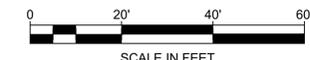
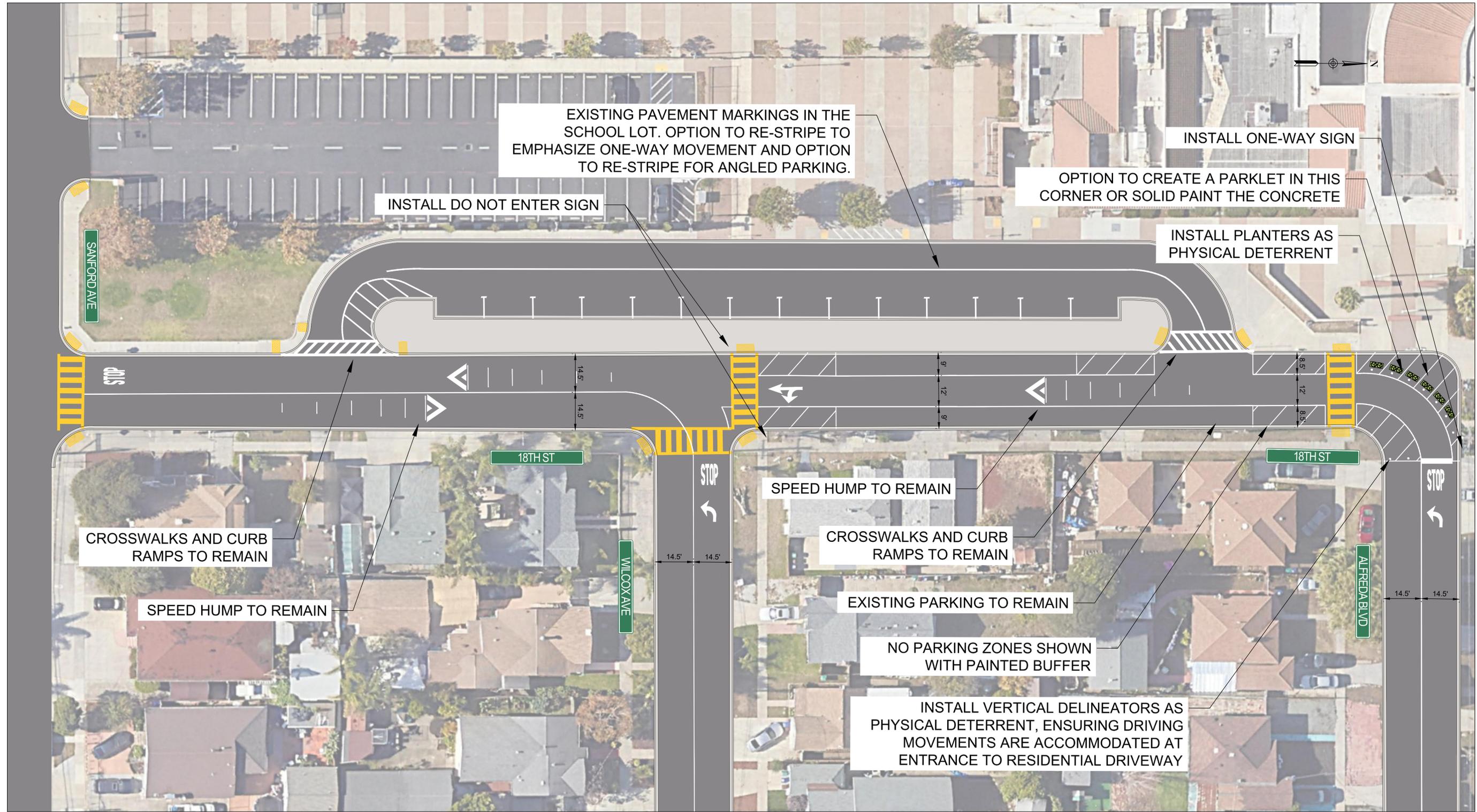




**APPENDIX E:**  
**CONCEPTUAL DESIGN**

**E.M. DOWNER ELEMENTARY  
SCHOOL**

**18<sup>TH</sup> STREET CONCEPT**



15% DESIGN SUBMISSION  
CONCEPTUAL - NOT FOR CONSTRUCTION

**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].  
LICENSE NO. \_\_\_\_\_  
EXPIRATION DATE: \_\_\_\_\_

REUSE OF DOCUMENTS					
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.					
DSGN	AD				
DR	AD				
CHK	KL				
APVD	MC	NO.	DATE	REVISION	BY APVD

PREPARED BY TDG ENGINEERING, INC, AN AFFILIATE OF:  
**TOOLE DESIGN**  
1322 WEBSTER STREET, SUITE 208  
OAKLAND, CA 94612  
PHONE: 510.298.0740  
FAX: 301.927.2800  
www.tooledesign.com

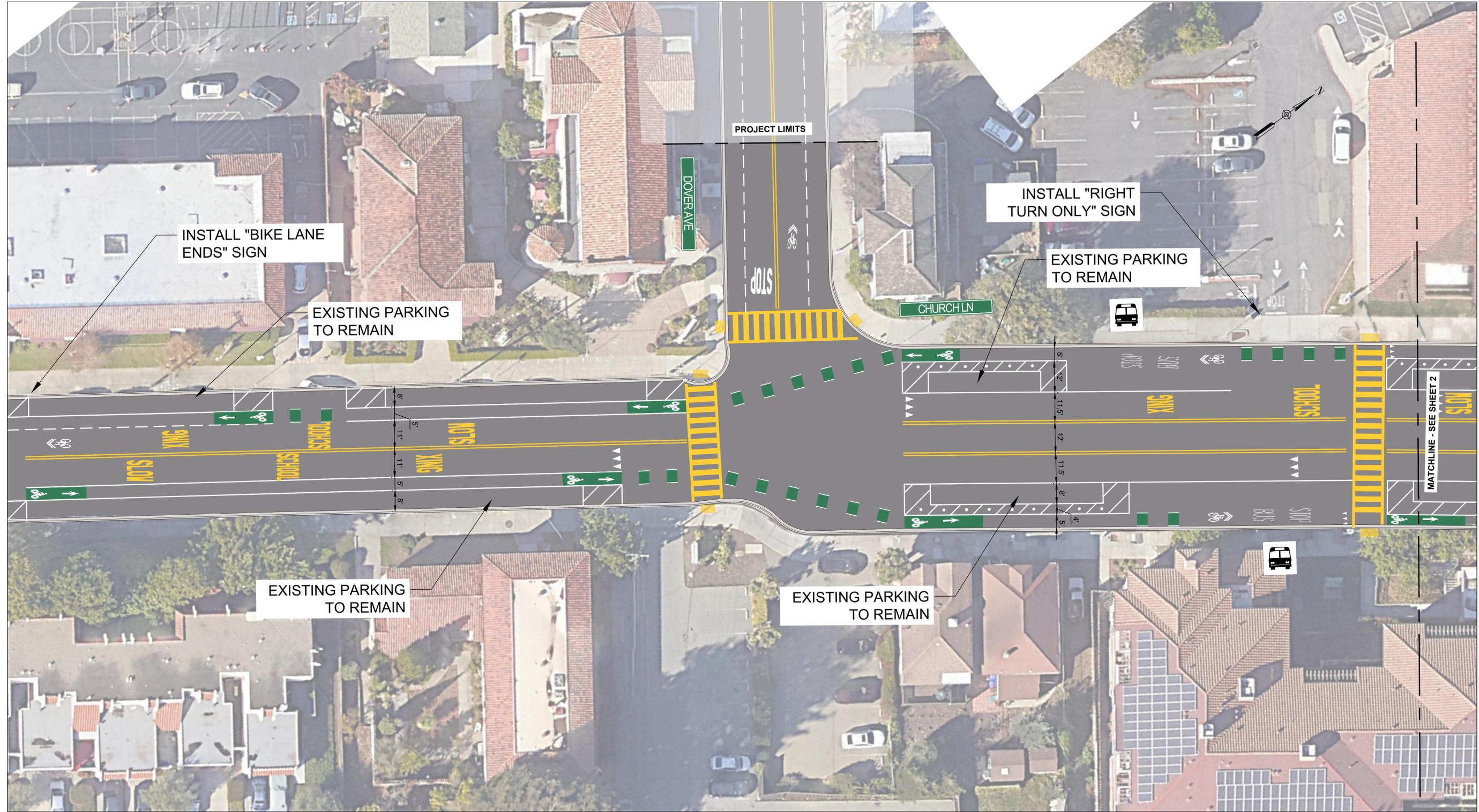
**SAFE ROUTES TO SCHOOL MASTER PLAN**  
CITY OF SAN PABLO

**SAFE ROUTES TO SCHOOL MASTER PLAN**  
ALFREDA BLVD TO SANFORD AVE

PROJECT NO.	F0079
DATE	01-28-2022
DRAWING NO.	TP-01
SHEET NO.	01 of 03

H:\F000\F0079\_P\_San Pablo SRTS Plan\PRODUCTION\CADD\PLANS\F0079\_TP\_Downer.dwg 2/18/2022

**ST PAUL SCHOOL  
CHURCH LANE CONCEPT**



15% DESIGN SUBMISSION  
CONCEPTUAL - NOT FOR CONSTRUCTION

H:\F000\F0079\_P\_San Pablo SRTS Plan\PRODUCTION\CADD\PLANS\F0079\_TP\_SIPaul\_reduced.dwg 3/15/2022

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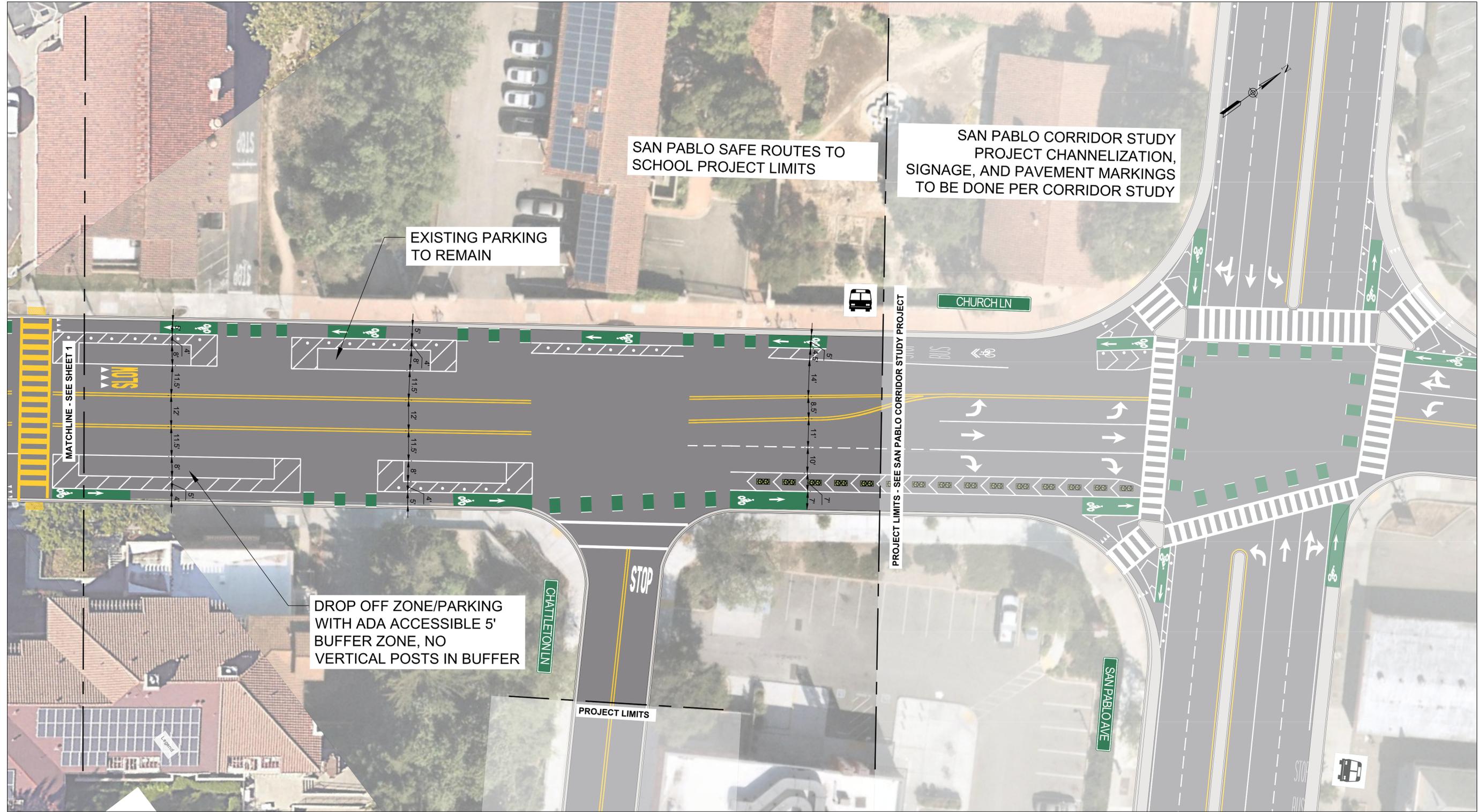
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DSGN	AD		
DR	AD		
CHK	KL		
APVD	MC	NO.	DATE
		REVISION	BY
			APVD

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OAKLAND, CA 94612  
PHONE: 510.298.0740  
FAX: 301.927.2800  
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**SAFE ROUTES TO SCHOOL MASTER PLAN**  
CITY OF SAN PABLO

CIVIL  
**SAFE ROUTES TO SCHOOL MASTER PLAN**  
CHURCH LN AND VILLA DR

PROJECT NO.	F0079
DATE	01-28-2022
DRAWING NO.	TP-01
SHEET NO.	01 of 02



15% DESIGN SUBMISSION  
CONCEPTUAL - NOT FOR CONSTRUCTION

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LICENSE NO. \_\_\_\_\_  
EXPIRATION DATE: \_\_\_\_\_

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DSGN	AD		
DR	AD		
CHK	XXXX		
APVD	XXXX	NO.	DATE
		REVISION	BY
			APVD

