 | 33 | 67.7 | 67.7 | 72.2 | 4.5 | Yes |
| 45-2 | B | Residential | 1 | 33 | 66.7 | 66.7 | 71.3 | 4.6 | Yes |
| 45-3 | B | Residential | 1 | 33 | 66.1 | 66.1 | 71.2 | 5.1 | Yes |
| 45-4 | B | Residential | 1 | 33 | 65.7 | 65.7 | 71.3 | 5.6 | Yes |
| 45-5 | B | Residential | 1 | 33 | 64.8 | 64.8 | 69.5 | 4.7 | Yes |
| 45-6 | B | Residential | 1 | 33 | 64.3 | 64.4 | 69.7 | 5.4 | Yes |
| 45-7 | B | Residential | 1 | 33 | 63.9 | 63.9 | 69.7 | 5.8 | Yes |
| 45-8 | B | Residential | 1 | 33 | 63.4 | 63.4 | 69.4 | 6.0 | Yes |
| 45-9 | B | Residential | 1 | 33 | 65.4 | 65.4 | 70.1 | 4.7 | Yes |
| 45-10 | B | Residential | 1 | 33 | 67.4 | 67.4 | 71.4 | 4.0 | Yes |
| 45-11 | B | Residential | 1 | 33 | 69.8 | 69.8 | 74.4 | 4.6 | Yes |
| 45-12 | B | Residential | 1 | 33 | 69.7 | 69.7 | 73.9 | 4.2 | Yes |
| 45-13 | B | Residential | 1 | 33 | 71.1 | 71.1 | 77.2 | 6.1 | Yes |
| 45-14 | B | Residential | 1 | 33 | 68.3 | 68.3 | 74.7 | 6.4 | Yes |
| 45-15 | B | Residential | 1 | 33 | 66.2 | 66.2 | 72.0 | 5.8 | Yes |
| 45-16 | B | Residential | 1 | 33 | 68.1 | 68.1 | 74.3 | 6.2 | Yes |
| 45-17 | B | Residential | 1 | 33 | 66.3 | 66.3 | 72.2 | 5.9 | Yes |
| 45-18 | B | Residential | 1 | 33 | 61.2 | 61.2 | 66.0 | 4.8 | Yes |
| 45-19 | B | Residential | 1 | 33 | 60.9 | 61.0 | 66.1 | 5.2 | Yes |
| 45-20 | B | Residential | 1 | 33 | 57.0 | 57.0 | 61.7 | 4.7 | |
| 45-21 | B | Residential | 1 | 33 | 53.1 | 53.2 | 55.5 | 2.4 | |
| 45-22 | B | Residential | 1 | 33 | 52.3 | 52.3 | 54.7 | 2.4 | |
| 45-23 | B | Residential | 1 | 33 | 53.2 | 53.2 | 56.9 | 3.7 | |
| 45-24 | B | Residential | 1 | 33 | 59.9 | 59.9 | 64.7 | 4.8 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 45-25 | B | Residential | 1 | 33 | 59.3 | 59.3 | 64.1 | 4.8 | |
| 45-26 | B | Residential | 1 | 33 | 64.0 | 64.0 | 69.1 | 5.1 | Yes |
| 45-27 | B | Residential | 1 | 33 | 64.0 | 64.0 | 69.3 | 5.3 | Yes |
| 45-28 | B | Residential | 1 | 33 | 63.8 | 63.8 | 69 | 5.2 | Yes |
| 45-29 | B | Residential | 1 | 33 | 63.7 | 63.7 | 69.1 | 5.4 | Yes |
| 45-30 | B | Residential | 1 | 33 | 63.4 | 63.4 | 68.9 | 5.5 | Yes |
| 45-31 | B | Residential | 1 | 33 | 64.6 | 64.6 | 69.5 | 4.9 | Yes |
| 45-32 | B | Residential | 1 | 33 | 64.3 | 64.3 | 69.2 | 4.9 | Yes |
| 45-33 | B | Residential | 1 | 33 | 59.7 | 59.7 | 63.8 | 4.1 | |
| 45-34 | B | Residential | 1 | 33 | 60.6 | 60.6 | 64.9 | 4.3 | |
| 45-35 | B | Residential | 1 | 33 | 60.9 | 60.9 | 65.3 | 4.4 | |
| 45-36 | B | Residential | 1 | 33 | 70.6 | 70.6 | 77.0 | 6.4 | Yes |
