

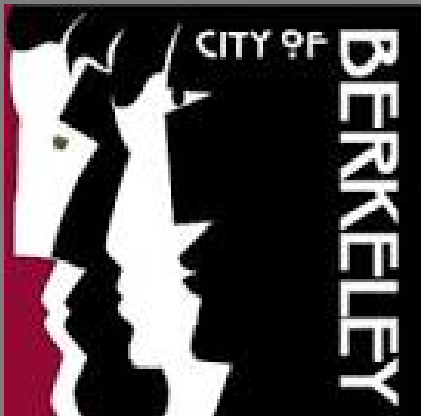
# Milvia Bikeway Project Overview of 65% Design

July 10, 2020

Hosted by:

**Ken Jung**, City of Berkeley – Project Manager

**Eric Anderson**, City of Berkeley – Senior  
Transportation Planner



# Today's Meeting Agenda

- Brief Project Refresher
- Project Timeline and Next Steps



Cambridge, MA

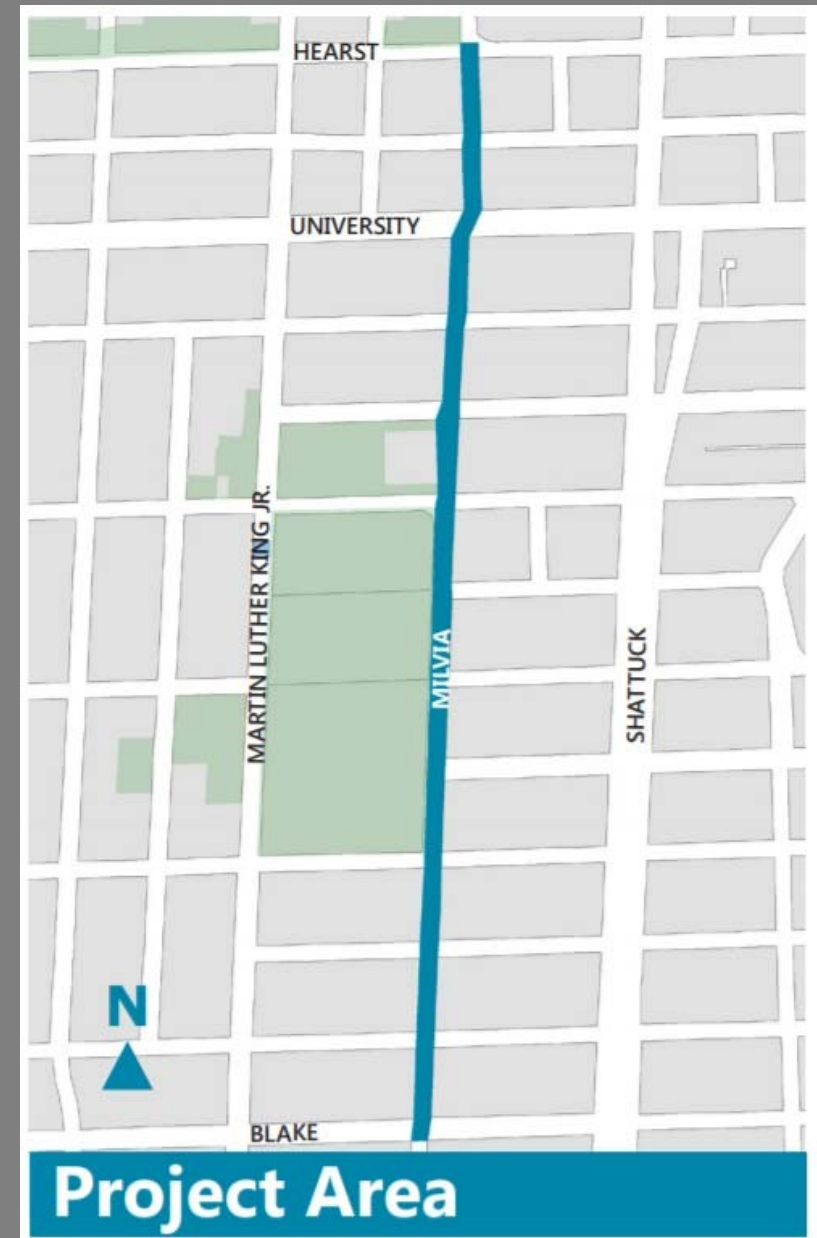
# Project Purpose

## *Construct a continuous protected bikeway on Milvia from Hearst Avenue to Blake Street*

- #1 priority project from 2017 Bike Plan
- Highest bicycle volumes of any Berkeley bikeway (500+ people on bikes per hour)<sub>1</sub>
- Vision Zero bicycle high-injury street; highest total bicycle collisions of any Berkeley bikeway<sub>2</sub>
- Access to businesses, schools, healthcare, City government
- **\$20M** from Affordable Housing Sustainable Communities Berkeley Way project

1: City of Berkeley Bicycle Counts, 2010-2018

2: California Statewide Integrated Traffic Records System (SWITRS), 2008-2018



# Project Goals

- **SAFETY**: Improve safety for everyone, especially people biking and walking
- **COMFORT**: A more comfortable walking and biking experience
- **CONNECTIVITY AND ACCESSIBILITY**: Preserve and where possible improve ADA accessibility, including parking access
- **ECONOMIC VITALITY**: Maintain and improve access to businesses. Where possible, preserve parking, especially loading and green zones for businesses



New York, NY



# Project Status & Timeline

June 2018 to December 2019: Conceptual (35%)  
Design and **Approval by City Council**



**April 2020 to October 2020:**  
Detailed Engineering Design

- 65% Design Milestone in early July
- 100% Design Milestone in early November

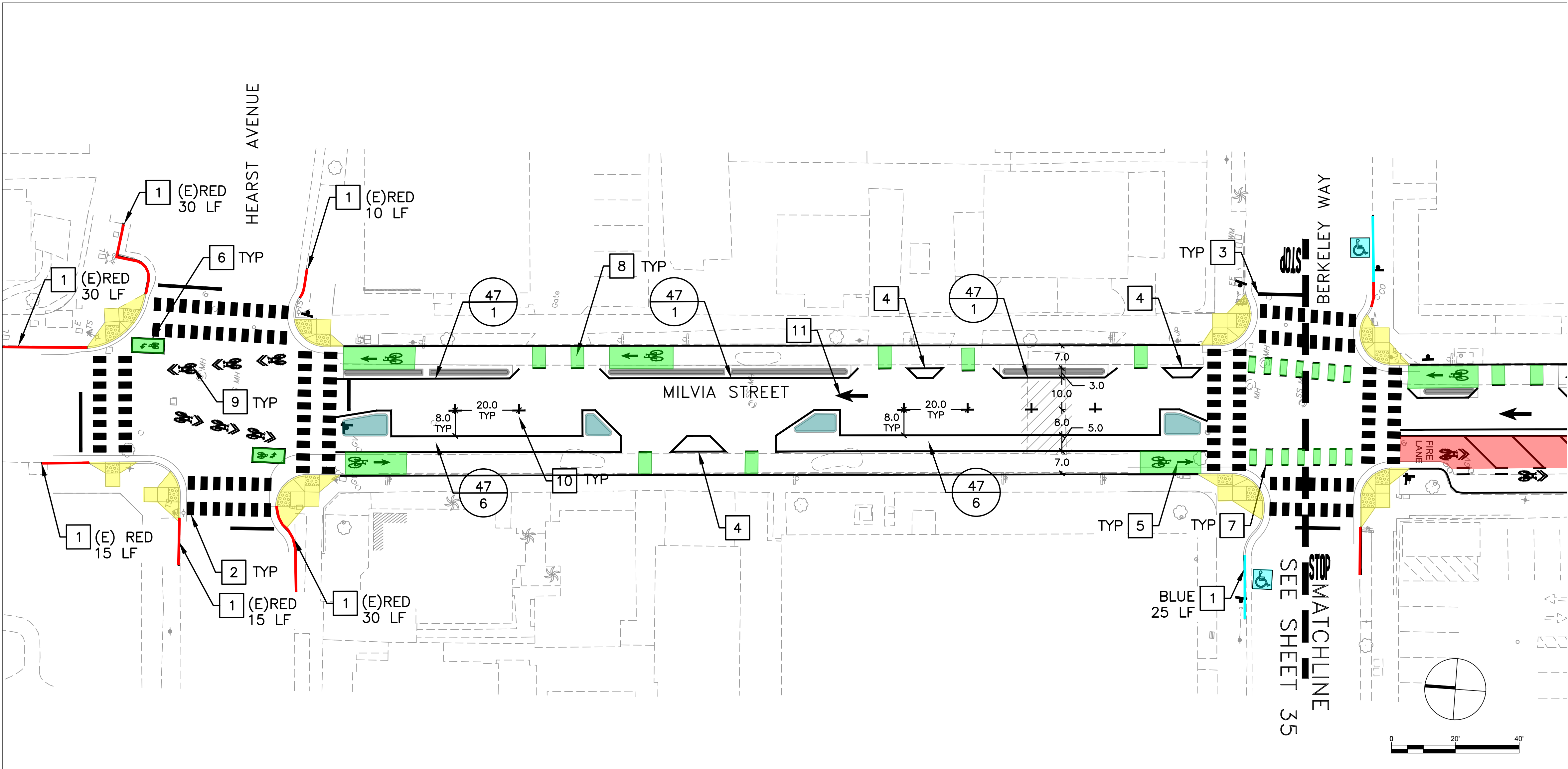


November 2020 to February 2021: Advertise for  
Bids & Award Construction Contract

