



Transportation Alternatives / CMAQ Application for
FY 2018, 2019, and 2020 Projects

Winchester Road Bicycle and Pedestrian Improvements

City of Apache Junction

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 21, 2015 at 10:00 a.m.**

(LATE AND/OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED)

Apache Junction: Winchester Road Bicycle and Pedestrian Improvements

PART A - CONTACT AND PROJECT DESCRIPTION	
Contact Information	
1. Name of Sponsoring Agency	Apache Junction
2. Agency Contact Name	Raquel Schatz
3. Phone Number of Agency Contact	480-474-8549
4. E-Mail Address of Agency Contact	rschatz@ajcity.net
5. Mailing Address of Agency Contact	575 E. Baseline Avenue Apache Junction, AZ 85119
Project Description	
6. Please provide the Project Title.	Winchester Road Bicycle and Pedestrian Improvements
7. Please provide a concise, specific description of the project (250 character limit):	
<p>The project will provide new sidewalks to fill-in gaps in the pedestrian network along Winchester Rd and install bicycle lanes on the roadway shoulders. In addition, the project will add a center continuous left turn lane to allow safer turning movements and prevent backups along Winchester Rd.</p>	
8. Please provide the project limits:	
<p>The project limits extend along Winchester Rd between Southern Ave and 16th Ave. Apache Junction has obtained the funds for the installing sidewalks along eastern side of Winchester Rd, but need funding for the western sidewalks, bicycle lanes and center turn lane. The western sidewalk will connect with approximately 600 ft of existing sidewalk north of Southern Ave. The bicycle lanes will be along east and west sides of Winchester Rd through the project limits. The center turn lane will also be throughout the project limits.</p>	

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

This part of the form identifies the current characteristics and proposed improvements for each project.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

NOTE: For Part B, Questions 14-20, the specified distance will vary (and update automatically) depending on the project type identified in Part B, Question 1. Pedestrian-only projects will use a distance of 1/4 mile, while bicycle and Shared-Use projects will use a distance of 1/2 mile.

1. Please select which funding source(s) this project is applying for. Check all that apply.

- Congestion Mitigation and Air Quality (CMAQ)
- Transportation Alternatives (TA)

2. What type of project is this? (Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input checked="" type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input type="checkbox"/> Wide Sidewalk (8' min.) |
| <input type="checkbox"/> Buffered Bike Lane | <input type="checkbox"/> Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> Protected Bike Lane | <input type="checkbox"/> Signalized Crossing |
| <input type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input checked="" type="checkbox"/> Sidewalk (5' min.) | <input style="width: 400px; height: 20px;" type="text"/> |
| <input type="checkbox"/> Planning Study | |

3. What other major elements are included in this project? (Check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Bridge (overpass) | Other: |
| <input type="checkbox"/> Tunnel (underpass) | <input style="width: 400px; height: 20px;" type="text" value="Center continuous left turn lane, ADA ramps/driveways, and storm drains"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="checkbox"/> Number of Bike racks/lockers | <input type="checkbox"/> Number of Seating/Rest Area(s) |
| <input type="checkbox"/> Number of Drinking Fountains | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Way-finding Signs | <input type="checkbox"/> Number of bicycle/pedestrian counting devices |
| <input type="checkbox"/> Number of Trash receptacles | Other: |
| <input type="checkbox"/> Number of Trees | <input style="width: 400px; height: 20px;" type="text"/> |
| <input type="checkbox"/> Number of new openings in street walls | |
| <input type="checkbox"/> Number of Shade Structures | |

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

5. Please describe the existing condition of the project site and any problem(s) being addressed.

The Winchester Rd project corridor begins at Southern Ave with a three-lane, 42-foot paved cross section with curb and gutter. Two lanes lead northbound and one lane leads southbound. A five-foot concrete sidewalk is available along the west edge of the road between Southern Ave and Peppertree Ave. Winchester Rd transitions from a three-lane to a two-lane cross section north of Peppertree Ave. From approximately Osage Ave north to 16th Ave, the paved roadway cross section is approximately 23-foot wide with curb and gutter along the eastern/northbound side and a gravel shoulder on the west/southbound side. Most of Winchester Rd does not have an existing sidewalk. There is a short segment of recently added sidewalk from 16th Ave to Kachina Ave on the east edge of the roadway. Along west edge of the roadway there is another short segment of sidewalk spanning Southern Ave to Peppertree Ave. The roadway is narrow with minimal shoulders preventing easy shared roadway with bicycles. In addition, there are numerous side streets and driveways that connect off Winchester Rd and traffic wanting to make a left cause backups and idling vehicles increasing air pollution.

6. Please describe the work being done and improvements being made as part of this project.

The scope of work for this project consist of:
 Add a five-foot wide concrete sidewalk along the east side of Winchester Rd between the Southern Ave and Kachina Ave intersections.
 Widen the existing Winchester Rd pavement to 42 feet and add new curb and gutter along the west side of the street between Peppertree Ave and 16th Ave.
 Add a five-foot wide concrete sidewalk along the west side between Peppertree Ave and 16th Ave.
 Add new pedestrian ramps (ADA compliant) on all corners of the intersections at Quail Ave, Peppertree Ave, Osage Ave, Navajo Ave, Montebello Ave, Mesquite Ave, Linda Ave, and the southeast corner of the Kachina Ave intersection.
 Add new ADA compliant concrete driveway aprons along both sides of the street at existing driveway openings.
 Add storm drains, curb and gutters.
 Restriping the roadway for a two-lane roadway with a continuous left turn lane.

7. What do you hope to achieve with this project?

The purpose of this project is to create a safer environmental for all pedestrians, bicyclist, and motorist in the community as well as visitors to the area. Enhancing pedestrian and bicycle networks provides mobility choices to those constituents that do not have access to or don't have the means to use personal vehicles.

8. Safety improvements to be included for this project: (Check all that apply)

- | | | |
|-------------------------------------|---|---|
| <input type="checkbox"/> | Medians with pedestrian crossing islands | Other |
| <input checked="" type="checkbox"/> | Roadway Reconfiguration (Road Diet) | <input type="text" value="Install pedestrian sidewalk with ADA ramps and driveways. Add a continuous left turn lane."/> |
| <input checked="" type="checkbox"/> | Striping/re-striping to narrow vehicle lanes | |
| <input type="checkbox"/> | Color pavement or similar treatment | |
| <input type="checkbox"/> | Lighting | |
| <input type="checkbox"/> | Landscape buffer between sidewalk and roadway | |
| <input type="checkbox"/> | Rectangular Rapid Flash Beacon (RRFB) | |
| <input type="checkbox"/> | Driver Feedback Sign | |

9. Does this project include a road safety education component?

- Yes
 No

Please Explain:
 Apache Junction will present this project a one of the regular neighborhood meetings. In addition, outreach to local schools will be completed via handouts to be provided to teachers, parents, and students.

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

10. How does this project or planning study address safety?

The project will provide safe separate designated pedestrian and bicycle facilities from vehicles. The project will also restrict off-street parking and provide multi-modal access.

11. How does the project improve ADA facilities for persons with disabilities?

The project will provide ADA ramps on all corners of the intersections at Quail Ave, Peppertree Ave, Osage Ave, Navajo Ave, Montebello Ave, Mesquite Ave, Linda Ave, and the southeast corner of the Kachina Ave intersection. The project will also install ADA compliant driveways.

12. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:

Apache Junction's Comprehensive Transportation Study from May 2012 identified a need for pedestrian and bicycle mobility and safety. This project will close gaps in the city's sidewalk networks and will enhance mobility for all residents from all walks of life.

13. How does the project create a sense of place?

In addition to creating a safer environment for all pedestrians in the community, this project provides the community's youth and elderly access to nearby public institutions or public use centers including: Apache Junction High School, Cactus Canyon Junior High School, and Superstition Shadows Aquatic Center that are approximately 1 mile west of the project.