| 45-37 | B | Residential | 1 | 33 | 67.9 | 67.9 | 73.4 | 5.5 | Yes |
| 45-38 | B | Residential | 1 | 33 | 66.4 | 66.4 | 71.5 | 5.1 | Yes |
| 45-39 | B | Residential | 1 | 33 | 66.3 | 66.3 | 71.3 | 5.0 | Yes |
| 45-40 | B | Residential | 1 | 33 | 65.4 | 65.4 | 69.8 | 4.4 | Yes |
| 45-41 | B | Residential | 1 | 33 | 63.8 | 63.8 | 68.7 | 4.9 | Yes |
| 45-42 | B | Residential | 1 | 33 | 64.2 | 64.2 | 69.1 | 4.9 | Yes |
| 45-43 | B | Residential | 1 | 33 | 63.8 | 63.9 | 68.8 | 5.0 | Yes |
| 45-44 | B | Residential | 1 | 33 | 63.9 | 64.0 | 68.9 | 5.0 | Yes |
| 45-45 | B | Residential | 1 | 33 | 64.0 | 64.0 | 68.8 | 4.8 | Yes |
| 45-46 | B | Residential | 1 | 33 | 64.3 | 64.3 | 69.0 | 4.7 | Yes |
| 45-47 | B | Residential | 1 | 33 | 61.3 | 61.3 | 65.7 | 4.4 | |
| 45-48 | B | Residential | 1 | 33 | 60.1 | 60.1 | 64.4 | 4.3 | |
| 45-49 | B | Residential | 1 | 33 | 60.1 | 60.1 | 64.2 | 4.1 | |
| 45-50 | B | Residential | 1 | 33 | 71.2 | 71.2 | 77.3 | 6.1 | Yes |
| 45-51 | B | Residential | 1 | 33 | 68.1 | 68.1 | 72.9 | 4.8 | Yes |
| 45-52 | B | Residential | 1 | 33 | 71.4 | 71.4 | 77.4 | 6.0 | Yes |
| 45-53 | B | Residential | 1 | 34 | 65.7 | 65.8 | 69.2 | 3.5 | Yes |
| 45-54 | B | Residential | 1 | 34 | 70.3 | 70.3 | 74.2 | 3.9 | Yes |
| 46-1 | B | Residential | 1 | 33 | 64.6 | 64.6 | 69.2 | 4.6 | Yes |
| 47-1 | B | Residential | 1 | 34 | 64.5 | 64.6 | 69.1 | 4.6 | Yes |
| 47-2 | B | Residential | 1 | 34 | 67.4 | 67.5 | 69.6 | 2.2 | Yes |
| 47-3 | B | Residential | 1 | 34 | 63.8 | 63.9 | 67.3 | 3.5 | Yes |
| 48-1 | D | Place of Worship (Interior) | 1 | 34 | 43.4 | 43.5 | 45.1 | 1.7 | |
| 49-1 | E | Hotel | 1 | 35 | 63.2 | 63.3 | 64.6 | 1.4 | |
| 50-1 | B | Residential | 1 | 35 | 66.0 | 66.3 | 67.8 | 1.8 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 50-2 | B | Residential | 1 | 35 | 65.4 | 65.6 | 66.0 | 0.6 | Yes |
| 50-3 | B | Residential | 1 | 35 | 64.3 | 64.5 | 65.2 | 0.9 | |
| 50-4 | B | Residential | 1 | 35 | 63.0 | 63.1 | 64.1 | 1.1 | |
| 50-5 | B | Residential | 1 | 35 | 61.5 | 61.7 | 62.7 | 1.2 | |
| 50-6 | B | Residential | 1 | 35 | 60.2 | 60.3 | 61.5 | 1.3 | |
| 50-7 | B | Residential | 1 | 35 | 60.1 | 60.3 | 61.6 | 1.5 | |
| 50-8 | B | Residential | 1 | 35 | 61.0 | 61.1 | 62.2 | 1.2 | |
| 50-9 | B | Residential | 1 | 35 | 62.6 | 62.7 | 64.0 | 1.4 | |
| 50-10 | B | Residential | 1 | 35 | 66.8 | 66.9 | 67.9 | 1.1 | Yes |
| 50-11 | B | Residential | 1 | 35 | 71.7 | 71.9 | 71.4 | -0.3 | Yes |
