

\\Intranet2\Dev\WWW\Root\Sites\CIP\Projects\After2024\Shared\_Documents\25XXXX - Wawona Street Pavement Maintenance\400\_PROJECT DESIGN\440\_PLANS\PRELIM\_SET-Wawona Street Bike and Pedestrian Improvement Project



# CITY OF MANTECA ENGINEERING DEPARTMENT

## WAWONA STREET (UNION ROAD TO MAIN STREET) BIKE & PEDESTRIAN IMPROVEMENT PROJECT

JUNE 2025

SUBMITTED BY:



SOMPORN BOONSALAT R.C.E.78209  
DEPUTY DIRECTOR OF ENGINEERING  
DEPARTMENT OF ENGINEERING

APPROVED BY:

KEVIN JORGENSEN II  
DIRECTOR OF ENGINEERING/CITY ENGINEER  
DEPARTMENT OF ENGINEERING

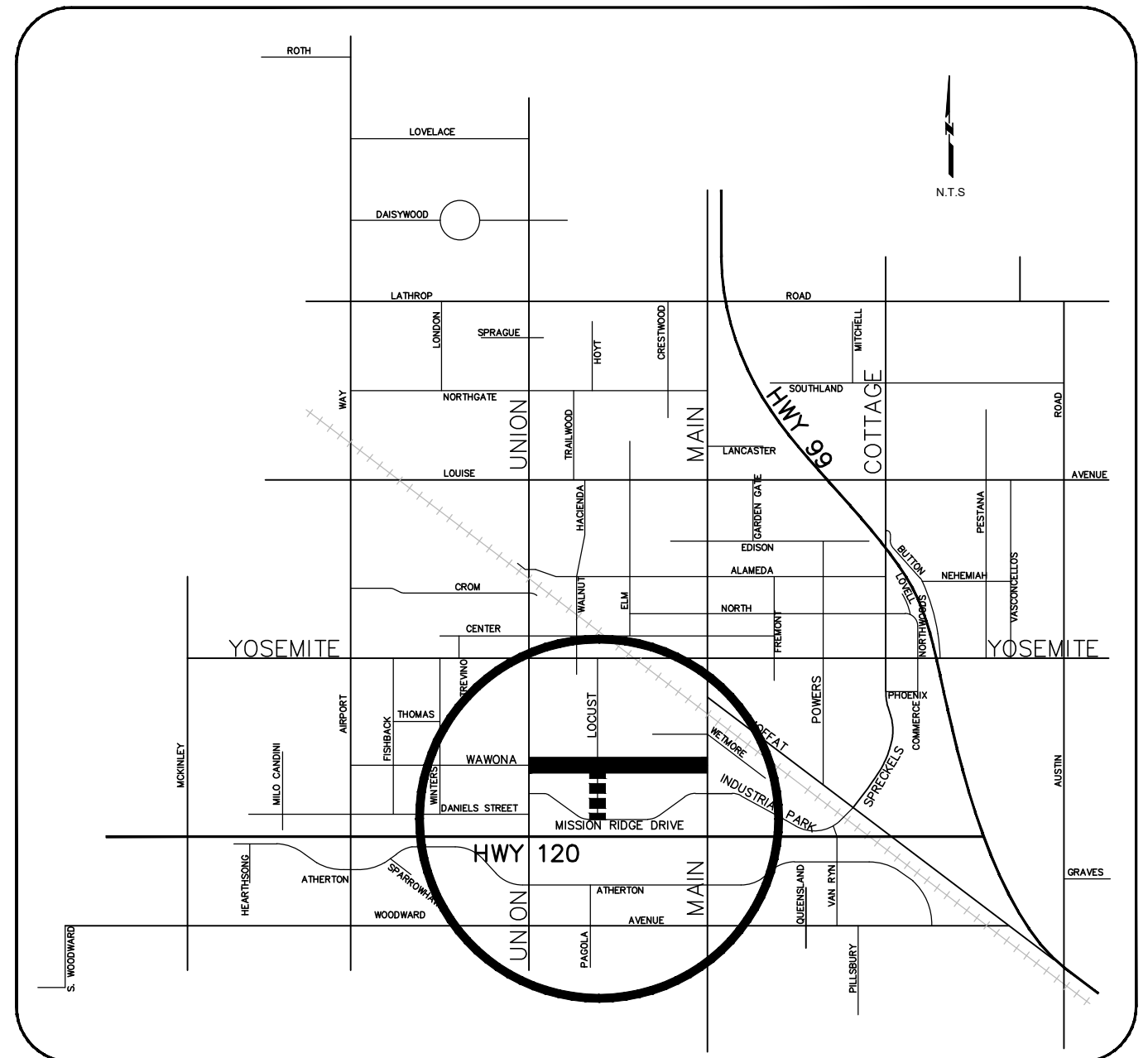
APPROVED FOR CONSTRUCTION BASED ON THE INFORMATION PROVIDED. THE CITY OF MANTECA AND THE UNDERSIGNED ASSUME NO LIABILITY FOR ERRORS OR OMISSIONS THAT MAY EXIST IN THESE PLANS.

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UTILITY REPRESENTATIVES*		
UTILITY	REPRESENTATIVE	PHONE
WATER - CITY	GEORGE MONTROSS	209-456-8466
STORMDRAIN - CITY	HEATHER GROVE	209-456-8470
SEWER - CITY	HEATHER GROVE	209-456-8470
TRAFFIC ENG - CITY	BESHOY DEMYAN	209-456-8460
ROAD MAINT - CITY	AARON JEFFERY	209-456-8449
PARKS - CITY	CODY ROSS	209-456-8400
SOLID WASTE - CITY	AVNEET MAHIL	209-456-8440
TRANSIT - CITY	JUAN PORTILLO	209-456-8888
SURVEY	SAN JOAQUIN COUNTY	209-468-8068
CABLE - COMCAST	CRISTIAN GONZALEZ	925-321-1115
CABLE - CHARTER	ABEL DAVILA	209-633-3311
TELEPHONE - AT&T	ROBERT KNECHT	209-587-7037
TELEPHONE - QWEST	GEORGE MCELVAIN	303-992-9931
TELEPHONE - VERIZON	BERNADETTE MARTINEZ	925-951-2014
TELEPHONE - FRONTIER	JAMES CARTER	209-239-0655
FIBER - AT&T	RONALD PIMENTEL	530-841-0621
GAS - PG&E	WAYNE GILBERT	925-551-1849
ELECTRICITY - PG&E	BRAD JOAQUIN	209-272-8618
PETROLEUM - KINDER MORGAN	KARLY PAYNE	714-560-4604
UNDERGROUND SERVICE ALERT		811



CALL U.S.A. AT LEAST 2 WORKING DAYS BEFORE YOU DIG AT 811 OR 800-642-2444 (UNDERGROUND UTILITY LOCATION ARE APPROX)

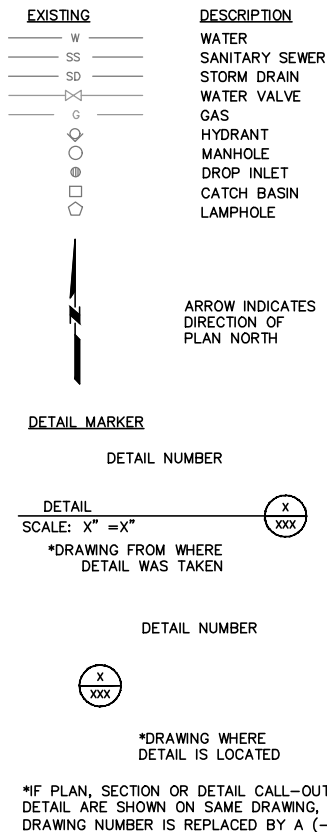


PROJECT LOCATION MAP

## ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
(A)	ABANDON	INV	INVERT
ADDNL	ADDITIONAL	JP	JOINT UTILITY POLE
AB	AGGREGATE BASE	LF	LINEAR FEET
AC	ASPHALT CONCRETE	LP	LOW POINT
ACP	ASBESTOS CEMENT PIPE	LT	LEFT
ADJ	ADJUSTABLE	MAX	MAXIMUM
APPROX	APPROXIMATE	MH	MANHOLE
ARV	AIR RELIEF VALVE	MB	MAILBOX
AVG	AVERAGE	MIN	MINIMUM
⊙	AT	MJ	MECHANICAL JOINT
BC	BEGIN CURVE	NIC	NOT IN CONTRACT
BCV	BALL CHECK VALVE	NO OR #	NUMBER
BF	BLIND FLANGE	NTS	NOT TO SCALE
BFP	BACK FLOW PREVENT	OG	ORIGINAL GROUND
BFV	BUTTERFLY VALVE	PAE	PUBLIC ACCESS EASEMENT
BLDG	BUILDING	PAVE	PAVEMENT ELEVATION
BSW	BACK OF SIDEWALK	PT	POINT
BO	BLOW-OFF VALVE	PL	PROPERTY LINE
BY	BALL VALVE	PUE	PUBLIC UTILITY EASEMENT
CB	CATCH BASIN	PVC	POLYVINYL CHLORIDE
C&G	CURB AND GUTTER	PVMT	PAVEMENT
CG&SW	CURB, GUTTER AND SIDEWALK	POB	POINT OF BEGINNING
CICB	CURB INLET CATCH BASIN	PI	POINT OF INTERSECTION
CMP	CORRUGATED METAL PIPE	POE	POINT OF ENDING
CND	CONDUIT	PRC	POINT OF REVERSE CURVATURE
CO	CLEAN OUT	R/W OR ROW	RIGHT OF WAY
CONC	CONCRETE	R OR RAD	RADIUS
CR	CURB RETURN	R&R	REMOVE AND REPLACE
CTS	CORROSION TEST STATION	RCP	REINFORCED CONCRETE PIPE
CL OR CL	CENTERLINE	RDCR	REDUCER
(D)	DEMOLISH	RET	RETURN
DEG	DEGREE	REQ.	REQUIRED
DET	DETAIL	RT	RIGHT
DI	DROP INLET	(R)	REMOVE
DIAM	DIAMETER	SCO	SANITARY SEWER CLEAN OUT
DIM	DIMENSION	SP	SPECIAL PROVISIONS
DIP	DUCTILE IRON PIPE	SHT	SHEET
DIST	DISTRIBUTION	SF	SQUARE FOOT/FEET
DR	DRIVE	SD	STORM DRAIN
DRWG	DRAWING	SIM	SIMILAR
DWG	DRAWING	SO	SIDE OPENING
D/W	DRIVEWAY	SPEC	SPECIFICATION
E	EAST	SS	SANITARY SEWER
EA	EACH	SDMH	STORM DRAIN MANHOLE
ECC	ECCENTRIC	STA	STATION
EC	END OF CURVE	STD	STANDARD
ELEV	ELEVATION	SSJD	SOUTH SAN JOAQUIN IRRIGATION DISTRICT
ELL	ELBOW	SSLH	SANITARY SEWER LAMPHOLE
ENGR	ENGINEER	SSMH	SANITARY SEWER MANHOLE
(E)	EXISTING	ST	STREET
EL	EDGE LINE	STA	STATION
EP	EDGE OF PAVEMENT	STD	STANDARD
ESMT	EASEMENT	S/W	SIDEWALK
EX	EXISTING	SW	SIDEWALK
EW	EACH WAY	SDEQ	STORM DRAIN EQUALIZER
FG	FINISHED GRADE	TBO	TEMPORARY BLOW-OFF VALVE
FH	FIRE HYDRANT	TC	TOP OF CURB
FIG	FIGURE	TDOC	TOP DRIVE-OVER CURVE (AT SCORE MARK)
FL	FLOW LINE	TEL	TELEPHONE
FL	FLANGE	TP	TELEPHONE POLE
FO	FIBER OPTICS	TEMP	TEMPORARY
FOC	FACE OF CURB	TYP	TYPICAL
FT OR ' "	FOOT OR FEET	UG	UNDERGROUND
G	GAS	UPRR	UNION PACIFIC RAILROAD
GB	GRADE BREAK	USGS	UNITED STATES GEOLOGICAL SURVEY
GRND	GROUND	VCP	VITRIFIED CLAY PIPE
GR	GRADE	VERT	VERTICAL
HORZ	HORIZONTAL	W	WATER LINE
ID	INTERIOR DIAMETER	WV	WATER VALVE
IN OR " "	INCH	W/	WITH