14. Connectivity: (Check all that apply)

Project fills a gap in the system

Explain:

Existing sidewalk is present north of 16th Ave along Winchester Rd. In addition, sidewalks are present along Southern Ave, 16th St, and adjacent roads in the area. This project will fill in the 0.50 mile gap in the area.

Project connects to other local bikeways

List of connected bikeways:

Multi Jurisdictional Project (please include letter of support (See Part C)

List of Participating Jurisdictions:

Total length of bikeways directly connected by this project (in miles)

15. Number of transit stops this project will connect to. Do NOT count major transit facilities (park and rides, transit centers, etc.) in this question. List associated route(s) and their peak frequency, using Valley Metro as the source.

Within 1/2 mile

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

16. Number of transit routes serviced by the transit stops in question 15 that this project will connect to. List associated route(s) and their peak frequency, using Valley Metro as the source.

Within 1/2 mile
List routes and frequency:

17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:

Within 1/2 mile
List:

18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

Within 1/2 mile
List:

19. Number of commercial and employment destinations (malls, retail centers, business parks, etc.) this project will benefit (for example, a mall is ONE destination; do NOT count every store in a mall as a separate destination):

Within 1/2 mile
List:

20. Number of K-8 public schools this project will benefit:

Within 1/2 mile
List:

21. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:

Within 1/2 mile
List:

22. Number of activity centers for air quality cost effectiveness (i.e. bank, church, hospital, health care facility, light rail station, park-and-ride lot, office park, post office, public library, shopping area, grocery store, university or junior college):

Within 1/4 miles
List:

1/4 miles to 1/2 miles
List:

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served: [MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

Use the MPO/COG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census block groups adjacent to your project, left-clicking where needed to change the direction of the line. Double-click to finish drawing the line. The selected census block groups will become highlighted in blue. A pop-up box will appear with "Results for Selected Block Groups." Select the "Summary Report" tab, and use the data found there. You may export the results to Excel (click the printer icon at the top-right side of the pop-up window) for your records.

24. Please provide the following information on the facility on which the improvement will be located.

For a linear project, please enter the Facility Name, Starting Limit and Ending Limit:

For a point project (e.g. an intersection or crossing), please enter a Facility Name and a Crossing Feature:

Federal Functional Classification of the Facility:

[Link to MAG webpage for Federal Functional Classification Map](#)

Type of Facility the Improvement will be located on:

Length (in Miles)

Posted Speed Limit (MPH)

Number of Travel Lanes Before Project

Number of Travel Lanes After Project

25. Please provide an estimated traffic volume (ADT) on the nearest parallel arterial.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

26. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete.

Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

An environmental overview was completed on June 13, 2014; which identified no biological, hazardous materials, water resources, or socioeconomic resources concerns. It is anticipated that a cultural resources survey will be required, since the project limits have not been previously surveyed. The project area lies within the boundaries of the Ozone 8-hour nonattainment and PM10 nonattainment areas. It is anticipated that the project will improve traffic congestion and air quality by promoting pedestrian and bicycle transportation modes. A qualitative air quality analysis will be reviewed as part of the environmental clearance. The overall clearance will be a categorical exclusion.

27. Current ROW: (Check all that apply)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Agency owns all ROW Needed | <input type="checkbox"/> Agency owns easement |
| <input type="checkbox"/> ROW to be acquired | <input type="checkbox"/> Agency has right-of-use (i.e. canal) |
| <input type="checkbox"/> Owners will donate ROW | <input type="checkbox"/> Condemnation may be required |

28. Please describe any right of way issues associated with the project.

Apache Junction owns all the right-of-way required for this project. Temporary construction easement may be required for the ADA driveway installation; however, the City is planning to avoid/reduce the need for any right-of-way or easement requirements during the design.

29. Please indicate whether all parcels for this project have been inventoried.

- Yes No

30. Current Utilities in or abutting the alignment: (Check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> No Utility in or abutting the alignment | <input type="checkbox"/> Private Structures |
| <input type="checkbox"/> Canals & Drainage | |
| <input checked="" type="checkbox"/> Power Lines & Cables | Other: |
| <input checked="" type="checkbox"/> Pipelines, Sewer and Water | Fire hydrants |

31. Please describe any utility conflicts that will need to be addressed.

No utility conflicts are anticipated; however, surface adjustments will be required for water and gas valves located in or near the new roadway widening or sidewalk construction. Sewer manhole rim adjustments may be necessary along Winchester Rd. In addition, fire hydrants will need to be relocated for the sidewalks. Coordination with utilities will be completed during design and prior to construction.

32. Guidelines used to develop project: (Check all that apply)

- | | |
|---|---|
| <input checked="" type="checkbox"/> AASHTO Guide for Bicycle Facilities | Other: |
| <input checked="" type="checkbox"/> MAG Pedestrian Policies and Design Guidelines | MAG Standards and Specifications, City of Apache Junction Engineering Design Guidelines and Policies Manual |
| <input type="checkbox"/> MAG Complete Streets Guide | |
| <input type="checkbox"/> MAG Designing Transit Accessible Communities | |
| <input type="checkbox"/> MAG Valley Path Brand & Wayfinding Signage Guidelines | |
| <input type="checkbox"/> NACTO Urban Bikeway Design Guide | |
| <input type="checkbox"/> RPTA Bus Stop Program and Standards | |

Apache Junction : Winchester Road Bicycle and Pedestrian Improvements

PART B-DETAILED PROJECT DESCRIPTION

33. Jurisdiction has the following policies for improved bicycle/shared use facilities:

With new development and capital improvement projects, bike lanes on arterial streets are:	Recommended
With new development and capital improvement projects, bike lanes on collector streets are:	Recommended
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	Recommended
With new development or during development retrofits, shared-use paths are:	Not Addressed
Bicycle program implemented, including bike education, safety events, and bike maps	No
Complete Streets Policy	Yes

34. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
List:
2012 Comprehensive Transportation Study
- Consistent with general policy/practices, but not formally identified (provide source)
Explain:

- Not addressed by jurisdiction's plans, policies, or practices
Explain:

35. How will the applicant measure the success of this project?

Enhancing the pedestrian and bicycle networks by adding sidewalks and bike lanes.

36. Will bicycle/pedestrian count technology be incorporated? Will the devices broadcast automatic updates or require manual data collection? If manual, how will the agency identify staff resources to dedicate to collecting the data?

Apache Junction does not have bicycle/pedestrian counting technology, and will not be incorporated with this project.

37. Will the project include an education/marketing component upon completion of construction, to publicize the project and increase citizen awareness of the project impact and benefits? If yes, please describe below.

This project will be publicized on the Apache Junction website, discussed at neighborhood meetings, and flyer notification to nearby schools, activity centers, and residents.

38. Will the project include wayfinding signage elements? If yes, please describe below.

No wayfindnig signage will be included as part of this project. Winchester Rd is a minor arterial roadway that leads to residents, Central Arizona College to the north, and Cactus Canyon Junior High and Apache Junction High School to the west.