| 50-12 | B | Residential | 1 | 35 | 71.7 | 71.8 | 71.1 | -0.6 | Yes |
| 50-13 | B | Residential | 1 | 35 | 69.9 | 70.1 | 70.8 | 0.9 | Yes |
| 50-14 | B | Residential | 1 | 35 | 69.7 | 69.8 | 71.8 | 2.1 | Yes |
| 50-15 | B | Residential | 1 | 35 | 69.1 | 69.2 | 71.5 | 2.4 | Yes |
| 50-16 | B | Residential | 1 | 35 | 70.5 | 70.5 | 73.2 | 2.7 | Yes |
| 50-17 | B | Residential | 1 | 35 | 67.1 | 67.2 | 68.7 | 1.6 | Yes |
| 50-18 | B | Residential | 1 | 35 | 66.4 | 66.5 | 67.7 | 1.3 | Yes |
| 50-19 | B | Residential | 1 | 35 | 63.4 | 63.5 | 65.2 | 1.8 | |
| 50-20 | B | Residential | 1 | 35 | 62.8 | 62.9 | 64.7 | 1.9 | |
| 50-21 | B | Residential | 1 | 35 | 62.1 | 62.2 | 64.2 | 2.1 | |
| 50-22 | B | Residential | 1 | 35 | 66.2 | 66.3 | 68.6 | 2.4 | Yes |
| 50-23 | B | Residential | 1 | 35 | 65.8 | 65.9 | 69.7 | 3.9 | Yes |
| 50-24 | B | Residential | 1 | 35 | 62.5 | 62.5 | 65.9 | 3.4 | |
| 50-25 | B | Residential | 1 | 35 | 62.0 | 62.1 | 66.4 | 4.4 | Yes |
| 50-26 | B | Residential | 1 | 35 | 66.6 | 66.6 | 71.2 | 4.6 | Yes |
| 50-27 | B | Residential | 1 | 35 | 71.0 | 71.0 | 75.1 | 4.1 | Yes |
| 50-28 | B | Residential | 1 | 35 | 70.9 | 70.9 | 75.0 | 4.1 | Yes |
| 50-29 | B | Residential | 1 | 35 | 71.5 | 71.5 | 75.0 | 3.5 | Yes |
| 50-30 | B | Residential | 1 | 35 | 66.1 | 66.2 | 70.2 | 4.1 | Yes |
| 50-31 | B | Residential | 1 | 35 | 66.1 | 66.1 | 70.8 | 4.7 | Yes |
| 50-32 | B | Residential | 1 | 35 | 61.5 | 61.5 | 65.8 | 4.3 | |
| 50-33 | B | Residential | 1 | 35 | 59.2 | 59.2 | 63.0 | 3.8 | |
| 50-34 | B | Residential | 1 | 35 | 58.8 | 58.9 | 61.8 | 3.0 | |
| 50-35 | B | Residential | 1 | 35 | 59.5 | 59.5 | 62.1 | 2.6 | |
| 50-36 | B | Residential | 1 | 35 | 59.7 | 59.8 | 61.4 | 1.7 | |
| 50-37 | B | Residential | 1 | 35 | 60.7 | 60.8 | 62.3 | 1.6 | |
| 50-38 | B | Residential | 1 | 35 | 59.3 | 59.4 | 63.2 | 3.9 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 50-39 | B | Residential | 1 | 35 | 58.8 | 58.8 | 62.7 | 3.9 | |
| 50-40 | B | Residential | 1 | 35 | 61.8 | 61.8 | 66.3 | 4.5 | Yes |
| 50-41 | B | Residential | 1 | 35 | 60.1 | 60.1 | 62.5 | 2.4 | |
| 50-42 | B | Residential | 1 | 35 | 70.7 | 70.7 | 73.7 | 3.0 | Yes |
| 50-43 | B | Residential | 1 | 35 | 66.1 | 66.2 | 67.3 | 1.2 | Yes |
| 50-44 | B | Residential | 1 | 35 | 64.3 | 64.4 | 65.9 | 1.6 | |
| 50-45 | B | Residential | 1 | 35 | 59.4 | 59.4 | 63.5 | 4.1 | |
| 50-46 | B | Residential | 1 | 35 | 70.2 | 70.2 | 74.4 | 4.2 | Yes |
| 51-1 | B | Residential | 1 | 35 | 68.4 | 68.6 | 71.5 | 3.1 | Yes |