## SYMBOLOLOGY



## GENERAL NOTES

- THIS IS A PROJECT OF THE CITY OF MANTECA. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE REQUIREMENTS SET FORTH WITHIN CALIFORNIA LAW AND REGULATIONS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER OR THE CITY OF MANTECA.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE CITY'S INTERPRETATION OR CORRECTION THEREOF SHALL BE CONCLUSIVE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED (REFER TO PROJECT SPECIFICATIONS FOR MORE DETAIL).
- AT THE TIME WORK IS BEING PERFORMED, THE CONTRACTOR SHALL POSSESS A VALID CONTRACTORS LICENSE OF A CLASS APPROPRIATE TO COVER THE WORK BEING DONE, AS ADVERTISED IN THE INVITATION TO BIDDERS FOR THIS PROJECT.
- AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE CONTRACTOR SHALL SUBMIT ONE SET OF REPRODUCIBLE "AS BUILT" PLANS, OPERATION AND MAINTENANCE MANUALS, AND ALL OTHER DELIVERABLES REQUIRED BY THIS CONTRACT. FINAL LOCATIONS AND ELEVATIONS, INCLUDING INVERT, SHALL BE SHOWN ON THE "AS BUILT" PLANS. "AS BUILT" PLANS SHALL CLEARLY AND DISTINCTIVELY SHOW CHANGES FROM ORIGINAL CONFORMED DRAWINGS.
- PAVING OPERATIONS ON WAWONA STREET BETWEEN LOCUST AVENUE AND SEQUOIA AVENUE MUST BE SCHEDULED DURING MANTECA UNIFIED SCHOOL DISTRICT'S (MUSD) FALL BREAK IN EARLY OCTOBER 2025. CONTRACTOR SHALL REFER TO MUSD WEBSITE FOR 2025-26 STUDENT CALENDAR FOR SEQUOIA ELEMENTARY SCHOOL'S FALL BREAK. MUSD MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL BE RESTRICTED TO THE HOURS 8:00 AM TO 5:00 PM ON WEEKDAYS, UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATIONS. EXTENDED HOURS WHICH MAY INCLUDE SATURDAYS AND SUNDAYS MAY BE ALLOWED BY THE CITY UPON WRITTEN REQUEST. PRIOR APPROVAL AND NOTICE TO THE CITY, ADJACENT RESIDENTS, AND LANDOWNERS IS REQUIRED FOR ALL EXTENDED HOURS.**
- ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE APPROXIMATE AND REFERENCED TO THE CENTER LINE OF ROAD, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES AND PAYING ALL ASSOCIATED FEES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. THE COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL ITEMS DISTURBED OR DAMAGED DURING OR AS A RESULT OF CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE CITY INCLUDING BUT NOT LIMITED TO STRIPING, MARKINGS, LEGENDS, UTILITIES, DRAINAGE, IRRIGATION, LANDSCAPING, FENCING, MAILBOXES, AND ABOVE GROUND VAULTS.
- THE CITY PROJECT MANAGER SHALL BE NOTIFIED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THESE PLANS AND SPECIFICATIONS OR AT LEAST 48 HOURS, WHICHEVER IS GREATER, IN ADVANCE OF ANY WORK BEING PERFORMED. THIS SHALL INCLUDE ALL NOTIFICATIONS TO SCHEDULE QUALITY ASSURANCE INSPECTION & TESTING.
- CONTRACTOR SHALL COORDINATE WITH CITY OF MANTECA OR UTILITY COMPANY FOR ANY SERVICE DISRUPTIONS.
- A FOURTEEN (14) DAY NOTICE SHALL BE GIVEN BY THE CONTRACTOR TO THE CITY OF MANTECA, ASSOCIATED UTILITY COMPANY, BUSINESSES, AND RESIDENCES FOR ANY PLANNED UTILITY SERVICE DISRUPTION. ALL PARTIES SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OR OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS.
- THE CITY OF MANTECA VERTICAL CONTROL SYSTEM IS ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), HORIZONTAL CONTROL NORTH AMERICAN DATUM OF 1983 (NAD83) AND CALIFORNIA STATE PLANE ZONE 3.

## MATERIALS

- ALL MATERIALS USED SHALL CONFORM TO THE PLANS AND SPECIFICATIONS, APPLICABLE STATE AND LOCAL STANDARDS, AND APPLICABLE INDUSTRY STANDARDS AND GUIDELINES SUCH AS ANSI, ASTM, AWWA, AND ACI.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY WATER TO COMPLETE PROJECT. RECYCLED WATER FOR DUST CONTROL IS AVAILABLE AT NO COST AT THE MANTECA WQCF. TRAINING IS REQUIRED FOR PROPER APPLICATION AND USE OF RECYCLED WATER. MISUSE OF RECYCLED WATER IS A VIOLATION OF NATIONAL POLLUTION DISCHARGE ELIMINATION PERMIT AND STATE REGULATIONS, AND MAY BE SUBJECT TO A FINE.
- ASPHALT CONCRETE SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, AND THE MOST CURRENT CALTRANS STANDARDS. ASPHALTIC CONCRETE SHALL BE 3/4-INCH HOT-MIX ASPHALT TYPE A / RUBBERIZED HOT-MIX ASPHALT PG 64-10, OR BETTER, UNLESS OTHERWISE SPECIFIED.
- ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F. ASPHALT CONCRETE TEMPERATURE IN WINDROWS SHALL NOT DROP BELOW 260°F PRIOR TO SPREADING OR KNOCK DOWN.
- PORTLAND CEMENT CONCRETE SHALL BE PLACED IN CONFORMANCE WITH ACI 305 OR 306, PARTICULARLY WHEN THE WIND SPEEDS ARE ANTICIPATED TO EXCEED 10 MPH OR AMBIENT TEMPERATURES ARE ANTICIPATED TO BE BELOW 55°F OR ABOVE 80°F, RESPECTIVELY, DURING THE CURING PERIOD. PROPER PROTECTION AND/OR MITIGATION MEASURES SHALL BE IMPLEMENTED TO PROTECT THE CONCRETE DURING PLACEMENT AND CURING.

## UTILITY NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND FACILITIES. UTILITIES AND FACILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND BASED UPON AVAILABLE DATA. NOT ALL EXISTING UNDERGROUND UTILITIES MAY BE SHOWN ON THESE PLANS. ANY UTILITIES OR FACILITIES EXPOSED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND THE CITY CONSTRUCTION MANAGER. VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES WITH RESPECTIVE UTILITY COMPANIES RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREAS OF CONSTRUCTION AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.
- IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN THOSE SPECIFIED ON THESE IMPROVEMENT PLANS, A 14 DAYS NOTICE TO THE CITY OF MANTECA, ASSOCIATED UTILITY COMPANY, BUSINESSES, AND RESIDENCES TO BE AFFECTED SHALL BE GIVEN FOR ANY PLANNED DISRUPTION. COORDINATION WITH ENGINEERING, BUSINESSES, AND RESIDENCES 14 DAYS AHEAD AND 48 HOURS CONFIRMATION.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES.
- EXISTING OVERHEAD ELECTRIC AND TELEPHONE TRANSMISSION LINES MAY BE LOCATED AT OR NEAR THE SITE. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCE. OVERHEAD UTILITIES ARE NOT COMPLETELY SHOWN ON THE PLANS. EXTREME CAUTION SHALL BE USED WHEN WORKING IN THE VICINITY OF OVERHEAD UTILITIES SO AS TO PREVENT INJURY TO WORKERS OR DAMAGE TO UTILITIES. CONTACT UTILITIES FOR PROPER CLEARANCE GUIDELINES BEFORE WORKING UNDER OR NEAR ELECTRIC AND COMMUNICATION UTILITIES TO MAINTAIN ADEQUATE CLEARANCE.
- IF ANY EXCAVATION MAY OCCUR, THE CONTRACTOR SHALL CHECK WITH UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO NO DAMAGE RESULTS DURING THE PERFORMANCE OF THIS CONTRACT WORK.
- EXISTING UTILITIES ARE SHOWN BASED ON REVIEW OF HISTORICAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL POTHOLE TO VERIFY IN FIELD HORIZONTAL AND VERTICAL LOCATION OF UTILITIES WITHIN PROJECT AREA.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES REGARDING APPROPRIATE CLEARANCES AND EQUIPMENT WHEN PROXIMITY TO OVERHEAD OR UNDERGROUND UTILITIES. COORDINATION WITH CITY AND RESIDENCES 14 DAYS AHEAD AND 48 HOURS CONFIRMATION.
- GENERALLY, PG&E REPRESENTATIVE SHALL BE ONSITE DURING EXCAVATION WITHIN 10 FT OF A GAS TRANSMISSION MAIN, UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL COORDINATE THIS IF/WHEN NEEDED.
- UTILITY HORIZONTAL LOCATIONS AND INVERTS ARE APPROXIMATE, CONTRACTOR SHALL POTHOLE TO VERIFY.
- UTILITY COMPANIES SHALL BE CONTACTED TO COORDINATE THE SCHEDULE FOR POTHOLING ACTIVITIES. CONTRACTOR MUST COORDINATE POTHOLING SCHEDULE TO ALLOW A REPRESENTATIVE OF A UTILITY COMPANY TO BE ONSITE DURING POTHOLING OF THEIR UTILITY.
- IF MOVED, MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED.
- VALVE COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE PAVING CONTRACTOR.