March 2021 to January 2022: Construction



San Francisco, CA



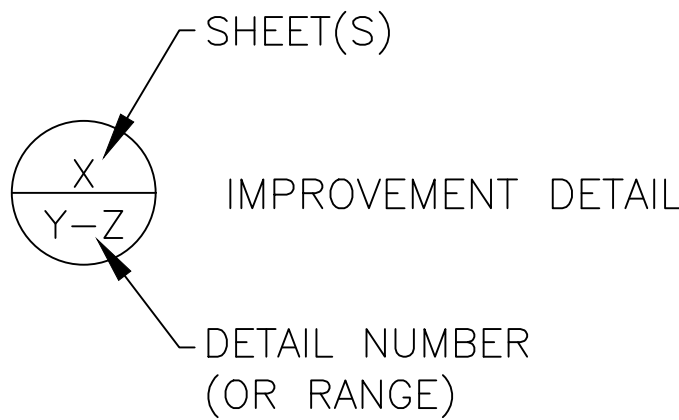
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- SEE SHEET 47 & 48 FOR STRIPING DETAILS
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LEGEND & ABBREVIATIONS

XX	CALTRANS STRIPING DETAIL
(E)	EXISTING
LF	LINEAR FEET
TYP	TYPICAL

MAINTAIN	REMOVE	NEW	
			ACCESSIBLE PARKING (BLUE ZONE)
			LOADING ZONE (YELLOW ZONE)
			30 MINUTE PARKING/LOADING ZONE HYBRID
			PASSENGER LOADING ZONE (WHITE ZONE)



CONSTRUCTION NOTES (THIS SHEET ONLY)

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- INSTALL BIKEWAY DRIVEWAY CROSSING (SH 47 DET 3)
- INSTALL SHARROW
- STRIPE PARKING T'S
- INSTALL TYPE I ARROW (10FT)



1936 University Ave, Ste 250  
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WATERSHED REVIEW:	DATE

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DESIGN	AG	HORIZ.	VARIES
DRAWN	AG	VERT.	NA
CHECK	JM	BOOK	
AS BUILT		DATE	06/29/2020

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION PLAN  
HEARST AVE TO BERKELEY WAY

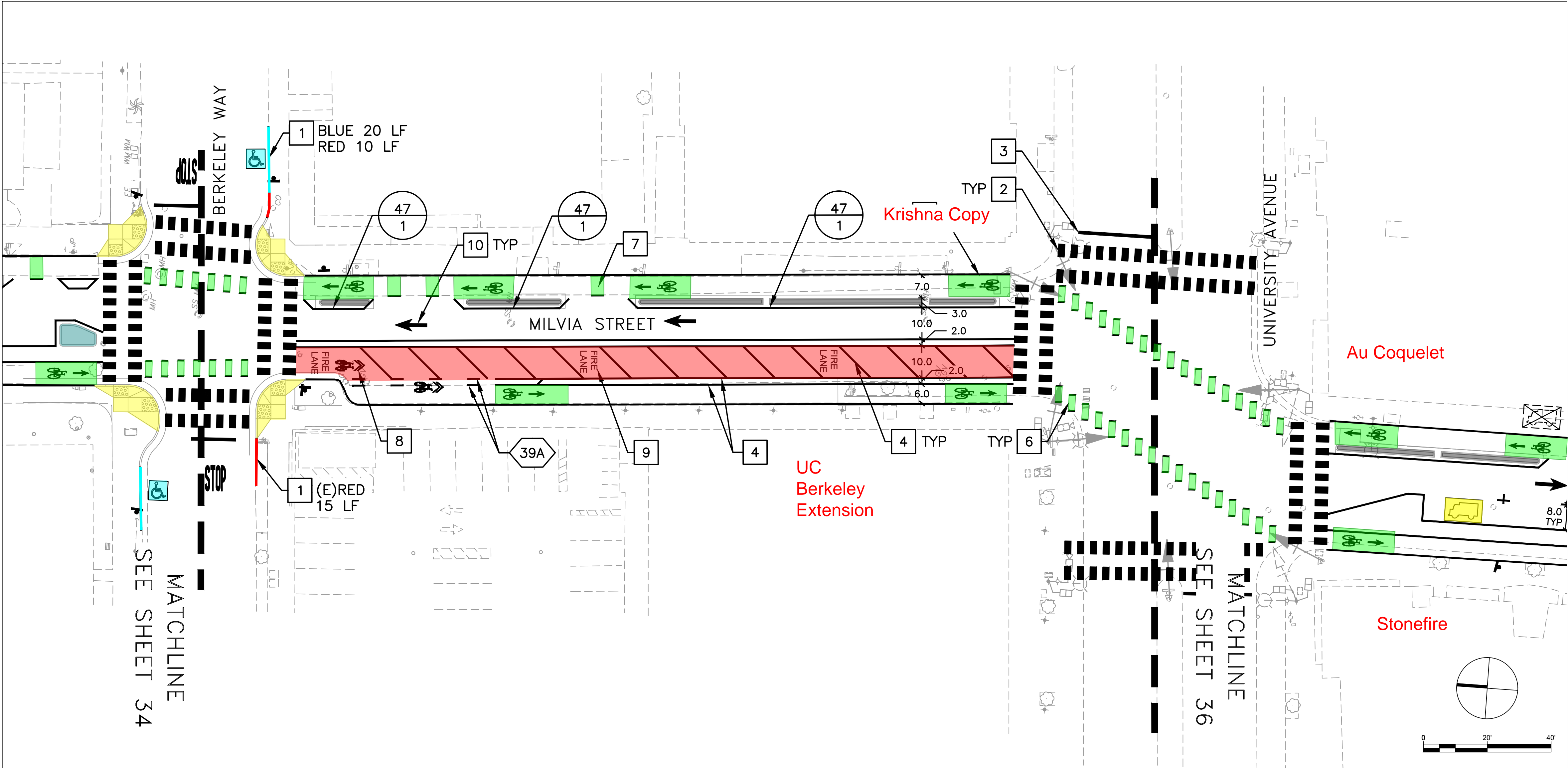
PLAN	FILE
SHEET 34	OF 80



Know what's below.  
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65% ENGINEERING PLAN  
NOT FOR CONSTRUCTION





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Parisi

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AS BUILT \_\_\_\_\_

HORIZ. \_\_\_\_\_ VARIES

VERT. \_\_\_\_\_ NA

BOOK \_\_\_\_\_

DATE 06/29/2020

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION PLAN  
BERKELEY WAY TO UNIVERSITY AVE

PLAN \_\_\_\_\_

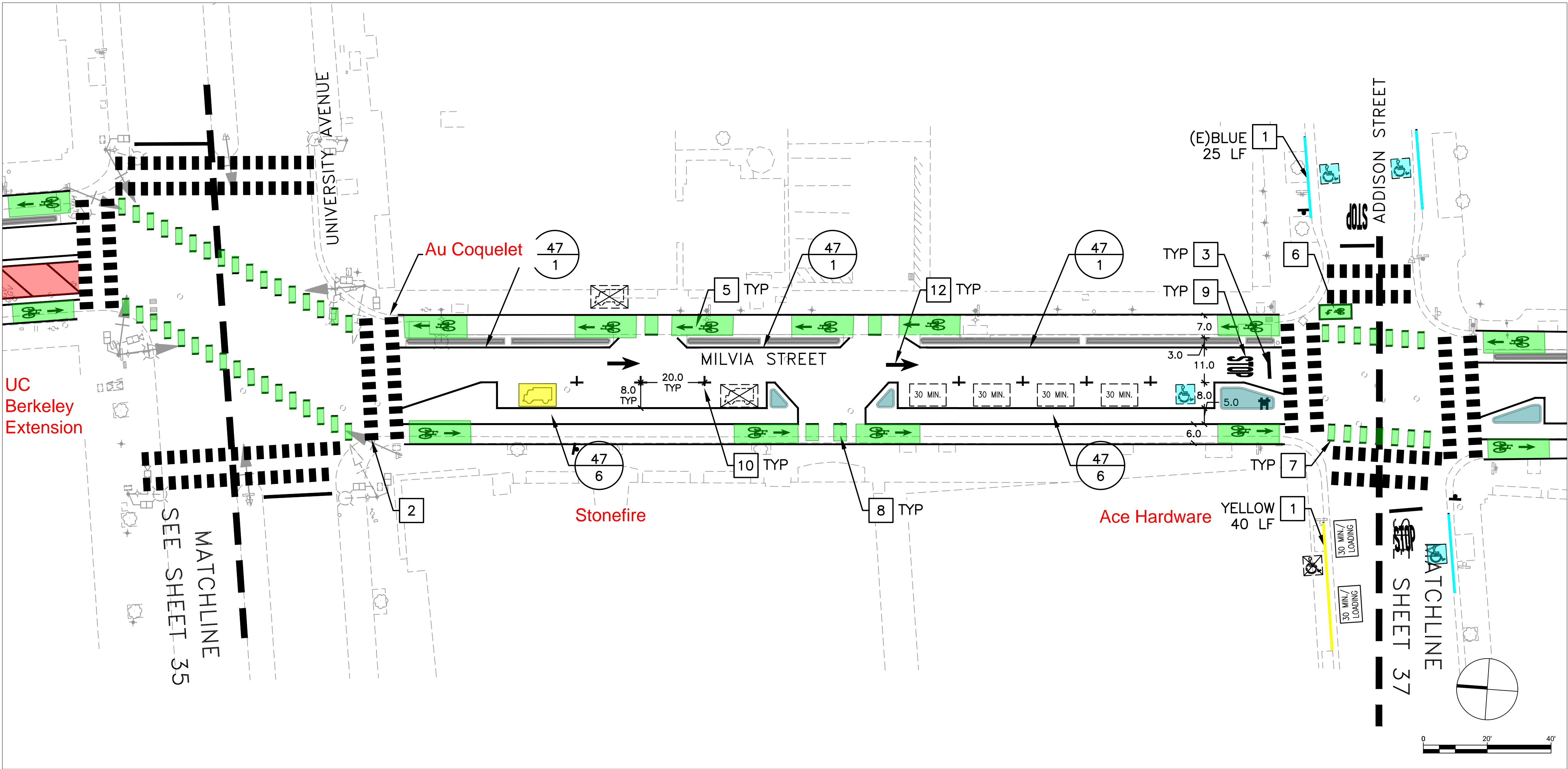
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SHEET 35 OF 80

