



CITY OF MANTECA
DEPARTMENT OF ENGINEERING

MAIN STREET (NORTHGATE DRIVE TO ALAMEDA STREET) BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
CIP NO. 20005 HSIPL NO. 5242(035)

SEPTEMBER 2024

SUBMITTED BY:

KYLE DANA
 PROJECT ENGINEER
 MARK THOMAS

R.C.E. 95292



APPROVED BY:

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

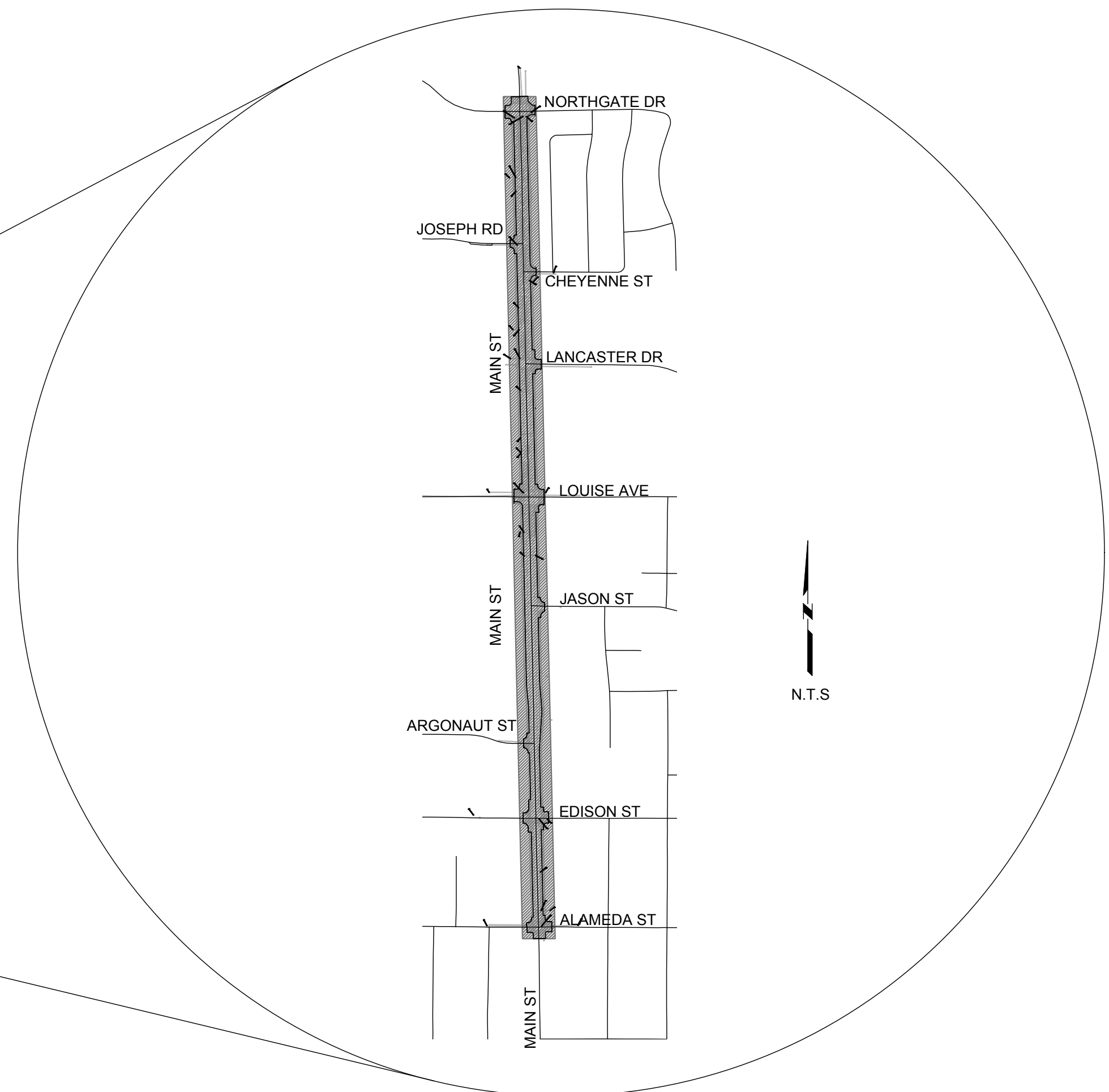
RECOMMENDED FOR APPROVAL BY:

SOMPORN BOONSALAT
 DEPUTY DIRECTOR OF ENGINEERING
 DEPARTMENT OF ENGINEERING

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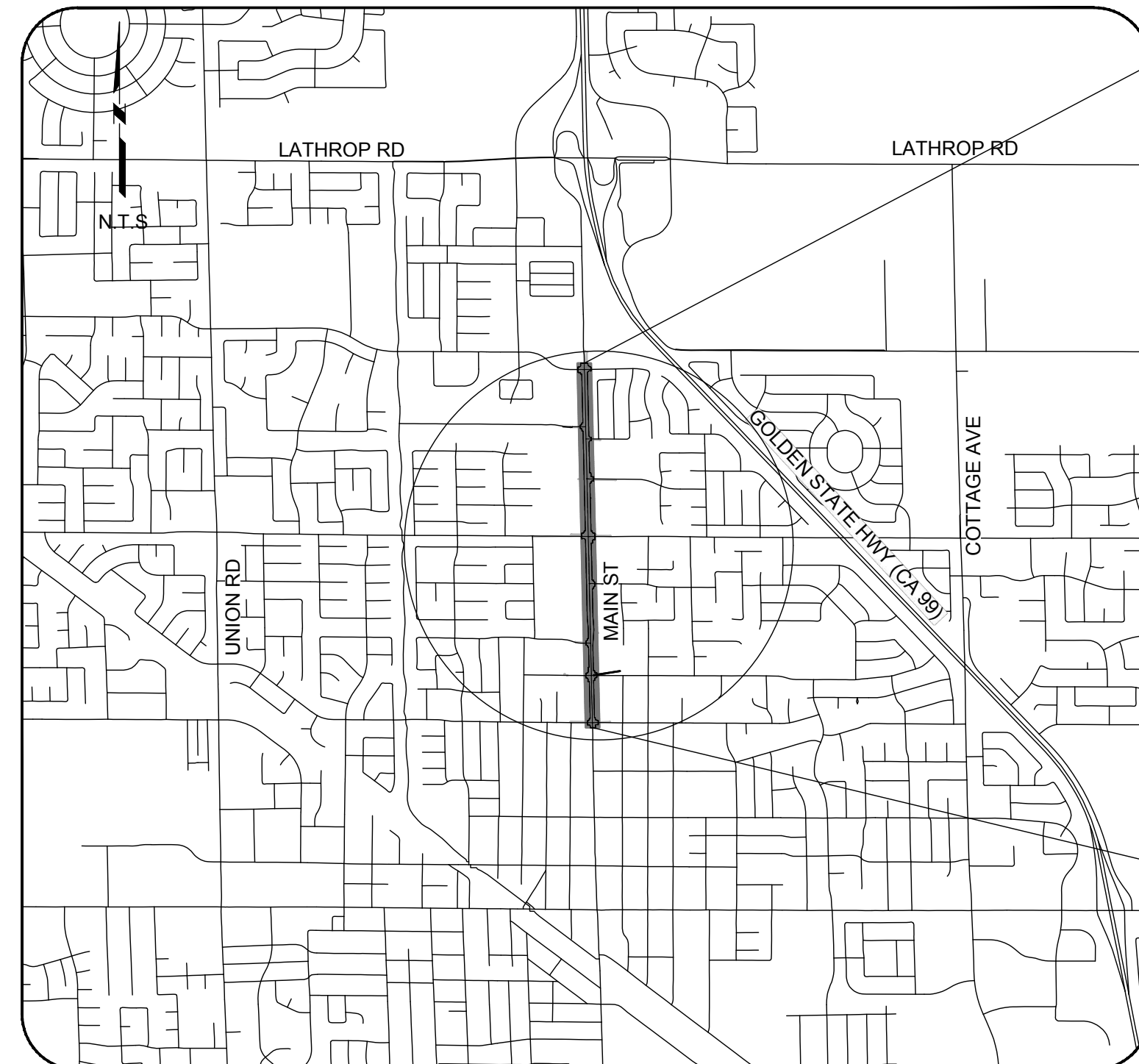
LOCATION MAP