Apache Junction: Winchester Road Bicycle and Pedestrian Improvements

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY	LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00	Project Assessment Completed. Funded with MAG Design Assistance FY2012.	
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$20,000.00	\$20,000.00	No	\$0.00	\$20,000.00		
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	4. HAZMAT ASSESSMENT	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	Subtotal Scoping (Part A)				\$45,000.00		\$0.00	\$45,000.00		
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$157,000.00	\$157,000.00	No	\$0.00	\$157,000.00	Design is on-going. Funded with MAG Closeout Funds.	
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00		
	3. DRAINAGE REPORT	LS	1	\$10,000.00	\$10,000.00	No	\$0.00	\$10,000.00		
	4. SWPPP	LS	1	\$8,000.00	\$8,000.00	No	\$0.00	\$8,000.00		
	Subtotal PE (Part B)				\$180,000.00		\$0.00	\$180,000.00		
Subtotal Preliminary Engineering (Part A + Part B)					\$225,000.00		\$0.00	\$225,000.00		
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS			\$0.00	No	\$0.00	\$0.00		
Subtotal Right-of-Way Acquisition (Part C)					\$0.00		\$0.00	\$0.00		
D. Utility Relocation	1. Utility Relocation	LS	1	\$2,000.00	\$2,000.00	No	\$0.00	\$2,000.00	Fire Hydrant Relocation	
Subtotal Utility Relocation (Part D)					\$2,000.00		\$0.00	\$2,000.00		
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	1. Hardscape Construction	Installation Of SWPP Measures		LS	1	\$8,000.00	\$8,000.00	Yes	\$7,544.00	\$456.00
		Site Preparation		LS	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00
		Demolition	Sawcut	LF	1,970	\$2.00	\$3,940.00	Yes	\$3,715.42	\$224.58
			Remove Structures and Obstructions	LS			\$0.00	Yes	\$0.00	\$0.00
			Remove Fencing	LF	15	\$30.00	\$450.00	Yes	\$424.35	\$25.65
			Remove Structural Concrete	CY			\$0.00	Yes	\$0.00	\$0.00
			Remove Asphaltic Concrete Pavement	CY			\$0.00	Yes	\$0.00	\$0.00
			Remove Concrete Sidewalks, Slabs	CY	3,080	\$4.00	\$12,320.00	Yes	\$11,617.76	\$702.24
		Hazmat Abatement		LS			\$0.00	Yes	\$0.00	\$0.00
		Retaining Wall - Reinforced Concrete Cantilevered		SF			\$0.00	Yes	\$0.00	\$0.00
		Earthwork	General Excavation	CY	679	\$10.00	\$6,790.00	Yes	\$6,402.97	\$387.03
			Drainage Excavation	CY			\$0.00	Yes	\$0.00	\$0.00
			Structural Excavation	CY			\$0.00	Yes	\$0.00	\$0.00
			Structural Backfill	CY			\$0.00	Yes	\$0.00	\$0.00
			Borrow (In Place)	CY			\$0.00	Yes	\$0.00	\$0.00
		Curb & Gutter		LF	2,028	\$22.00	\$44,616.00	Yes	\$42,072.89	\$2,543.11
		Aggregate Base		SY	151	\$450.00	\$67,950.00	Yes	\$64,076.85	\$3,873.15
		Pathway Or Sidewalk Materials	Concrete	SF	15,325	\$8.00	\$122,600.00	Yes	\$115,611.80	\$6,988.20
			Colored Concrete	SF			\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete	SF			\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers	SF			\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete	Ton	654	\$150.00	\$98,100.00	Yes	\$92,508.30	\$5,591.70
			Polymer or Resin Stabilized Surface	SF			\$0.00	Yes	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers	SF			\$0.00	Yes	\$0.00	\$0.00
			Stamped Asphalt	SF			\$0.00	Yes	\$0.00	\$0.00
			Stamped Concrete	SF			\$0.00	Yes	\$0.00	\$0.00
			Concrete	SF			\$0.00	Yes	\$0.00	\$0.00
			Integral Color Concrete	SF			\$0.00	Yes	\$0.00	\$0.00
		Pedestrian ADA Ramp		SF	3,000	\$10.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00
		Culvert Extensions		LF			\$0.00	Yes	\$0.00	\$0.00
Pedestrian Lighting Including Conduit And Trenching		Each	8	\$12,500.00	\$100,000.00	Yes	\$94,300.00	\$5,700.00		
Handrail	Standard	LF			\$0.00	Yes	\$0.00	\$0.00		
	Decorative	LF			\$0.00	Yes	\$0.00	\$0.00		
Subtotal Hardscape Construction					\$504,766.00		\$475,994.34	\$28,771.66		

Apache Junction: Winchester Road Bicycle and Pedestrian Improvements

PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

Sponsoring Agency:	Apache Junction	Project Title:	Winchester Road Bicycle Improvements	Application Date:	21-Sep-15
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Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)		
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	2. Landscaping & Irrigation Items	Requirements	Each		\$0.00	Yes	\$0.00	\$0.00			
		Trees (15 Gallon Size)	Each		\$0.00	Yes	\$0.00	\$0.00			
		Trees (5 Gallon Size)	Each		\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (5 Gallon Size)	Each		\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (1 Gallon Size)	Each		\$0.00	Yes	\$0.00	\$0.00			
		Cactus (5 Gallon Size)	Each		\$0.00	Yes	\$0.00	\$0.00			
		Mulch	Decomposed Granite	CY	391	\$15	\$5,865	Yes	\$5,531	\$334	
			Organic	CY			\$0	Yes	\$0	\$0	
		Topsoil	CY			\$0	Yes	\$0	\$0		
		Seeding	Acre			\$0	Yes	\$0	\$0		
		Turf Sod	SY			\$0	Yes	\$0	\$0		
		Boulders	Each			\$0	Yes	\$0	\$0		
		Irrigation System	Drip	SF			\$0	Yes	\$0	\$0	
			Turf	SF			\$0	Yes	\$0	\$0	
		Sleeving For Irrigation System	Directional Bore	LF			\$0	Yes	\$0	\$0	
	Cut and Patch		LF			\$0	Yes	\$0	\$0		
	Landscape Header Curb	LF			\$0	Yes	\$0	\$0			
	Landscape Establishment	LS			\$0	Yes	\$0	\$0			
	Subtotal Landscaping & Irrigation Items					\$5,865		\$5,531	\$334		
	3. Site Furnishings	Benches	Each			\$0	Yes	\$0	\$0		
		Seatwalls	LF			\$0	Yes	\$0	\$0		
		Bike Racks	Each			\$0	Yes	\$0	\$0		
		Trash Receptacles	Each			\$0	Yes	\$0	\$0		
		Drinking Fountains	Each			\$0	Yes	\$0	\$0		
		Signage (Standard Traffic Control)	Each	30	\$300	\$9,000	Yes	\$8,487	\$513		
		Signage (Wayfinding)	Each			\$0	Yes	\$0	\$0		
		Tree Grates	Each			\$0	Yes	\$0	\$0		
		Subtotal Site Furnishings					\$9,000		\$8,487	\$513	
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Bicycle and Pedestrian Counter	Each			\$0	Yes	\$0	\$0	
	Concrete Valley Gutter and Apron		SF	3,080	\$18	\$55,440	Yes	\$52,280	\$3,160		
	Concrete Driveway (C-05.20)		SF	7,176	\$10.00	\$71,760	Yes	\$67,670	\$4,090		
	Reset Frame and Cover for Manhole		Each	6	\$750	\$4,500	Yes	\$4,244	\$257		
	Reset Valve Frame and Cover		Each	3	\$500	\$1,500	Yes	\$1,415	\$86		
	Relocate Street Light		Each	3	\$2,000	\$6,000	Yes	\$5,658	\$342		
	Removal of Concrete Curb		LF	593	\$5	\$2,965	Yes	\$2,796	\$169		
	Remove Exst Valley Gutter		SY	311	\$5	\$1,555	Yes	\$1,466	\$89		
	Pavement Marking		LS	1	\$8,000	\$8,000	Yes	\$7,544	\$456		
	Reset Survey Monument		Each	7	\$750	\$5,250	Yes	\$4,951	\$299		
	Pipe, Reinforced Concrete, Class III, 18"		LF	374	\$70	\$26,180	Yes	\$24,688	\$1,492		
	Pipe, Reinforced Concrete, Class IV, 24"		LF	2,413	\$80	\$193,040	Yes	\$182,037	\$11,003		
	Concrete Catch Basin (ADOT C-15.20) One 3.5' Wing		Each	11	\$3,300	\$36,300	Yes	\$34,231	\$2,069		
	Manhole (MAG DET. 520 & 522)		Each	7	\$3,500	\$24,500	Yes	\$23,104	\$1,397		
	Subtotal Other Construction						\$436,990		\$412,082	\$24,908	
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$76,530	\$76,530	Yes	\$72,167	\$4,362	Percentages of Total Construction	
		Traffic Control	LS	1	\$143,493	\$143,493	Yes	\$135,314	\$8,179		
Construction Survey & Layout		LS	1	\$47,831	\$47,831	Yes	\$45,105	\$2,726			
Construction Contingencies		LS	1	\$95,662	\$95,662	Yes	\$90,209	\$5,453			
Construction Administration		LS	1	\$47,831	\$47,831	Yes	\$45,105	\$2,726			
Subtotal Mobilization & Administration Costs						\$411,347		\$387,900	\$23,447		
Subtotal Construction Or Implementation Cost (Part E)											
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)											
G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,0000											
H. Total Project Cost Including ADOT Fees (Part F + Part G)											