| 51-2 | B | Residential | 1 | 35 | 69.8 | 70.1 | 72.7 | 2.9 | Yes |
| 51-3 | B | Residential | 1 | 35 | 72.5 | 72.6 | 76.2 | 3.7 | Yes |
| 51-4 | B | Residential | 1 | 35 | 72.1 | 72.2 | 75.7 | 3.6 | Yes |
| 51-5 | B | Residential | 1 | 35 | 70.2 | 70.3 | 75.1 | 4.9 | Yes |
| 51-6 | B | Residential | 1 | 35 | 67.8 | 68.0 | 72.0 | 4.2 | Yes |
| 51-7 | B | Residential | 1 | 35 | 67.6 | 67.7 | 71 | 3.4 | Yes |
| 51-8 | B | Residential | 1 | 35 | 67.6 | 67.7 | 71.7 | 4.1 | Yes |
| 51-9 | B | Residential | 1 | 35 | 66.9 | 67.1 | 70.5 | 3.6 | Yes |
| 51-10 | B | Residential | 1 | 35 | 65.8 | 65.9 | 67.8 | 2.0 | Yes |
| 51-11 | B | Residential | 1 | 35 | 63.7 | 63.8 | 65.9 | 2.2 | |
| 51-12 | B | Residential | 1 | 35 | 62.3 | 62.4 | 64.7 | 2.4 | |
| 51-13 | B | Residential | 1 | 35 | 62.6 | 62.7 | 65.7 | 3.1 | |
| 51-14 | B | Residential | 1 | 35 | 63.9 | 64.1 | 67 | 3.1 | Yes |
| 51-15 | B | Residential | 1 | 35 | 63.9 | 64.1 | 67.6 | 3.7 | Yes |
| 51-16 | B | Residential | 1 | 35 | 61.9 | 62.0 | 65.4 | 3.5 | |
| 51-17 | B | Residential | 1 | 35 | 62.0 | 62.1 | 65.6 | 3.6 | |
| 51-18 | B | Residential | 1 | 35 | 64.7 | 64.8 | 68.8 | 4.1 | Yes |
| 51-19 | B | Residential | 1 | 35 | 64.2 | 64.3 | 68.4 | 4.2 | Yes |
| 51-20 | B | Residential | 1 | 35 | 65.6 | 65.7 | 70.5 | 4.9 | Yes |
| 51-21 | B | Residential | 1 | 35 | 56.3 | 56.4 | 61.1 | 4.8 | |
| 51-22 | B | Residential | 1 | 35 | 60.3 | 60.4 | 64 | 3.7 | |
| 51-23 | B | Residential | 1 | 35 | 58.6 | 58.7 | 61.3 | 2.7 | |
| 51-24 | B | Residential | 1 | 35 | 60.4 | 60.5 | 64.3 | 3.9 | |
| 51-25 | B | Residential | 1 | 35 | 59.2 | 59.3 | 63.4 | 4.2 | |
| 51-26 | B | Residential | 1 | 35 | 61.2 | 61.3 | 65.8 | 4.6 | |
| 51-27 | B | Residential | 1 | 35 | 65.4 | 65.5 | 70.2 | 4.8 | Yes |
| 51-28 | B | Residential | 1 | 35 | 65.2 | 65.2 | 70.3 | 5.1 | Yes |
| 51-29 | B | Residential | 1 | 35 | 65.1 | 65.1 | 70.1 | 5.0 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 51-30 | B | Residential | 1 | 35 | 61.4 | 61.4 | 66.1 | 4.7 | Yes |
| 51-31 | B | Residential | 1 | 35 | 61.8 | 61.8 | 66.4 | 4.6 | Yes |
| 51-32 | B | Residential | 1 | 35 | 58.6 | 58.7 | 62.7 | 4.1 | |
| 51-33 | B | Residential | 1 | 35 | 58.5 | 58.5 | 63.4 | 4.9 | |
| 51-34 | B | Residential | 1 | 35 | 61.2 | 61.3 | 66.1 | 4.9 | Yes |
| 51-35 | B | Residential | 1 | 35 | 63.0 | 63.0 | 67.8 | 4.8 | Yes |
| 51-36 | B | Residential | 1 | 35 | 64.6 | 64.7 | 69.5 | 4.9 | Yes |
| 51-37 | B | Residential | 1 | 35 | 68.7 | 68.7 | 74.1 | 5.4 | Yes |