65% ENGINEERING PLAN  
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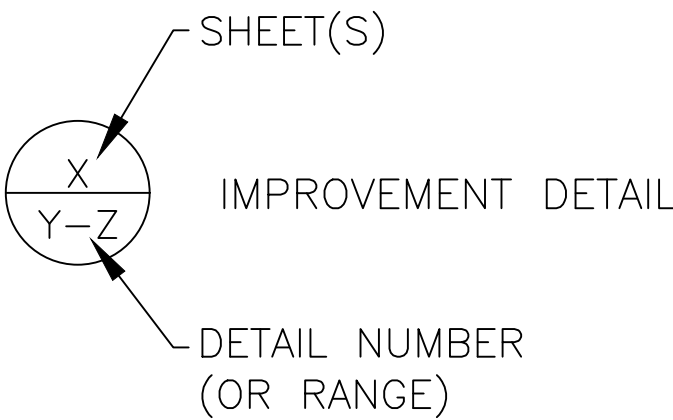
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- INSTALL "STOP" STENCIL
- STRIPE PARKING T'S
- INSTALL CHANNELIZER POSTS 15' O.C.
- INSTALL TYPE I ARROW (10FT)



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CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION PLAN  
UNIVERSITY AVE TO ADDISON ST

PLAN	FILE
SHEET 36	OF 80

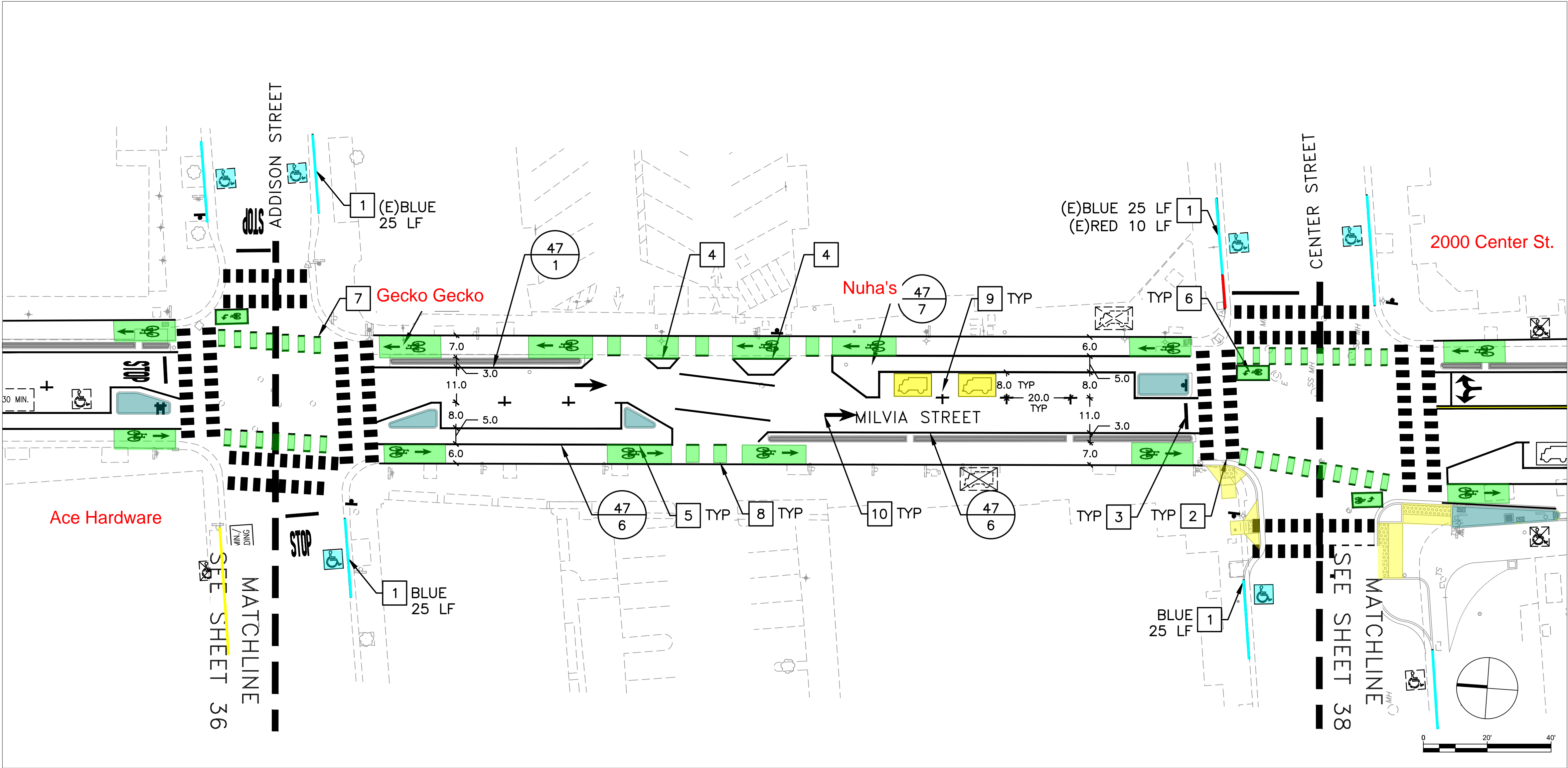


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APPROVAL	DESCRIPTION	DATE	MARK	REVISION





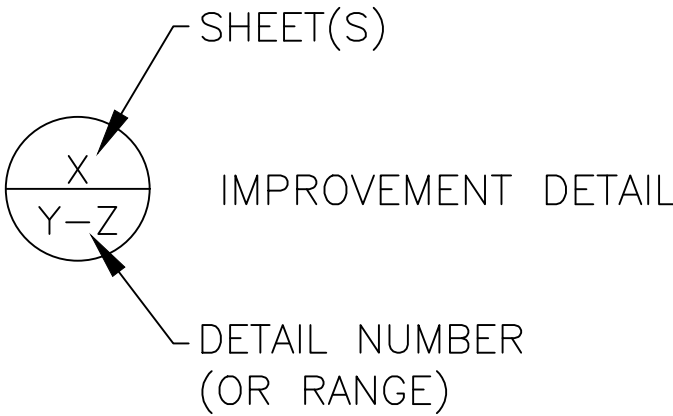
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CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

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ADDISON ST TO CENTER ST

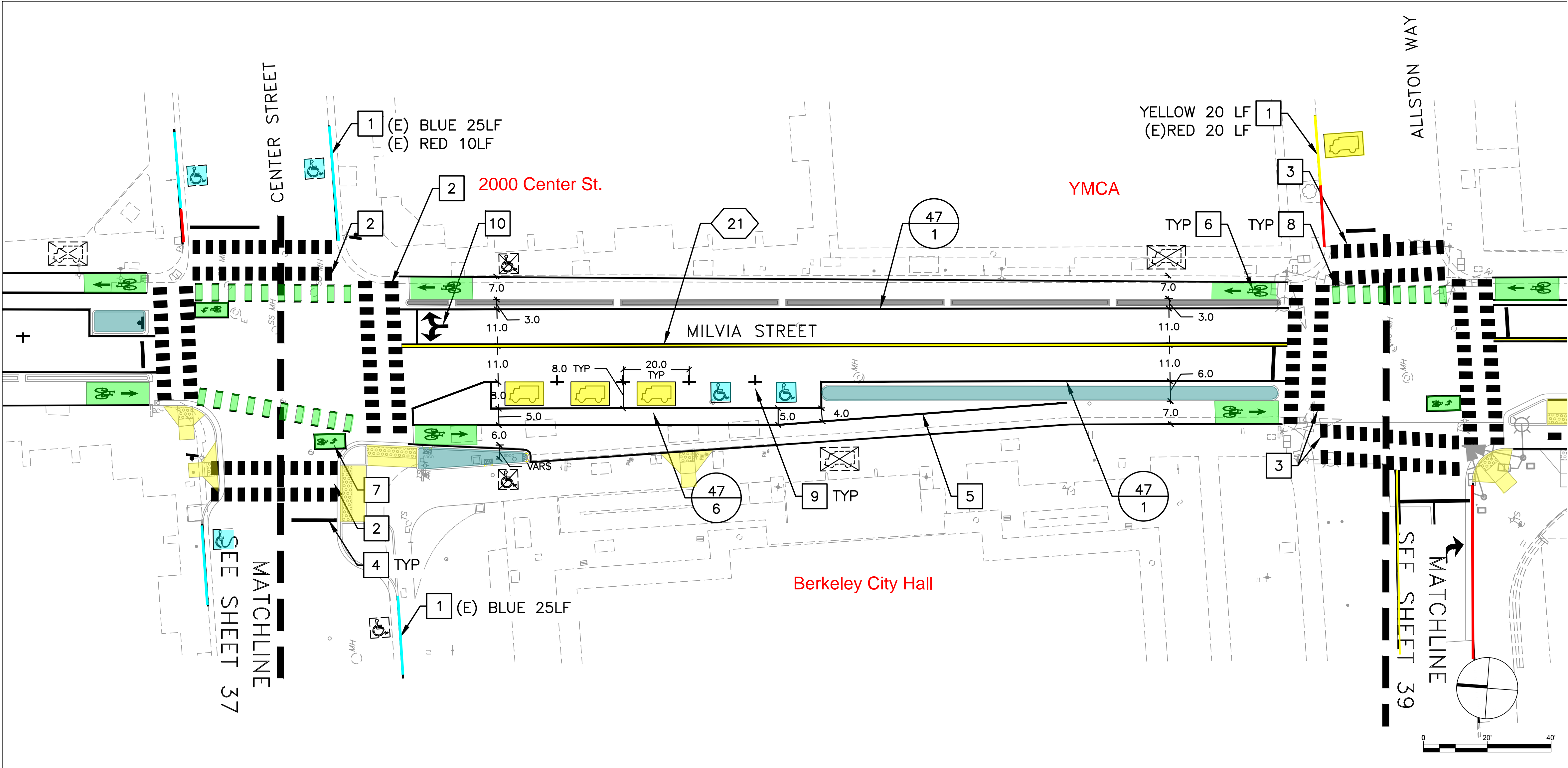
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FILE \_\_\_\_\_