Apache Junction: Winchester Road Bicycle and Pedestrian Improvements

PART E - TOTAL PROJECT SCHEDULE AND BUDGET

Please verify that the cost and programming estimates for the total project are correct below. The numeric values on this sheet (in GREY) are automatically populated from the cost estimate sheet (Part D) and cannot be modified. If there are any errors in the numeric values on this sheet, please verify and correct the numbers you have entered into the cost estimate sheet (Part D). You MUST fill in the GREEN portions of Part E manually.

The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in questions 24-27 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)
1. ADOT Fee	\$30,000	
2. Design	\$225,000	Project Assessment funded through MAG Design Assistance. Design funded with MAG closeout funds, authorized 06/30/15.
3. Right of way	\$0	
4. Utilities	\$2,000	
5. Construction	\$1,272,306	
6. Contingency	\$95,662	
7. Total Cost	\$1,624,968	

8. Will the agency maintain the improvement after it is completed?

9. Expected Annual Maintenance Cost

10. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2016	Design for both phases are on-going	Other	\$225,000	Not Available	\$225,000	100.0%
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)	2016	Utility Relocations/Evaluation	HURF	\$2,000	Not Available	\$2,000	100.0%
14. Other (Optional)		ADOT Review Fees	HURF	\$30,000	Not Available	\$30,000	100.0%
15. Construction	2018	Construct Bicycle Lanes and Sidewalks	HURF	\$77,974	\$1,289,994	\$1,367,968	5.7%
16. Total Costs				\$334,974	\$1,289,994	\$1,624,968	20.6%

PART F - SIGNATURE AND CHECKLIST	
<h1>Checklist</h1>	
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.	
COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 8 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	Yes
Fields 15 - 17 (Transit) are complete	Yes
Fields 18 – 22 (Attractors and Demographics) are complete	Yes
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	Yes
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	Yes
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	Yes
PART C - Required Attachments	Complete?
Field 1 - Map showing the general location of the proposed project in relation to the region, including a north arrow provided in the printed application and the PDF application.	Yes
Field 2 - Map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow provided in the printed application and the PDF application.	Yes
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	Yes
Field 4 - Simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel in the printed application and the PDF application.	Yes
(OPTIONAL)- Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	Yes
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	Yes
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	Yes
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	Yes
Part A - Scoping is complete	Yes
Part B - Final Preliminary Engineering Design is complete	Yes
Part C - Right-of-Way Acquisition is complete	Yes
Part D - Utility Relocation is complete	Yes
Part E - Construction or Implementation is complete	Yes
Parts F, G, and H - Costs are complete and accurate	Yes
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	Yes
Field 8 - 10 are complete	Yes
Fields 11 – 15 Years are complete	Yes
Fields 11 – 15 Local Funding Sources are complete	Yes
Fields 11 – 15 Local Costs are complete and accurate	Yes

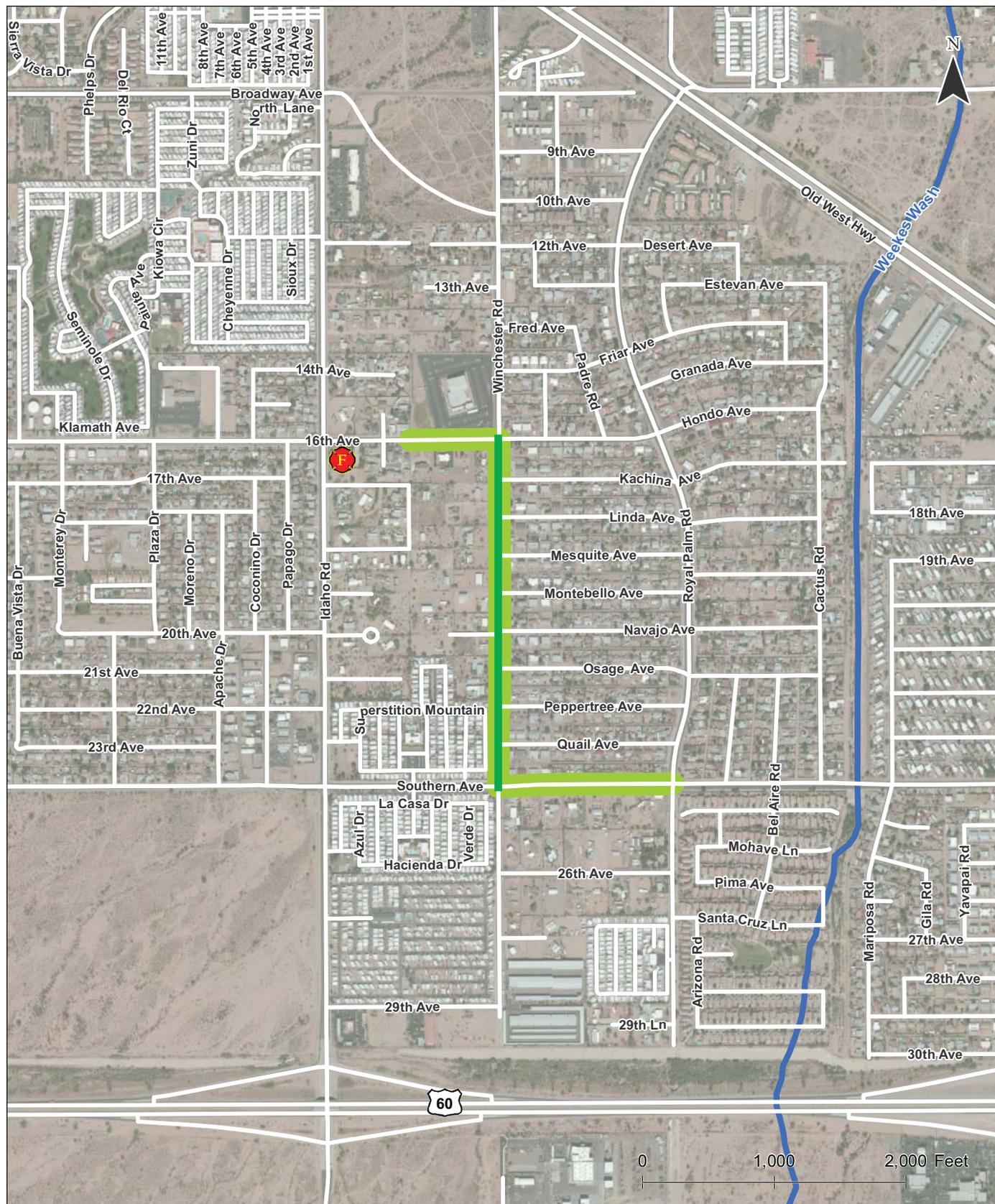
Field 11 - 15 Federal Costs are complete and accurate	Yes
Field 16 Total Costs are complete and accurate	Yes
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager/administrator or designated representative.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE(S):

As the MAG member agency's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature:	<i>Emile Schmid, P.E.</i>
Name:	Emile Schmid
Title:	City Engineer
Date:	9/21/2015

Winchester Road Bicycle and Pedestrian Improvements



- Project Footprint
- Project Corridor

**Project Location Map
Apache Junction, Arizona**

**Figure
2**

H:\profiles\13841 - Apache Junction Sidewalk Connection\gis\Project\Location.mxd - 3:42 PM 4/28/2014

Coordinate System: NAD 1983 HARN StatePlane Arizona Central FIPS 0202 Feet Intl



- Existing Sidewalk Network
- Project Area
- Central Arizona College
- Northern Arizona University
- Saint George's Catholic Church
- Cactus Canyon Jr. High School
- Superstition Shadows Aquatic Ctr
- Apache Junction High School

Figure 3. Project Area Map identifying existing sidewalks and benefit institutions near project area.