| 51-38 | B | Residential | 1 | 35 | 67.9 | 67.9 | 73.2 | 5.3 | Yes |
| 51-39 | B | Residential | 1 | 35 | 63.7 | 63.7 | 69.0 | 5.3 | Yes |
| 51-40 | B | Residential | 1 | 35 | 64.3 | 64.3 | 69.4 | 5.1 | Yes |
| 51-41 | B | Residential | 1 | 35 | 71.9 | 71.9 | 79.0 | 7.1 | Yes |
| 51-42 | B | Residential | 1 | 35 | 69.9 | 69.9 | 76.1 | 6.2 | Yes |
| 51-43 | B | Residential | 1 | 36 | 69.7 | 69.7 | 76.2 | 6.5 | Yes |
| 51-44 | B | Residential | 1 | 36 | 72.0 | 72.0 | 77.7 | 5.7 | Yes |
| 51-45 | B | Residential | 1 | 35 | 66.7 | 66.8 | 71.0 | 4.3 | Yes |
| 51-46 | B | Residential | 1 | 35 | 61.2 | 61.3 | 64.5 | 3.3 | |
| 51-47 | B | Residential | 1 | 35 | 59.1 | 59.3 | 63.1 | 4.0 | |
| 51-48 | B | Residential | 1 | 35 | 58.3 | 58.4 | 62.9 | 4.6 | |
| 51-49 | B | Residential | 1 | 35 | 61.3 | 61.3 | 66.2 | 4.9 | Yes |
| 52-1 | D | Place of Worship (Interior) | 1 | 35 | 43.0 | 43.0 | 46.9 | 3.9 | |
| 53-1 | B | Residential | 1 | 36 | 67.7 | 67.7 | 71.5 | 3.8 | Yes |
| 53-2 | B | Residential | 1 | 36 | 63.8 | 63.8 | 68 | 4.2 | Yes |
| 53-3 | B | Residential | 1 | 36 | 69.0 | 69.0 | 71.6 | 2.6 | Yes |
| 53-4 | B | Residential | 1 | 36 | 64.0 | 64.0 | 68.5 | 4.5 | Yes |
| 53-5 | B | Residential | 1 | 36,37 | 63.5 | 63.5 | 68.2 | 4.7 | Yes |
| 53-6 | B | Residential | 1 | 37 | 62.4 | 62.4 | 66.9 | 4.5 | Yes |
| 53-7 | B | Residential | 1 | 37 | 63.2 | 63.2 | 67.3 | 4.1 | Yes |
| 53-8 | B | Residential | 1 | 37 | 69.5 | 69.5 | 73.7 | 4.2 | Yes |
| 53-9 | B | Residential | 1 | 37 | 61.1 | 61.1 | 65.9 | 4.8 | |
| 53-10 | B | Residential | 1 | 37 | 66.3 | 66.3 | 70.3 | 4.0 | Yes |
| 53-11 | B | Residential | 1 | 37 | 69.5 | 69.5 | 73.7 | 4.2 | Yes |
| 53-12 | B | Residential | 1 | 37 | 70.1 | 70.1 | 75.6 | 5.5 | Yes |
| 53-13 | B | Residential | 1 | 37 | 61.9 | 61.9 | 67.0 | 5.1 | Yes |
| 53-14 | B | Residential | 1 | 37 | 63.7 | 63.7 | 68.7 | 5.0 | Yes |
| 53-15 | B | Residential | 1 | 37 | 67.0 | 67.0 | 72.0 | 5.0 | Yes |
| 53-16 | B | Residential | 1 | 37 | 65.5 | 65.5 | 70.5 | 5.0 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 53-17 | B | Residential | 1 | 37 | 65.6 | 65.6 | 69.1 | 3.5 | Yes |
| 53-18 | B | Residential | 1 | 37 | 62.4 | 62.4 | 65.6 | 3.2 | |
| 53-19 | B | Residential | 1 | 37 | 60.3 | 60.3 | 63.9 | 3.6 | |
| 53-20 | B | Residential | 1 | 37 | 67.9 | 67.9 | 70.7 | 2.8 | Yes |
| 53-21 | B | Residential | 1 | 37 | 64.9 | 64.9 | 67.8 | 2.9 | Yes |
| 53-22 | B | Residential | 1 | 37 | 63.3 | 63.3 | 65.9 | 2.6 | |