SHEET 37 OF 80

65% ENGINEERING PLAN  
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CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION PLAN  
CENTER ST TO ALLSTON WAY

PLAN \_\_\_\_\_

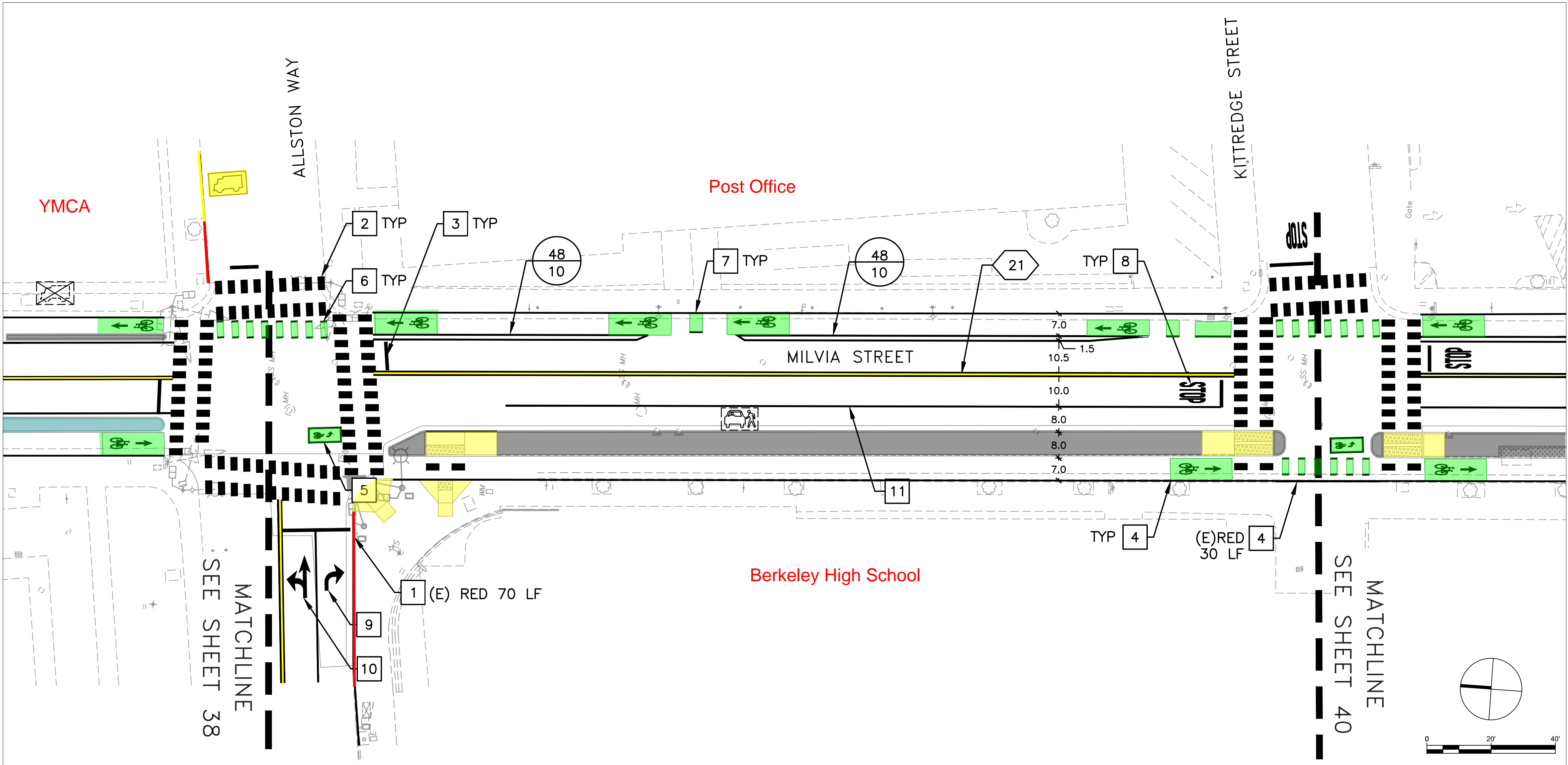
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SHEET 38 OF 80

65% ENGINEERING PLAN  
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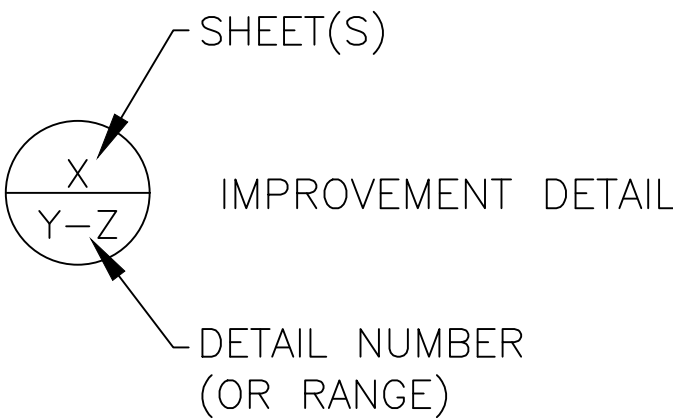
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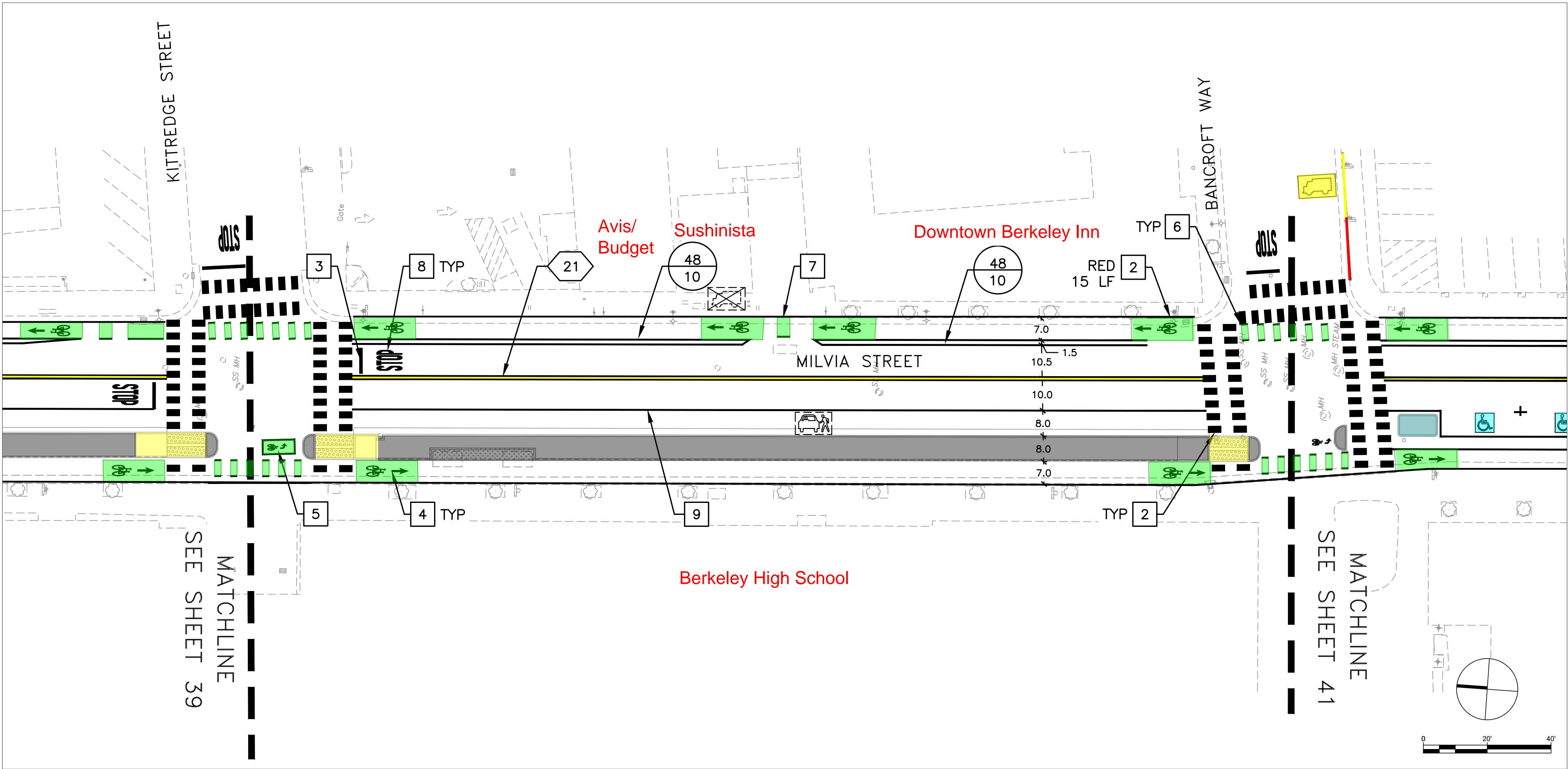
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- 9 INSTALL TYPE IV (R) ARROW (8FT)
- 10 INSTALL TYPE VII (L) ARROW (13FT)
- 11 STRIPE 6" WHITE STRIPE