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**SAFE ROUTES TO SCHOOL MASTER PLAN**  
CITY OF SAN PABLO

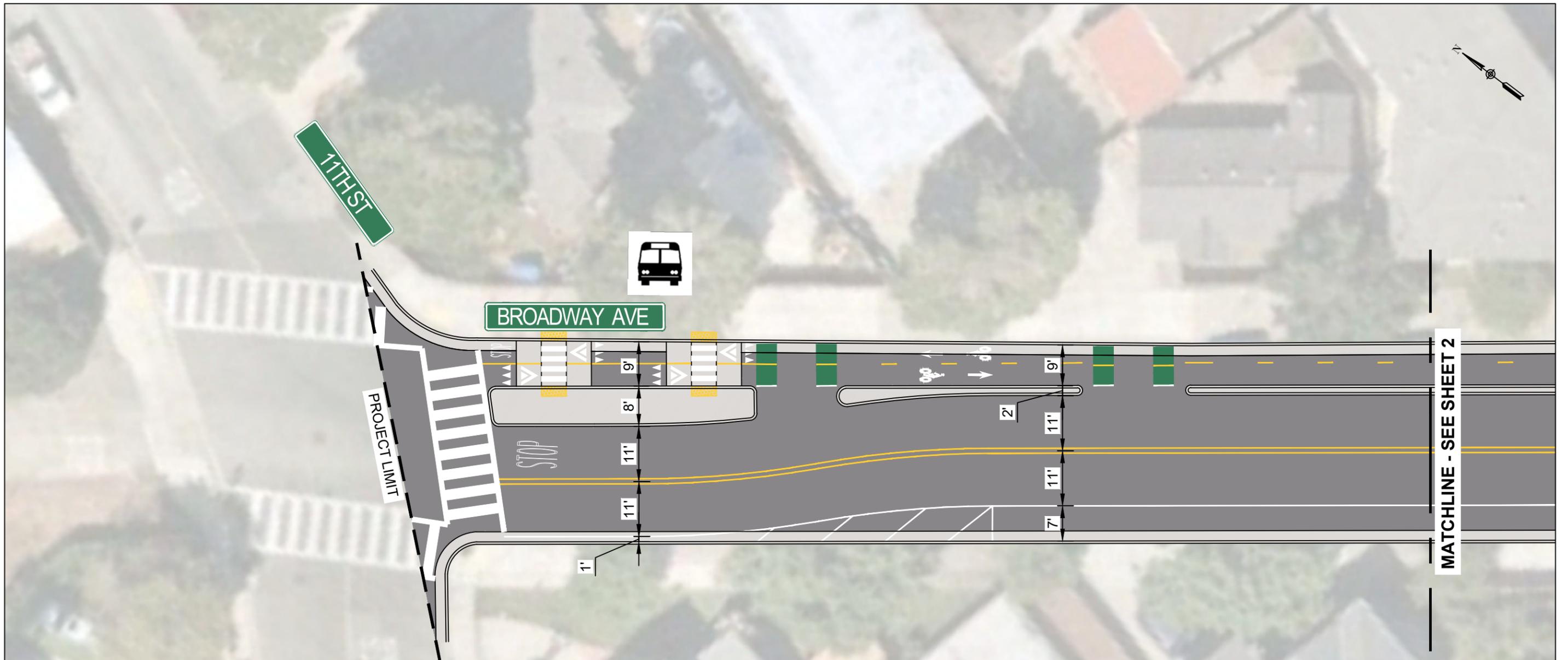
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**SAFE ROUTES TO SCHOOL MASTER PLAN**  
CHURCH LN AND VILLA DR

PROJECT NO.	F0079
DATE	01-28-2022
DRAWING NO.	TP-02
SHEET NO.	02 of 02

# **BAYVIEW AND LAKE ELEMENTARY SCHOOLS**

## **BROADWAY AVENUE CONCEPT**

*(Developed as part of the 2022 San Pablo Bicycle  
and Pedestrian Corridor Study)*



**CONSTRUCTION NOTES**

1. CONSIDER MOUNTABLE/BEVELED BIKEWAY MEDIAN WITHIN 5 FEET OF DRIVEWAYS.
2. RESTRIPE EXISTING TRANSVERSE (BAR) CROSSWALKS AS HIGH-VISIBILITY LADDER CROSSWALKS.
3. CROSSWALKS SHOULD BE SQUARE TO THE CURB WHERE POSSIBLE.
4. GUTTER PAN WIDTH IS 2 FEET, UNLESS NOTED OTHERWISE.
5. REFER TO 2019 SSAR FOR RECOMMENDATIONS ON INTERSECTION DAYLIGHTING AND PEDESTRIAN-SCALE ILLUMINATION. CONSIDER BEST PRACTICES LIKE PLACING LIGHTING IN FRONT OF CROSSWALKS TO AVOID BACKLIT PEDESTRIANS.
6. WHERE APPLICABLE, CONSIDER INSTALLING R13A (CA) "NO RIGHT TURN ON RED" SIGNS AND/OR R9-5

7. "BIKES USE PED SIGNAL" SIGNS AT SIGNALIZED INTERSECTIONS.
7. CONSIDER CURB ACCESS FOR CITY MAINTENANCE TRUCKS TO PICK UP TRASH FROM CITY CANS.
8. CONSIDER RAISED BIKEWAY AT INTERSECTIONS.
9. ALL BUS STOP LOCATIONS SHOULD BE REVIEWED WITH AC TRANSIT AS PART OF FINAL DESIGN.
10. ELEVATED CROSSINGS AT BUS BOARDING ISLANDS MAY BE REDUCED TO ONE CROSSING, PENDING COORDINATION WITH AC TRANSIT.
11. CENTERLINE DELINEATORS TO PREVENT VEHICLE JUMPING AT TRANSIT STOPS SHOULD BE EVALUATED ON A CASE-BY-CASE BASIS.

**TOOLE  
DESIGN**

1635 BROADWAY, SUITE 200, OAKLAND, CA 94612  
PHONE: (510) 298-0740 www.tooledesign.com

**Kimley»Horn**

**BROADWAY AVENUE**  
11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

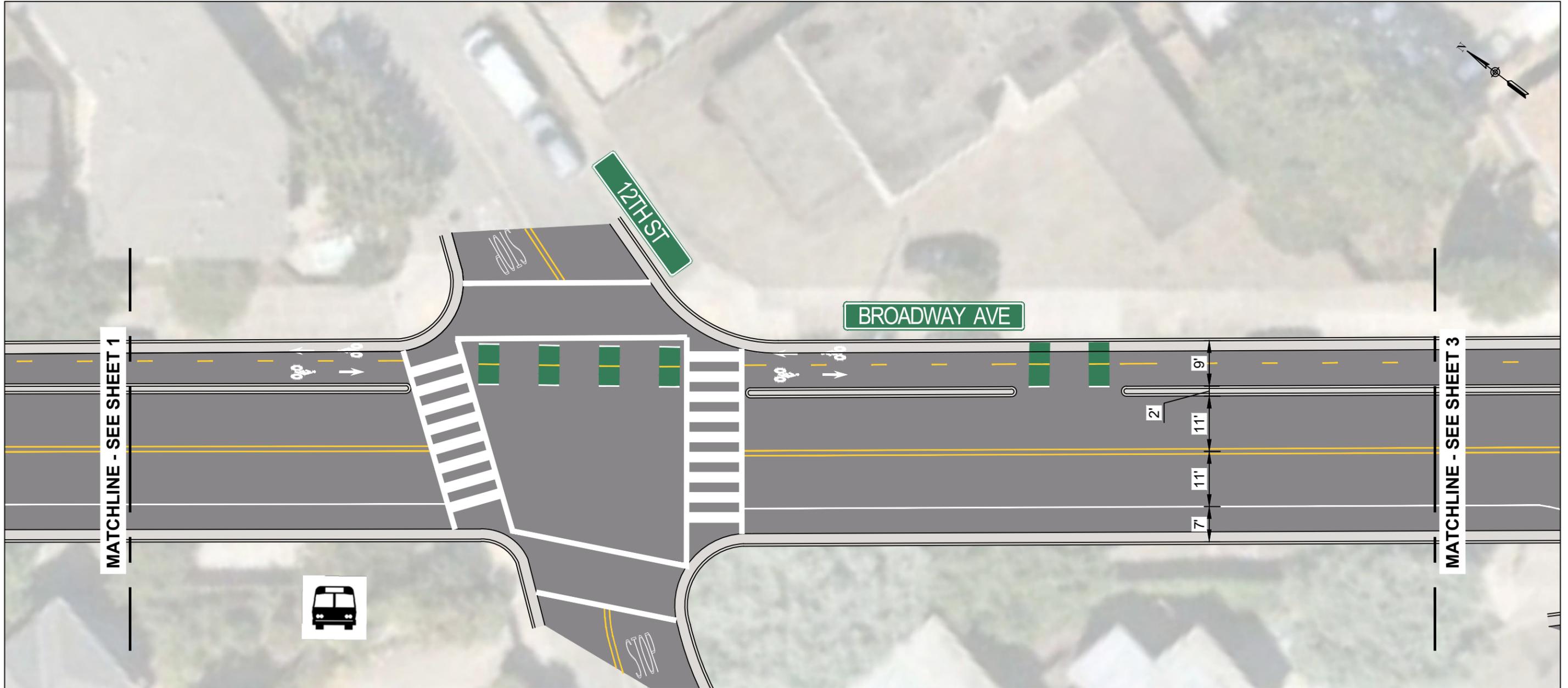


SHEET NUMBER

1 OF 14

PRELIMINARY CONCEPT  
NOT FOR CONSTRUCTION

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**CONSTRUCTION NOTES**

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3. CROSSWALKS SHOULD BE SQUARE TO CURB WHERE POSSIBLE.
4. GUTTER PAN WIDTH IS 2 FEET, UNLESS NOTED OTHERWISE.
5. REFER TO 2019 SSAR FOR RECOMMENDATIONS ON INTERSECTION DAYLIGHTING AND PEDESTRIAN-SCALE ILLUMINATION. CONSIDER BEST PRACTICES LIKE PLACING

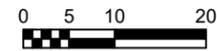
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**Kimley»Horn**