UTILITY REPRESENTATIVES*		
UTILITY	REPRESENTATIVE	PHONE/EMAIL
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 CO.	209-468-8068
CABLE - COMCAST	SYDNIE SAELEE	SYSAELEE@SEFNCO.COM
TELEPHONE - AT&T	JIM JELLEY	209-507-1689
TELEPHONE - FRONTIER	JOSH TAJIRI	408-607-3202
TELEPHONE - WAVE	JOHNNY ACFALLE	916-672-6832
FIBER - AT&T	JIM JELLEY	209-507-1689
GAS - PG&E	HASIB HABIBI	209-401-9087
ELECTRICITY - PG&E	HASIB HABIBI	209-401-9087
WATER - SSIJID	FORREST KILINGSWORTH	209-249-4620
UNDERGROUND SERVICE ALERT		811

* LIST OF UTILITY REPRESENTATIVES MAY NOT BE COMPLETE OR ACCURATE. IT IS THE CONSULTANT/CONTRACTORS RESPONSIBILITY TO ENSURE CONTACT AND COORDINATION WITH ALL UTILITIES RELEVANT TO THE PROJECT.

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



VICINITY MAP

ABBREVIATIONS

AB	AGGREGATE BASE	SD	STORM DRAIN
AP	ANGLE POINT	SDMH	STROM DRAIN MANHOLE
BC	BEGIN CURVE	SS	SANITARY SEWER
BFC	BOTTOM FACE OF CURB	SSCO	SANITARY SEWER CLEANOUT
BOW	BACK OF WALK	SSMH	SANITARY SEWER MAHOLE
C&G	CURB AND GUTTER	STD	STANDARD
CL	CLASS	SW	SIDEWALK
CONC	CONCRETE	TC	TOP OF CURB
DI	DRAIN INLET	TP	TOP OF PAVEMENT
DWG	DRAWING	TYP	TYPICAL
DWY	DRIVEWAY	VAR	VARIABLES
EC	END CURVE	WV	WATER VALVE
EL	ELEVATION		
EP	EDGE OF PAVEMENT		
Exist	EXISTING		
FG	FINISHED GRADE		
FOC	FACE OF CURB		
FL	FLOWLINE		
GB	GRADE BREAK		
HP	HIGH POINT		
LIP	LIP OF GUTTER		
LP	LOW POINT		
LT	LEFT		
MH	MANHOLE		
NTS	NOT TO SCALE		
OG	ORIGINAL GROUND		
PCC	POINT OF COMPOUND CURVE		
PRC	POINT OF REVERSE CURVE		
RCP	REINFORCED CONCRETE PIPE		
RT	RIGHT		
RW	RIGHT OF WAY		
SAW	SAWCUT		

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 BY THE CONTRACTOR AT HIS 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 PUBLIC WORKS, BUSINESSES, AND RESIDENCES 14 DAYS AHEAD AND 48 HOURS CONFIRMATION.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AT ALL UTILITY CROSSINGS.
- 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.
- PROVIDE MINIMUM VERTICAL CLEARANCE OF 12" AT PIPELINE CROSSINGS UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM HORIZONTAL CLEARANCE OF 4' BETWEEN STORM DRAIN PIPELINES AND POTABLE WATER PIPELINES UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM HORIZONTAL CLEARANCE OF 10' BETWEEN SANITARY SEWER PIPELINES AND POTABLE WATER PIPELINES UNLESS INDICATED OTHERWISE.
- PROVIDE MINIMUM HORIZONTAL CLEARANCE OF 5' BETWEEN WATER AND SANITARY SEWER SERVICE LATERALS.
- HORIZONTAL AND VERTICAL CLEARANCES BETWEEN PIPELINES ARE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE, UNLESS INDICATED OTHERWISE.
- GENERALLY, MINIMUM SEPARATION REQUIREMENTS FROM DRY UTILITY FACILITIES SHALL BE 3 FT HORIZONTALLY AND 1 FT VERTICALLY, UNLESS SPECIFIED OTHERWISE.
- GENERALLY, MINIMUM VERTICAL SEPARATION AT CROSSINGS OF AT&T FACILITIES SHALL BE 2 FT. AT&T REPRESENTATIVE SHALL BE ONSITE DURING EXCAVATION. HAND DIGGING IS REQUIRED FOR EXCAVATIONS WITHIN 2 FT OF AT&T FACILITIES, UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL COORDINATE THIS IF/WHEN NEEDED.
- 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.
- CONTRACTOR SHALL POTHOLE TO EXPOSE ALL EXISTING PIPING/UTILITY CROSSINGS, CONNECTIONS TO EXISTING, AND POTENTIAL CONFLICT TO DEVELOP INFORMATION TO FACILITATE PIPE FABRICATION AND CONNECTIONS. EXPOSURE AND MEASURE SHALL BE ACCOMPLISHED PRIOR TO SUBMITTAL OF PIPING SHOP DRAWINGS.
- 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.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES REGARDING UTILITY AND FACILITY RELOCATIONS.
- UNDERGROUND GAS UTILITIES MAY BE PRESENT AND ARE NOT SHOWN ON THESE PLANS. CONTRACTOR MUST COORDINATE WITH THE CITY AND THE UTILITY OWNER.