## SEDIMENT & EROSION CONTROL PLAN

- CONTRACTOR SHALL SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OR EROSION AND SEDIMENT CONTROL PLAN (ESCP) AS NECESSARY FOR REVIEW BY THE CITY PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. LAND DISTURBING ACTIVITIES SHALL NOT PROCEED UNTIL THE CITY HAS TAKEN "NO EXCEPTION" TO THE SWPPP OR ESCP, AND ANY NOI HAS BEEN FILED AND ACCEPTED BY THE STATE, IF REQUIRED.
- APPROPRIATE DUST CONTROL SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AS DIRECTED BY CONSTRUCTION MANAGER. RECYCLED WATER FOR DUST CONTROL IS AVAILABLE AT NO COST AT THE MANTECA WQCF, 2450 W. YOSEMITE AVENUE.
- CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURE TO PROTECT THE STORM DRAINAGE SYSTEM AGAINST A POTENTIAL DISCHARGE FROM THE CONSTRUCTION SITE OR ACTIVITIES, WHICH MAY INCLUDE PROTECTING STORM DRAIN INLETS, STREET SWEEPING, VACUUMING, AND OTHER ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCHARGE INCURRED DUE TO THEIR ACTIVITIES OR FAILURE TO ACT APPROPRIATELY, INCLUDING ALL COSTS ASSOCIATED WITH EMERGENCY MITIGATION AND ABATEMENT.
- ALL DRAINAGE PATTERNS SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION.

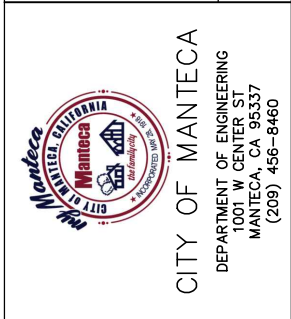
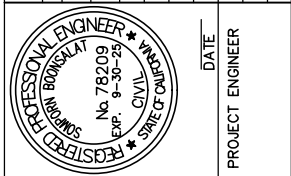
## SURVEY MONUMENT PRESERVATION

- CONTRACTOR SHALL COMPLY WITH THE PROFESSIONAL LAND SURVEYORS' ACT - BUSINESS & PROFESSIONS CODE, SECTION 8771(B) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT THE MONUMENTS ARE SHOWN ON THE PLANS. SEE SPECIFICATIONS.

## POLLUTION AND DUST CONTROL NOTES

- THE CONTRACTOR SHALL KEEP THE WORK SITE FREE AND CLEAR OF RUBBISH AND DEBRIS.
- THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE AND PROTECT NATURAL HABITAT, IF ANY, THAT ARE ADJACENT TO THE PROJECT SITE.
- THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH A QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONTITUTED AUTHORITY.
- THE CONTRACTOR SHALL KEEP ALL AREAS GENERATING DUST WITHIN THE LIMITS OF THE PROJECT WELL WATERED DURING THE TERM OF THIS CONTRACT. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS RAMPS, THE HAUL ROADS, THE EMBANKMENT FILL AREA, AND ANY OTHER AREAS THAT MAY GENERATE DUST AS A RESULT OF CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES DURING EVENINGS, WEEKENDS, AND HOLIDAYS WHEN REQUESTED BY THE CITY AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS ADJACENT TO THE PROJECT SITE CLEAR OF MUD AND SILT DURING THE TERM OF THIS CONTRACT. THIS INCLUDES MUD CAUSED BY RAIN OR BY THE CONTRACTOR'S WATERING PROCEDURES FOR DUST CONTROL.
- THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY THEM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE AND LITTER IN A MANNER SATISFACTORY TO THE CITY OF MANTECA.

DATE	06/17/2025
CIP NO.	
GRID NO.	N/A
FILE NO.	N/A
REVISIONS	
APPROVED	SOMFORN BOONSALAT DATE
DESIGNED	T. SESSOMS/D. ZAPICO
DRAWN	T. SESSOMS/D. ZAPICO
NO.	

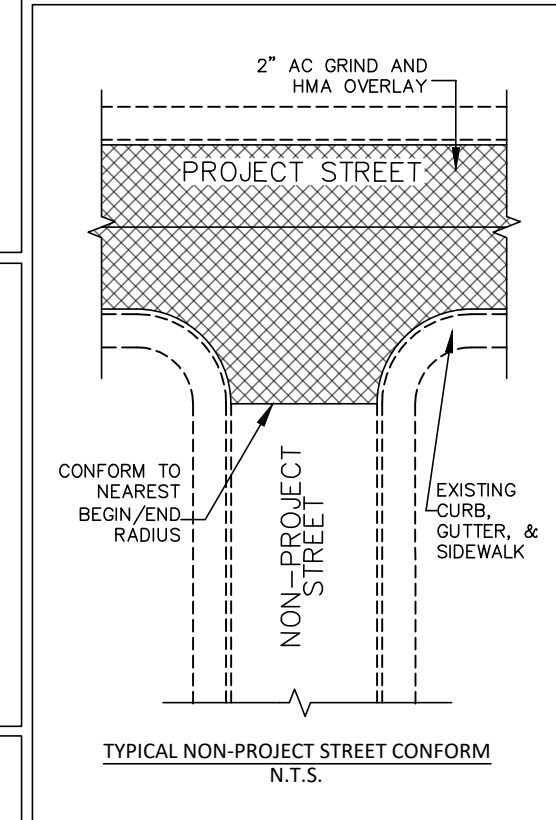
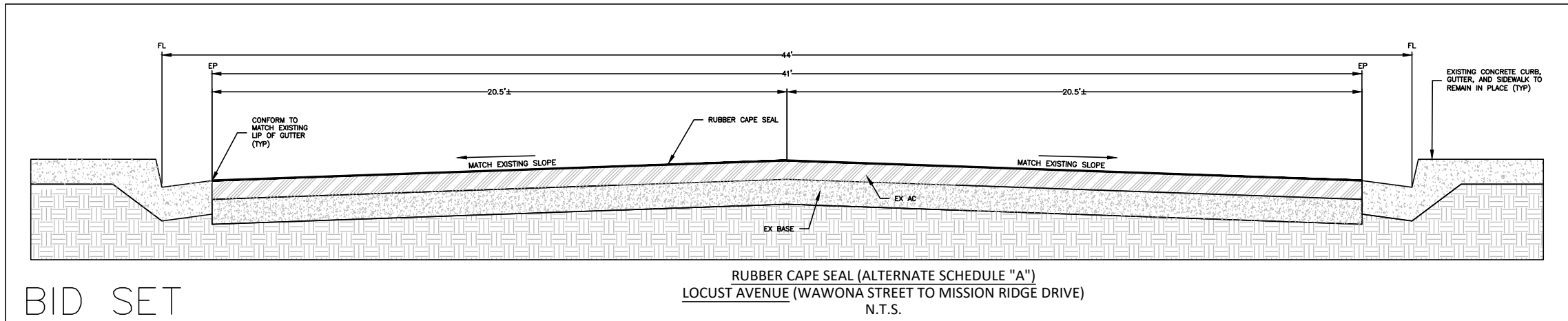
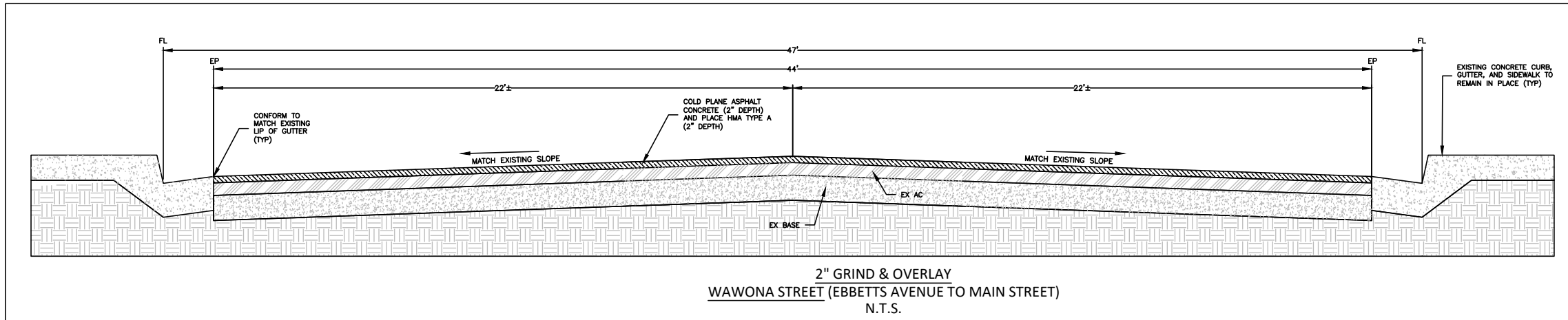
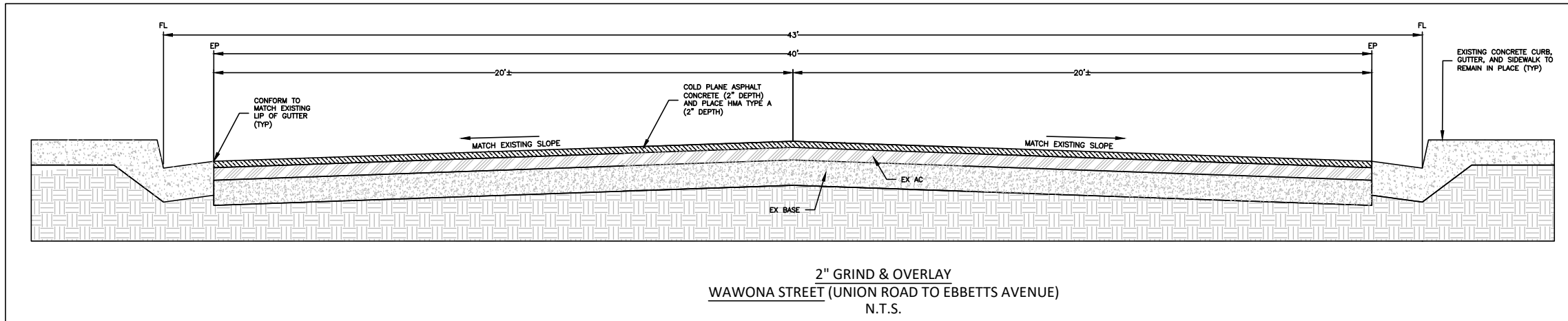
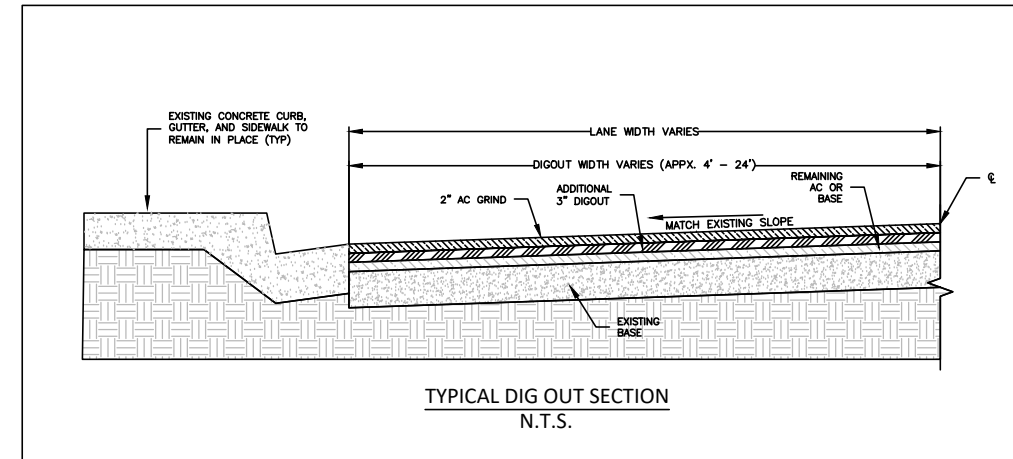


PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 SYMBOLOLOGY, ABBREVIATIONS,  
 AND GENERAL NOTES

GENERAL	
DRAWING	G-2
SHEET: 2 OF	13
SCALE	AS SHOWN
HORZ	
VERT	

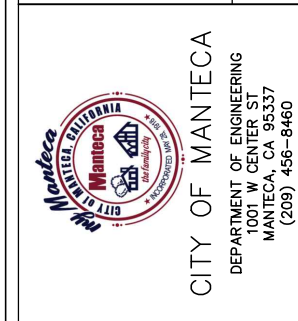
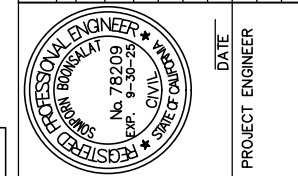
**NOTES:**

- 3/4" HMA TYPE A SHALL BE USED FOR ALL GRIND & OVERLAY AND DIGOUT AREAS.
- ALL AREAS RECEIVING RUBBER CAPE SEAL SHALL RECEIVE CRACK SEALING OR REPAIRING UNLESS OTHERWISE DESCRIBED IN THE PLANS AND SPECIFICATIONS OR DIRECTED BY CITY.
- AC DIGOUTS SHALL BE 3" IN DEPTH, SEE TYPICAL DIGOUT SECTION DETAIL THIS SHEET. DIGOUT LOCATIONS TO BE DETERMINE BY THE ENGINEER. THE CITY SHALL IDENTIFY ACTUAL DIGOUT LOCATIONS DURING CONSTRUCTION.
- 2" GRIND AND OVERLAY WIDTH SHALL BE CENTERED ON LANE UNLESS OTHERWISE SHOWN IN THE PLANS AND SPECIFICATIONS OR DIRECTED BY CITY.
- SIGNAL DETECTOR LOOPS ON WAWONA STREET EAST OF UNION ROAD WILL BE DESTROYED/DISCONNECTED IN PROCESS. NEW LOOPS SHALL BE INSTALLED AND OPERATION OF ALL LOOPS INCLUDING THOSE NOT IN THE GRIND AREA SHALL BE RECONNECTED OR REINSTALLED, TESTED, AND NORMAL SIGNAL OPERATION RESTORED. WHERE APPLICABLE NEW LOOPS SHALL BE PLACED UNDER THE 2" OVERLAY.
- EXISTING STRIPING AND MARKINGS SHALL BE REMOVED, TEMPORARY STRIPING AND MARKERS SHALL BE INSTALLED, MAINTAINED, AND MODIFIED AS NECESSARY UNTIL NEW PERMANENT STRIPING AND MARKINGS ARE INSTALLED.
- UTILITIES IN PATH OF GRIND AND OVERLAY OR DIGOUTS SHALL BE LOWERED AND RAISED TO CONFORM TO NEW GRADE.
- UTILITY LIDS & COVERS IN PATH OF RUBBER CAPE SEAL SHALL BE FULLY COVERED APPROPRIATELY AND UNCOVERED IN A TIMELY MANNER.
- EXISTING MONUMENT BOXES REMOVED SHALL BE REPLACED WITH:
  - BOX: BINGHAM & TAYLOR, MARK V 10-IN RIM HEAVY WITH FLANGE, PART NUMBER CUL10RHVYF.
  - LID: BINGHAM & TAYLOR, MARK V 10-IN LID STANDARD, WITH "MONUMENT" STAMPED ON LID, PART NUMBER CUL10LHVYCPT.
- CONTRACTOR SHALL COMPLY WITH THE PROFESSIONAL LAND SURVEYORS' ACT - BUSINESS & PROFESSIONS CODE, SECTION 8771(B) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT THE MONUMENTS ARE SHOWN ON THE PLANS. SEE SECTION 02078A OF THE PROEJCT SPECIFICATIONS.
- CROSSWALKS SHALL BE REPLACED WITH HIGH VISIBILITY CROSSWALKS, SEE SHEET D1 FOR DETAILS.



BID SET

DATE	06/17/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	T. SESSOMS/D. ZAPICO
DRAWN	T. SESSOMS/D. ZAPICO
NO.	REVISIONS
CIP NO.	
GRID NO.	N/A
FILE NO.	N/A
REVISIONS	
NO.	





PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 CROSS SECTIONS AND DETAILS

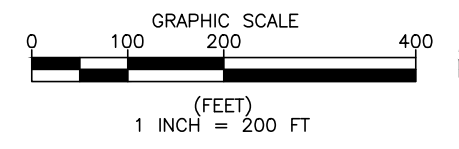
GENERAL	
DRAWING	G-3
SHEET: 3 OF	13
SCALE	HORZ AS SHOWN
VERT	



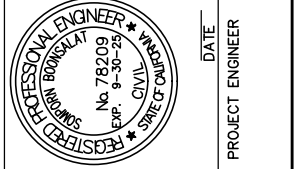

BID SET

-  REMOVE & REPLACE EXISTING TYPE "C" CURB RAMP PER THE 2024 CALTRANS STANDARD PLANS A88A
-  REMOVE & REPLACE EXISTING TRAFFIC DETECTOR LOOPS

- NOTES:**
1. NEW CURB RAMP MUST BE CENTERED AT THE EXISTING CURB RAMP LOCATION UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
  2. TRAFFIC DETECTOR LOOPS MUST BE DESTROYED/DISCONNECTED IN PROCESS. NEW LOOPS MUST BE INSTALLED AND OPERATION OF ALL LOOPS INCLUDING THOSE NOT IN THE GRIND AREA MUST BE RECONNECTED OR REINSTALLED, TESTED, AND NORMAL SIGNAL OPERATION RESTORED. WHERE APPLICABLE, LOOPS SHALL BE INSTALLED BELOW THE TOP LIFT OF ASPHALT CONCRETE PAVEMENT.



DATE	06/17/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	T. SESSOMS/D. ZAPICO
DRAWN	T. SESSOMS/D. ZAPICO
NO.	REVISIONS
CIP NO.	
GRID NO.	N/A
FILE NO.	N/A
APPROVAL DATE	

**CITY OF MANTECA**  
 DEPARTMENT OF ENGINEERING  
 1001 W CENTER ST  
 MANTECA, CA 95337  
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 LIMITS OF WORK -  
 CURB RAMPS AND TRAFFIC LOOPS

LAYOUT	
DRAWING	L-1
SHEET: 4 OF 13	
SCALE	AS SHOWN
HORZ	
VERT	

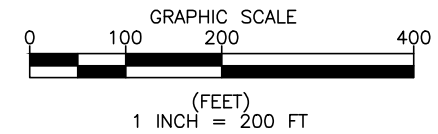


**LEGEND**

- COLD PLANE ASPHALT CONCRETE (2" DEPTH) AND PLACE HMA TYPE A (2" DEPTH) (BASE BID)
- RUBBER CAPE SEAL WITH CRACK AND JOINT SEALING (ALTERNATE SCHEDULE "A")

**NOTES:**

1. ASPHALT CONCRETE SHALL BE HMA TYPE A IN ACCORDANCE WITH SECTION 02039 OF THE PROJECT SPECIFICATIONS.
2. RUBBER CAPE SEAL SHALL BE PLACED IN ACCORDANCE WITH SECTION 02037C OF THE PROJECT SPECIFICATIONS.
3. DIGOUTS SHALL REMOVE EXISTING TO A DEPTH OF 3" AND REPLACE WITH 3" OF HMA. DIGOUT LOCATIONS TO BE DETERMINE BY THE ENGINEER. THE CITY SHALL IDENTIFY ACTUAL DIGOUT LOCATIONS DURING CONSTRUCTION.
4. FOR CRACK SEAL (LOW-MED) ON LOCUST AVENUE, CONTRACTOR SHALL FOLLOW THE PREP WORK FOR CRACKS 1/8" TO 1-1/4" AND CRACK SEAL PER THE PROJECT SPECIFICATION.
5. FOR CRACK SEAL (HIGH) ON LOCUST AVENUE, CONTRACTOR SHALL FOLLOW THE PREP WORK FOR CRACKS WIDER THAN 1-1/4" AND CRACK SEAL PER THE PROJECT SPECIFICATION. CRACKS WIDER THAN 1-1/4" WILL BE MARKED IN THE FIELD.
6. FOR CRACKS WIDER THAN 1-1/4" ON WAWONA STREET, CONTRACTOR SHALL INSTALL GLASGRID CENTERED ON THE CRACK PER THE PROJECT SPECIFICATIONS. THE ENGINEER SHALL IDENTIFY AND MARK IN THE FIELD LOCATIONS AFTER COLD PLANING OPERATIONS.