**BROADWAY AVENUE  
11TH STREET TO SAN PABLO AVENUE  
SAN PABLO CORRIDOR STUDY**

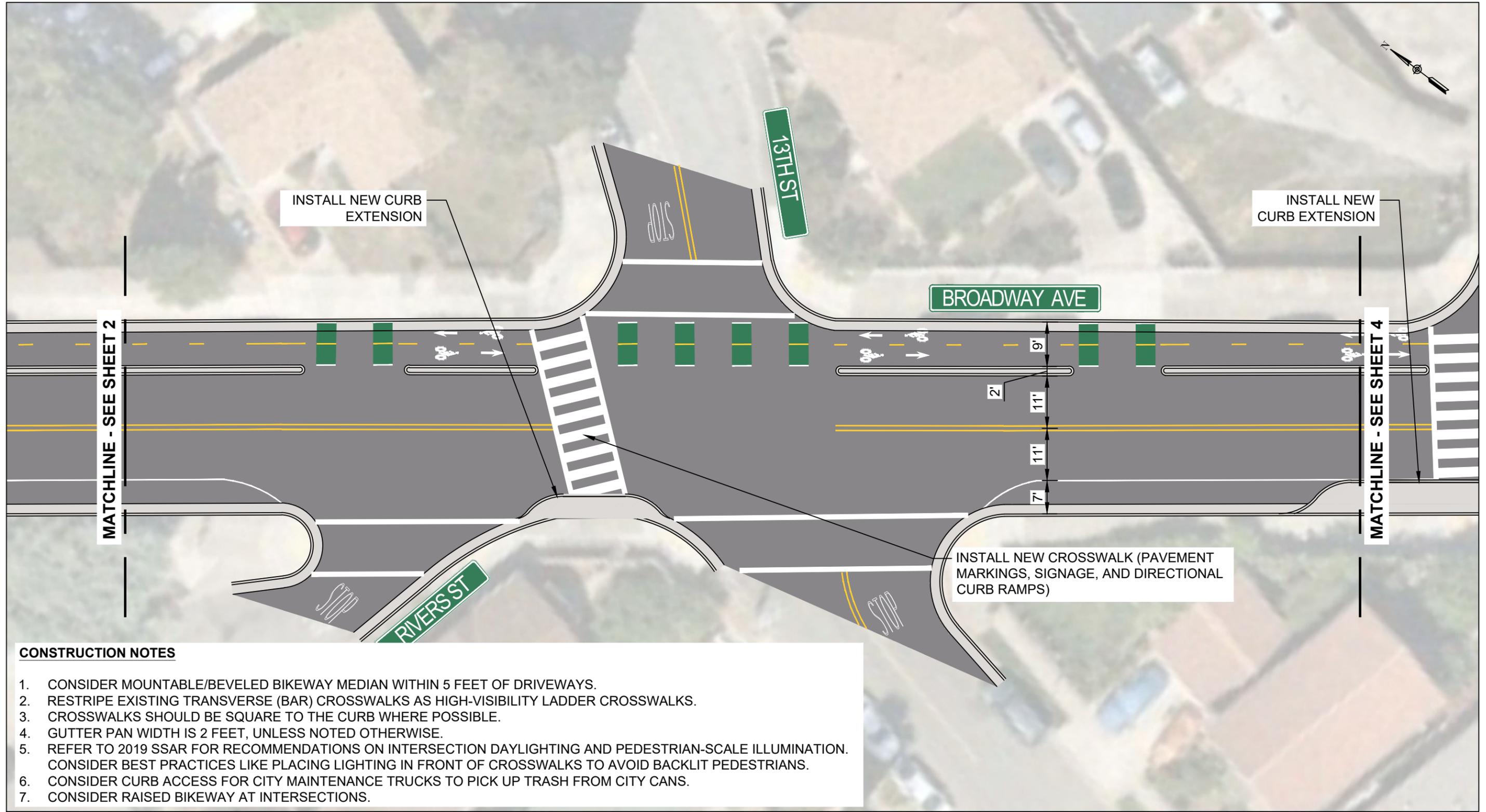


SHEET NUMBER

2 OF 14

PRELIMINARY CONCEPT  
NOT FOR CONSTRUCTION

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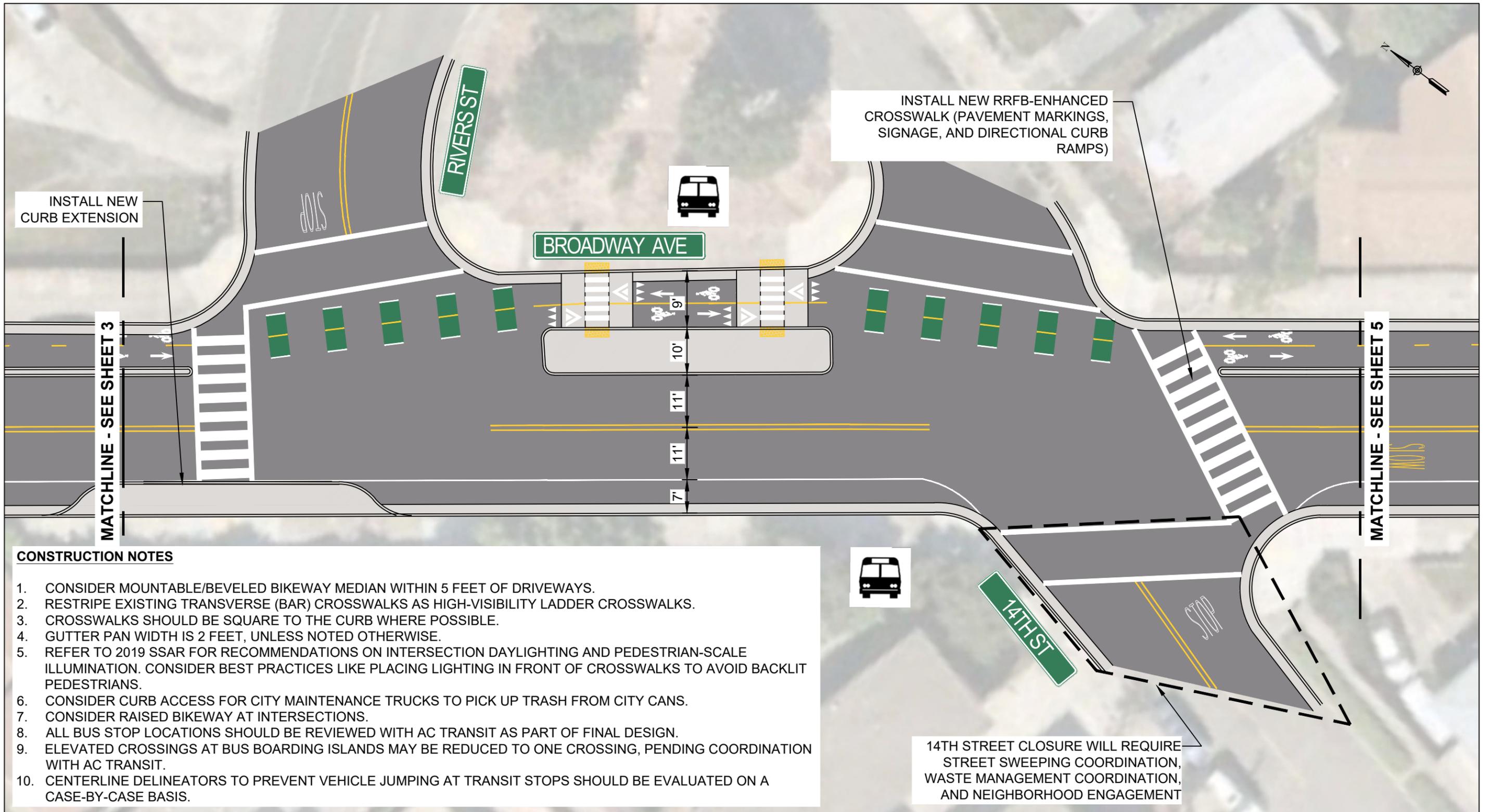
**Kimley»Horn**

**BROADWAY AVENUE**  
 11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**



SHEET NUMBER  
 3 OF 14

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

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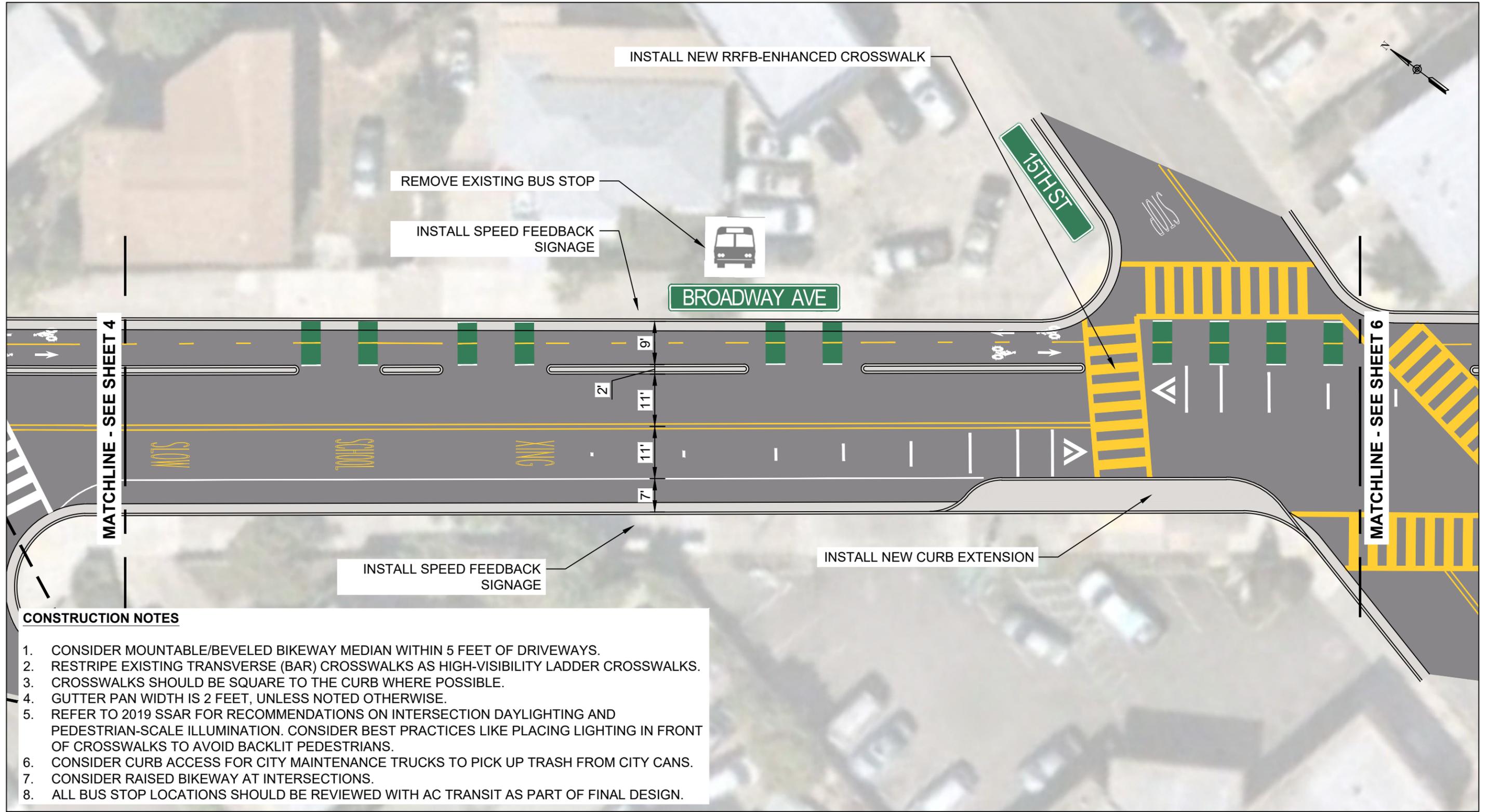
**BROADWAY AVENUE  
11TH STREET TO SAN PABLO AVENUE  
SAN PABLO CORRIDOR STUDY**



SHEET NUMBER  
4 OF 14

PRELIMINARY CONCEPT  
NOT FOR CONSTRUCTION

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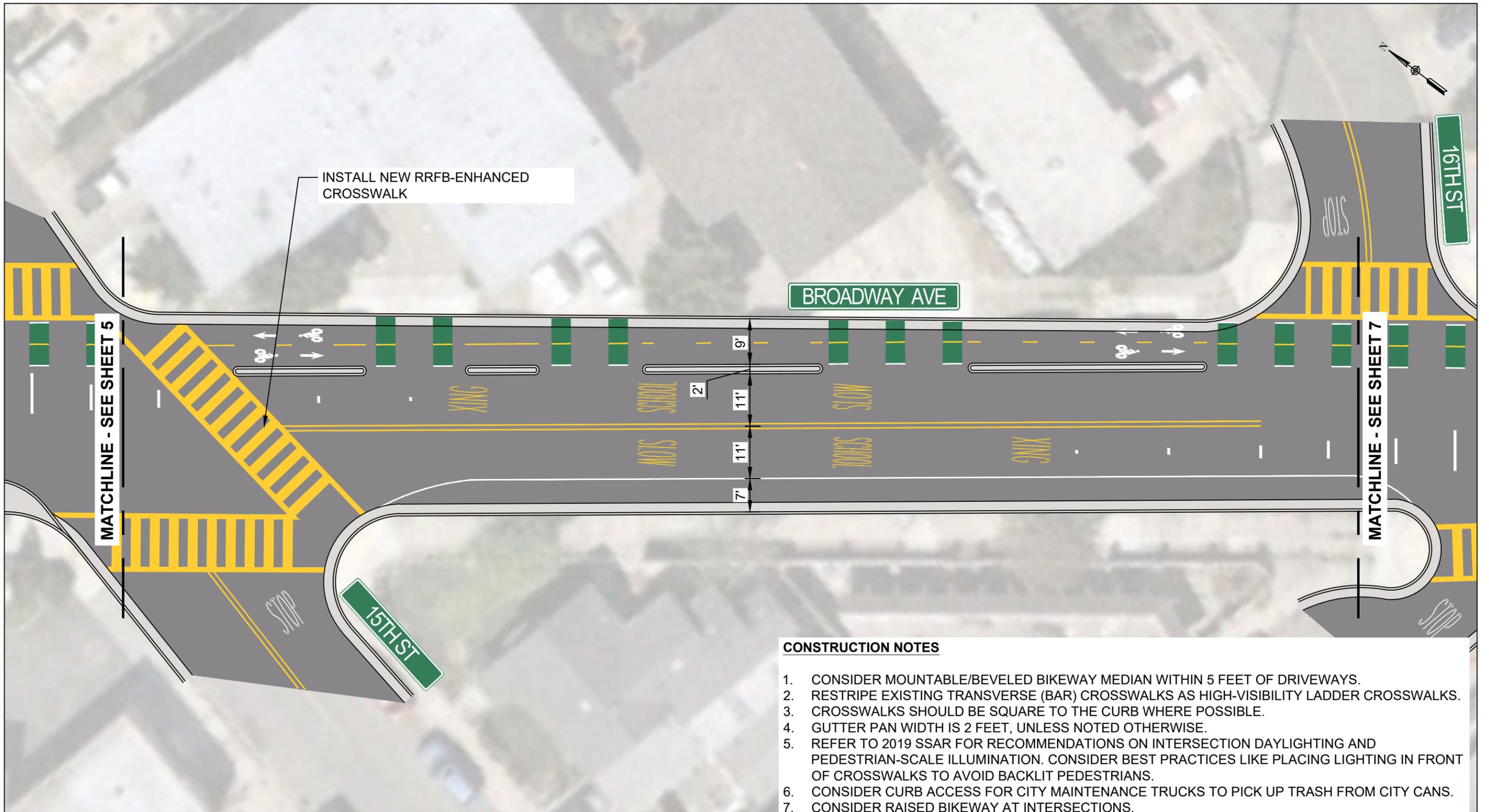
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 PHONE: (510) 298-0740 www.tooledesign.com

**Kimley»Horn**

**BROADWAY AVENUE**  
 11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

0 5 10 20  
 SHEET NUMBER  
 5 OF 14

PRELIMINARY CONCEPT  
 NOT FOR CONSTRUCTION  
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INSTALL NEW RRFB-ENHANCED CROSSWALK

MATCHLINE - SEE SHEET 5

MATCHLINE - SEE SHEET 7

**CONSTRUCTION NOTES**

1. CONSIDER MOUNTABLE/BEVELED BIKEWAY MEDIAN WITHIN 5 FEET OF DRIVEWAYS.
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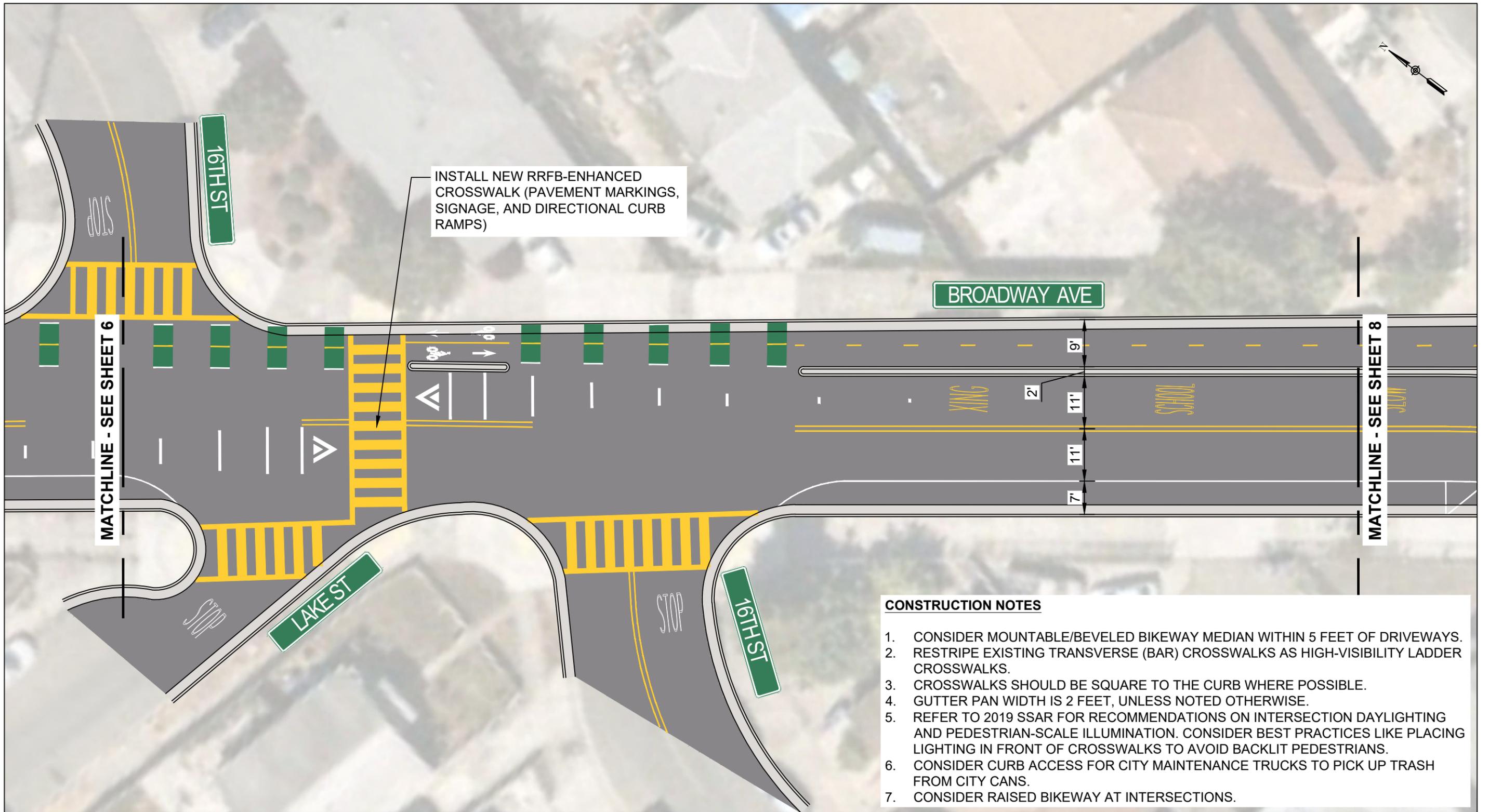
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 PHONE: (510) 298-0740 www.tooledesign.com