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.

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, PROPERTY, AND PUBLIC; 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.
- 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.
- CONSTRUCTION SHALL BE RESTRICTED TO THE HOURS 8:00 AM TO 5:00 PM ON WEEKDAYS, 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.
- REPLACE IN-KIND ALL OWNED AND MAINTAINED CITY FACILITIES AND PRIVATE UTILITIES THAT ARE DAMAGED BY YOUR CONSTRUCTION ACTIVITIES. THIS SHALL INCLUDE, BUT NOT LIMITED TO, PAVEMENT MARKING, SIGNAGE, CURB, GUTTER, PAVEMENT, ALL TYPES OF UTILITIES, DRAINAGE, FENCING, SIDEWALKS, LIGHT SYSTEMS, TRAFFIC SIGNAL SYSTEMS, AND UNDERGROUND CONDUITS. DAMAGE TO PAVEMENT MARKING AND STRIPING SHALL INCLUDE BUT NOT LIMITED TO TRACKING OF TACK OIL AND MATERIAL USED DURING CONSTRUCTION THAT MARK, FADE OR DARKEN EXISTING STRIPING. DAMAGED PAVEMENT MARKING SHALL BE RESTORED FOR ENTIRE PAVEMENT MARKING LEGEND. DAMAGED STRIPING SHALL BE RESTORED FOR THE ENTIRE CONTINUOUS SEGMENT. ALL NEW STRIPING AND PAVEMENT MARKING MUST BE THERMOPLASTIC. THE REPAIR OR REPLACEMENT MUST BE EQUAL OR BETTER IN QUALITY THAN THE ORIGINAL PORTION. THE CITY WILL NOT COMPENSATE YOU FOR ANY REPAIR OR REPLACEMENT WORK.
- THE CITY PROJECT MANAGER SHALL BE NOTIFIED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THESE PLANS AND SPECIFICATIONS OR AT LEAST 1 WEEK, 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.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR THIS PROJECT.

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.

SEDIMENT & EROSION CONTROL PLAN

- CONTRACTOR SHALL SUBMIT A WATER POLLUTION CONTROL PLA (WPCP) 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 WPCP, 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.

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.

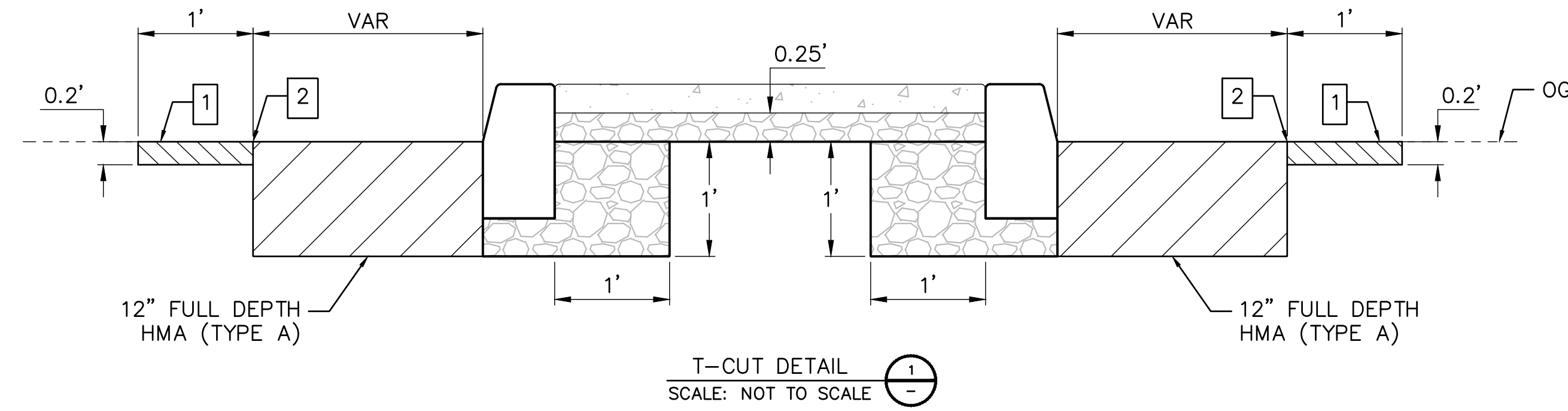
BID SET

DATE	9/13/24	APPROVED	DANIEL BLOMQUIST	DESIGNED	KYLE DANA	DRAWN	JAY YANG	FILE NO.	HSPL NO. 5242(035)	APPROVAL	DATE	
CIP NO.	20005	GRID NO.	N/A	NO.								
												
												
PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT GENERAL NOTES												
GENERAL NOTES	CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460											
DRAWING	G-2											
SHEET: 2 OF	54											
SCALE	NONE											