Photograph 1. Existing conditions showing school bus stop in front of an apartment complex. Vehicles part on the dirt shoulders, and there is no designated place for bicycles.



Photograph 2. Existing conditions showing no sidewalk ramps, dirt shoulders with over grown vegetation.



Photograph 3. Existing conditions showing end of short segment of present sidewalk near Kachina Ave and driveway to residence house.



Photograph 4. Existing conditions facing south along Winchester Rd showing curb and gutter on east side of the roadway.

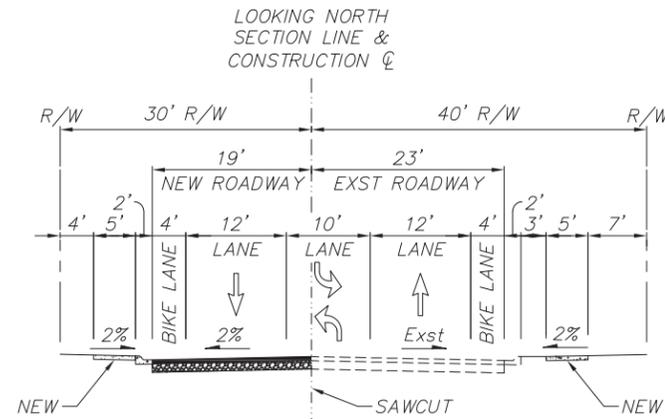
Winchester Road Rendering

Before Improvements

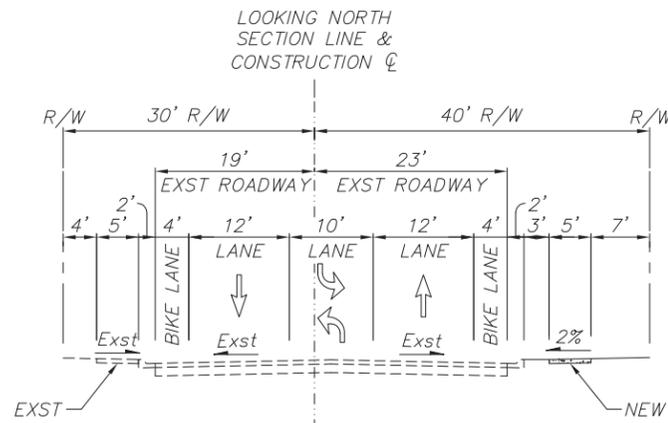


After Improvements





WINCHESTER RD
TYPICAL SECTION
16TH AVE TO
PEPPERTREE AVE



WINCHESTER RD
TYPICAL SECTION
PEPPERTREE AVE TO
SOUTHERN AVE

BID & CONSTRUCTION SET

15%
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CONSTRUCTION

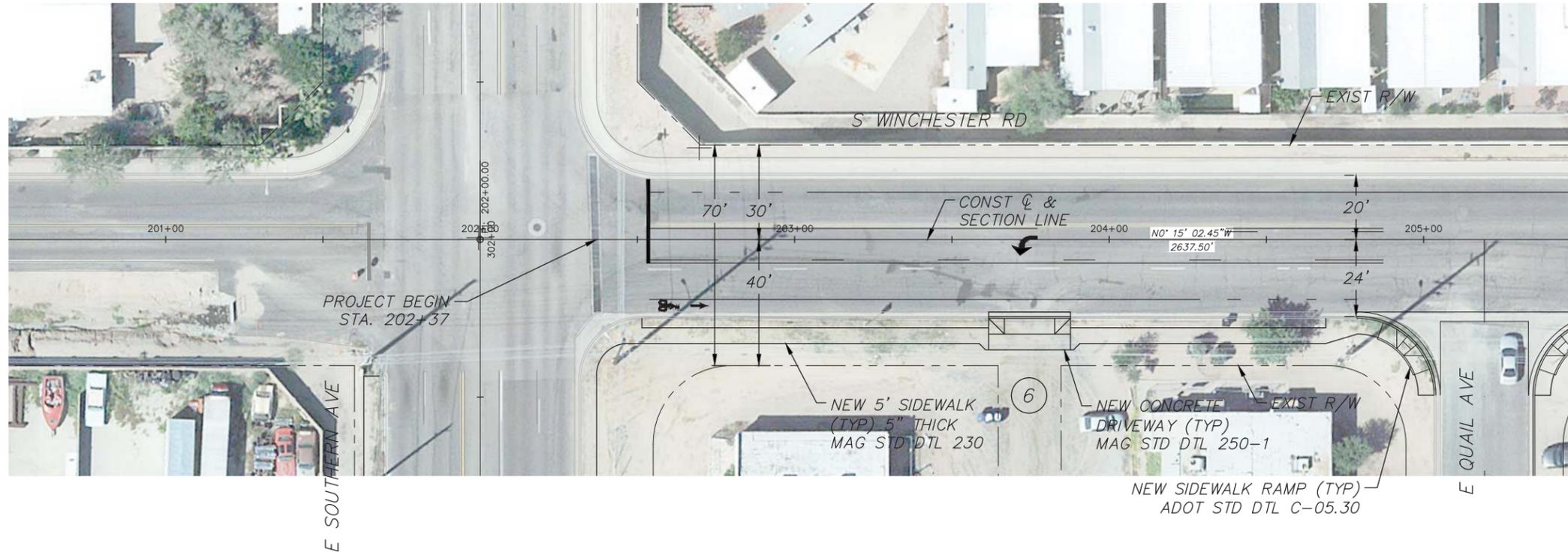
"THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE DISSEMINATED WITHOUT PRIOR WRITTEN CONSENT, AND MAY ONLY BE USED TO FULFILL THE OBLIGATIONS OF THE PROJECT CONSTRUCTION CONTRACT WITH THE CITY OF APACHE JUNCTION."

CITY OF APACHE JUNCTION, ARIZONA
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TYPICAL SECTIONS

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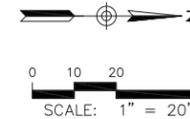