**Kimley»Horn**

**BROADWAY AVENUE**  
 11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

0 5 10 20  
 SHEET NUMBER  
 6 OF 14

PRELIMINARY CONCEPT  
 NOT FOR CONSTRUCTION  
*All drawings are instruments of professional service. Reuse or alteration is at the user's sole risk.*



INSTALL NEW RRFB-ENHANCED CROSSWALK (PAVEMENT MARKINGS, SIGNAGE, AND DIRECTIONAL CURB RAMPS)

**CONSTRUCTION NOTES**

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**TOOLE DESIGN**

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**Kimley»Horn**

**BROADWAY AVENUE**  
11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

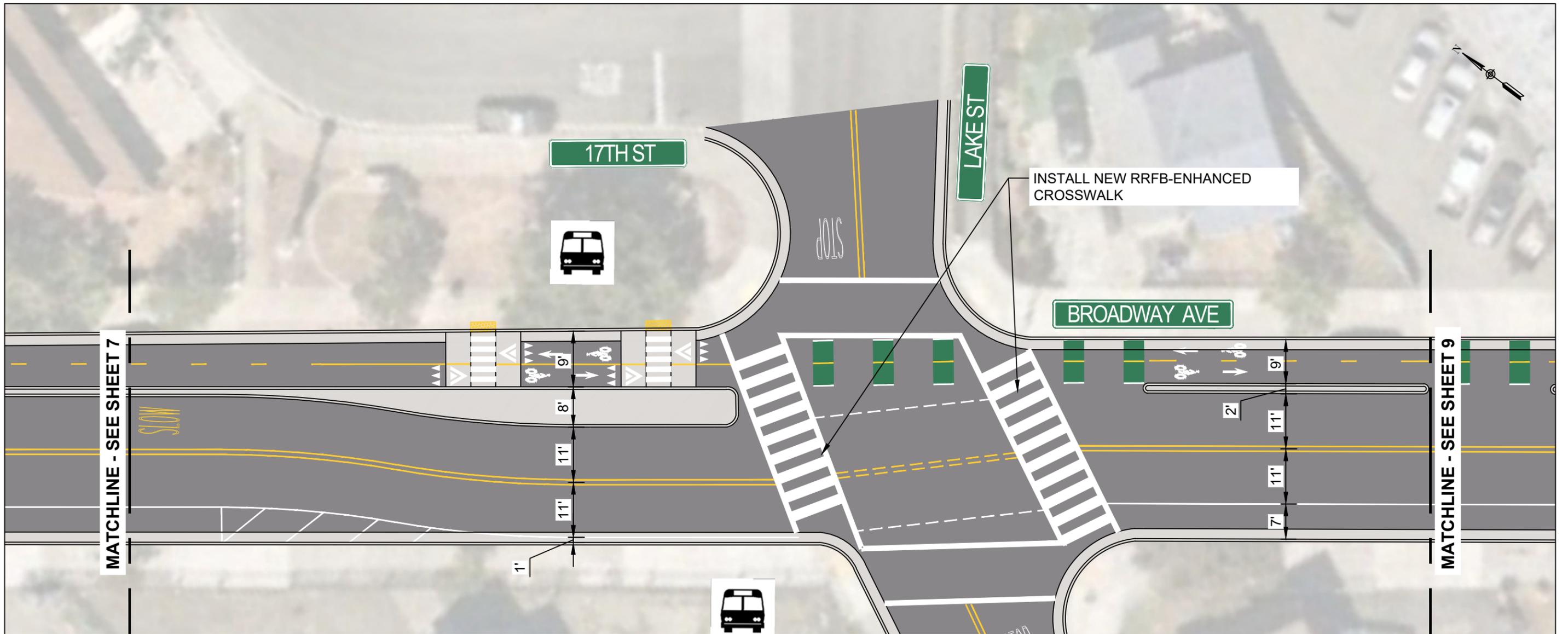


SHEET NUMBER

7 OF 14

PRELIMINARY CONCEPT  
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**TOOLE  
DESIGN**

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**Kimley»Horn**

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11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

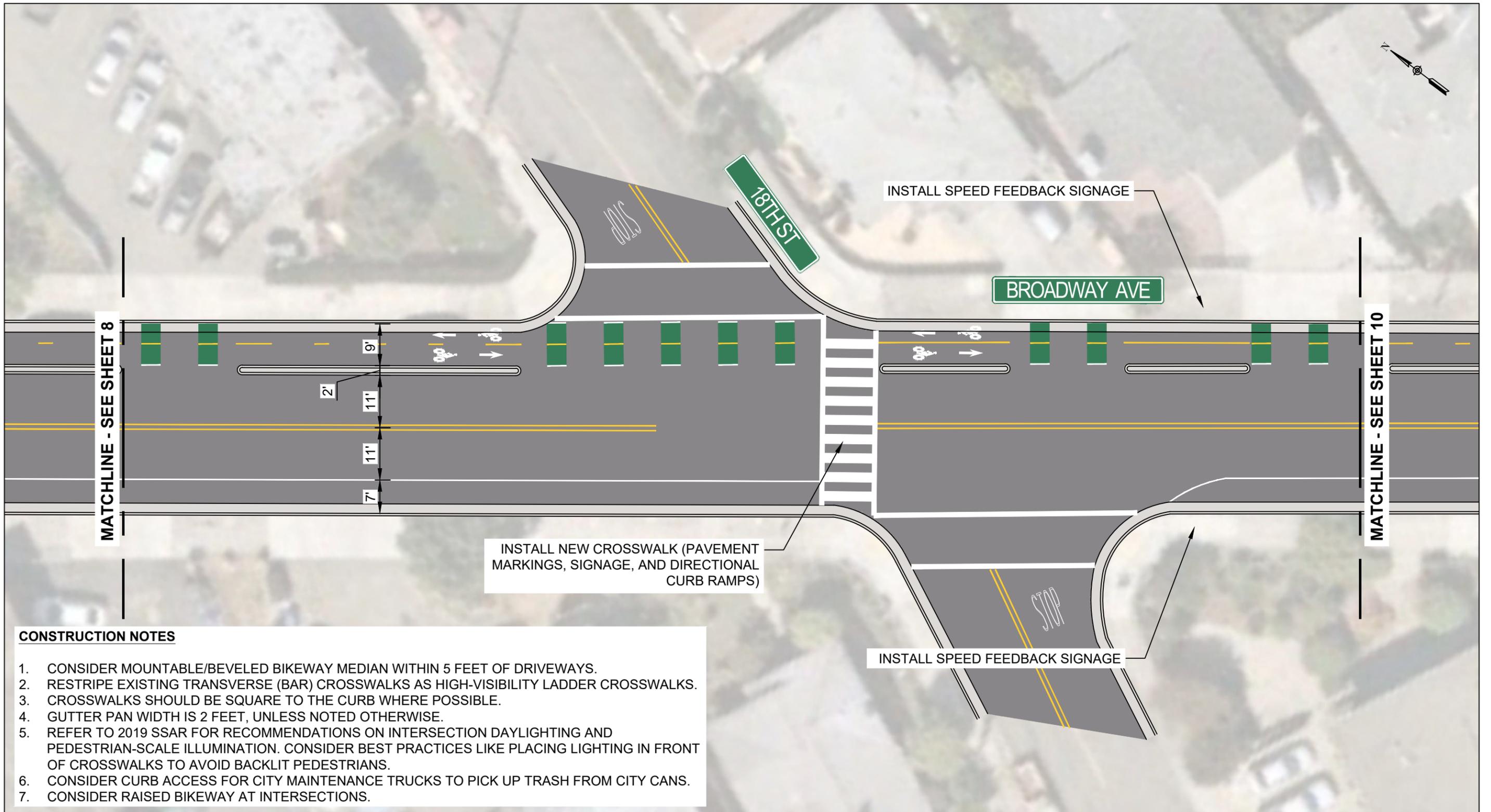


SHEET NUMBER

8 OF 14

PRELIMINARY CONCEPT  
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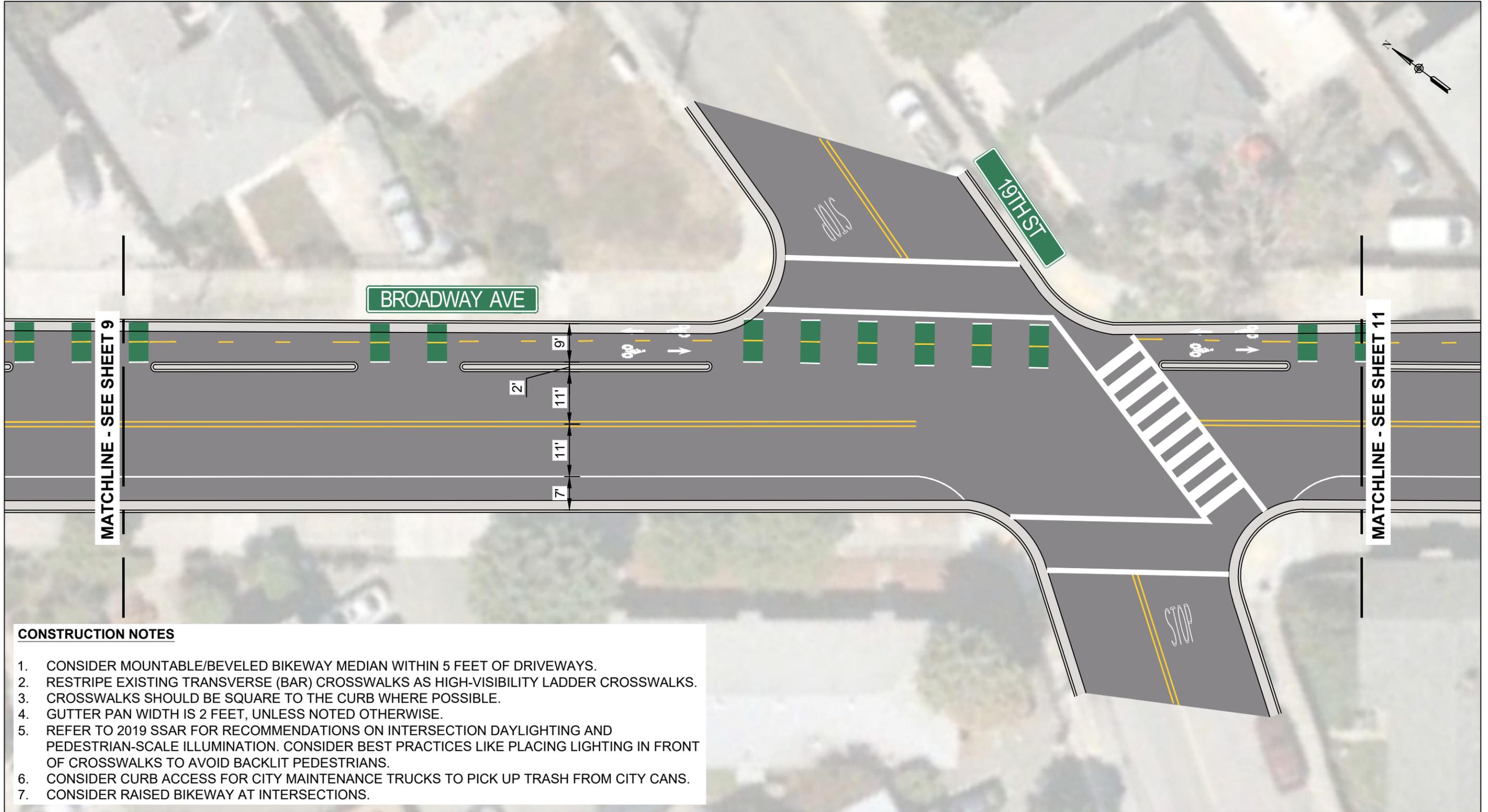
**Kimley»Horn**