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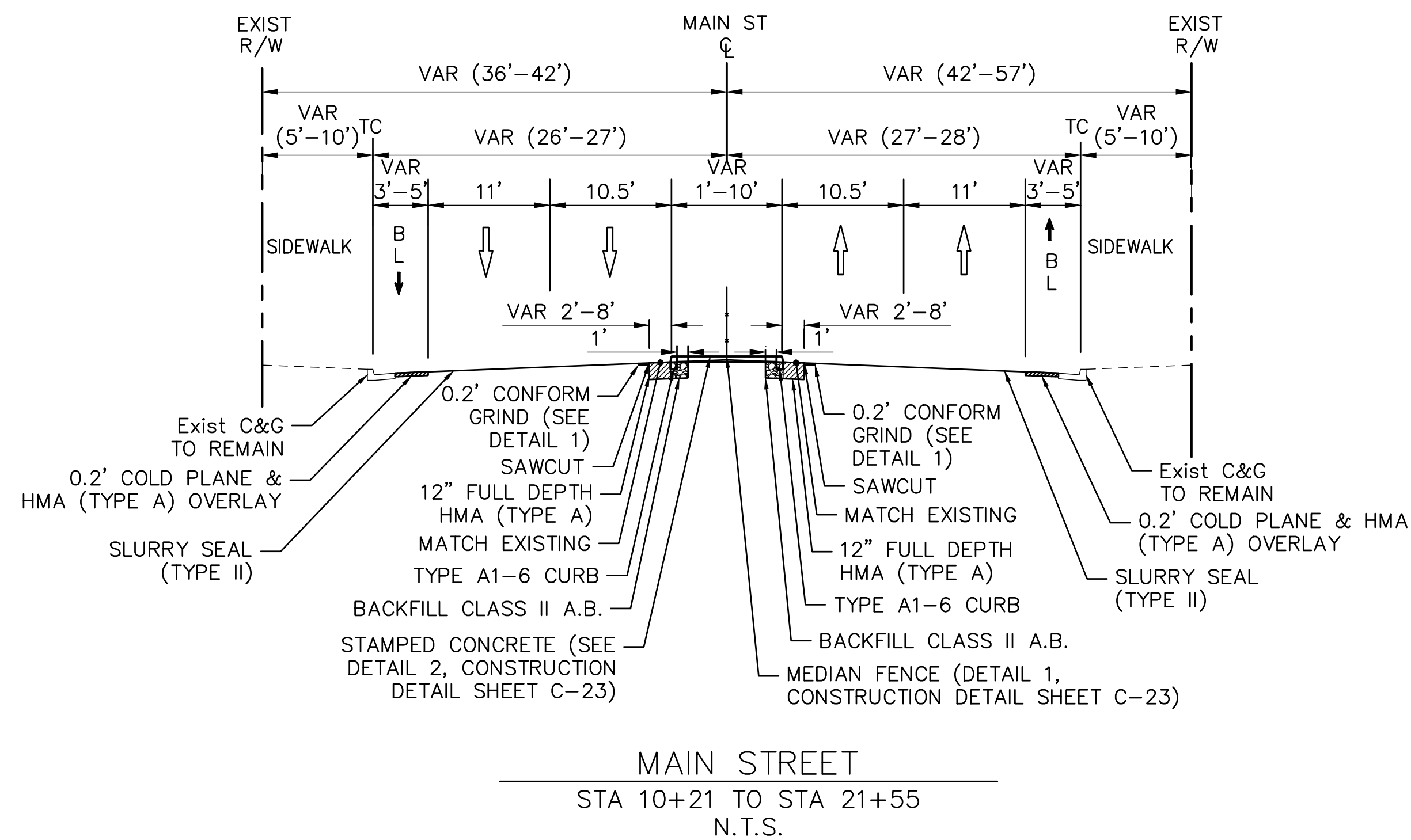
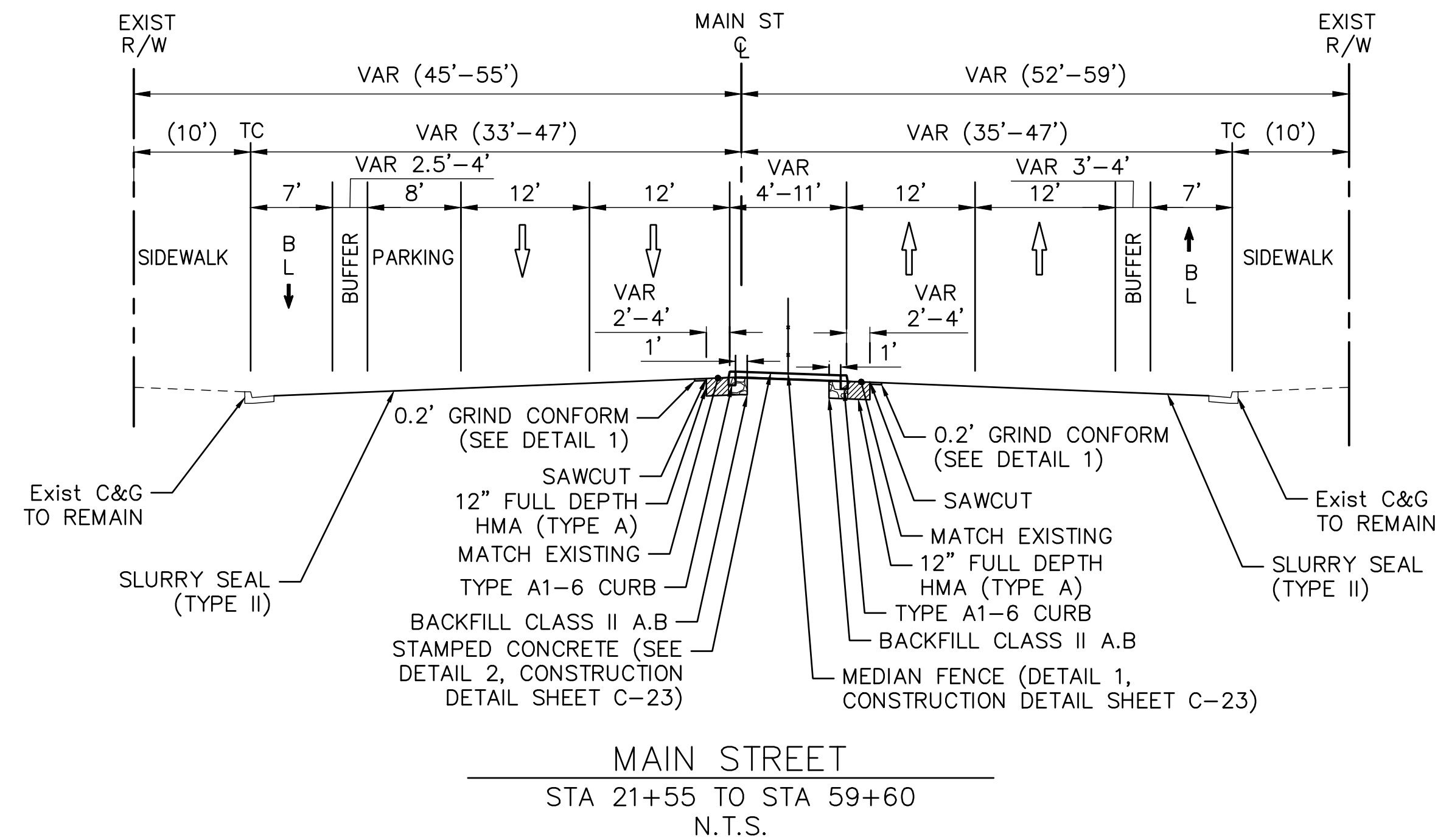
KEY NOTES

- ① DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.