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SEE SHEET 2

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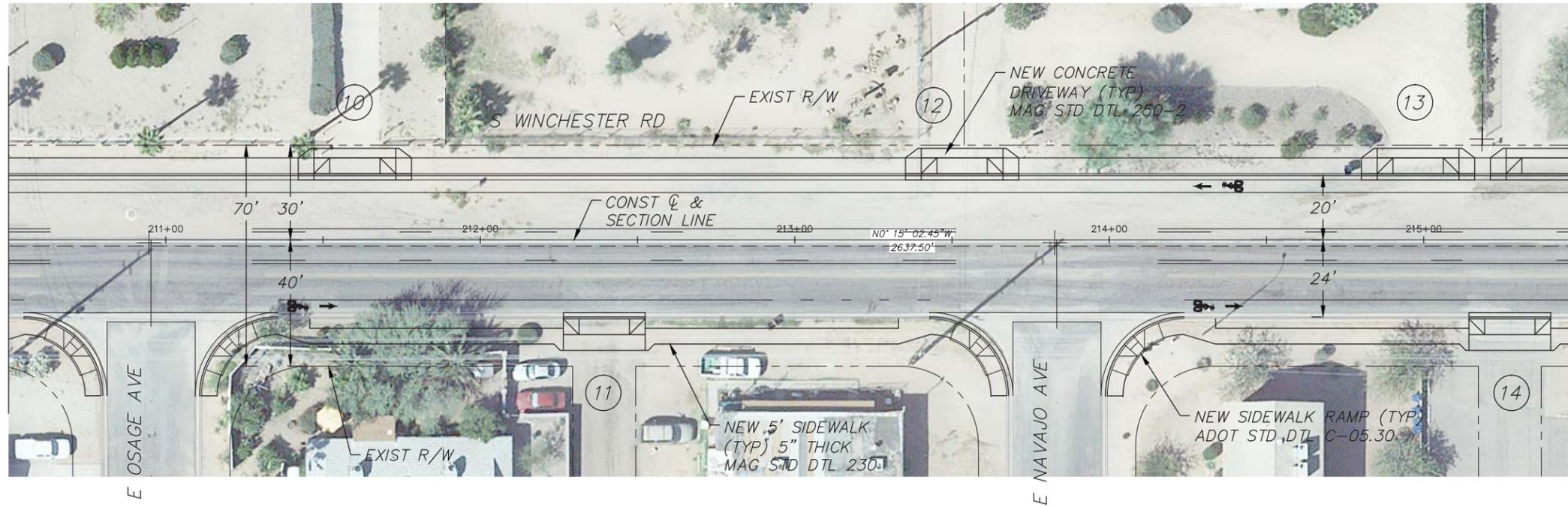
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CITY OF APACHE JUNCTION, ARIZONA
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S WINCHESTER RD
ROADWAY IMPROVEMENT PLAN

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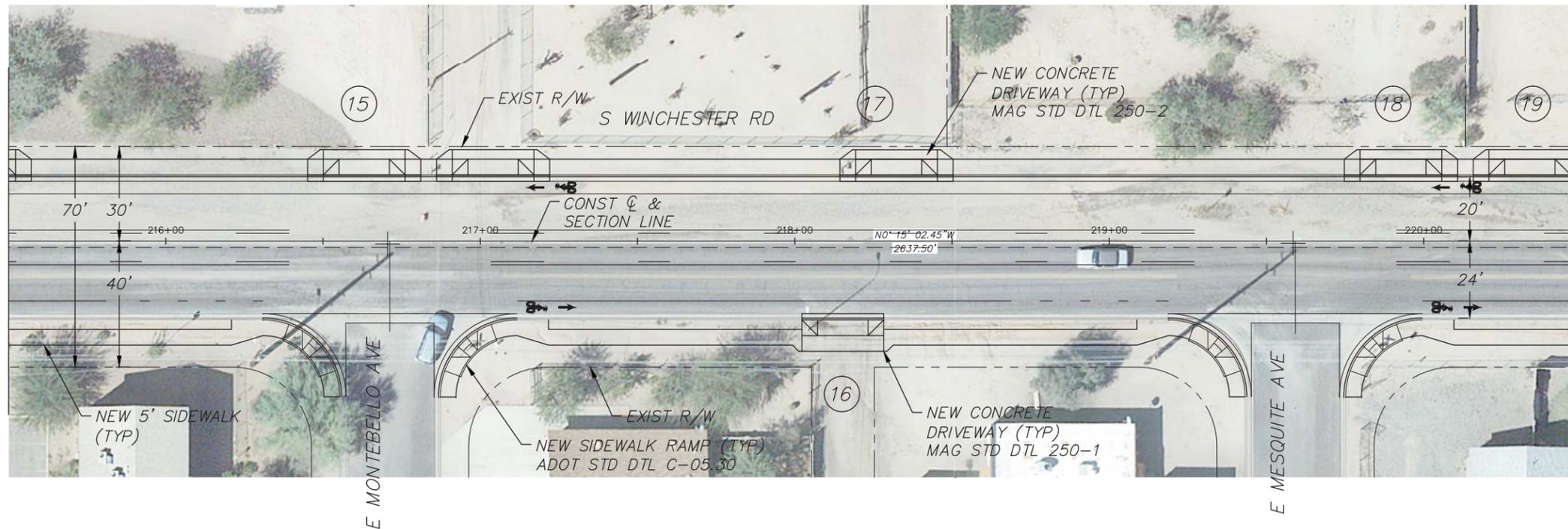


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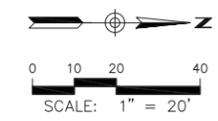


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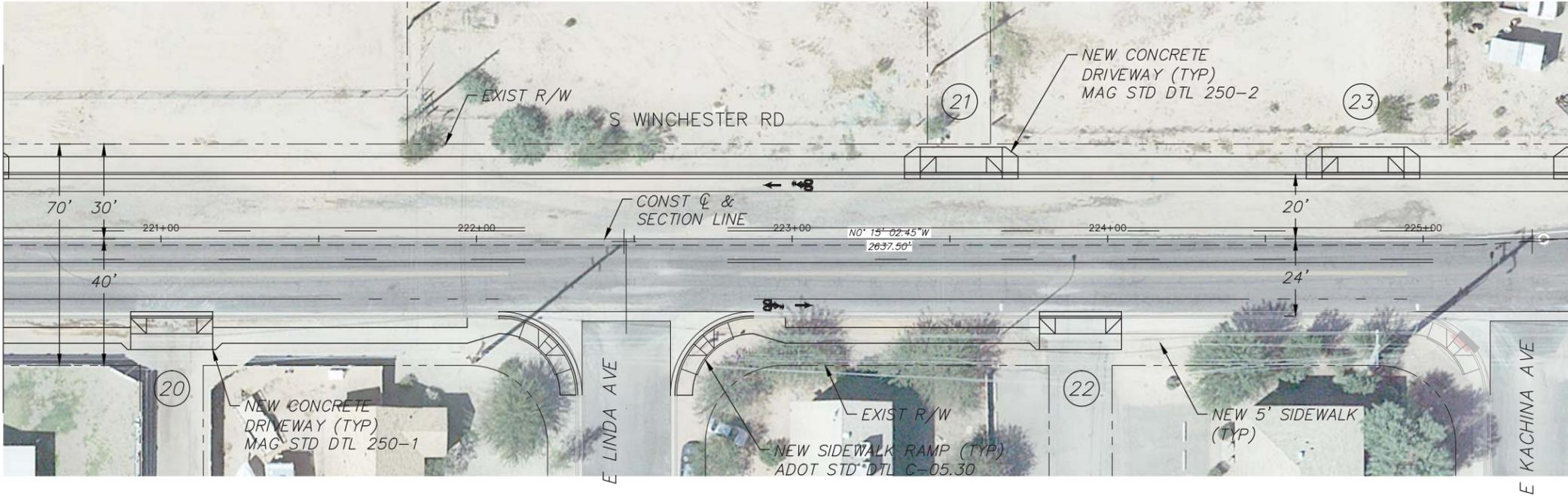
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CITY OF APACHE JUNCTION, ARIZONA
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S WINCHESTER RD
ROADWAY IMPROVEMENT PLAN