**BROADWAY AVENUE**  
 11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**



SHEET NUMBER  
 9 OF 14

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

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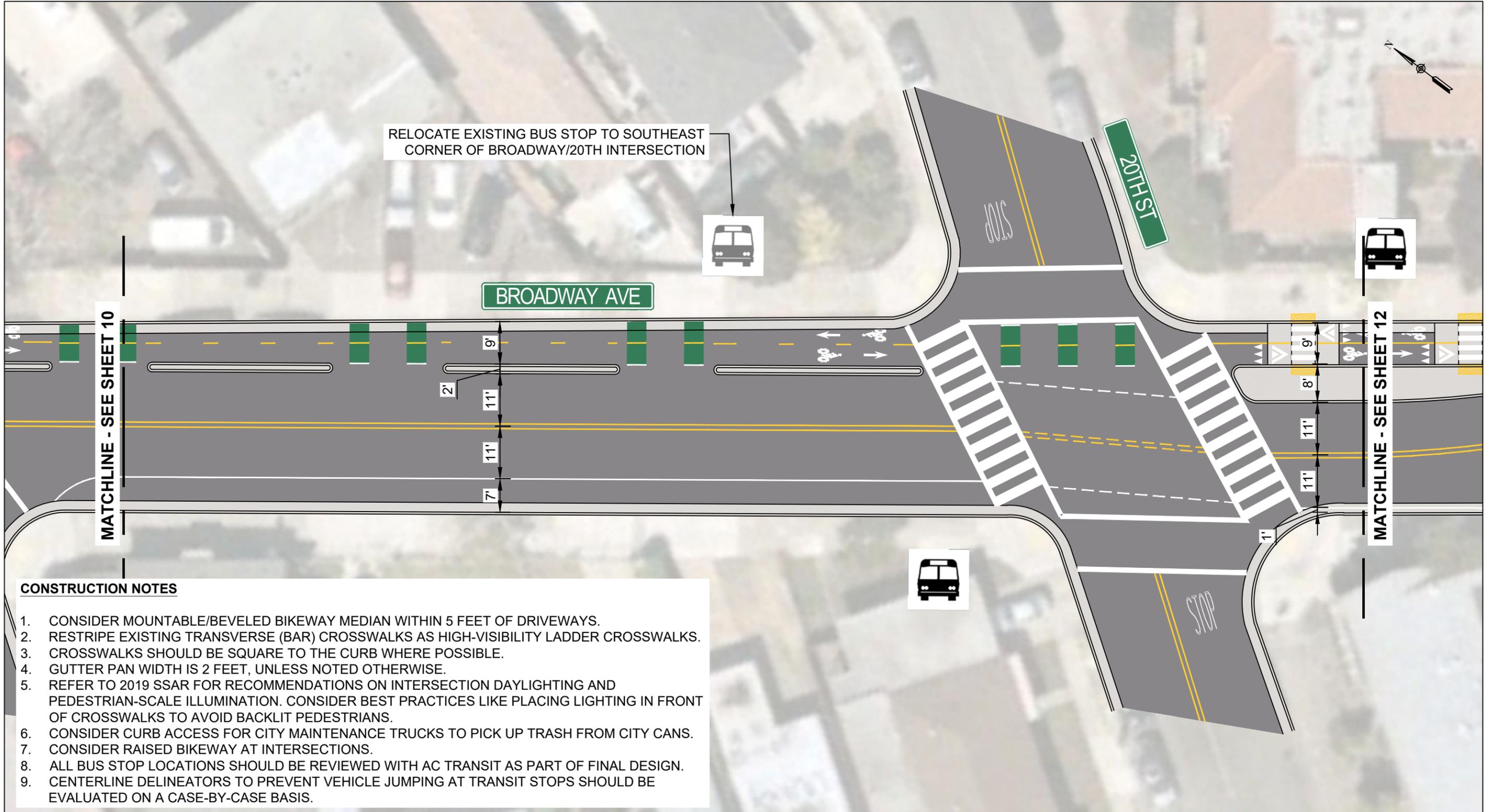
**BROADWAY AVENUE  
11TH STREET TO SAN PABLO AVENUE  
SAN PABLO CORRIDOR STUDY**



SHEET NUMBER  
10 OF 14

PRELIMINARY CONCEPT  
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DESIGN

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Kimley»Horn

BROADWAY AVENUE  
11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

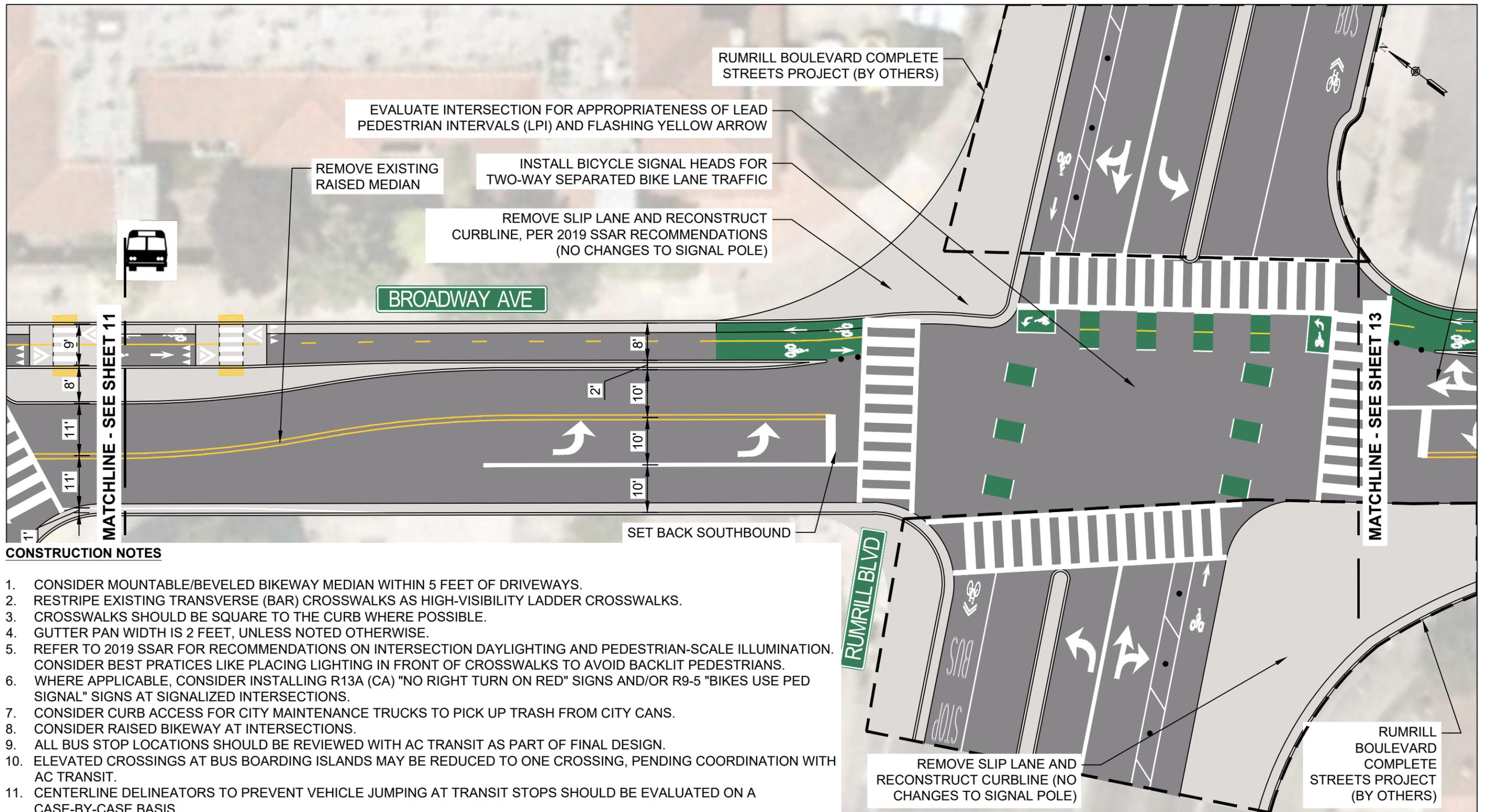


SHEET NUMBER

11 OF 14

PRELIMINARY CONCEPT  
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8. CONSIDER RAISED BIKEWAY AT INTERSECTIONS.
9. ALL BUS STOP LOCATIONS SHOULD BE REVIEWED WITH AC TRANSIT AS PART OF FINAL DESIGN.
10. ELEVATED CROSSINGS AT BUS BOARDING ISLANDS MAY BE REDUCED TO ONE CROSSING, PENDING COORDINATION WITH AC TRANSIT.
11. CENTERLINE DELINEATORS TO PREVENT VEHICLE JUMPING AT TRANSIT STOPS SHOULD BE EVALUATED ON A CASE-BY-CASE BASIS.

**TOOLE  
DESIGN**

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**Kimley»Horn**

**BROADWAY AVENUE**  
11TH STREET TO SAN PABLO AVENUE  
**SAN PABLO CORRIDOR STUDY**

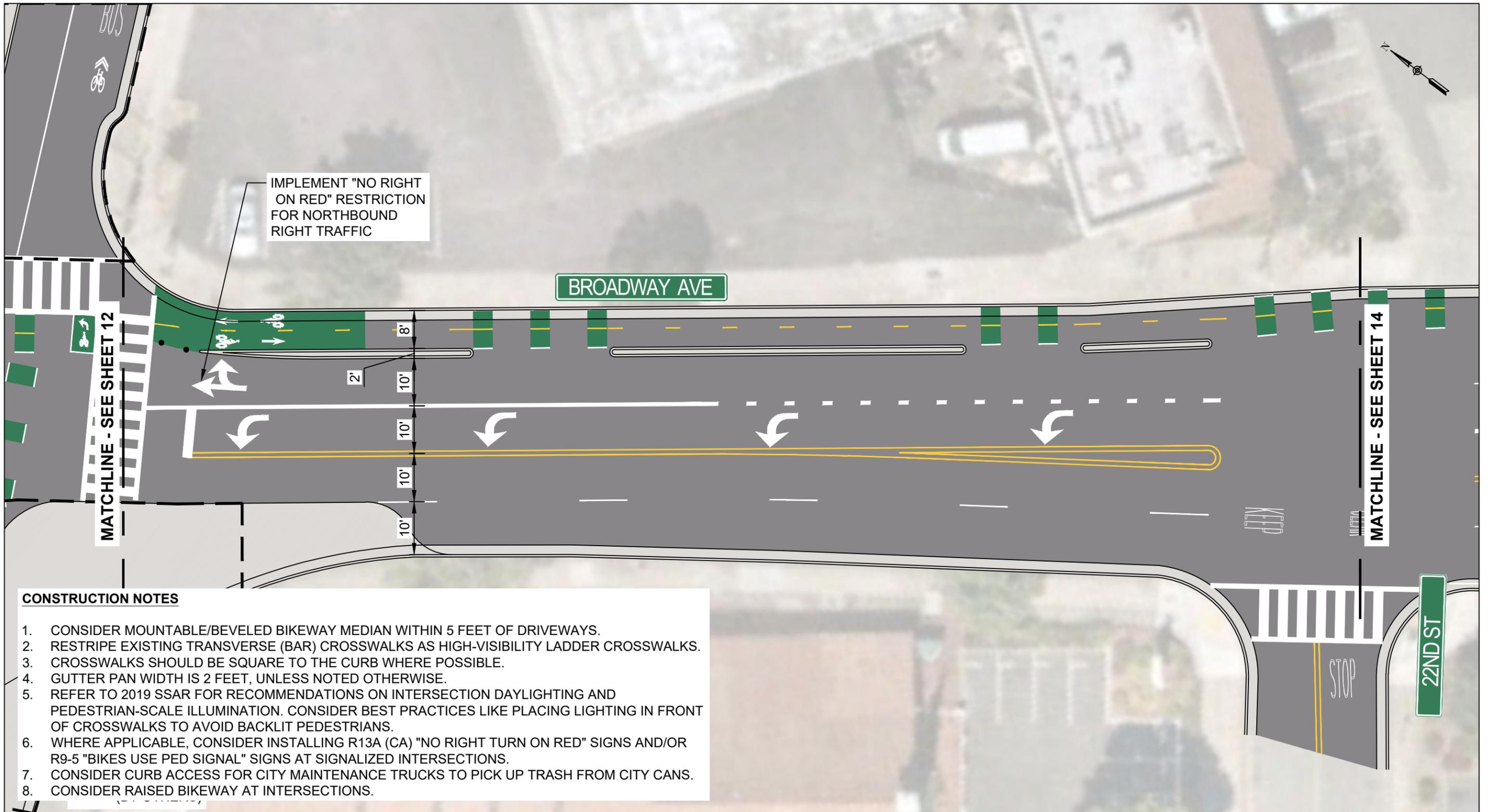


SHEET NUMBER

12 OF 14

**PRELIMINARY CONCEPT  
NOT FOR CONSTRUCTION**

*All drawings are instruments of professional service. Reuse or alteration is at the user's sole risk.*



**CONSTRUCTION NOTES**

1. CONSIDER MOUNTABLE/BEVELED BIKEWAY MEDIAN WITHIN 5 FEET OF DRIVEWAYS.
2. RESTRIPE EXISTING TRANSVERSE (BAR) CROSSWALKS AS HIGH-VISIBILITY LADDER CROSSWALKS.
3. CROSSWALKS SHOULD BE SQUARE TO THE CURB WHERE POSSIBLE.
4. GUTTER PAN WIDTH IS 2 FEET, UNLESS NOTED OTHERWISE.
5. REFER TO 2019 SSAR FOR RECOMMENDATIONS ON INTERSECTION DAYLIGHTING AND PEDESTRIAN-SCALE ILLUMINATION. CONSIDER BEST PRACTICES LIKE PLACING LIGHTING IN FRONT OF CROSSWALKS TO AVOID BACKLIT PEDESTRIANS.
6. WHERE APPLICABLE, CONSIDER INSTALLING R13A (CA) "NO RIGHT TURN ON RED" SIGNS AND/OR R9-5 "BIKES USE PED SIGNAL" SIGNS AT SIGNALIZED INTERSECTIONS.
7. CONSIDER CURB ACCESS FOR CITY MAINTENANCE TRUCKS TO PICK UP TRASH FROM CITY CANS.
8. CONSIDER RAISED BIKEWAY AT INTERSECTIONS.