CONSTRUCTION NOTES (DETAIL 1)

- 1 1' WIDE, 0.2' MIN DEEP GRIND T-CUT TO BE MADE ON EXISTING ASPHALT. PLACE TACK & NEW ASPHALT FLUSH WITH EXISTING.
- 2 SAW CUT EXISTING PAVEMENT TO PRODUCE STRAIGHT VERTICAL FACE. SEE PLANS FOR SAW CUT LOCATIONS.



BID SET

DATE	9/13/24
APPROVED BY	DANIEL BLOMQUIST
DESIGNED BY	KYLE DANA
DRAWN BY	JAY YANG
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005



PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
TYPICAL CROSS SECTIONS

TYPICAL CROSS SECTIONS	DRAWING
	G-3
SHEET: 3 OF 54	SCALE
	NONE

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LEGEND:

▲ MONUMENT/SURVEY CONTROL POINT

DATUM:

COORDINATES SHOWN ARE BASED ON THE 1992 ADJUSTMENT OF THE NORTH AMERICAN DATUM ON 1983 (NAD83), CALIFORNIA STATE PLANE ZONE 3 (CA 0403) US SURVEY FEET, BASED ON PUBLISHED VALUES AS SHOWN ON THE RECORD OF SURVEY FOR THE CITY OF MANTECA, FILED IN BOOK 33 OF SURVEYS AT PAGE 133 OFFICIAL RECORDS OF SAN JOAQUIN COUNTY.

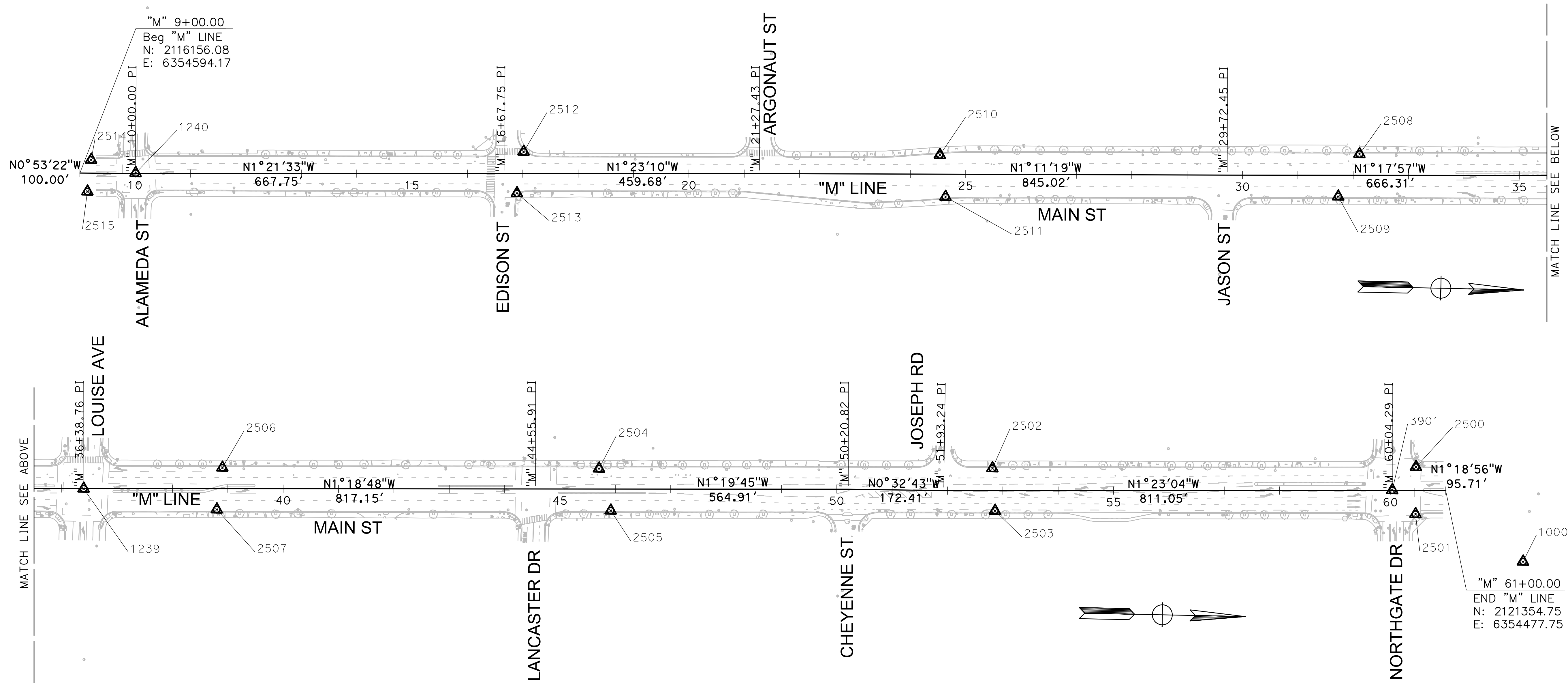
ELEVATIONS ARE BASED ON NGVD 29 DATUM, BASED ON THE PUBLISHED VALUE OF THE CITY OF MANTECA BENCHMARK NUMBER 37 HAVING A PUBLISHED ELEVATION OF 34.323.

KEY NOTES

- ① CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCING, PRESERVING, AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE DAMAGED IN PLANS.
- ② IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, CONTRACTOR SHALL REPLACE AT CONTRACTOR'S EXPENSE.
- ③ "M" LINE IS INTENDED FOR CONSTRUCTION PURPOSES AND IS NOT BASED ON RIGHT OF WAY CONTROL.