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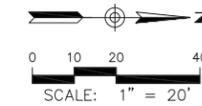
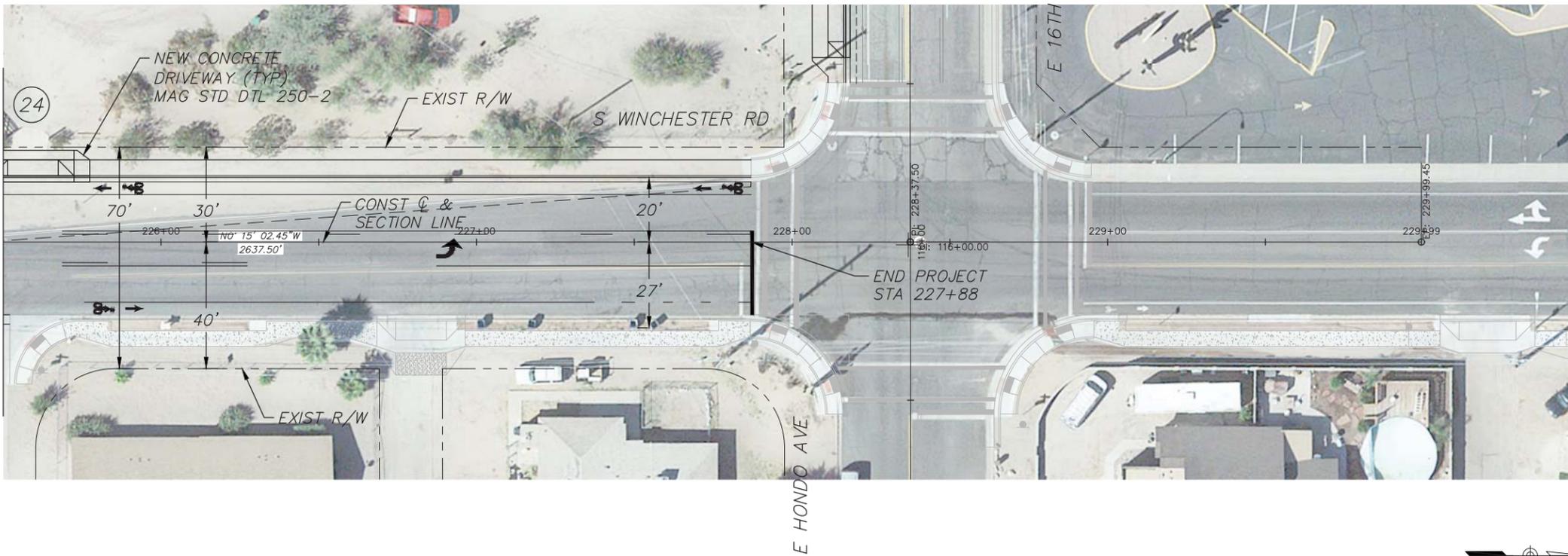


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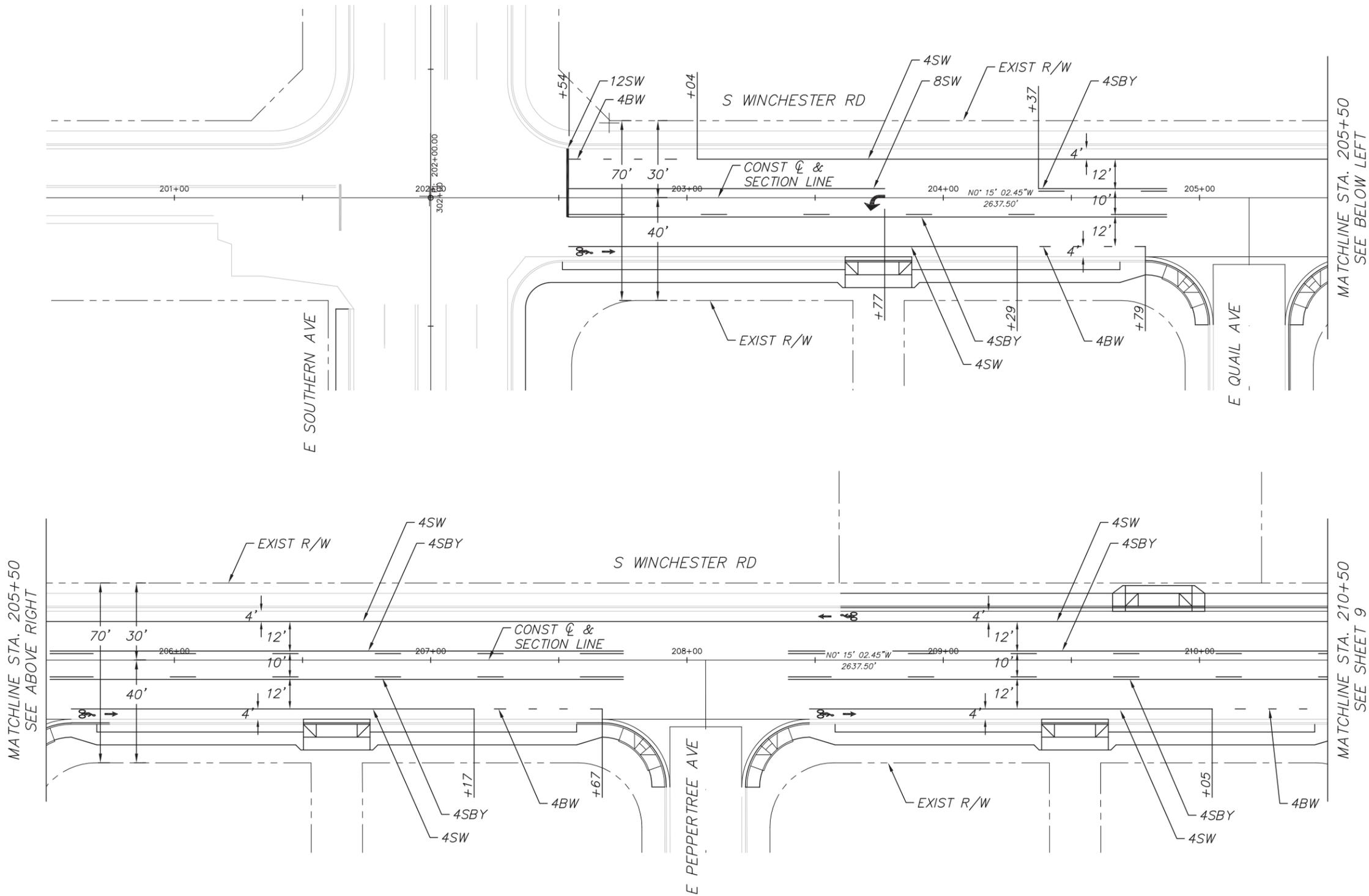
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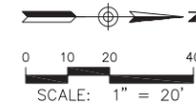
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ROADWAY IMPROVEMENT PLAN