**TOOLE  
DESIGN**

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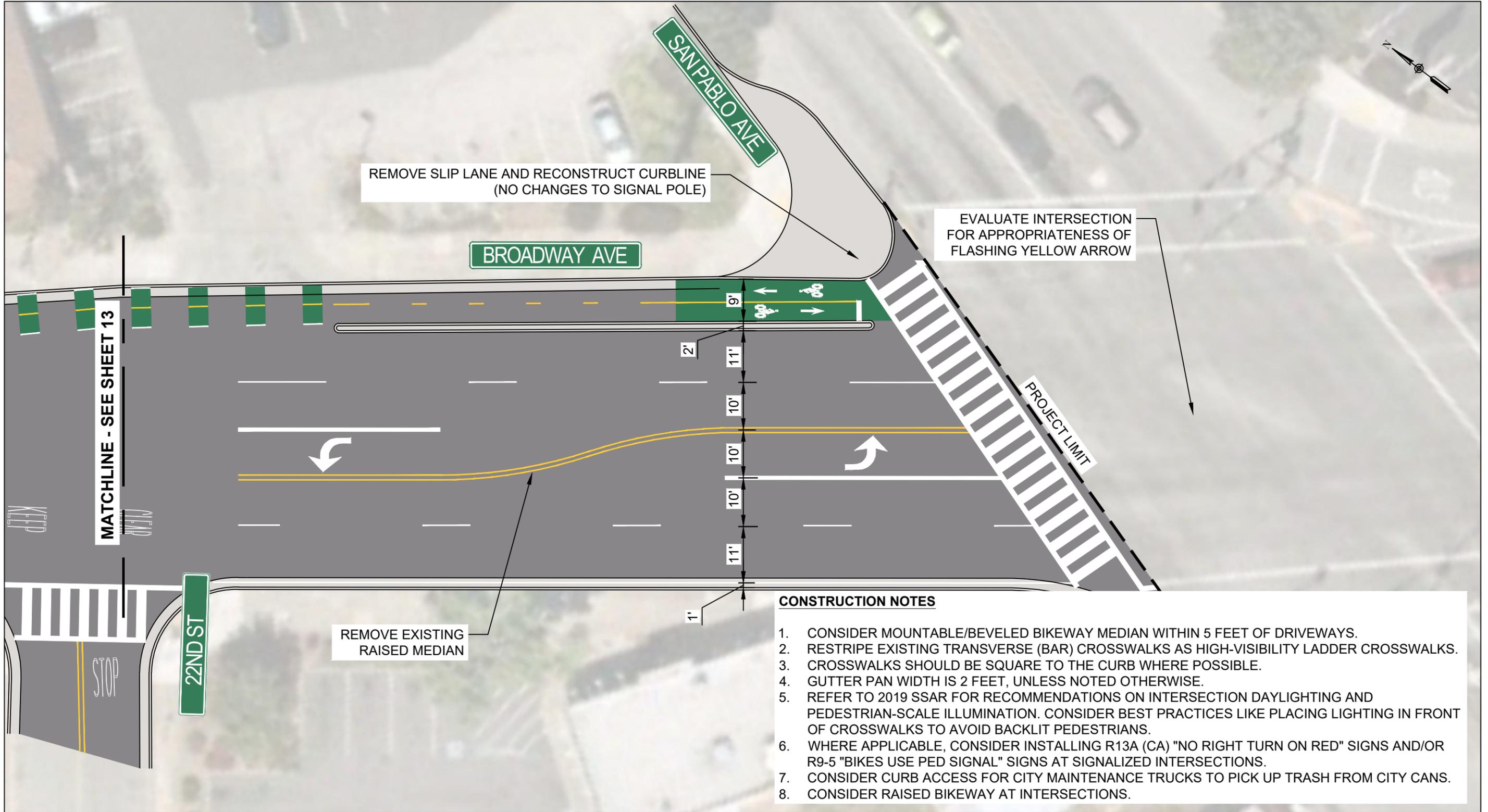


SHEET NUMBER

13 OF 14

PRELIMINARY CONCEPT  
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11TH STREET TO SAN PABLO AVENUE  
SAN PABLO CORRIDOR STUDY**



SHEET NUMBER

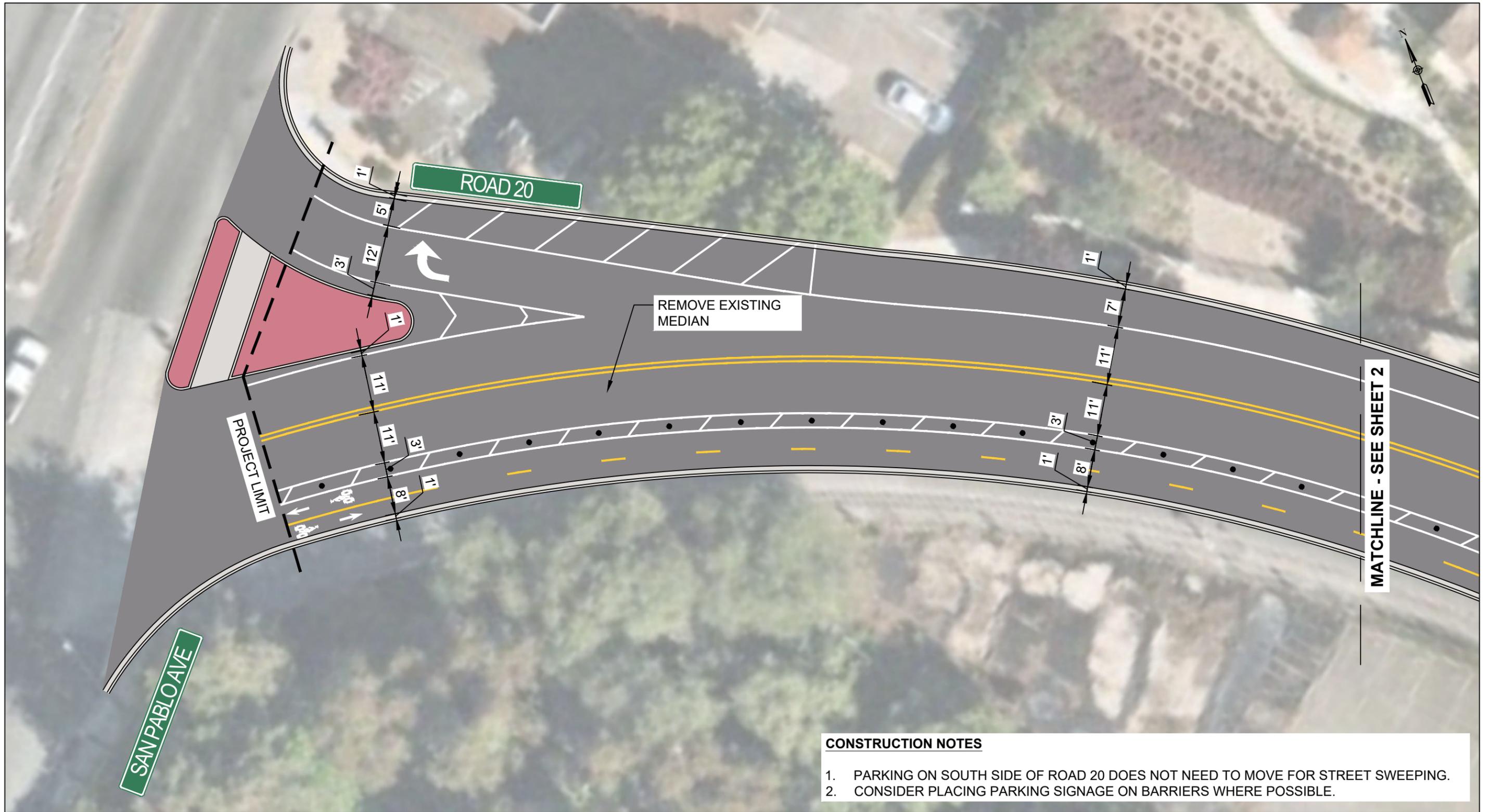
14 OF 14

PRELIMINARY CONCEPT  
NOT FOR CONSTRUCTION

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# **HELMS MIDDLE SCHOOL ROAD 20 CONCEPT**

*(Developed as part of the 2022 San Pablo Bicycle  
and Pedestrian Corridor Study)*



- CONSTRUCTION NOTES**
1. PARKING ON SOUTH SIDE OF ROAD 20 DOES NOT NEED TO MOVE FOR STREET SWEEPING.
  2. CONSIDER PLACING PARKING SIGNAGE ON BARRIERS WHERE POSSIBLE.

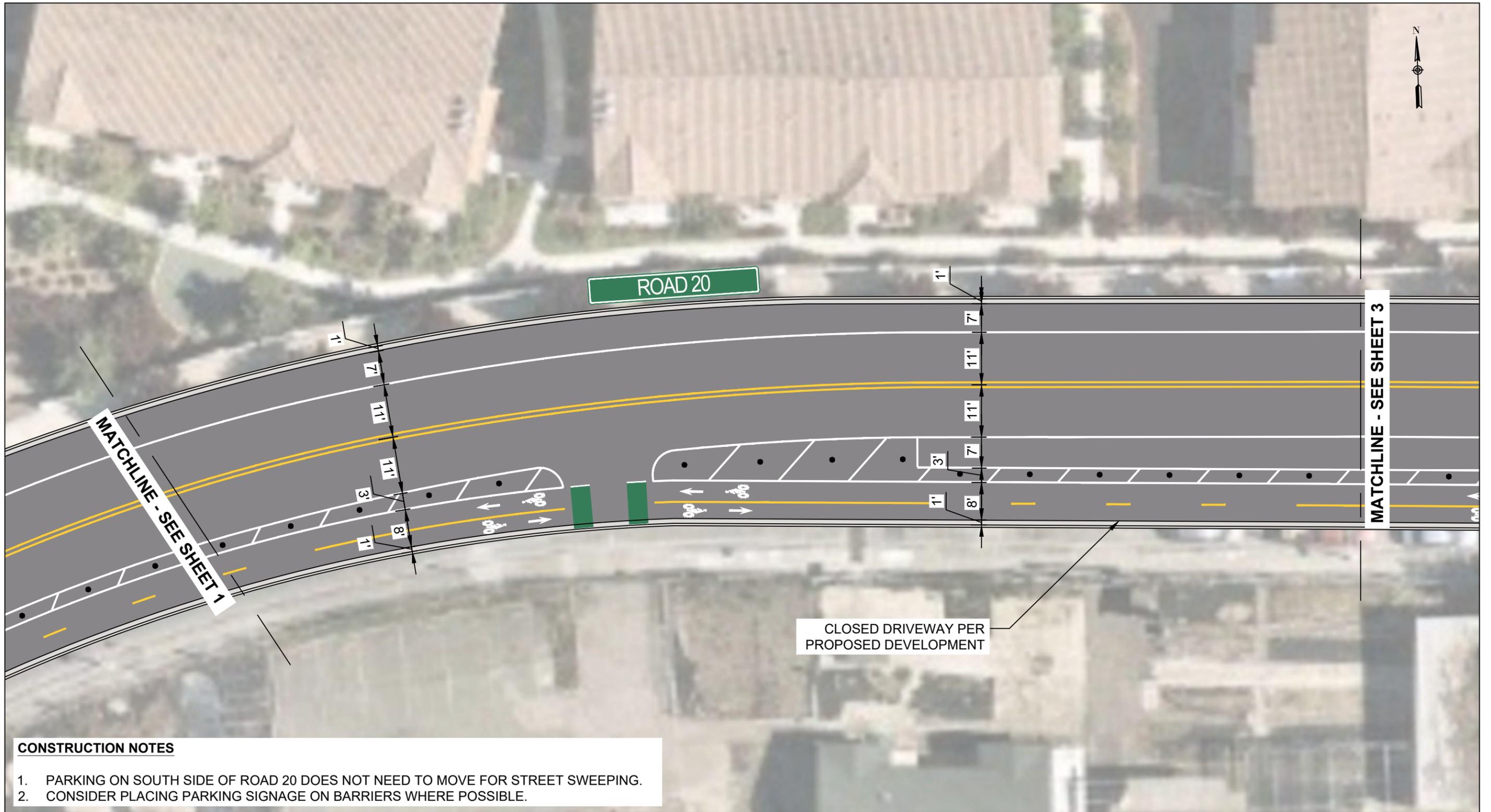
**TOOLE DESIGN**  
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**Kimley»Horn**

ROAD 20  
 SAN PABLO AVENUE TO EL PORTAL DRIVE  
**SAN PABLO CORRIDOR STUDY**

0 5 10 20  
 SHEET NUMBER  
 1 OF 9

PRELIMINARY CONCEPT  
 NOT FOR CONSTRUCTION  
*All drawings are instruments of professional service. Reuse or alteration is at the user's sole risk.*



**CONSTRUCTION NOTES**

1. PARKING ON SOUTH SIDE OF ROAD 20 DOES NOT NEED TO MOVE FOR STREET SWEEPING.
2. CONSIDER PLACING PARKING SIGNAGE ON BARRIERS WHERE POSSIBLE.