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2121497.41	6354602.74	34.24	SVCP
2500	2121299.96	6354436.58	32.66	SVCP MAG
2501	2121301.22	6354521.64	32.48	SVCP MAG
3901	2121258.22	6354479.38	33.32	SVIP-FND 3/4IN LS 8159
2502	2120535.23	6354457.23	32.14	SVCP MAG
2503	2120541.68	6354533.84	32.35	SVCP MAG
2505	2119847.80	6354550.15	33.94	SVCP MAG
2504	2119824.78	6354474.80	34.04	SVCP MAG
2506	2119144.70	6354489.56	34.67	SVCP MAG
2507	2119136.37	6354565.18	34.78	SVCP MAG

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1239	2118895.08	6354533.45	34.27	SVIR 5/8IN NO TAG
2508	2118465.91	6354504.57	33.08	SVCP MAG
2509	2118429.33	6354582.12	33.00	SVCP MAG
2510	2117708.21	6354524.31	35.24	SVCP MAG
2511	2117720.22	6354599.67	34.81	SVCP MAG
2512	2116956.45	6354536.72	35.38	SVCP MAG
2513	2116946.12	6354611.72	34.67	SVCP MAG
1240	2116256.70	6354591.88	33.86	SVIR 3/4IN NOTAG
2514	2116175.84	6354569.78	33.61	SVCP MAG
2515	2116170.47	6354627.27	33.62	SVCX-SET



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95892
 Exp. 12/31/25
 CIVIL
 REGISTERED
 STATE OF CALIFORNIA

9/13/24
 DATE
 PROJECT ENGINEER

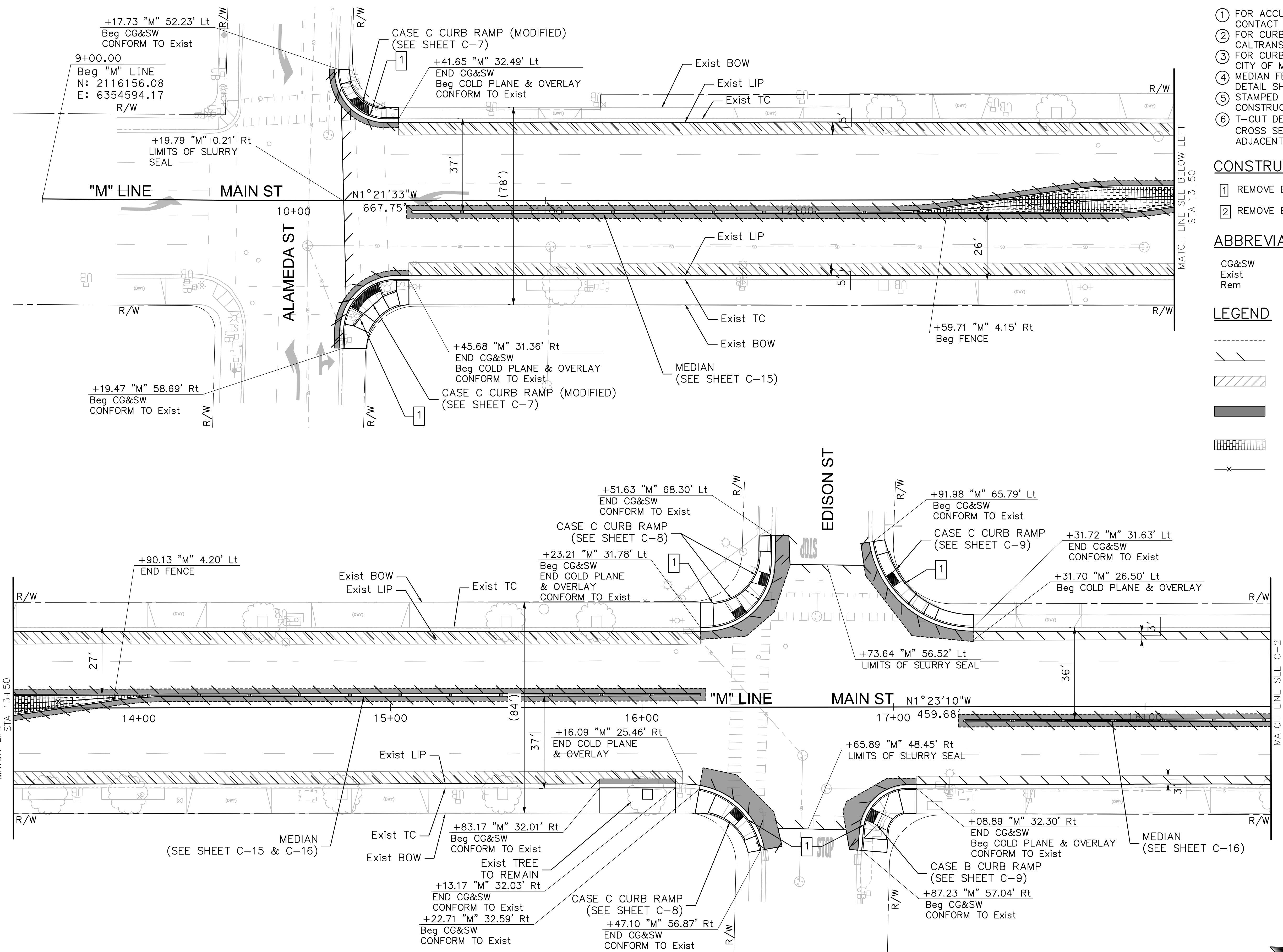
CITY OF MANTECA
 DEPARTMENT OF ENGINEERING
 1001 W CENTER ST
 MANTECA, CA 95337
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 PROJECT CONTROL

PROJECT CONTROL
DRAWING
G-4
OF 54
SCALE
1" = 100'

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\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-02-C-01-C-06.dwg Sep 09, 2024 - 2:53pm



KEY NOTES

- ① FOR ACCURATE CITY RIGHT OF WAY DATA, CONTACT CITY OF MANTECA
- ② FOR CURB RAMP INFORMATION, SEE CALTRANS STD PLAN A88A
- ③ FOR CURB & GUTTER AND SIDEWALK, SEE CITY OF MANTECA STD DWG ST-7.
- ④ MEDIAN FENCE PER DETAIL 1, CONSTRUCTION DETAIL SHEET C-25
- ⑤ STAMPED CONCRETE PER DETAIL 2, CONSTRUCTION DETAIL SHEET C-23
- ⑥ T-CUT DETAIL (SEE DETAIL 1, TYPICAL CROSS SECTIONS SHEET C-3) TO BE USED ADJACENT TO ALL SAWCUTS

CONSTRUCTION NOTES

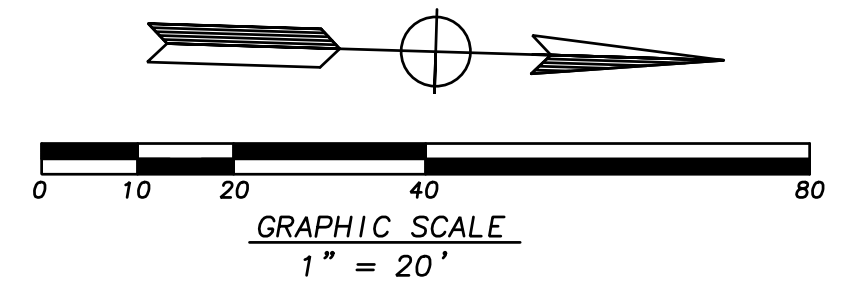
- 1 REMOVE Exist CURB, GUTTER, AND SIDEWALK.
- 2 REMOVE Exist MEDIAN.