| 53-23 | B | Residential | 1 | 37 | 62.5 | 62.5 | 65.0 | 2.5 | |
| 53-24 | B | Residential | 1 | 37,38 | 64.0 | 64.0 | 66.7 | 2.7 | Yes |
| 53-25 | B | Residential | 1 | 38 | 63.2 | 63.2 | 65.8 | 2.6 | |
| 53-26 | B | Residential | 1 | 38 | 66.2 | 66.2 | 68.8 | 2.6 | Yes |
| 53-27 | B | Residential | 1 | 38 | 66.2 | 66.2 | 68.7 | 2.5 | Yes |
| 53-28 | B | Residential | 1 | 38 | 62.3 | 62.3 | 65.0 | 2.7 | |
| 53-29 | B | Residential | 1 | 38 | 67.6 | 67.6 | 70.2 | 2.6 | Yes |
| 53-30 | B | Residential | 1 | 38 | 67.3 | 67.3 | 69.8 | 2.5 | Yes |
| 53-31 | B | Residential | 1 | 38 | 67.0 | 67.0 | 69.7 | 2.7 | Yes |
| 53-32 | B | Residential | 1 | 38 | 68.2 | 68.2 | 71.0 | 2.8 | Yes |
| 53-33 | B | Residential | 1 | 38 | 66.3 | 66.3 | 69.0 | 2.7 | Yes |
| 53-34 | B | Residential | 1 | 38 | 61.3 | 61.3 | 63.5 | 2.2 | |
| 53-35 | B | Residential | 1 | 38 | 67.4 | 67.4 | 70.7 | 3.3 | Yes |
| 53-36 | B | Residential | 1 | 38 | 67.3 | 67.3 | 70.5 | 3.2 | Yes |
| 53-37 | B | Residential | 1 | 38 | 60.9 | 60.9 | 63.0 | 2.1 | |
| 54-1 | B | Residential | 1 | 37 | 68.0 | 68.0 | 71.1 | 3.1 | Yes |
| 54-2 | B | Residential | 1 | 37 | 65.0 | 65.0 | 67.8 | 2.8 | Yes |
| 54-3 | B | Residential | 1 | 37 | 61.1 | 61.1 | 63.8 | 2.7 | |
| 54-4 | B | Residential | 1 | 38 | 64.8 | 64.8 | 67.5 | 2.7 | Yes |
| 54-5 | B | Residential | 1 | 38 | 68.1 | 68.1 | 71.0 | 2.9 | Yes |
| 54-6 | B | Residential | 1 | 38 | 67.7 | 67.7 | 70.8 | 3.1 | Yes |
| 54-7 | B | Residential | 1 | 38 | 68.7 | 68.7 | 72.0 | 3.3 | Yes |
| 54-8 | B | Residential | 1 | 38 | 65.1 | 65.1 | 68.0 | 2.9 | Yes |
| 54-9 | B | Residential | 1 | 38 | 63.3 | 63.3 | 65.8 | 2.5 | |
| 54-10 | B | Residential | 1 | 38 | 65.3 | 65.3 | 68.0 | 2.7 | Yes |
| 54-11 | B | Residential | 1 | 38 | 68.2 | 68.2 | 71.7 | 3.5 | Yes |
| 54-12 | B | Residential | 1 | 38 | 67.5 | 67.5 | 70.8 | 3.3 | Yes |
| 54-13 | B | Residential | 1 | 38 | 67.2 | 67.2 | 70.2 | 3.0 | Yes |
| 54-14 | B | Residential | 1 | 38 | 64.4 | 64.4 | 66.8 | 2.4 | Yes |
| 54-15 | B | Residential | 1 | 38 | 64.2 | 64.2 | 66.6 | 2.4 | Yes |
| 54-16 | B | Residential | 1 | 38 | 61.9 | 61.9 | 64.4 | 2.5 | |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 54-17 | B | Residential | 1 | 38 | 60.2 | 60.2 | 64.2 | 4.0 | |
| 55-1 | D | Place of Worship (Interior) | 1 | 38 | 40.0 | 40.0 | 42.5 | 2.5 | |
| 55-2 | D | Place of Worship (Interior) | 1 | 38 | 39.5 | 39.5 | 42.0 | 2.5 | |
| 55-3 | D | Place of Worship (Interior) | 1 | 38 | 36.3 | 36.3 | 38.8 | 2.5 | |