CLOSED DRIVEWAY PER PROPOSED DEVELOPMENT

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DESIGN**

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**Kimley»Horn**

**ROAD 20**  
SAN PABLO AVENUE TO EL PORTAL DRIVE  
**SAN PABLO CORRIDOR STUDY**

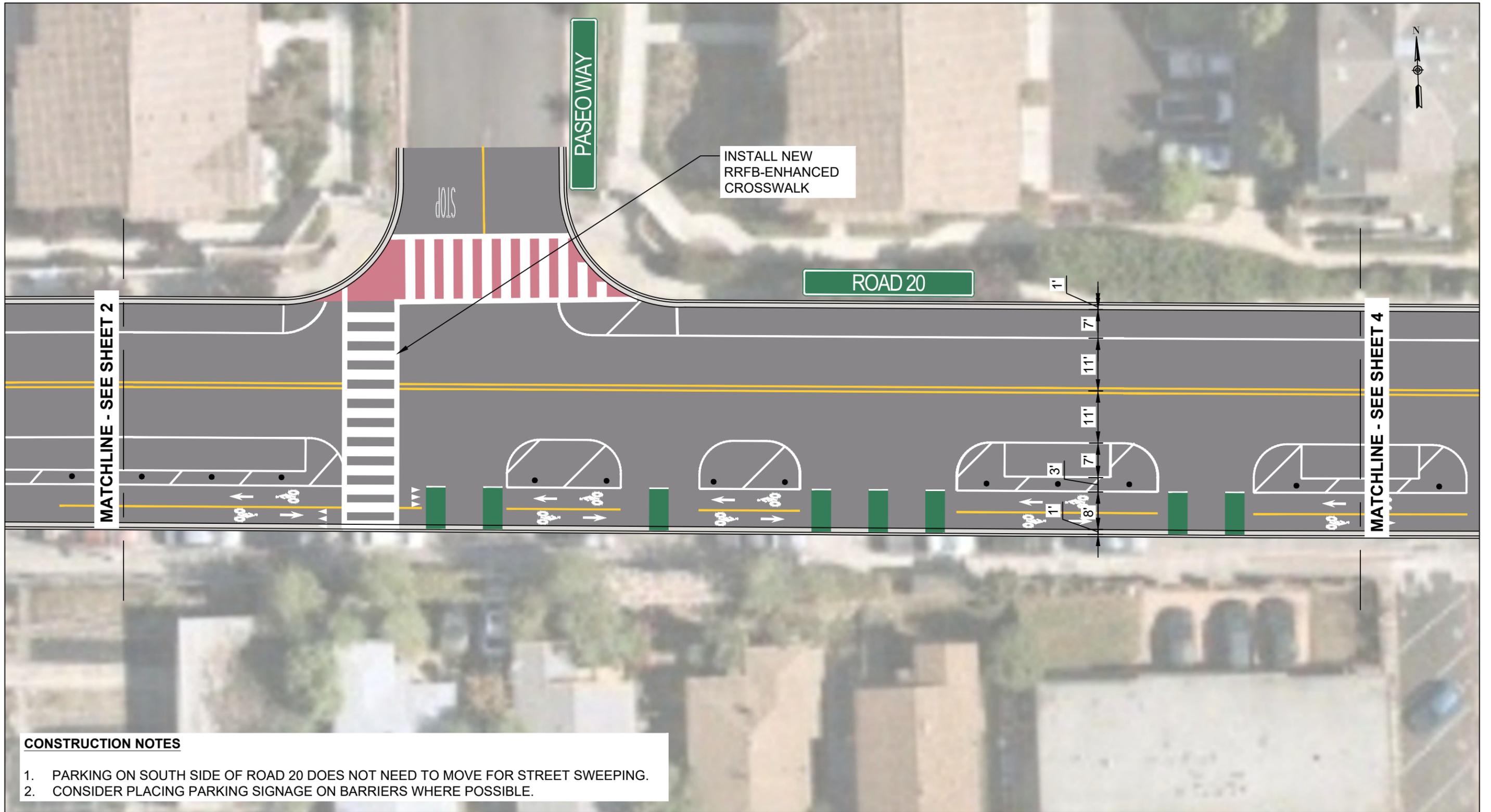


SHEET NUMBER

2 OF 9

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

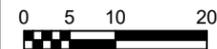
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**ROAD 20**  
SAN PABLO AVENUE TO EL PORTAL DRIVE  
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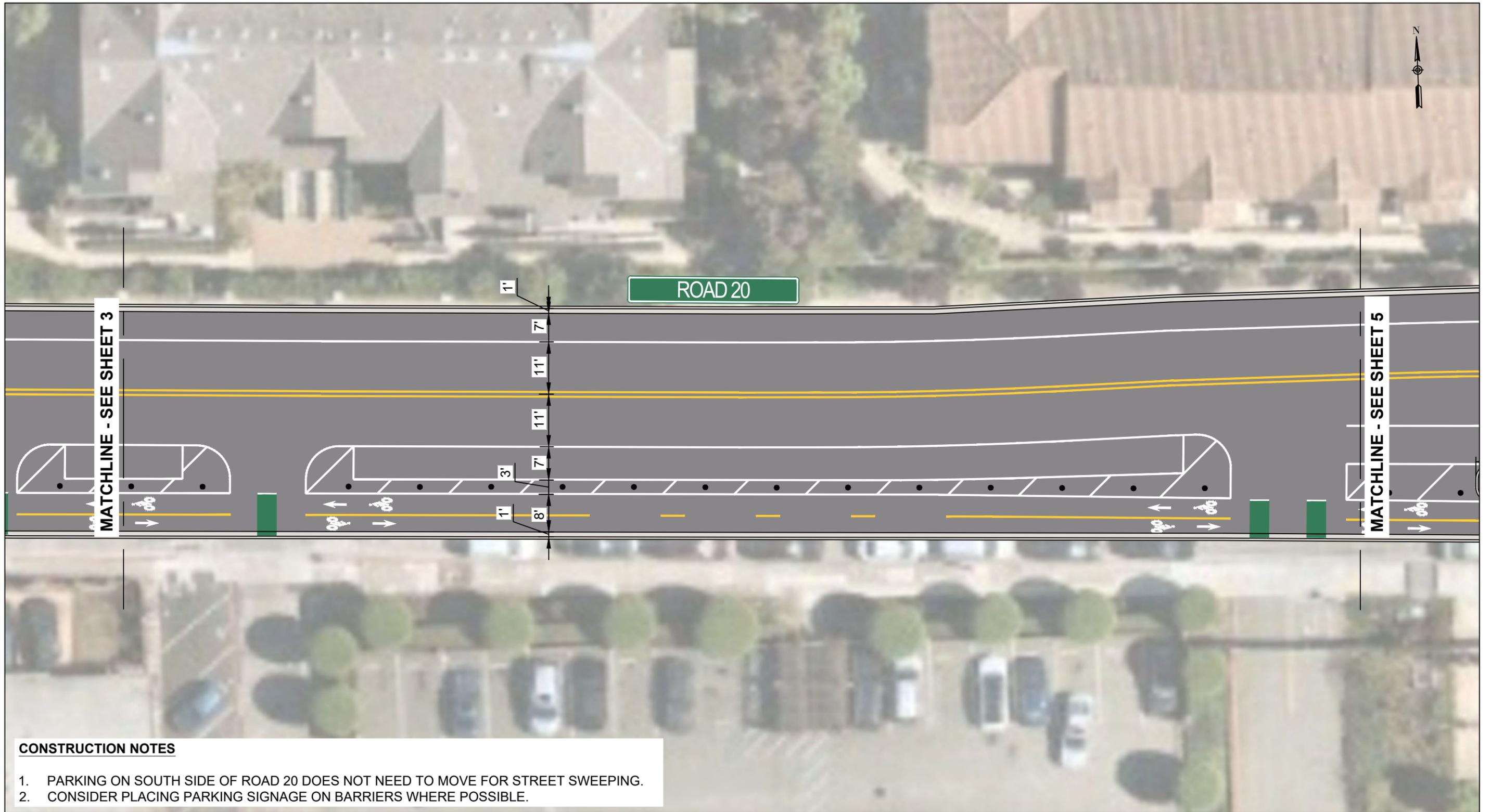


SHEET NUMBER

3 OF 9

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

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DESIGN**

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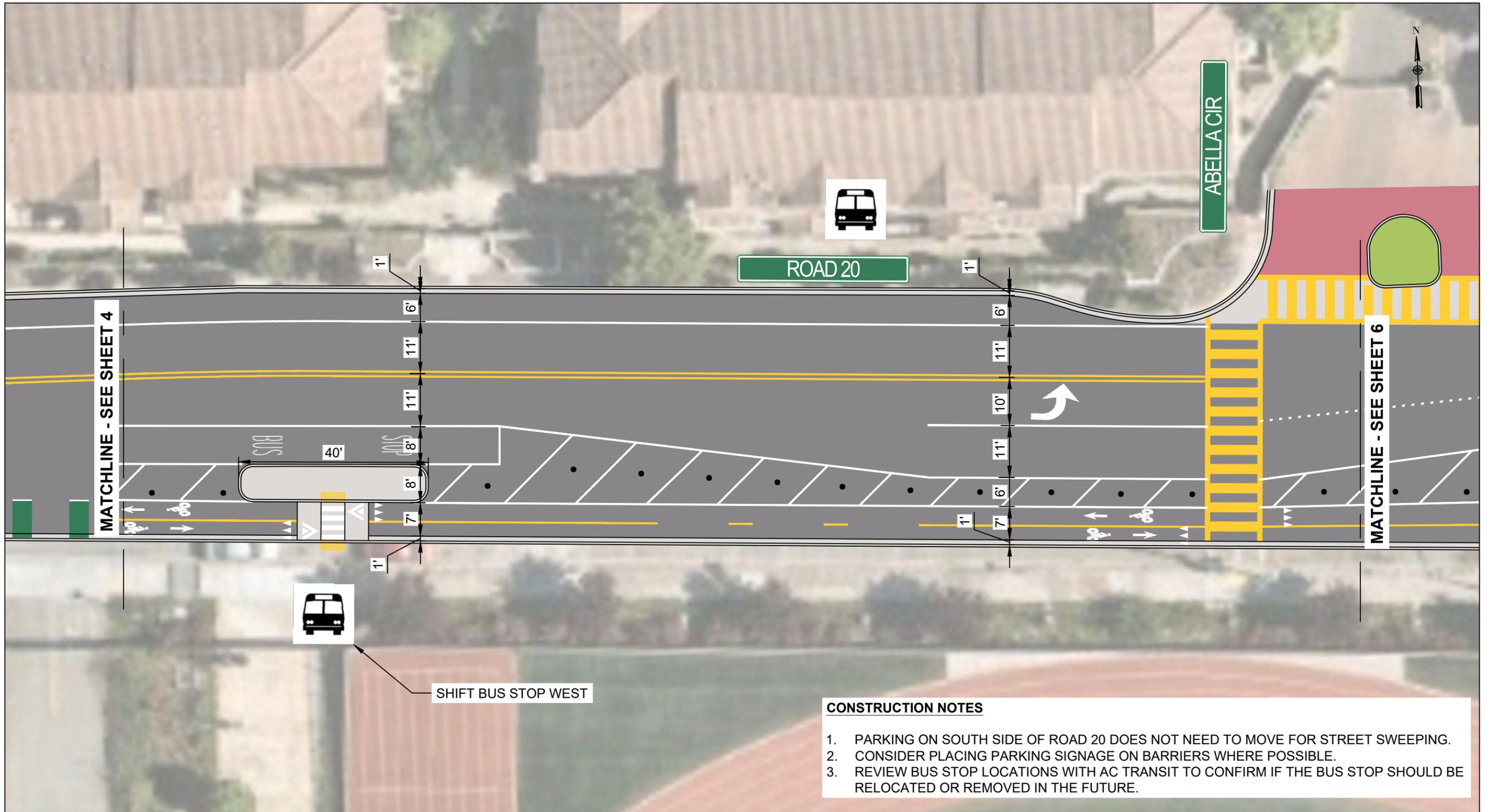


SHEET NUMBER

4 OF 9

PRELIMINARY CONCEPT  
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- CONSTRUCTION NOTES**
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  3. REVIEW BUS STOP LOCATIONS WITH AC TRANSIT TO CONFIRM IF THE BUS STOP SHOULD BE RELOCATED OR REMOVED IN THE FUTURE.

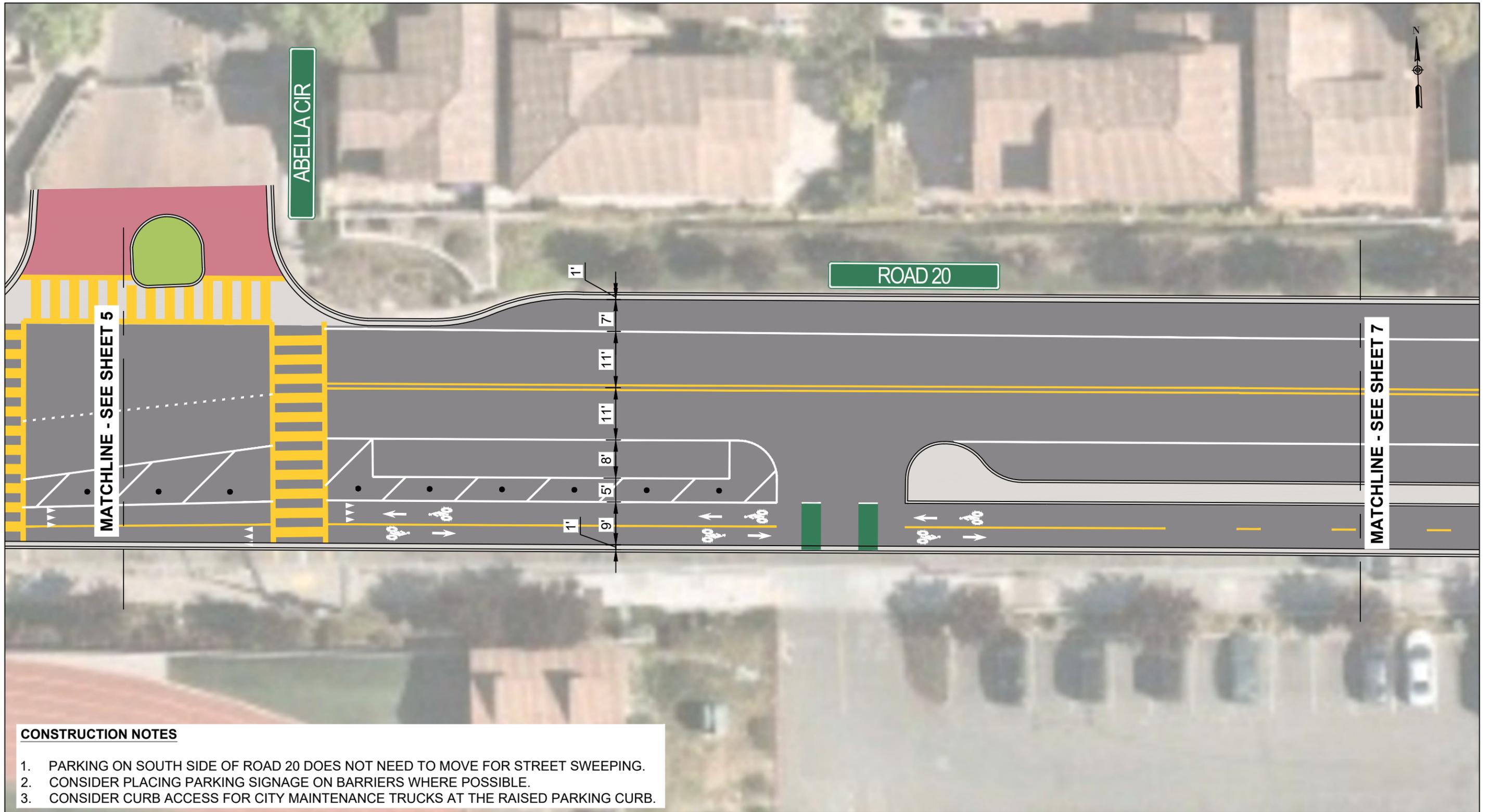
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**ROAD 20**  
 SAN PABLO AVENUE TO EL PORTAL DRIVE  
**SAN PABLO CORRIDOR STUDY**

0 5 10 20  
 SHEET NUMBER  
 5 OF 9

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

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2. CONSIDER PLACING PARKING SIGNAGE ON BARRIERS WHERE POSSIBLE.
3. CONSIDER CURB ACCESS FOR CITY MAINTENANCE TRUCKS AT THE RAISED PARKING CURB.