ABBREVIATIONS

CG&SW	CURB, GUTTER, & SIDEWALK
Exist	EXISTING
Rem	REMOVE

LEGEND

	SAWCUT
	LIMITS OF SLURRY SEAL (TYPE II)
	2" COLD PLANE & OVERLAY
	REMOVE AND CONSTRUCT NEW PAVEMENT SURFACE (12" FULL DEPTH TYPE A HMA)
	STAMPED CONCRETE (SEE DETAIL 2, CONSTRUCTION DETAIL SHEET C-23)
	MEDIAN FENCE (SEE DETAIL 1, CONSTRUCTION DETAIL SHEET C-23)



BID SET

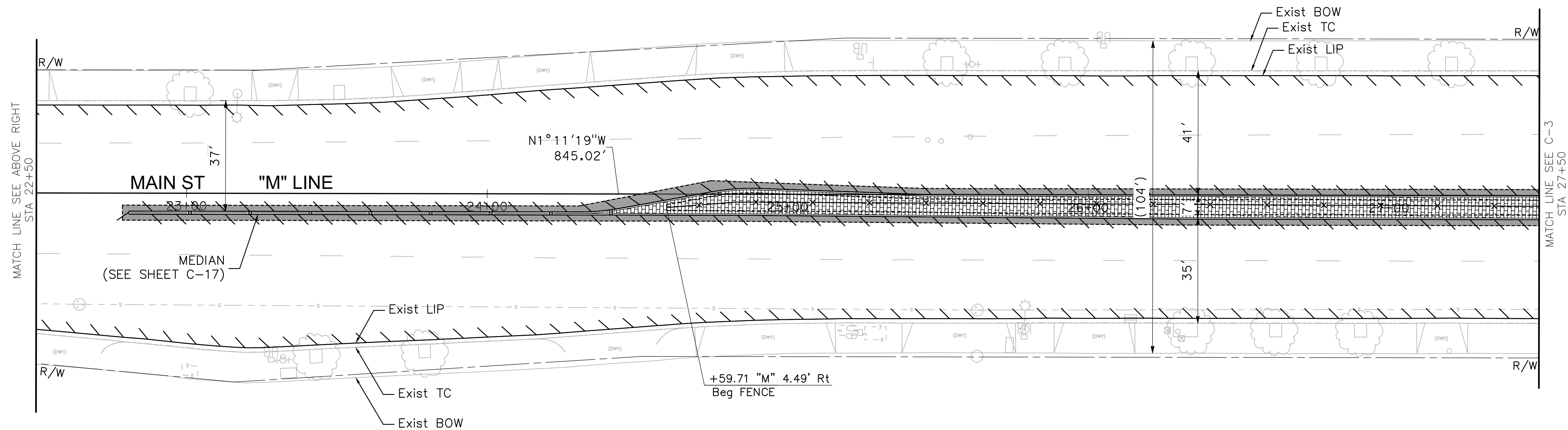
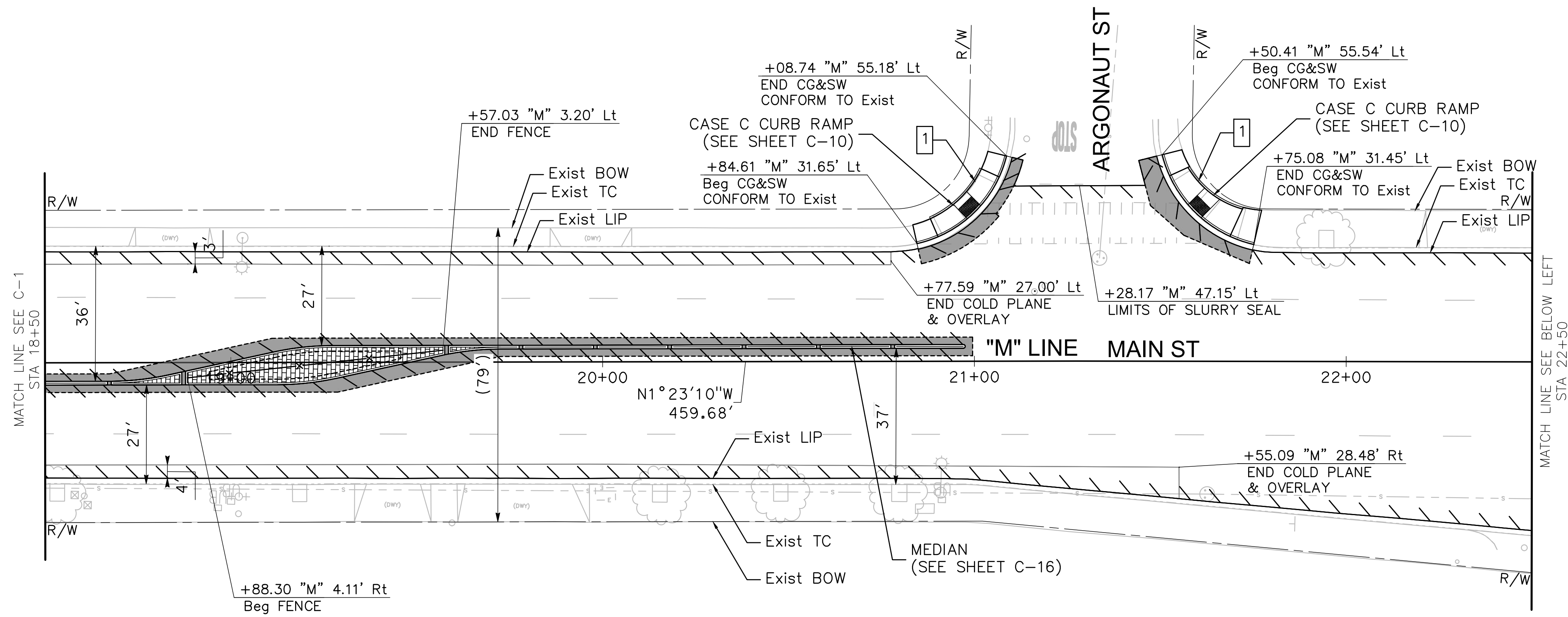
DATE	9/13/24
DESIGNED	DANIEL BLOMQUIST
DRAWN	JAY YANG
APPROVED	KYLE DANA
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005
REVISIONS	
NO.	
BY	
DATE	