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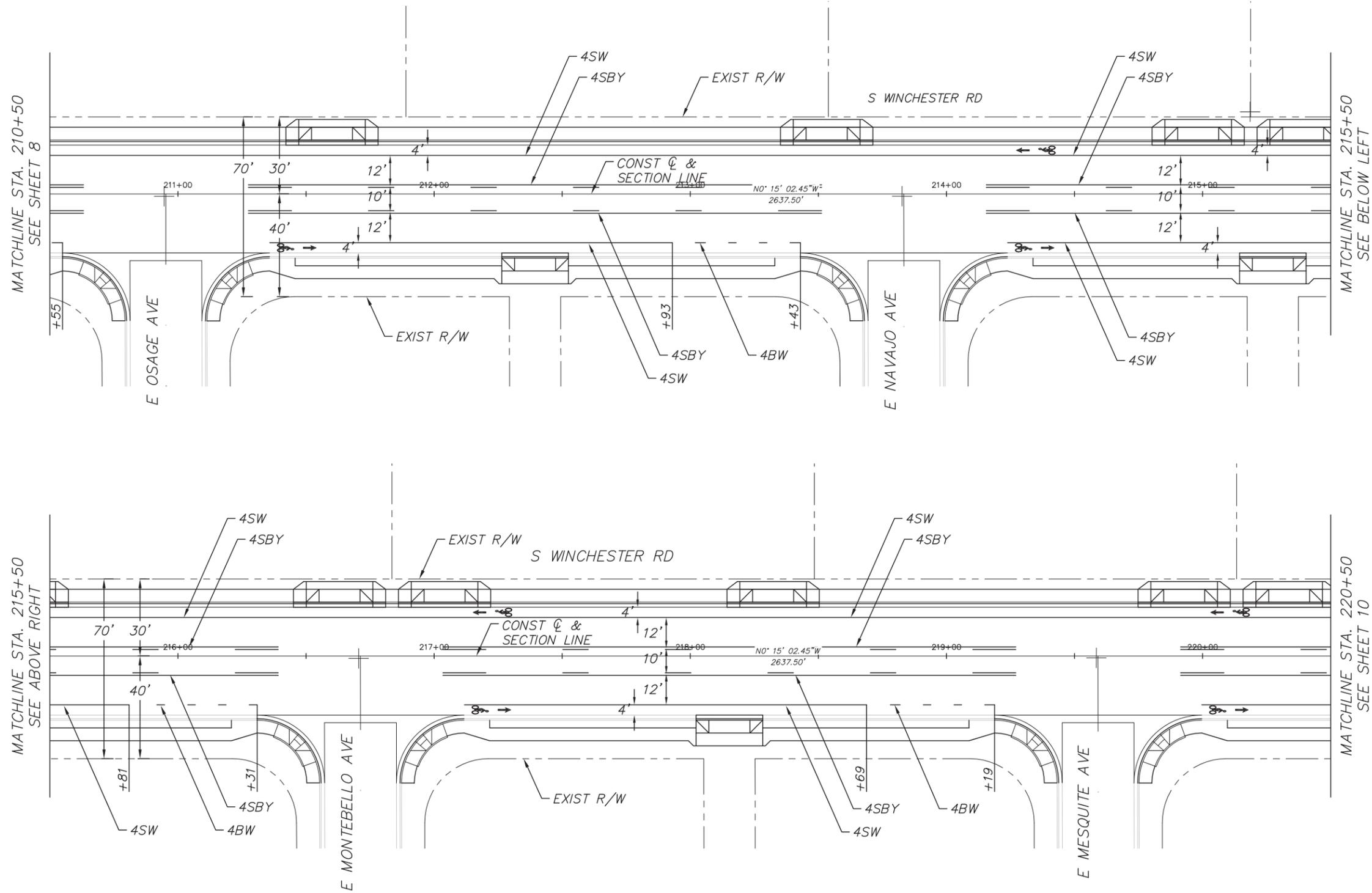
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PUBLIC WORKS DEPARTMENT

S WINCHESTER RD
PAVEMENT MARKING PLAN

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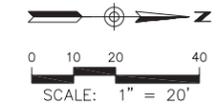
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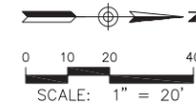
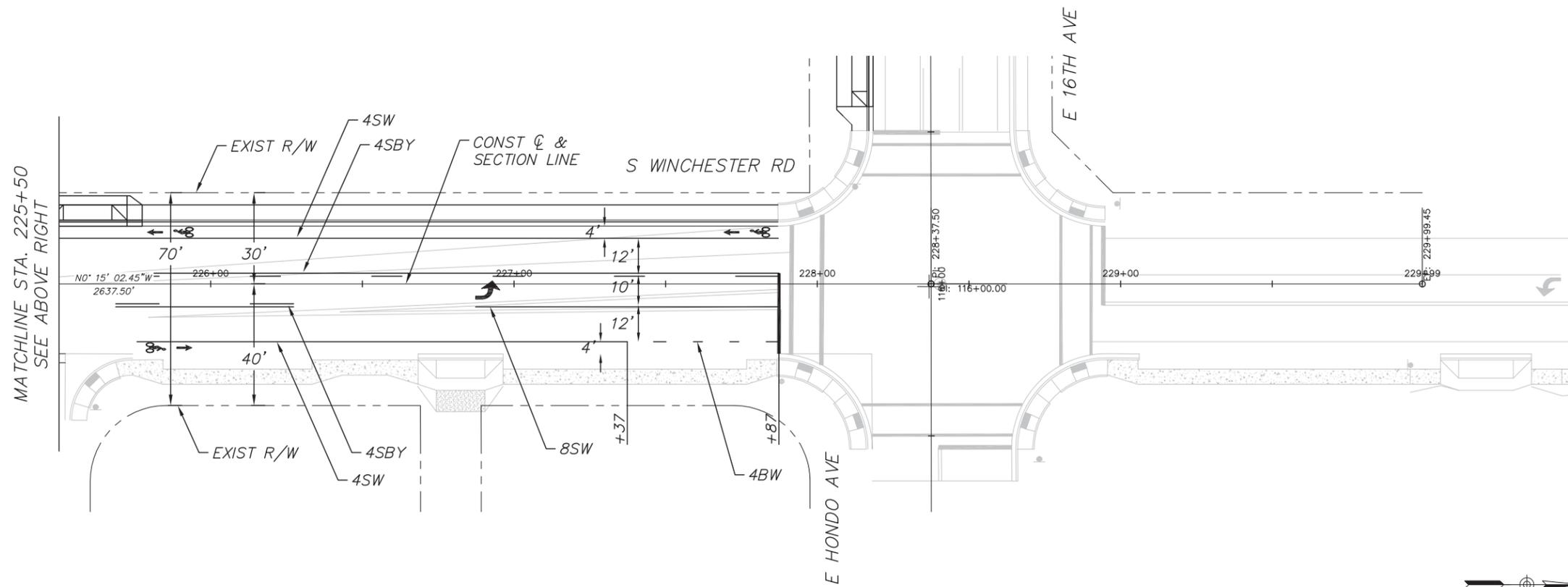
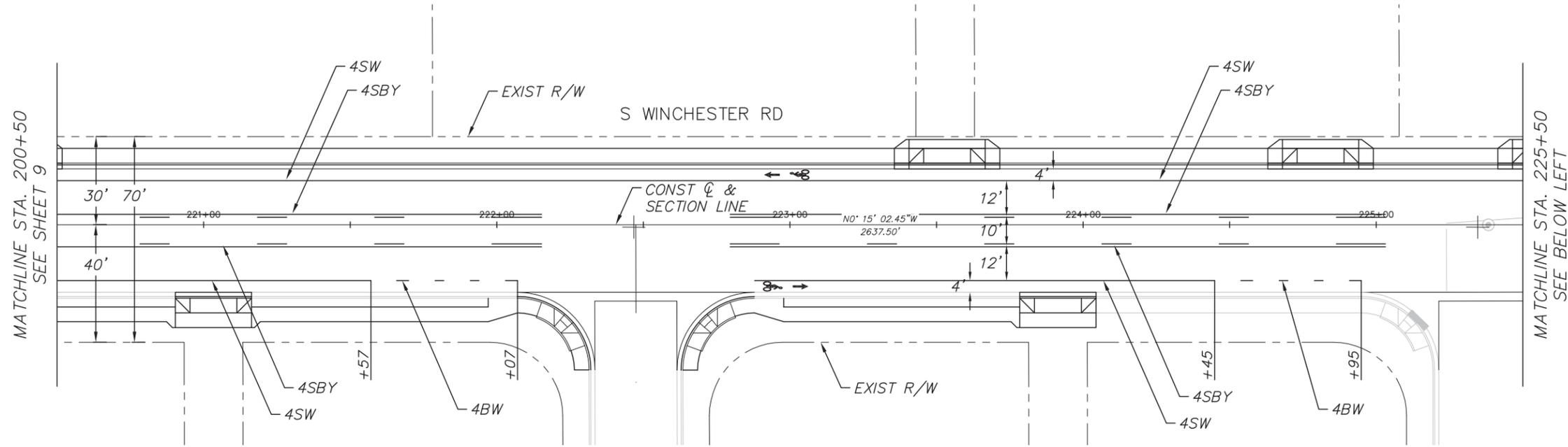
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PUBLIC WORKS DEPARTMENT

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PAVEMENT MARKING PLAN

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PAVEMENT MARKING PLAN

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