BID SET

DATE	06/17/2025
APPROVED	SOMPORN BOONSALAT
DESIGNED	T. SESSOMS/D. ZAPICO
DRAWN	T. SESSOMS/D. ZAPICO
NO.	
REVISIONS	
CIP NO.	
GRID NO.	N/A
FILE NO.	N/A
APPROVAL DATE	

PROFESSIONAL ENGINEER  
 SOMPORN BOONSALAT  
 No. 78209  
 Exp. 9-30-25  
 CIVIL  
 STATE OF CALIFORNIA  
 DATE \_\_\_\_\_  
 PROJECT ENGINEER

CITY OF MANTECA  
 DEPARTMENT OF ENGINEERING  
 1001 W CENTER ST  
 MANTECA, CA 95337  
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 LIMITS OF WORK -  
 SURFACE TREATMENTS

LAYOUT	
DRAWING	
SHEET: 5 OF 13	
SCALE	
HORIZ AS SHOWN	
VERT	

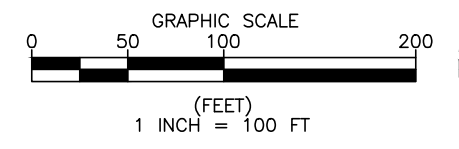


**LEGEND**

- WATER VALVE
- MANHOLE
- LAMPHOLE

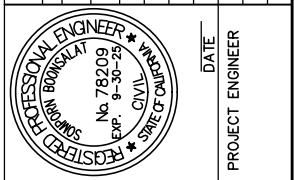
**NOTES:**

1. UTILITY FRAME AND COVER LOCATIONS SHOWN ARE FOR REFERENCE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LOCATIONS, EVEN IF NOT SHOWN ON THE PLANS.
2. UTILITY FRAMES AND COVERS SHALL BE COVERED PRIOR TO SURFACE TREATMENTS OF ANY TYPE. REFER TO SPECIFICATIONS.
3. UTILITY FRAMES AND COVERS ON LOCUST AVENUE WHICH MUST BE ADJUSTED MUST BE DETERMINED BY THE CITY AFTER SURFACE TREATMENTS HAVE BEEN COMPLETED. FRAME AND COVER ADJUSTMENT (LOWER/RAISE) SHALL BE TO FINISH GRADE.
4. EXISTING FIRE HYDRANT MARKERS ARE NOT SHOW ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE WITH DETERMINING THE LOCATIONS OF THE EXISTING FIRE HYDRANT MARKERS, THE REPLACEMENT OF THE FIRE HYDRANT MARKERS, AND THE INSTALLATION AFTER SURFACE TREATMENTS IN ACCORDANCE WITH THE LATEST VERSION OF CA MUTCD (FIGURE 3B-102(CA).)



BID SET

DATE	06/17/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	T. SESSOMS/D. ZAPICO
DRAWN	T. SESSOMS/D. ZAPICO
NO.	REVISIONS
CIP NO.	
GRID NO.	N/A
FILE NO.	N/A
APPROVAL DATE	

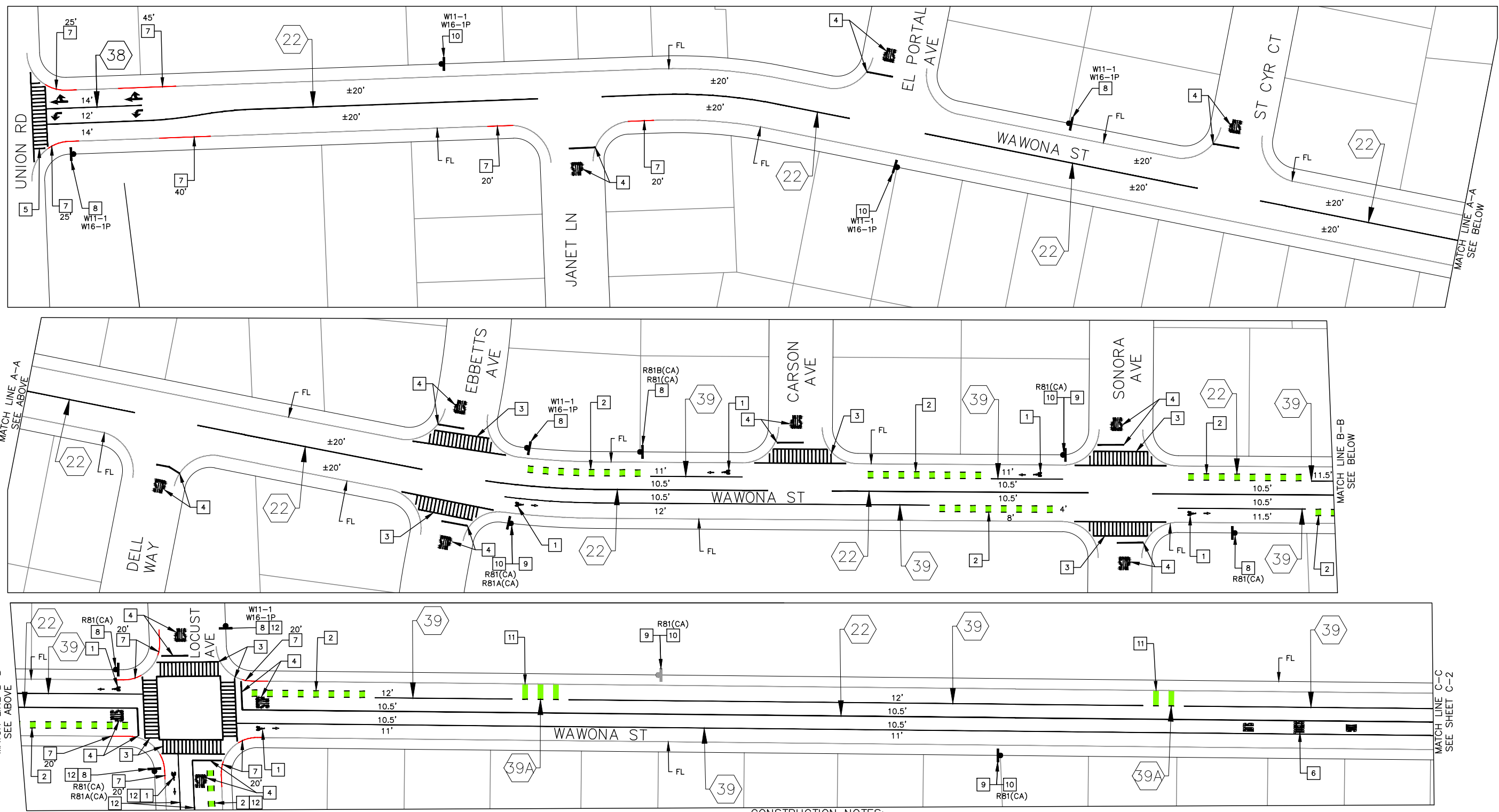


**CITY OF MANTECA**  
 DEPARTMENT OF ENGINEERING  
 1001 W CENTER ST  
 MANTECA, CA 95337  
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 LIMITS OF WORK -  
 UTILITY FRAMES AND COVERS

LAYOUT	
DRAWING	L-3
SHEET: 6 OF	13
SCALE	HORZ AS SHOWN
	VERT

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**LEGEND**

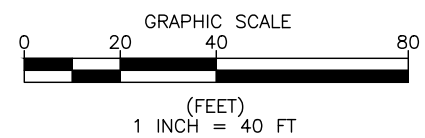
- BIKE LANE ARROW & BIKE LANE SYMBOL W/PERSON PER 2024 CALTRANS STD PLANS A24A & A24C
- PAVEMENT DELINEATION DETAIL PER 2024 CALTRANS STD PLANS
- CONSTRUCTION NOTES
- TYPE VII (L)/(R) ARROW PER 2024 CALTRANS STANDARD PLANS SHEET A24A
- TYPE IV (L)/(R) ARROW PER 2024 CALTRANS STANDARD PLANS SHEET A24A

**GENERAL NOTES:**

1. REPLACE ALL STOP LEGENDS AND LIMIT LINES USING 8' SPACING BETWEEN, SEE SHEET 9 (D-1) TYPICAL CROSSWALK FOR STOP CONTROLLED INTERSECTIONS FOR LAYOUT OF LIMIT LINE AND STOP LEGEND.
2. THE BOTTOM OF THE PROPOSED SIGNS MUST BE 7 FT ABOVE THE SIDEWALK SURFACE
3. ALL WORK MUST CONFORM TO THE 2024 EDITION OF CALTRANS STANDARD PLANS AND SPECIFICATION AND 2014 REVISION 8 EDITION OF CALIFORNIA MUTCD
4. BALANCED SINGLE POST INSTALLATIONS OF SINGLE SHEET ALUMINUM PANEL SIGNS REQUIRED BACK BRACES WHEN 2'-10" OR MORE IN LENGTH PER 2024 CALTRANS STANDARD PLAN SHEET RS-4 AND RS-6

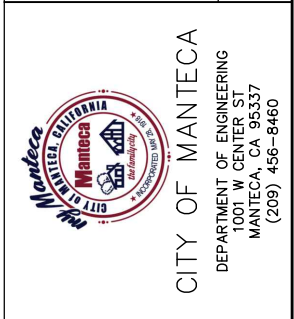
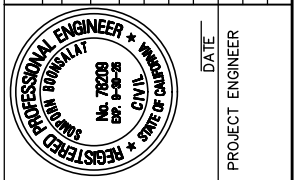
**CONSTRUCTION NOTES:**