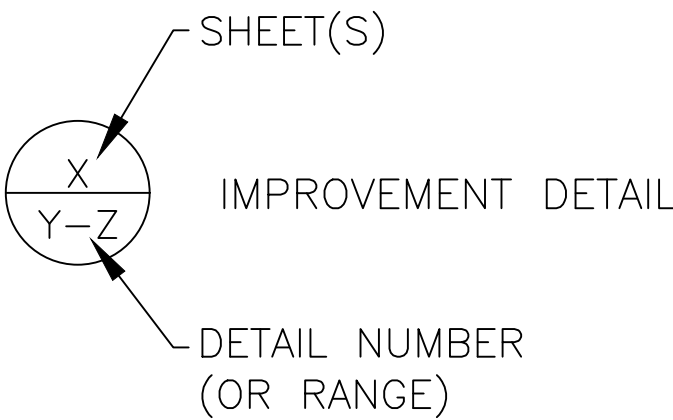
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CITY OF BERKELEY  
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MILVIA STREET BIKEWAY  
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KITTRIDGE ST TO BANCROFT WAY

PLAN	
FILE	
SHEET	40 of 80

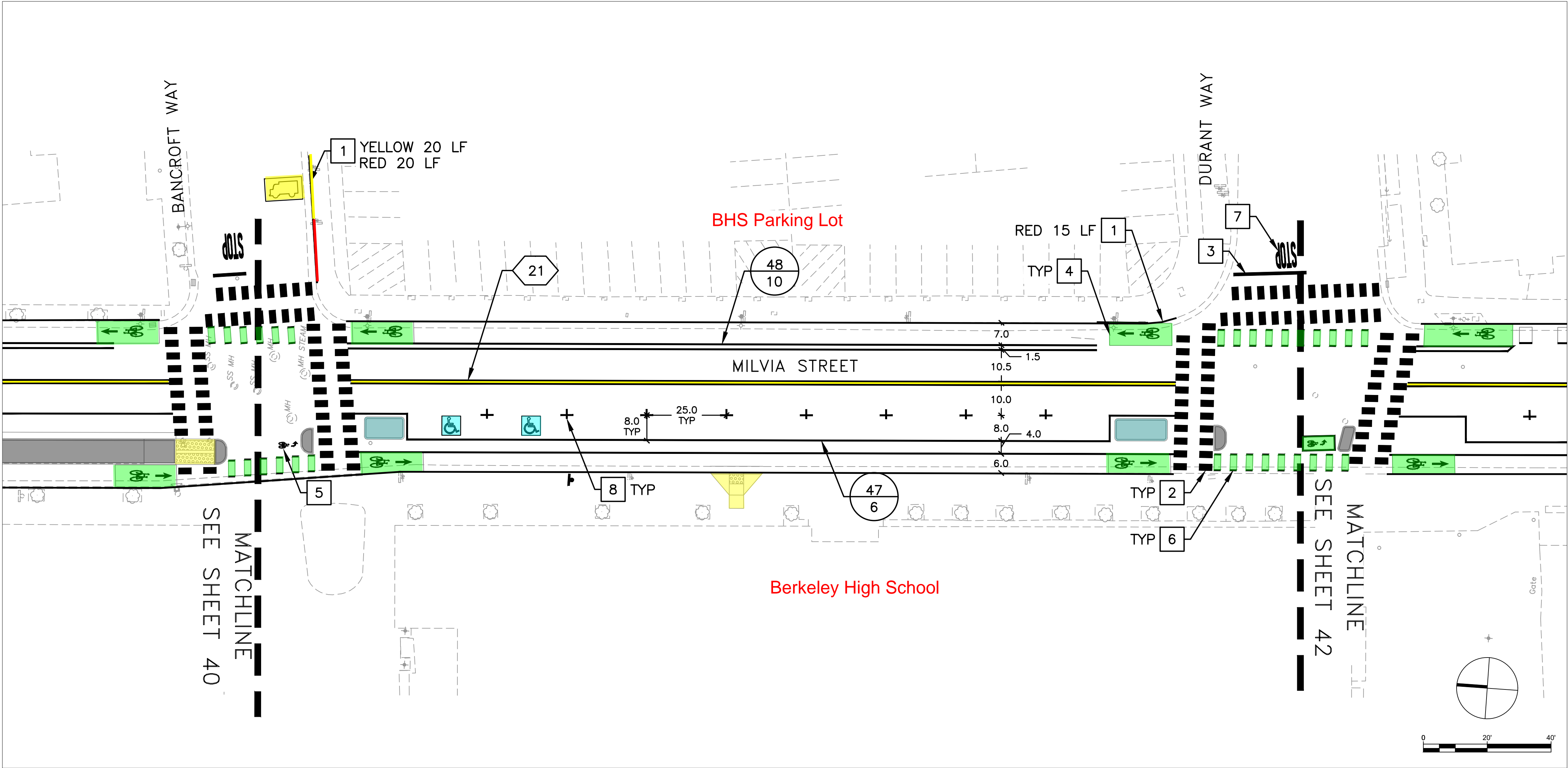


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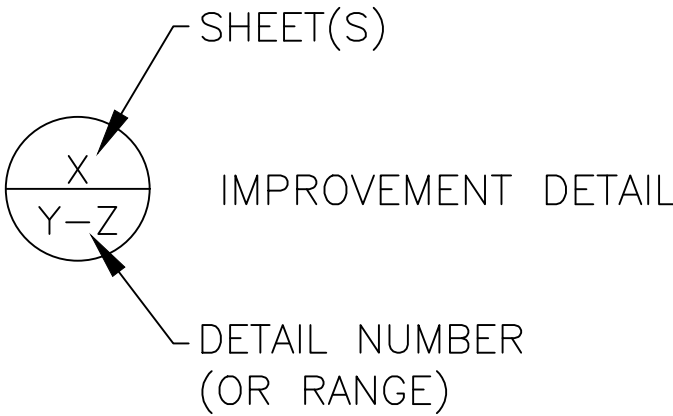
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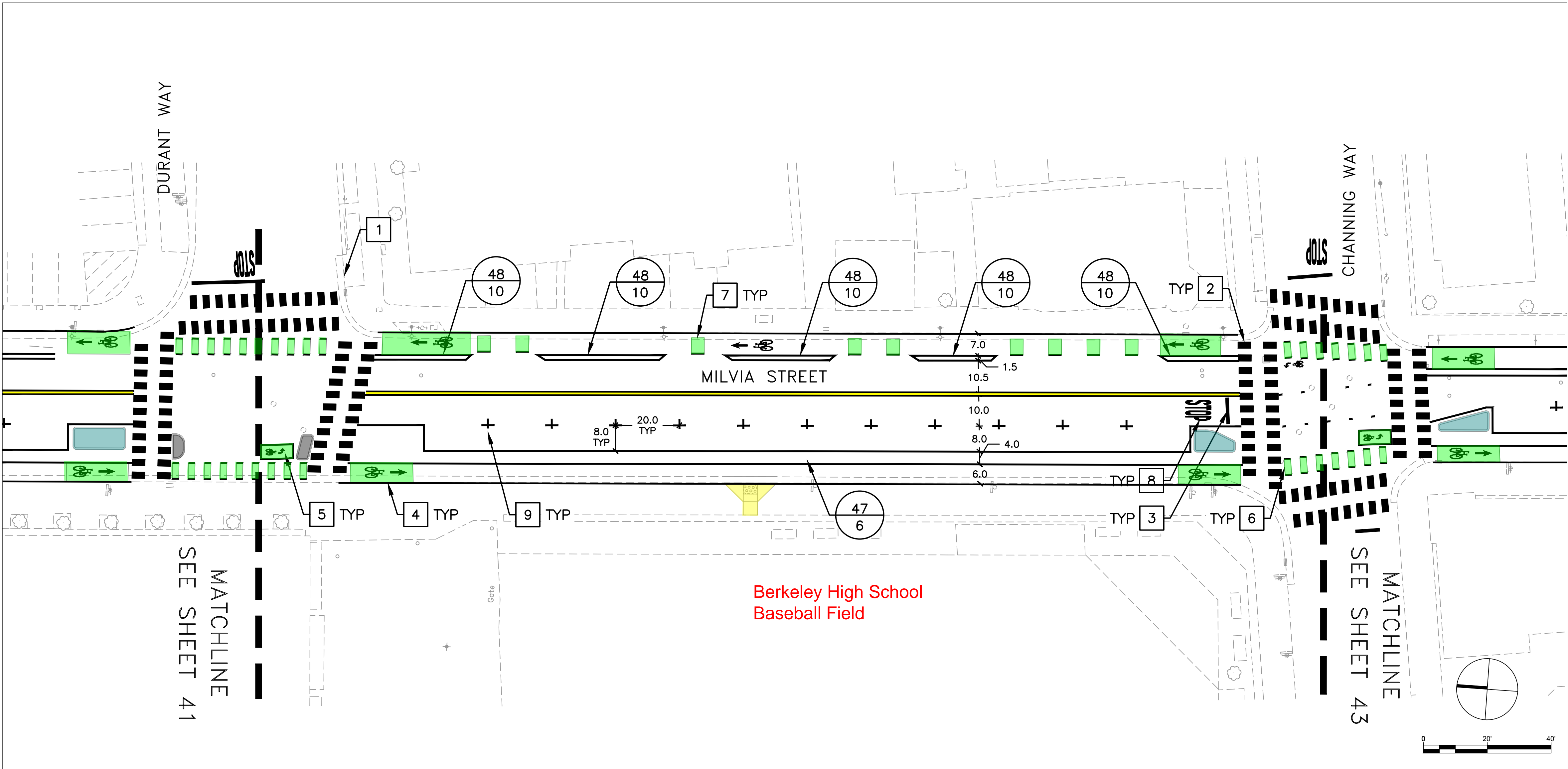
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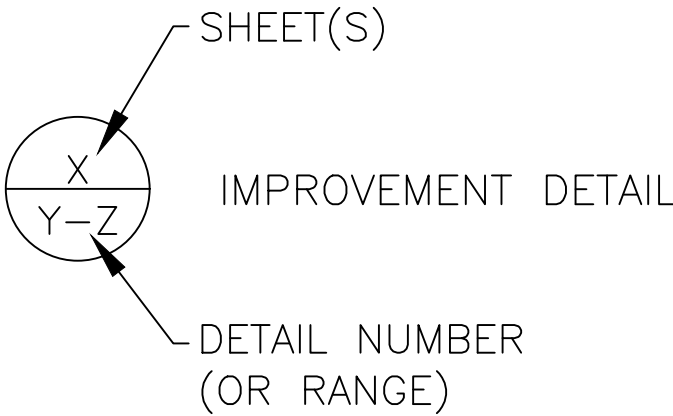
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- 3. PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A20A-E AND A24A-F
- 4. NEW MARKINGS ARE SHOWN IN BLACK. EXISTING MARKINGS TO BE MAINTAINED ARE SHOWN IN GRAY
- 5. CONTRACTOR SHALL PROVIDE 24-HOURS NOTICE TO ALLOW THE CITY TRAFFIC ENGINEER TO REVIEW AND APPROVE ALL STRIPING AND MARKINGS AS "CAT-TRACKS" PRIOR TO PLACING PERMANENT MARKINGS
- 6. STATION AND OFFSET WILL BE PROVIDED AT THE 95% SUBMITTAL