| 56-1 | C | Cemetery | 1 | 38 | 70.0 | 70.0 | 75.1 | 5.1 | Yes |
| 57-1 | B | Residential | 1 | 38,39 | 70.7 | 70.7 | 76.2 | 5.5 | Yes |
| 57-2 | B | Residential | 1 | 39 | 71.0 | 71.0 | 76.7 | 5.7 | Yes |
| 57-3 | B | Residential | 1 | 39 | 70.7 | 70.7 | 76.2 | 5.5 | Yes |
| 57-4 | B | Residential | 1 | 39 | 71.3 | 71.3 | 77.3 | 6.0 | Yes |
| 57-5 | B | Residential | 1 | 39 | 71.7 | 71.7 | 77.2 | 5.5 | Yes |
| 57-6 | B | Residential | 1 | 39 | 72.1 | 72.1 | 77.3 | 5.2 | Yes |
| 57-7 | B | Residential | 1 | 39 | 69.9 | 69.9 | 75.3 | 5.4 | Yes |
| 57-8 | B | Residential | 1 | 39 | 69.1 | 69.1 | 74.6 | 5.5 | Yes |
| 57-9 | B | Residential | 1 | 39 | 69.2 | 69.2 | 75.3 | 6.1 | Yes |
| 57-10 | B | Residential | 1 | 39 | 68.7 | 68.7 | 74.3 | 5.6 | Yes |
| 57-11 | B | Residential | 1 | 39 | 66.5 | 66.5 | 72.4 | 5.9 | Yes |
| 57-12 | B | Residential | 1 | 39 | 66.8 | 66.8 | 72.4 | 5.6 | Yes |
| 57-13 | B | Residential | 1 | 39 | 66.7 | 66.8 | 71.9 | 5.2 | Yes |
| 57-14 | B | Residential | 1 | 39 | 66.8 | 66.8 | 72.1 | 5.3 | Yes |
| 57-15 | B | Residential | 1 | 39 | 69.1 | 69.1 | 74.9 | 5.8 | Yes |
| 57-16 | B | Residential | 1 | 38,39 | 69.3 | 69.3 | 74.9 | 5.6 | Yes |
| 57-17 | B | Residential | 1 | 38,39 | 67.0 | 67.0 | 72.3 | 5.3 | Yes |
| 57-18 | B | Residential | 1 | 39,39 | 66.3 | 66.3 | 72.0 | 5.7 | Yes |
| 57-19 | B | Residential | 1 | 38 | 65.0 | 65.0 | 69.7 | 4.7 | Yes |
| 57-20 | B | Residential | 1 | 38 | 65.2 | 65.2 | 70.2 | 5.0 | Yes |
| 57-21 | B | Residential | 1 | 38 | 65.2 | 65.2 | 70.5 | 5.3 | Yes |
| 57-22 | B | Residential | 1 | 38 | 64.9 | 64.9 | 70.0 | 5.1 | Yes |
| 57-23 | B | Residential | 1 | 38 | 65.1 | 65.1 | 70.1 | 5.0 | Yes |
| 57-24 | B | Residential | 1 | 38,39 | 64.1 | 64.1 | 69.3 | 5.2 | Yes |
| 57-25 | B | Residential | 1 | 38,39 | 63.9 | 63.9 | 69.3 | 5.4 | Yes |
| 57-26 | B | Residential | 1 | 38,39 | 64.0 | 64.0 | 69.1 | 5.1 | Yes |
| 57-27 | B | Residential | 1 | 38,39 | 61.4 | 61.4 | 65.9 | 4.5 | |
| 57-28 | B | Residential | 1 | 38 | 62.0 | 62.0 | 66.9 | 4.9 | Yes |
| 57-29 | B | Residential | 1 | 38 | 63.3 | 63.3 | 67.9 | 4.6 | Yes |
| 57-30 | B | Residential | 1 | 38 | 63.3 | 63.3 | 68.1 | 4.8 | Yes |
| 57-31 | B | Residential | 1 | 38 | 63.2 | 63.2 | 68.2 | 5.0 | Yes |
| 57-32 | B | Residential | 1 | 38 | 63.0 | 63.0 | 67.8 | 4.8 | Yes |

| Receptor ID# | Activity Category | Description of Activity Category | No. of Noise Sensitive Sites Represented | Sheet No. (See Appendix B) | Predicted Traffic Noise Level (Leq(h)) [Expressed as dB(A)] | | | | Approaches, Meets, or Exceeds the NAC? |