1. INSTALL BIKE LANE SYMBOL WITH PERSON AND BIKE LANE ARROW PAVEMENT MARKING PER DETAIL ON D-1 AND PER 2024 CALTRANS STANDARD PLANS SHEET A24A AND A24C
2. INSTALL BIKE LANE CONFLICT STRIPING PER DETAIL ON D-1
3. REMOVE EXISTING CROSSWALK AND/OR INSTALL NEW YELLOW HIGH-VISIBILITY LADDER CROSSWALK PAVEMENT MARKING PER DETAIL ON DETAIL D-1 AND PER 2024 CALTRANS STANDARDS PLANS SHEET A24F
4. REMOVE EXISTING STOP PAVEMENT MARKING AND LIMIT LINE AND INSTALL NEW STOP AND LIMIT LINE PAVEMENT MARKING PER DETAIL ON D-1 AND PER 2024 CALTRANS STANDARDS PLANS SHEET A24D AND A24G
5. REMOVE EXISTING CROSSWALK AND INSTALL NEW WHITE HIGH-VISIBILITY LADDER CROSSWALK PAVEMENT MARKING PER DETAIL ON DETAIL D-1. AND PER 2024 CALTRANS STANDARD PLANS SHEET A24F
6. CONTRACTOR SHALL INSTALL "SLOW SCHOOL XING" PAVEMENT MARKING IN ACCORDANCE WITH 2024 CALTRANS STANDARD PLAN A24D.
7. INSTALL RED CURB PAINT (2 COAT)
8. INSTALL NEW ROADSIDE SIGN PER CITY MANTECA STANDARD PLANS SHEET ST-19
9. REMOVE D11-1 SIGN PANEL
10. INSTALL SIGNS ON THE EXISTING LIGHT POLE USING SSBM METHOD
11. INSTALL METHYL-METHACRYLATE (MMA) GREEN PAINT (12X4)
12. PART OF ALTERNATION SCHEDULE A



**BID SET**

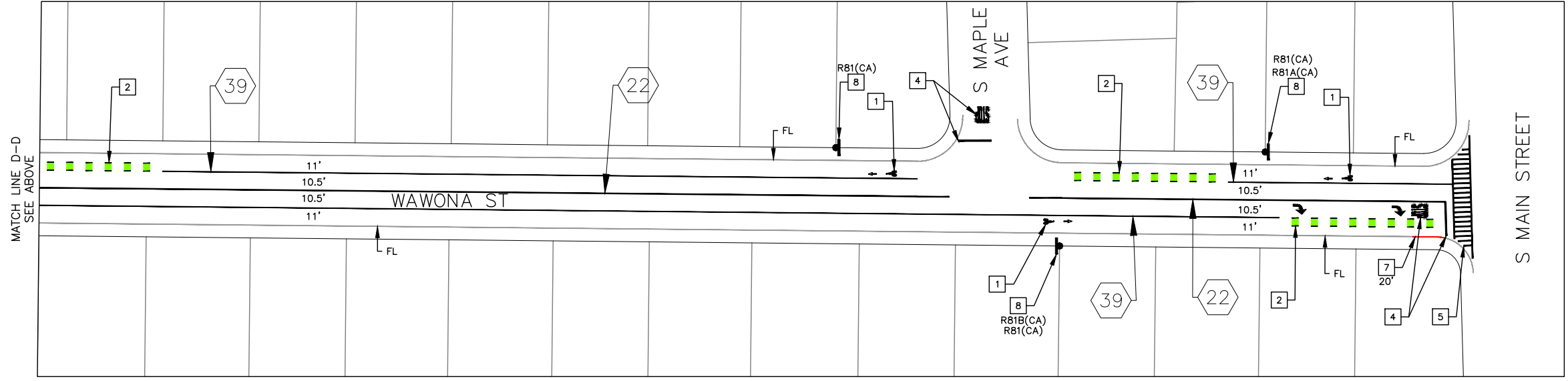
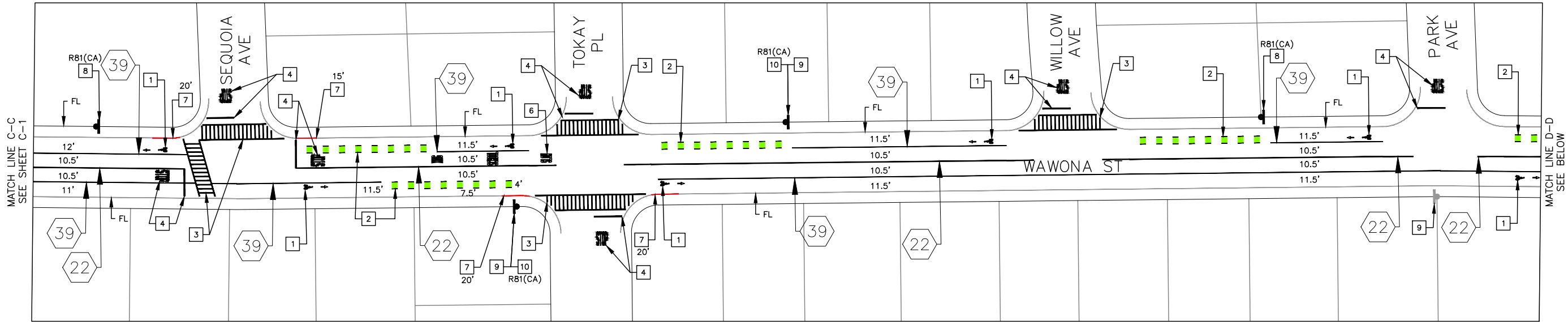
DATE	05/20/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	BESHAY DEMYAN/FRANK GUILLORY
DRAWN	ALEX MACHUCA
CIP NO.	XXXXX
GRID NO.	N/A
FILE NO.	N/A
REVISIONS	



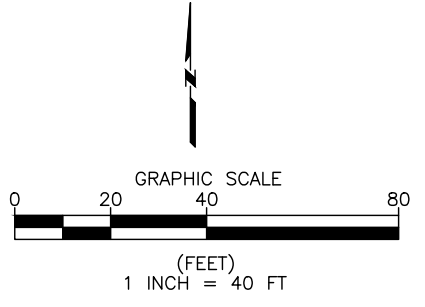
PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 PAVEMENT DELINEATION  
 AND SIGN PLAN

DRAWING	C-1
SHEET: 7 OF	13
SCALE	AS SHOWN
HORIZ	VERT

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- NOTES:
- SEE SHEET C-1 FOR LEGEND, CONSTRUCTION NOTES, AND GENERAL NOTES FOR THIS SHEET.



**BID SET**

DATE	05/20/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	BESHOU DEMYAN/FRANK GUILLORY
DRAWN	ALEX MACHUCA
NO.	REVISIONS
CIP NO.	XXXXX
GRID NO.	N/A
FILE NO.	N/A
APPROVAL BY	

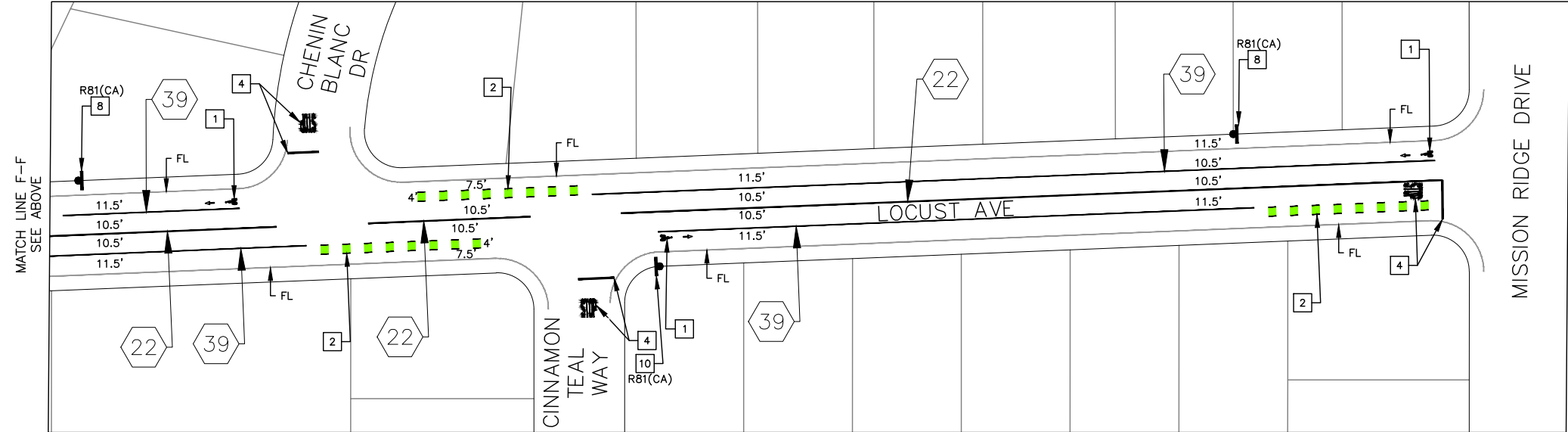
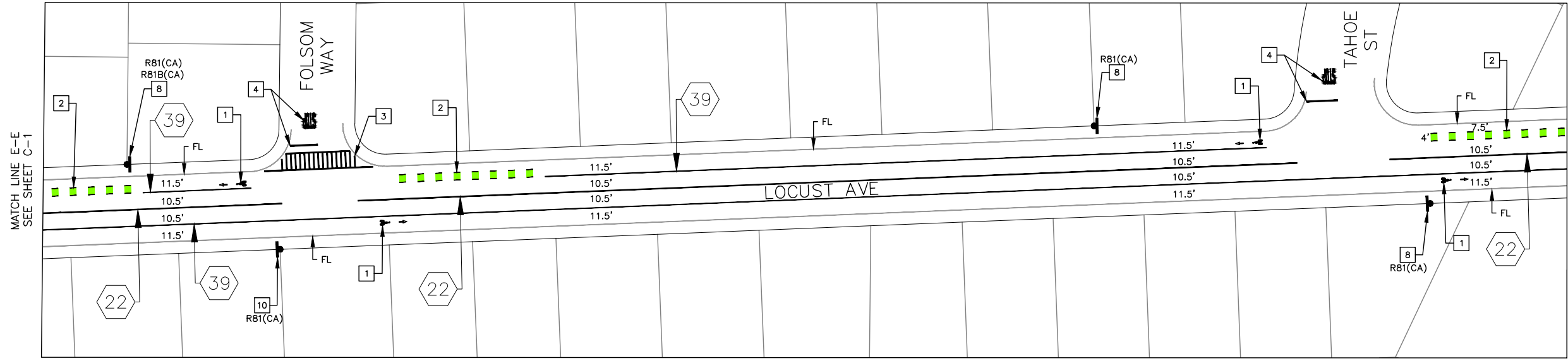
DATE: 05/15/25  
 PROJECT ENGINEER: [Signature]

PROFESSIONAL ENGINEER \* REGISTERED  
 SUMAN KUMAR  
 No. 72208  
 Exp. 6-30-26  
 CIVIL ENGINEER

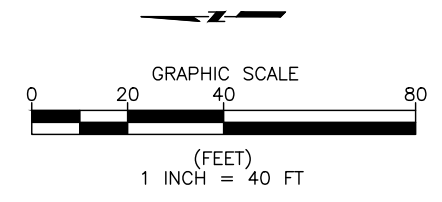
CITY OF MANTECA  
 DEPARTMENT OF ENGINEERING  
 1001 W CENTER ST  
 MANTECA, CA 95337  
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 PAVEMENT DELINEATION  
 AND SIGN PLAN

DRAWING	C-2
SHEET: 8 OF	13
SCALE	HORZ AS SHOWN
VERT	

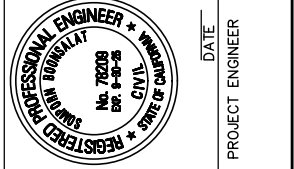


- NOTES:**
- SEE SHEET C-1 FOR LEGEND, CONSTRUCTION NOTES, AND GENERAL NOTES FOR THIS SHEET.