**TOOLE  
DESIGN**

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SAN PABLO AVENUE TO EL PORTAL DRIVE  
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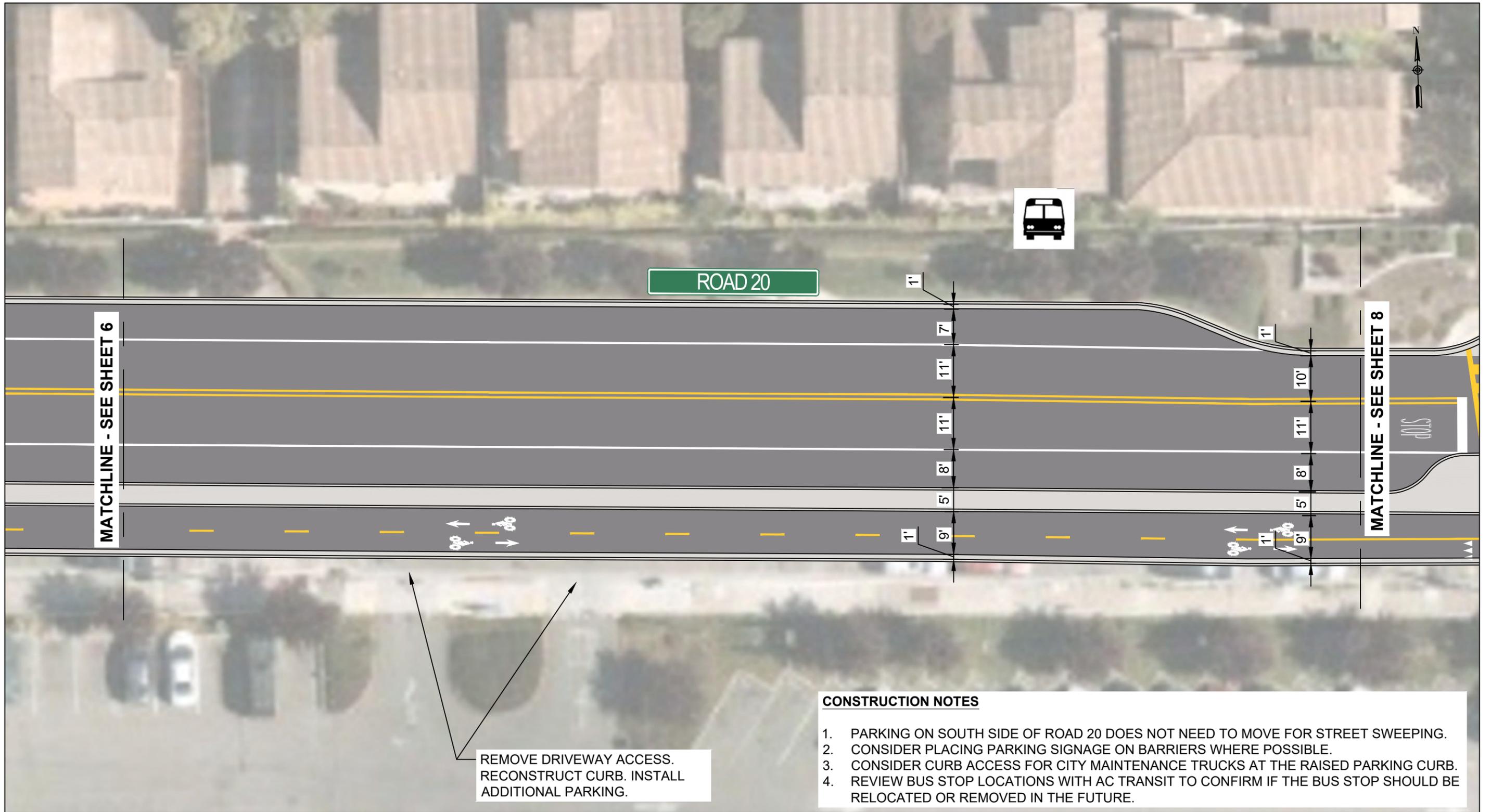


SHEET NUMBER

6 OF 9

PRELIMINARY CONCEPT  
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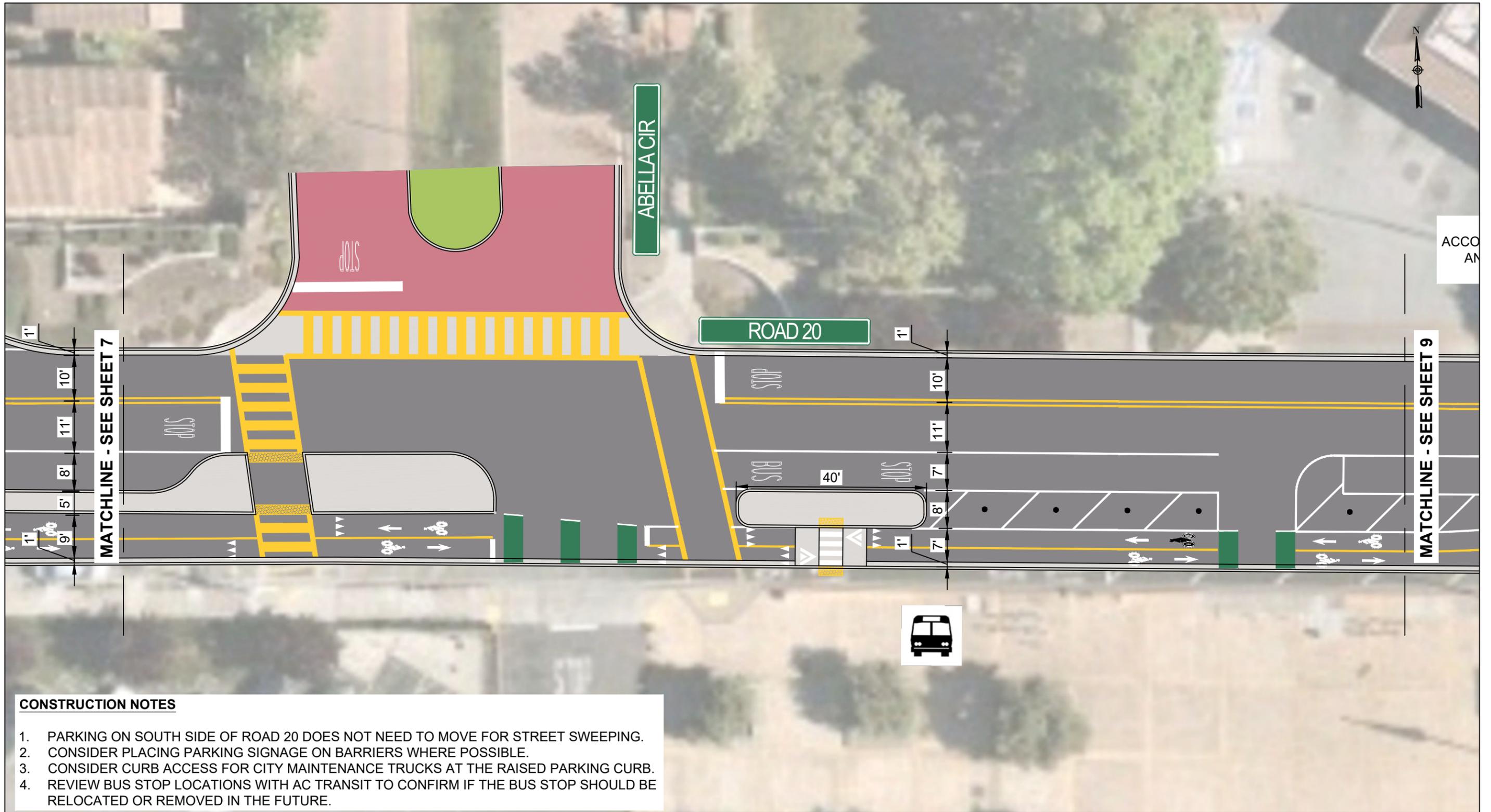
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**Kimley»Horn**

**ROAD 20**  
SAN PABLO AVENUE TO EL PORTAL DRIVE  
**SAN PABLO CORRIDOR STUDY**

0 5 10 20  
SHEET NUMBER  
7 OF 9

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

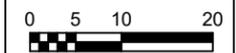
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SHEET NUMBER

8 OF 9

PRELIMINARY CONCEPT  
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**CONSTRUCTION NOTES**

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2. CONSIDER PLACING PARKING SIGNAGE ON BARRIERS WHERE POSSIBLE.
3. DESIGN SHOWS ONE-WAY BICYCLE LANES ON EL PORTAL DRIVE; SEE NEXT SHEET FOR DESIGN WITH TWO-WAY BICYCLE LANES



RECONFIGURE ISLAND TO ACCOMMODATE BICYCLE LANES AND HELMS MIDDLE SCHOOL STAFF LOT DRIVEWAY.

INSTALL BICYCLE SIGNAL AND MODIFY EXISTING SIGNAL TIMING.

REMOVE SLIP LANE AND RECONFIGURE HELMS MIDDLE SCHOOL STAFF LOT DRIVEWAY.

**TOOLE DESIGN**

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SAN PABLO AVENUE TO EL PORTAL DRIVE  
**SAN PABLO CORRIDOR STUDY**

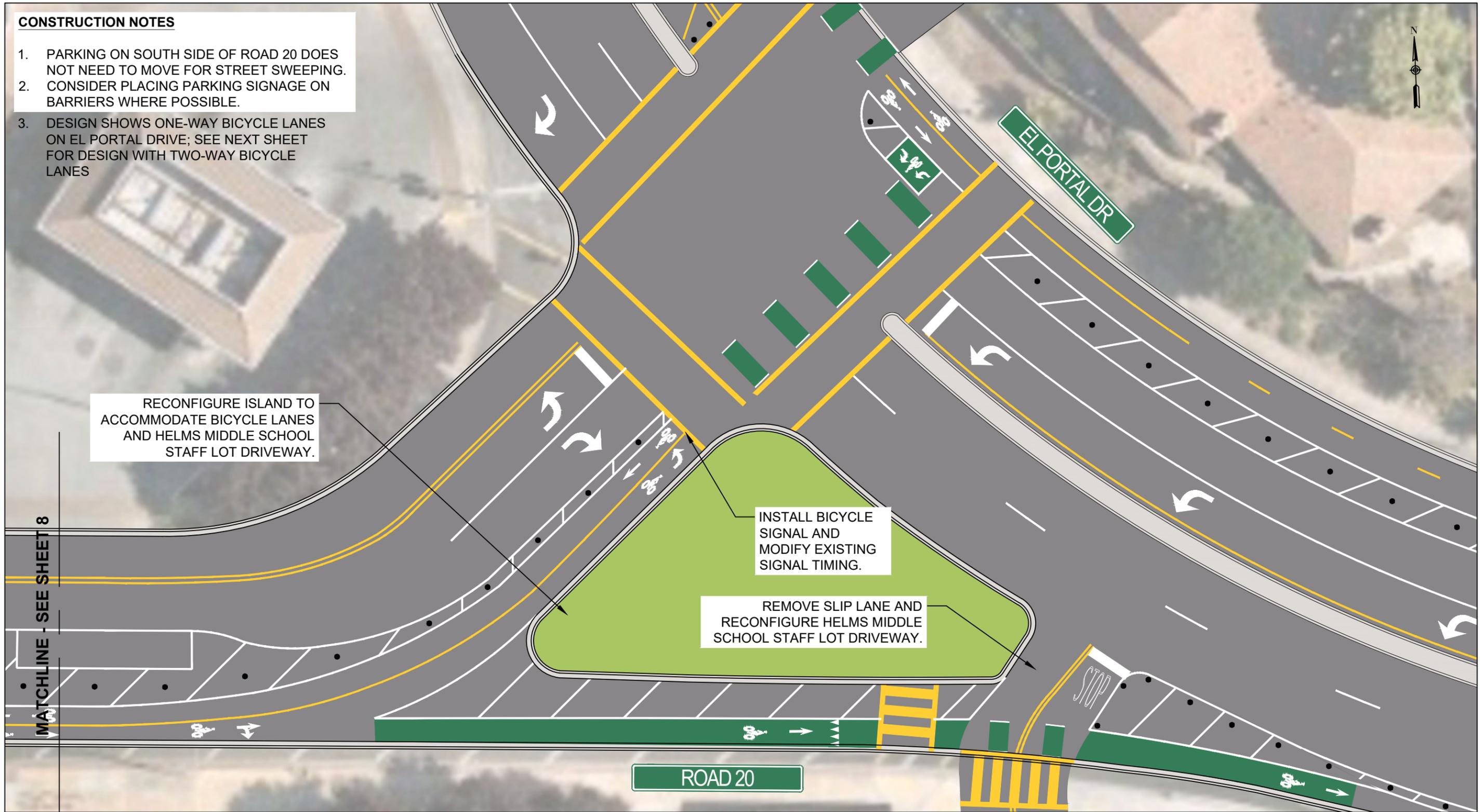


SHEET NUMBER  
9A OF 9

PRELIMINARY CONCEPT  
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3. DESIGN SHOWS ONE-WAY BICYCLE LANES ON EL PORTAL DRIVE; SEE NEXT SHEET FOR DESIGN WITH TWO-WAY BICYCLE LANES



**TOOLE  
DESIGN**

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SHEET NUMBER

9B OF 9

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