LEGEND & ABBREVIATIONS

- XX CALTRANS STRIPING DETAIL
- (E) EXISTING
- LF LINEAR FEET
- TYP TYPICAL

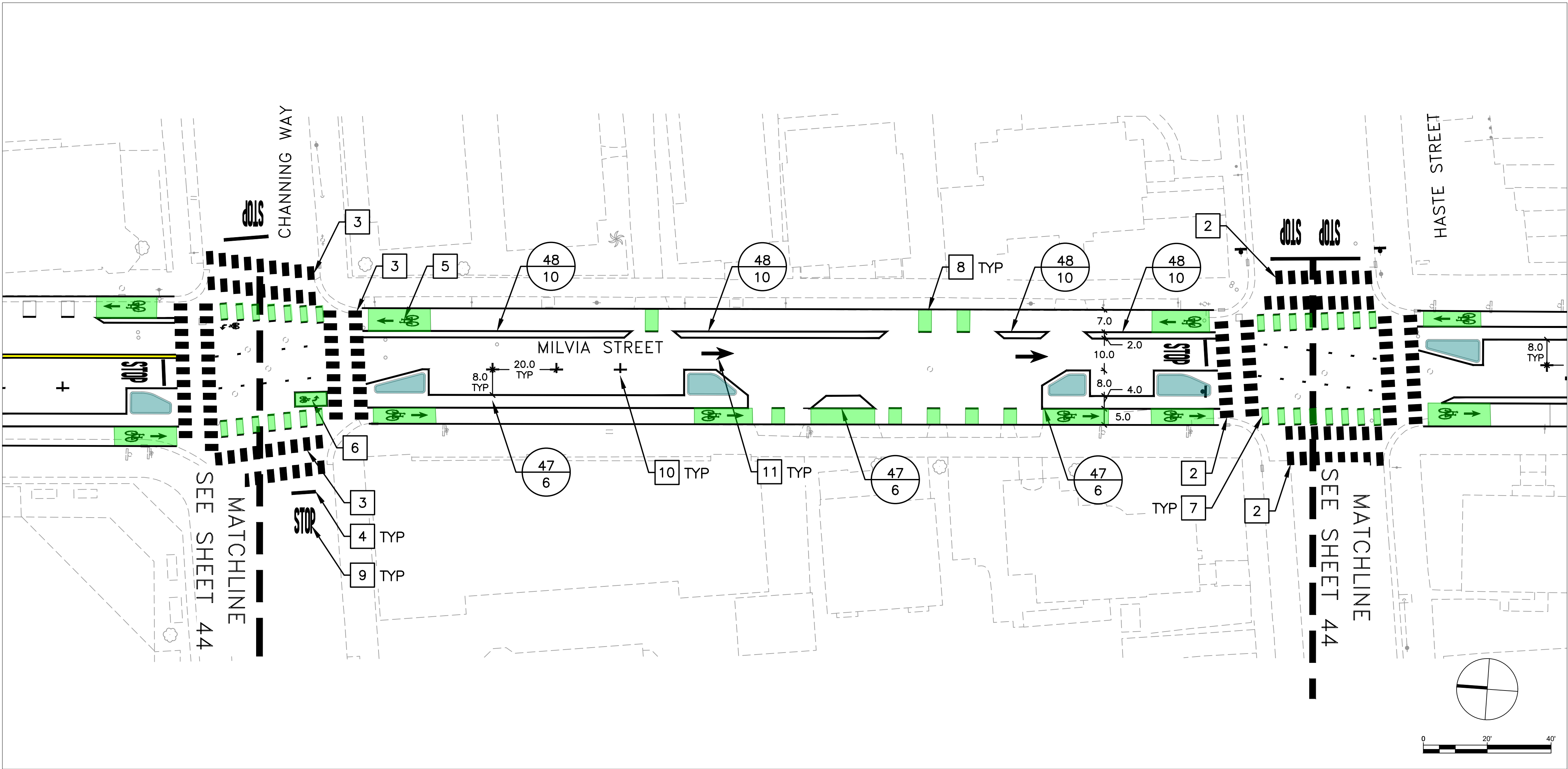
MAINTAIN	REMOVE	NEW	
			ACCESSIBLE PARKING (BLUE ZONE)
			LOADING ZONE (YELLOW ZONE)
			30 MINUTE PARKING/LOADING ZONE HYBRID
			PASSENGER LOADING ZONE (WHITE ZONE)



CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 PAINT/REFRESH CURB
- 2 STRIPE YELLOW TRIPLE FOUR CROSSWALK (SH 47 DET 7)
- 3 STRIPE STOP BAR (1'-WIDE WHITE PAVEMENT)
- 4 INSTALL BIKE LANE SYMBOL WITH GREEN THERMOPLASTIC BACKING (SH 47 DET 5)
- 5 INSTALL LEFT TURN QUEUE BOX (SH 47 DET 8)
- 6 INSTALL CROSS BIKE MARKING (SH 47 DET 4)
- 7 INSTALL BIKEWAY DRIVEWAY CROSSING (SH 47 DET 3)
- 8 INSTALL "STOP" PAVEMENT MARKING
- 9 STRIPE PARKING T'S





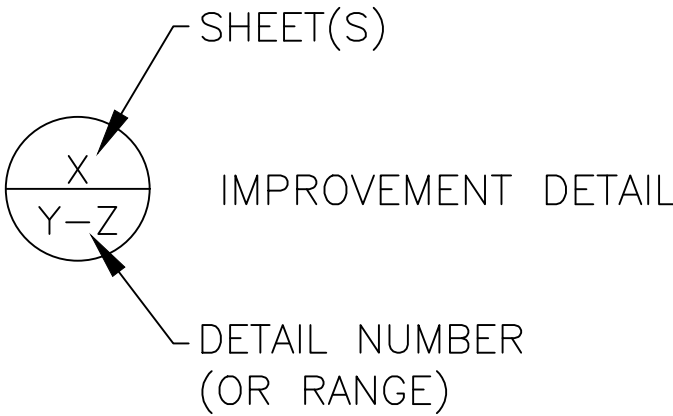
GENERAL NOTES (THIS SHEET ONLY)

- SEE SHEETS 7 to 10 FOR PAVEMENT DELINEATION DEMO PLAN
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- PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A20A-E AND A24A-F
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LEGEND & ABBREVIATIONS

- XX CALTRANS STRIPING DETAIL
- (E) EXISTING
- LF LINEAR FEET
- TYP TYPICAL

MAINTAIN	REMOVE	NEW	
			ACCESSIBLE PARKING (BLUE ZONE)
			LOADING ZONE (YELLOW ZONE)
			30 MINUTE PARKING/LOADING ZONE HYBRID
			PASSENGER LOADING ZONE (WHITE ZONE)



CONSTRUCTION NOTES (THIS SHEET ONLY)