**BID SET**

DATE	05/20/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	BESHAY DEMYAN / FRANK GUILLORY
DRAWN	ALEX MACHUCA
NO.	REVISIONS
CIP NO.	XXXXX
GRID NO.	N/A
FILE NO.	N/A
APPROVAL BY	



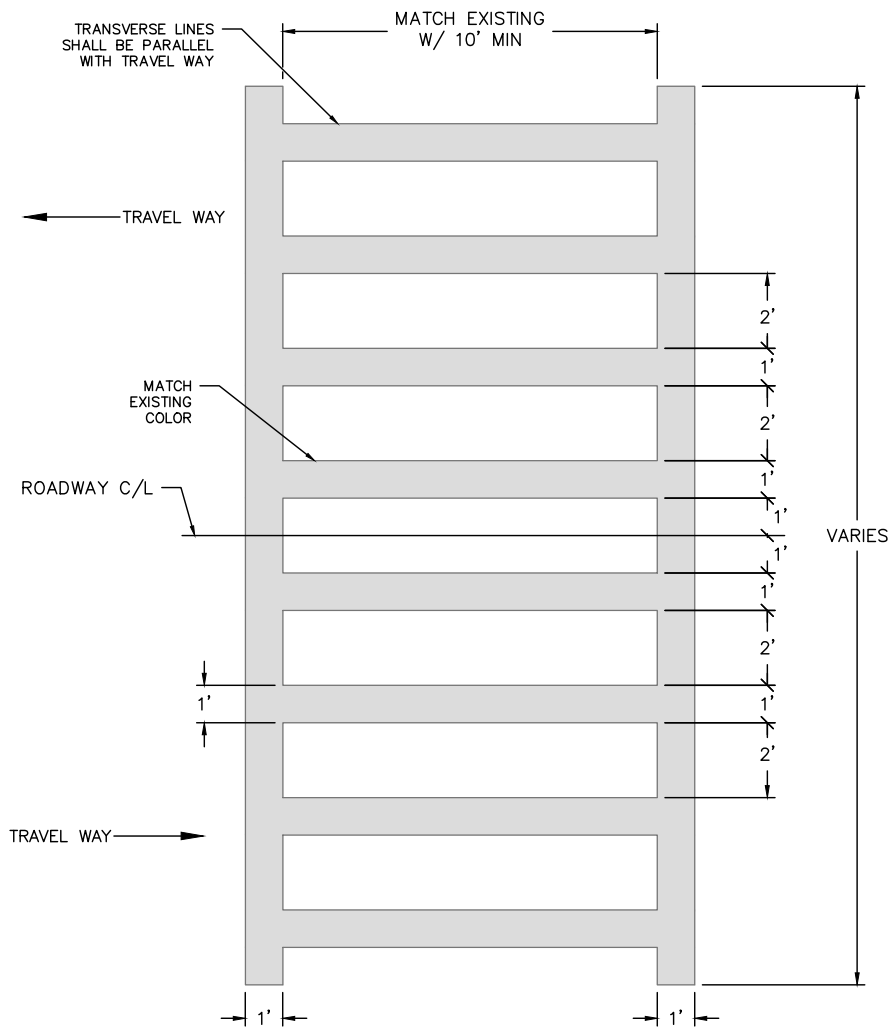
**CITY OF MANTECA**  
 DEPARTMENT OF ENGINEERING  
 1001 W CENTER ST  
 MANTECA, CA 95337  
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
 BIKE & PEDESTRIAN  
 IMPROVEMENT PROJECT**  
 ALTERNATE SCHEDULE A  
 PAVEMENT DELINEATION  
 AND SIGN PLAN

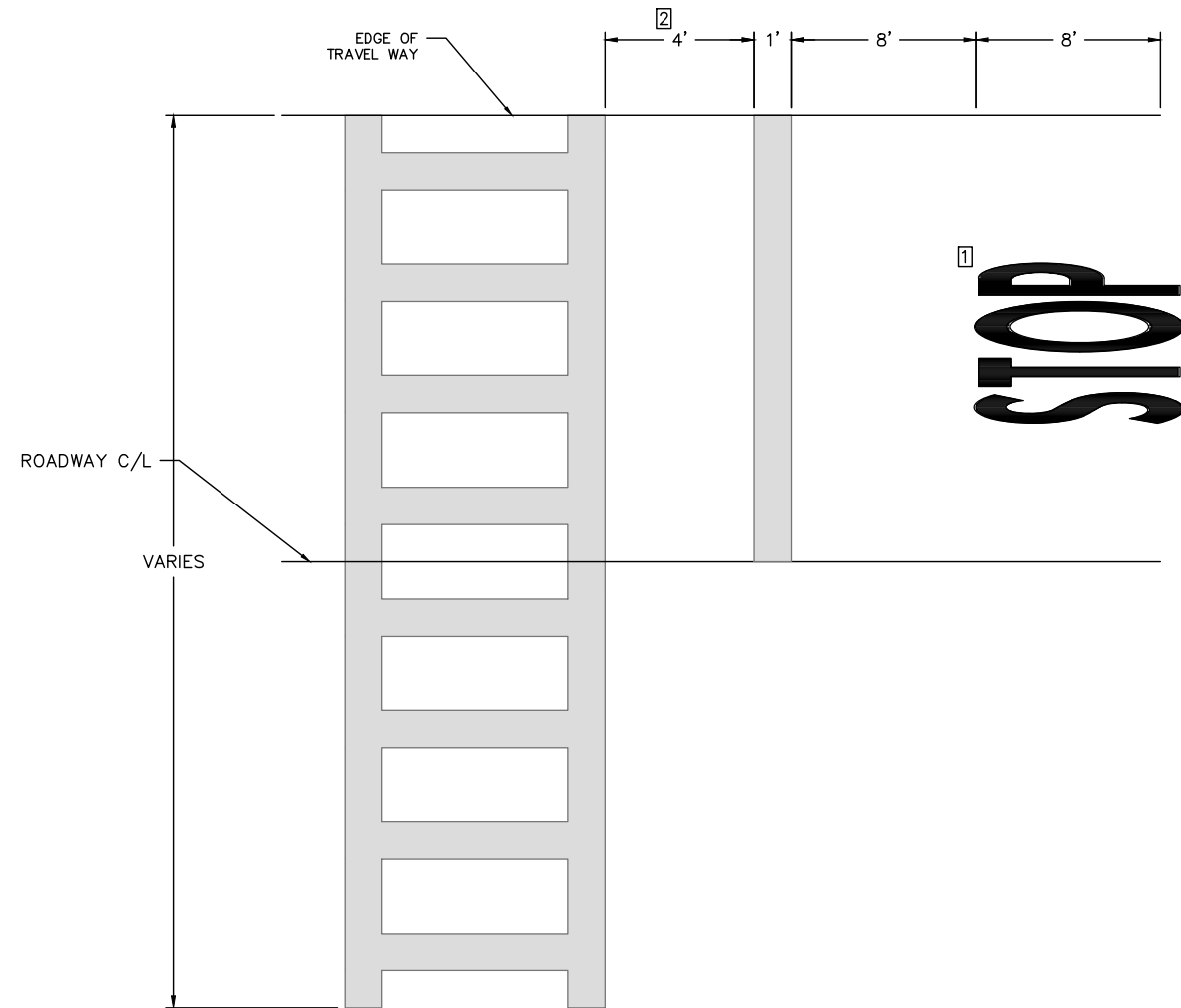
DRAWING	C-3
SHEET: 9 OF	13
SCALE	HORZ AS SHOWN
VERT	

**NOTES:**

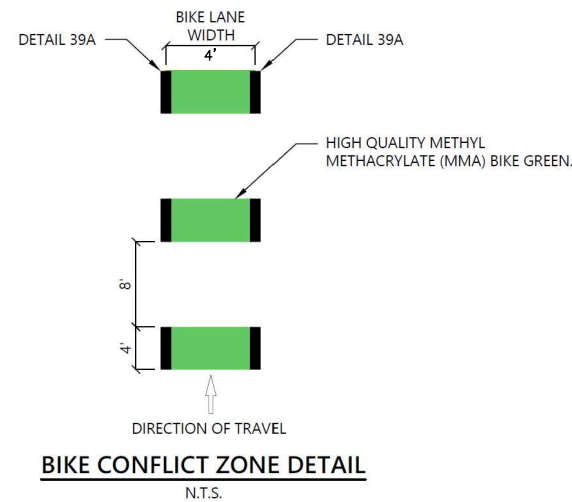
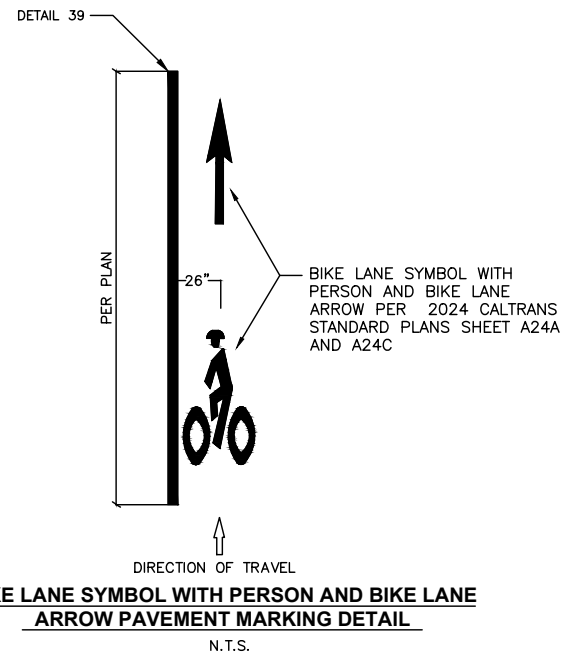
1. CONTRACTOR SHALL INSTALL 'STOP' LEGEND IN ACCORDANCE WITH CALTRANS STANDARD PLAN A24D.
2. FOUR (4) FOOT MEASUREMENT BETWEEN CROSSWALK AND LIMIT LINE SHALL BE MEASURED FROM THE CLOSEST POINT BETWEEN THE EDGE OF CROSSWALK AND EDGE OF LIMIT LINE.
3. REPLACE ALL EXISTING CROSSWALKS WITH HIGH VISIBILITY LADDER STYLE CROSSWALKS, AS SHOWN ON THIS SHEET.
4. ALL STRIPING SHALL BE REPLACED IN KIND ACCORDING TO THE LATEST CALTRANS STANDARD PLANS.
5. TEMPORARY STRIPING AND MARKERS SHALL BE INSTALLED AND MAINTAINED (AND MODIFIED AS NECESSARY) UNTIL PERMANENT STRIPING AND MARKINGS ARE INSTALLED.
6. UTILITY COVERS SHALL BE ADJUSTED (LOWERED/RAISED) AND SET TO FINISH GRADE. AREAS RECEIVING SURFACE TREATMENTS, PROVIDE COVERINGS. REFER TO SPECIFICATIONS.