|--------------|-------------------|----------------------------------|--|----------------------------|--|-----------------|--------------|----------------------------------|--|
| | | | | | Existing (2014) | No-Build (2040) | Build (2040) | Increase/Decrease from Existing* | |
| 57-33 | B | Residential | 1 | 38 | 63.2 | 63.2 | 67.9 | 4.7 | Yes |
| 57-34 | B | Residential | 1 | 38 | 61.6 | 61.6 | 65.7 | 4.1 | |
| 57-35 | B | Residential | 1 | 38,39 | 61.1 | 61.1 | 65.4 | 4.3 | |
| 57-36 | B | Residential | 1 | 38,39 | 61.1 | 61.1 | 65.4 | 4.3 | |
| 57-37 | B | Residential | 1 | 38,39 | 60.8 | 60.8 | 64.9 | 4.1 | |
| 57-38 | B | Residential | 1 | 38 | 60.6 | 60.6 | 64.5 | 3.9 | |
| 57-39 | B | Residential | 1 | 38,39 | 60.3 | 60.3 | 64.1 | 3.8 | |
| 57-40 | B | Residential | 1 | 38,39 | 60.0 | 60.0 | 63.7 | 3.7 | |
| 58-1 | B | Residential | 1 | 39 | 61.8 | 61.8 | 68.0 | 6.2 | Yes |
| 58-2 | B | Residential | 1 | 39 | 67.7 | 67.7 | 72.3 | 4.6 | Yes |
| 58-3 | B | Residential | 1 | 39 | 69.5 | 69.5 | 74 | 4.5 | Yes |
| 58-4 | B | Residential | 1 | 39 | 70.5 | 70.5 | 74.5 | 4.0 | Yes |
| 58-5 | B | Residential | 1 | 39 | 66.9 | 67.0 | 71.3 | 4.4 | Yes |
| 59-1 | C | Place of Worship | 1 | 39 | 68.1 | 68.1 | 73.4 | 5.3 | Yes |

* When compared to predicted levels with the Build Alternative.

APPENDIX E

Hillsborough County's Land Development Code

HILLSBOROUGH COUNTY, FL

LAND DEVELOPMENT CODE

PART 6.06.00 LANDSCAPING, IRRIGATION AND BUFFERING REQUIREMENTS

Section 6.06.06 Buffering and Screening Requirements

C - Screening

6. *Areas of Excessive Traffic or Noise. If proposed residential development is adjacent to an area of excessive traffic or noise, including a limited access highway, screening shall consist of the landscaping required per Screening Standard "B" above or a berm/planting combination, with the berm an average height of four feet and dense plantings which will, when combined with the berm, achieve a minimum height of eight feet and 75 percent opacity within two years of planting. If demonstrated that screening has been or will be provided by another entity to an equivalent or higher degree, the Administrator may waive any portion or all of these requirements. Furthermore, because of the extensive landscaping provided on the public right-of-way, properties abutting the Veterans Expressway are exempt from the provision of this Section.*