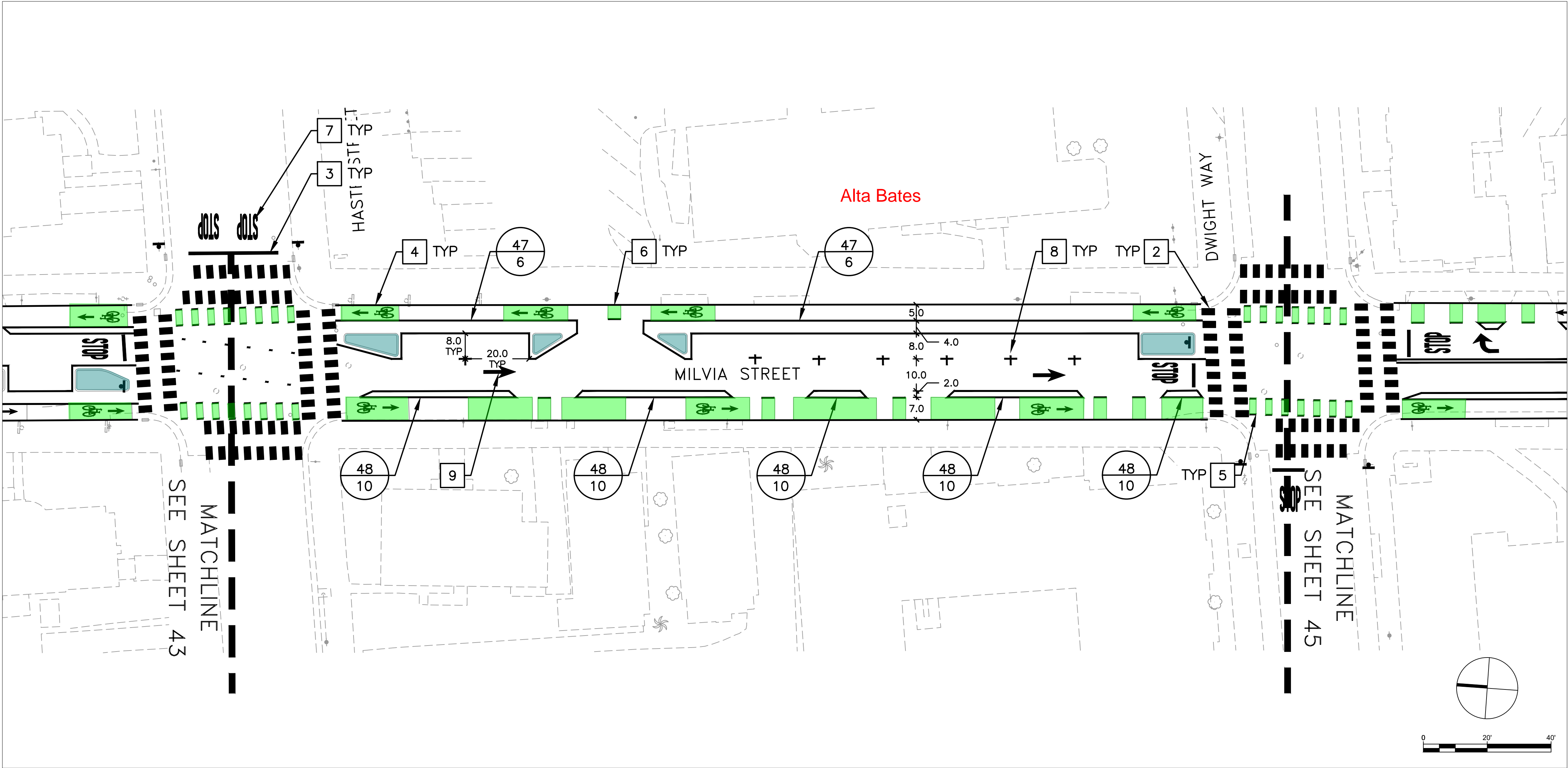
- NOT USED
- STRIPE TRIPLE FOUR CROSSWALK (SH 47 DET 7)
- STRIPE YELLOW TRIPLE FOUR CROSSWALK (SH 47 DET 7)
- STRIPE STOP BAR (1'-WIDE WHITE PAVEMENT)
- INSTALL BIKE LANE SYMBOL WITH GREEN THERMOPLASTIC BACKING (SH 47 DET 5)
- INSTALL LEFT TURN QUEUE BOX (SH 47 DET 8)
- INSTALL CROSS BIKE MARKING (SH 47 DET 4)
- INSTALL BIKEWAY DRIVEWAY CROSSING (SH 47 DET 3)
- INSTALL "STOP" STENCIL
- STRIPE PARKING T'S
- INSTALL TYPE I ARROW (10FT)

	1936 University Ave, Ste 250 Berkeley, CA 94704 (510) 343-6400	PROJECT MANAGER: _____ DATE _____	DEPICTION OF MONUMENTS: _____ DATE _____	SUBMITTED: _____ DATE _____	DESIGN _____ AG	HORIZ. VARIES _____	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS	MILVIA STREET BIKEWAY PAVEMENT DELINEATION PLAN CHANNING WAY TO HASTE ST	PLAN _____ FILE _____ SHEET 43 of 80
		0 1 2 3 FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES	SURVEY CHIEF OF PARTY _____ WATERSHED REVIEW: _____ DATE _____	SUPERVISING CIVIL ENGINEER _____ APPROVED: _____ DATE _____ CITY ENGINEER _____	DRAWN _____ AG CHECK _____ JM AS BUILT _____	VERT. NA BOOK _____ DATE 06/29/2020			



65% ENGINEERING PLAN  
NOT FOR CONSTRUCTION

APPROVAL	DESCRIPTION	DATE	MARK	REVISION



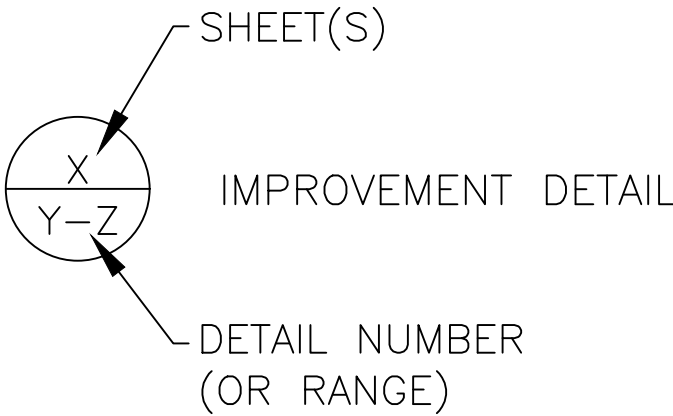
GENERAL NOTES (THIS SHEET ONLY)

- 1. SEE SHEETS 7 to 10 FOR PAVEMENT DELINEATION DEMO PLAN
- 2. SEE SHEET 47 & 48 FOR STRIPING DETAILS
- 3. PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A20A-E AND A24A-F
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- 6. STATION AND OFFSET WILL BE PROVIDED AT THE 95% SUBMITTAL

LEGEND & ABBREVIATIONS

- XX CALTRANS STRIPING DETAIL
- (E) EXISTING
- LF LINEAR FEET
- TYP TYPICAL

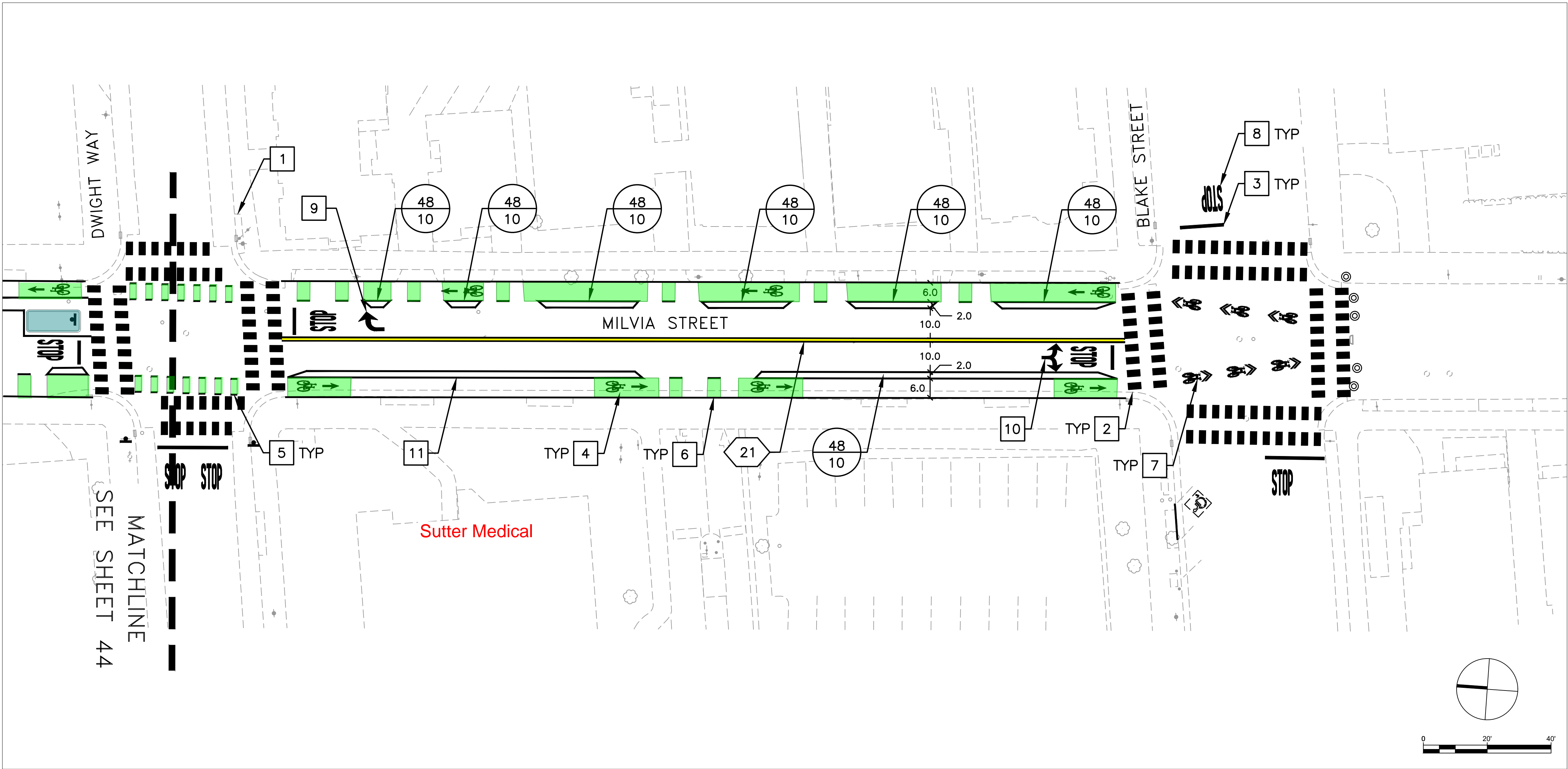
MAINTAIN	REMOVE	NEW	
			ACCESSIBLE PARKING (BLUE ZONE)
			LOADING ZONE (YELLOW ZONE)
			30 MINUTE PARKING/LOADING ZONE HYBRID
			PASSENGER LOADING ZONE (WHITE ZONE)



CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 NOT USED
- 2 STRIPE TRIPLE FOUR CROSSWALK (SH 47 DET 7)
- 3 STRIPE STOP BAR (1'-WIDE WHITE PAVEMENT)
- 4 INSTALL BIKE LANE SYMBOL WITH GREEN THERMOPLASTIC BACKING (SH 47 DET 5)
- 5 INSTALL CROSS BIKE MARKING (SH 47 DET 4)
- 6 INSTALL BIKEWAY DRIVEWAY CROSSING (SH 47 DET 3)
- 7 INSTALL "STOP" STENCIL
- 8 STRIPE PARKING T'S
- 9 INSTALL TYPE I ARROW (10FT)





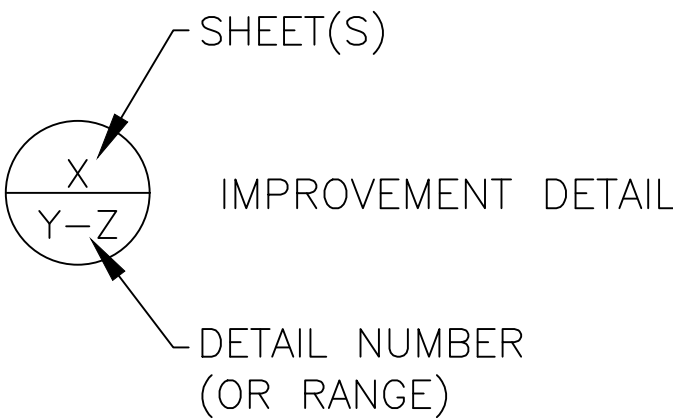
GENERAL NOTES (THIS SHEET ONLY)

- SEE SHEETS 7 to 10 FOR PAVEMENT DELINEATION DEMO PLAN
- SEE SHEET 47 & 48 FOR STRIPING DETAILS
- PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A20A-E AND A24A-F
- NEW MARKINGS ARE SHOWN IN BLACK. EXISTING MARKINGS TO BE MAINTAINED ARE SHOWN IN GRAY
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- STATION AND OFFSET WILL BE PROVIDED AT THE 95% SUBMITTAL

LEGEND & ABBREVIATIONS

XX	CALTRANS STRIPING DETAIL
(E)	EXISTING
LF	LINEAR FEET
TYP	TYPICAL

MAINTAIN	REMOVE	NEW	
			ACCESSIBLE PARKING (BLUE ZONE)
			LOADING ZONE (YELLOW ZONE)
			30 MINUTE PARKING/LOADING ZONE HYBRID
			PASSENGER LOADING ZONE (WHITE ZONE)



CONSTRUCTION NOTES (THIS SHEET ONLY)

- PAINT/REFRESH CURB
- STRIPE TRIPLE FOUR CROSSWALK (SH 47 DET 7)
- STRIPE STOP BAR (1'-WIDE WHITE PAVEMENT)
- INSTALL BIKE LANE SYMBOL WITH GREEN THERMOPLASTIC BACKING (SH 47 DET 5)
- INSTALL CROSS BIKE MARKING (SH 47 DET 4)
- INSTALL BIKEWAY DRIVEWAY CROSSING (SH 47 DET 3)
- INSTALL SHARROW
- INSTALL "STOP" STENCIL
- INSTALL TYPE I ARROW (10FT)
- INSTALL TYPE IV ARROW (8FT)

Parisi

CSW | DESIGN GROUP

1936 University Ave, Ste 250  
Berkeley, CA 94704  
(510) 343-6400

PROJECT MANAGER: \_\_\_\_\_ DATE \_\_\_\_\_

0 1 2 3  
FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES

DEPICTION OF MONUMENTS: \_\_\_\_\_ DATE \_\_\_\_\_

SURVEY CHIEF OF PARTY \_\_\_\_\_

WATERSHED REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

SUBMITTED: \_\_\_\_\_ DATE \_\_\_\_\_

SUPERVISING CIVIL ENGINEER \_\_\_\_\_ R.C.E. \_\_\_\_\_ EXP. \_\_\_\_\_

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_ EXP. \_\_\_\_\_

DESIGN \_\_\_\_\_ AG \_\_\_\_\_

DRAWN \_\_\_\_\_ AG \_\_\_\_\_

CHECK \_\_\_\_\_ JM \_\_\_\_\_

AS BUILT \_\_\_\_\_

HORIZ. \_\_\_\_\_ VARIES \_\_\_\_\_

VERT. \_\_\_\_\_ NA \_\_\_\_\_

BOOK \_\_\_\_\_

DATE 06/29/2020

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION PLAN  
DWIGHT WAY TO BLAKE ST

PLAN \_\_\_\_\_

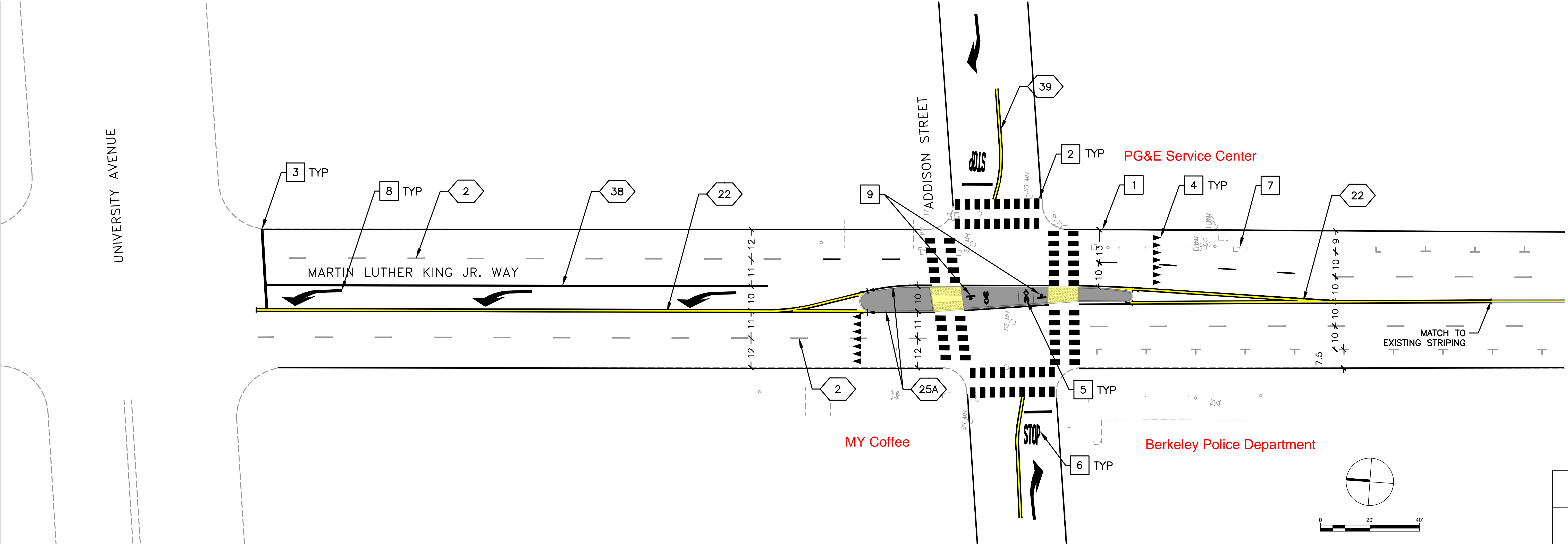
FILE \_\_\_\_\_

SHEET 45 of 80

APPROVAL	DESCRIPTION	DATE	MARK	REVISION

65% ENGINEERING PLAN  
NOT FOR CONSTRUCTION

**811**  
Know what's below.  
Call before you dig.



GENERAL NOTES (THIS SHEET ONLY)

- 1. SEE SHEETS 7 to 10 FOR PAVEMENT DELINEATION DEMO PLAN
- 2. SEE SHEET 47 & 48 FOR STRIPING DETAILS
- 3. PAVEMENT MARKINGS PER CALTRANS STANDARD PLANS A20A-E AND A24A-F
- 4. NEW MARKINGS ARE SHOWN IN BLACK. EXISTING MARKINGS TO BE MAINTAINED ARE SHOWN IN GRAY
- 5. SIGN CODES PER CA MUTCD 2014 REV 2 SIGN CHART
- 6. CONTRACTOR SHALL PROVIDE 24-HOURS NOTICE TO ALLOW THE CITY TRAFFIC ENGINEER TO REVIEW AND APPROVE ALL STRIPING AND MARKINGS AS "CAT-TRACKS" PRIOR TO PLACING PERMANENT MARKINGS

CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 PAINT/REFRESH CURB
- 2 STRIPE TRIPLE FOUR CROSSWALK
- 3 STRIPE 1'-WIDE WHITE PAVEMENT STRIPE (STOP BAR)
- 4 STRIPE YIELD MARKINGS
- 5 INSTALL SHARROW
- 6 REFRESH "STOP" STENCIL
- 7 REFRESH PARKING T
- 8 REFRESH TYPE III (L) ARROW (24FT)
- 9 INSTALL SIGNS ON 2" POST. SEE SHEET 61 FOR CUSTOM SIGN DETAILS

LEGEND & ABBREVIATIONS

- XX CALTRANS STRIPING DETAIL
- (E) EXISTING
- LF LINEAR FEET
- TYP TYPICAL



1936 University Ave, Ste 250  
Berkeley, CA 94704  
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<div>0 1 2 3</div>	
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CITY ENGINEER	R.C.E. EXP.

DESIGN	AG	HORIZ.	VARIES
DRAWN	AG	VERT.	NA
CHECK	JM	BOOK	
AS BUILT		DATE	06/29/2020

CITY OF BERKELEY  
DEPARTMENT OF PUBLIC WORKS

MILVIA STREET BIKEWAY  
PAVEMENT DELINEATION/SIGNAGE PLAN  
ADDISON ST AT MARTIN LUTHER KING JR. WAY

PLAN	
FILE	
SHEET	46 of 80

65% ENGINEERING PLAN  
NOT FOR CONSTRUCTION



Know what's below.  
Call before you dig.

APPROVAL	DESCRIPTION	DATE	MARK	REVISION