**TYPICAL CROSSWALK**  
NTS



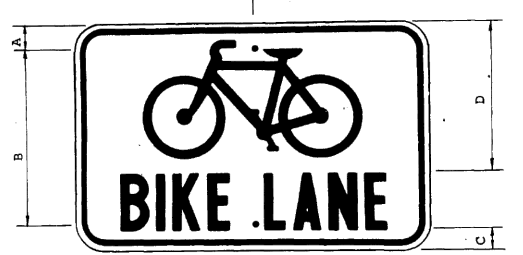
**TYPICAL CROSSWALK AT STOP CONTROLLED INTERSECTIONS**  
NTS



DATE	05/20/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	BESHAY DEBTAN/FRANK GUILLORY
DRAWN	ALEX MACHUCA
CIP NO.	XXXXX
GRID NO.	N/A
FILE NO.	N/A
REVISIONS	
NO.	
DATE	05/15/25
DATE	
PROJECT ENGINEER	
CITY OF MANTECA	
DEPARTMENT OF ENGINEERING	
1001 W CENTER ST	
MANTECA, CA 95337	
(209) 456-8460	
PLANS FOR THE CONSTRUCTION OF	
WAWONA STREET	
BIKE & PEDESTRIAN	
IMPROVEMENT PROJECT	
PAVEMENT DELINEATION	
AND SIGN DETAIL	
DRAWING	D-1
SHEET: 10 OF	13
SCALE	
HORZ	AS SHOWN
VERT	

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CODE **R81**



ALL DIMENSIONS ARE IN INCHES


R81 SUFFIX	SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE, SERIES & STROKE WIDTH					COR. RAD.
				LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	
-1	12x8	3/8	1/4	1 1/2	C-.24				1-1/2
-2	24x18	5/8	3/8	3C-.48					1-1/2

R81 SUFFIX	SIZE	DIMENSIONS											
		A	B	C	D	E	F	G	H	I	J	K	L
-1	12x8	1	6	7/8	5-5/8								
-2	24x18	3	12	1 1/2	13 1/2								

White BACKGROUND WITH Black BORDER & LEGEND REFLECTIVE BACKGROUND  
3/8" DIA HOLES

APPROVED: *[Signature]* 3/11/24

CODE **R81A**



ALL DIMENSIONS ARE IN INCHES

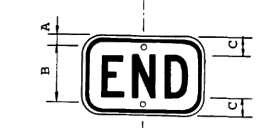
R81A SUFFIX	SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE, SERIES & STROKE WIDTH					COR. RAD.
				LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	
-1	12x5	1/4	1/4	3C-.48					1 1/2

R81A SUFFIX	SIZE	DIMENSIONS											
		A	B	C	D	E	F	G	H	I	J	K	L
-1	12x5	1	3	1									

White BACKGROUND WITH Black BORDER & LEGEND REFLECTIVE BACKGROUND  
3/8" DIA HOLES

APPROVED: *[Signature]* 3/11/24

CODE **R81B**



ALL DIMENSIONS ARE IN INCHES

R81B SUFFIX	SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE, SERIES & STROKE WIDTH					COR. RAD.
				LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	
-1	8x5	1/4	1/4	3C-.48					1 1/2

R81B SUFFIX	SIZE	DIMENSIONS											
		A	B	C	D	E	F	G	H	I	J	K	L
-1	8x5	1	3	1									

White BACKGROUND WITH Black BORDER & LEGEND REFLECTIVE BACKGROUND  
3/8" DIA HOLES

APPROVED: *[Signature]* 3/11/24



C	A	B	C	D	E	F
	18	.375	.625	5	.594	1.5
	24	.375	.625	6.688	.813	1.5
	30	.5	.75	8.5	1	1.875
	36	.625	.875	10	1.188	2.25
	48	.75	1.25	13.375	1.625	3

COLORS: SYMBOL - BLACK  
BACKGROUND - YELLOW (RETROREFLECTIVE)




Note: For use with Warning Signs for slower forms of transportation such as the Bicycle, Golf Cart, Farm Machinery, Horse Drawn Vehicle and ATV Warning Signs.


C	A	B	C	D	E	F	G	H	J	K	L
	18	24	.375	.625	3.5	4C	2.5	6.865	3.862	5.505	1.5
	24	30	.375	.625	4.25	5C	3.25	8.586	4.823	6.885	1.5

COLORS: LEGEND BLACK  
BACKGROUND YELLOW (RETROREFLECTIVE)

DATE	05/20/2025
APPROVED	SOMFORN BOONSALAT
DESIGNED	BESHAY DEMTAN / FRANK GUILLORY
DRAWN	ALEX MACHUCA
NO.	
REVISIONS	



DATE: \_\_\_\_\_  
PROJECT ENGINEER: \_\_\_\_\_





CITY OF MANTECA  
DEPARTMENT OF ENGINEERING  
1001 W CENTER ST  
MANTECA, CA 95337  
(209) 456-8460

PLANS FOR THE CONSTRUCTION OF  
**WAWONA STREET  
BIKE & PEDESTRIAN  
IMPROVEMENT PROJECT**  
PAVEMENT DELINEATION  
AND SIGN DETAIL

DRAWING	D-2
SHEET: 11 OF	13
SCALE	AS SHOWN
HORZ	
VERT	

# ROADSIDE SIGN PANEL QUANTITIES

SHEET NO.	SIGN CODE	SIGN MESSAGE/DESCRIPTION	PANEL SIZE			SINGLE FACE	BACKGROUND		LEGEND		PREMIUM GRAFFITI FLIM	Base Bid				Alternate Schedule A			
			L	D	AREA SQFT		SHEETING COLORS	RETROFLECTIVE ASTM TYPE	SHEETING COLOR	RETROFLECTIVE ASTM TYPE		ROADSIDE SIGN - ONE POST	INSTALL SIGN (SSBM)	REMOVE ROADSIDE SIGN	FURNISH SINGLE SHEET ALUMINIUM SIGN	ROADSIDE SIGN - ONE POST	INSTALL SIGN (SSBM)	FURNISH SINGLE SHEET ALUMINIUM SIGN	
															0.080" - UNFRAMED			0.080" - UNFRAMED	
			INCHES	INCHES									EA	EA	EA	SQFT	EA	EA	SQFT
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X	1				6.25			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X					3.00			
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X		1			6.25			
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X		1			6.25			
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X	1				6.25			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X					3.00			
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X	1				6.25			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X					3.00			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X		1			3.00			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X		1			3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-1	R81B(CA)	END	8	5	0.28	X	WHITE	IX	BLACK	-	X					0.28			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-1	R81A(CA)	BEGIN	12	5	0.42	X	WHITE	IX	BLACK	-	X		1			0.42			
C-1	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X			1		3.00			
C-1	R81A(CA)	BEGIN	12	5	0.42	X	WHITE	IX	BLACK	-	X					0.42			
C-1	W11-1	BICYCLE TRAFFIC	30	30	6.25	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X				1	6.25			
C-1	W16-1P	SHARE THE ROAD	18	24	3.00	X	FLUORESCENT YELLOW-GREEN	XI	BLACK	-	X				1	3.00			
C-1	D11-1	BIKE ROUTE																	
C-1	D11-1	BIKE ROUTE																	
C-1	D11-1	BIKE ROUTE																	
C-1	D11-1	BIKE ROUTE																	
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X		1			3.00			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-2	R81A(CA)	BEGIN	12	5	0.42	X	WHITE	IX	BLACK	-	X					0.42			
C-2	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X	1				3.00			
C-2	R81B(CA)	END	8	5	0.28	X	WHITE	IX	BLACK	-	X					0.28			
C-2	D11-1	BIKE ROUTE																	
C-2	D11-1	BIKE ROUTE																	
C-2	D11-1	BIKE ROUTE																	
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81B(CA)	END	8	5	0.28	X	WHITE	IX	BLACK	-	X					0.28			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
C-3	R81(CA)	BIKE LANE	24	18	3.00	X	WHITE	IX	BLACK	-	X				1	3.00			
TOTAL ALL SHEETS												11	11	7	89.64	7	2	33.9	

DATE	05/20/2025
CIP NO.	XXXXX
GRID NO.	N/A
FILE NO.	N/A
APPROVED	05/15/25
DESIGNED	BESHAY DEMYAN/FRANK GUILLORY
DRAWN	ALEX MACHUCA
NO. REVISIONS	
	
	
<b>CITY OF MANTECA</b> DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	
PLANS FOR THE CONSTRUCTION OF <b>WAWONA STREET          BIKE &amp; PEDESTRIAN          IMPROVEMENT PROJECT</b> PAVEMENT DELINEATION AND SIGN QUANTITIES	
DRAWING	Q-1
SHEET: 12 OF	13
SCALE	AS SHOWN
HORIZ	
VERT	

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**BID SET**