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 LAYOUT PLAN
 STA 9+00 TO 18+50

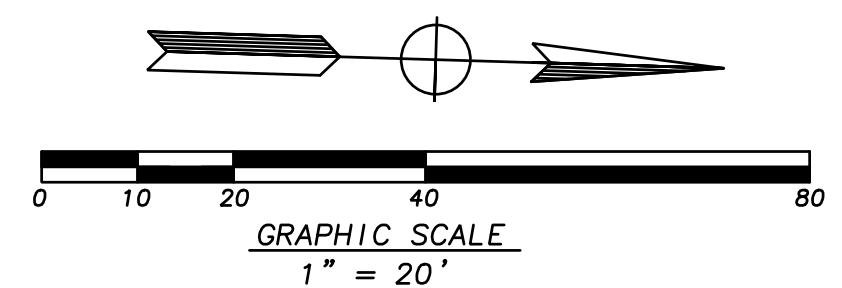
LAYOUT PLAN
DRAWING
C-1
SHEET: 5 OF 54
SCALE
AS SHOWN

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KEY NOTES

① SEE SHEET C-1 FOR NOTES, LEGEND, AND ABBREVIATIONS



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005

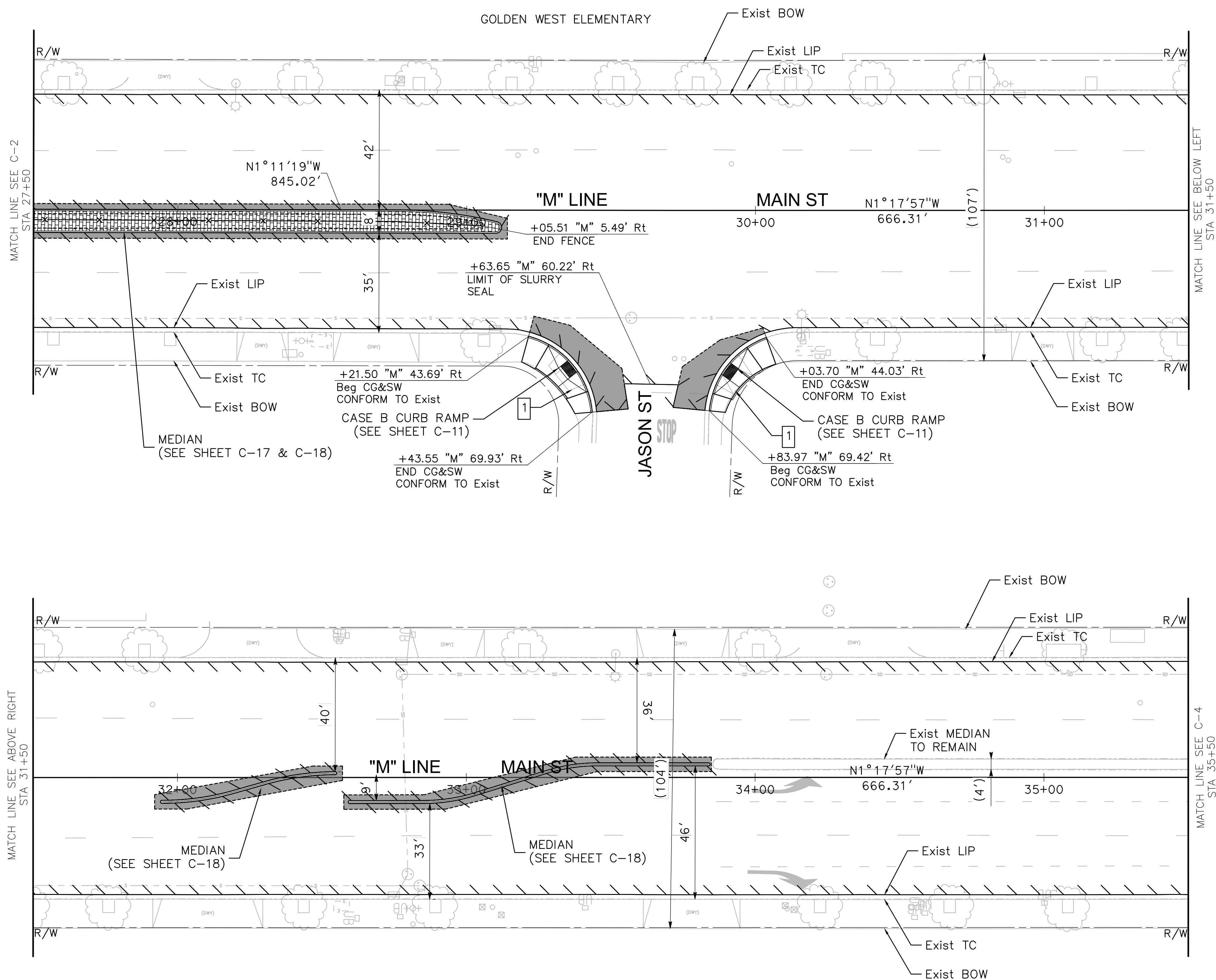
PROJECT ENGINEER
 DATE: 9/13/24

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 LAYOUT PLAN
 STA 18+50 TO 27+50

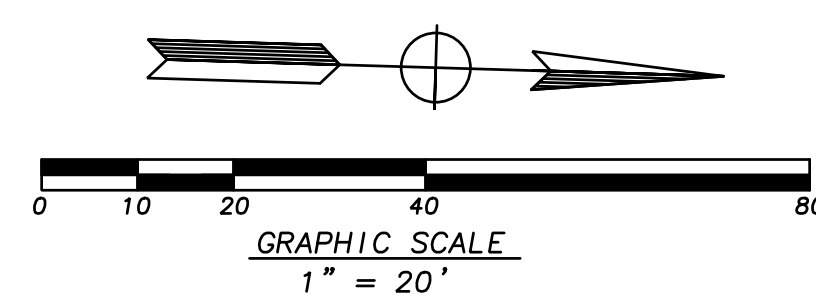
LAYOUT PLAN
 DRAWING
 C-2 OF 54
 SCALE
 AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-02-C-01-C-06.dwg Sep 09, 2024 - 2:53pm



KEY NOTES

① SEE SHEET C-1 FOR NOTES, LEGEND, AND ABBREVIATIONS



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
FILE NO.	HSPL NO. 5242(035)
NO.	
REVISIONS	
BY	
DATE	

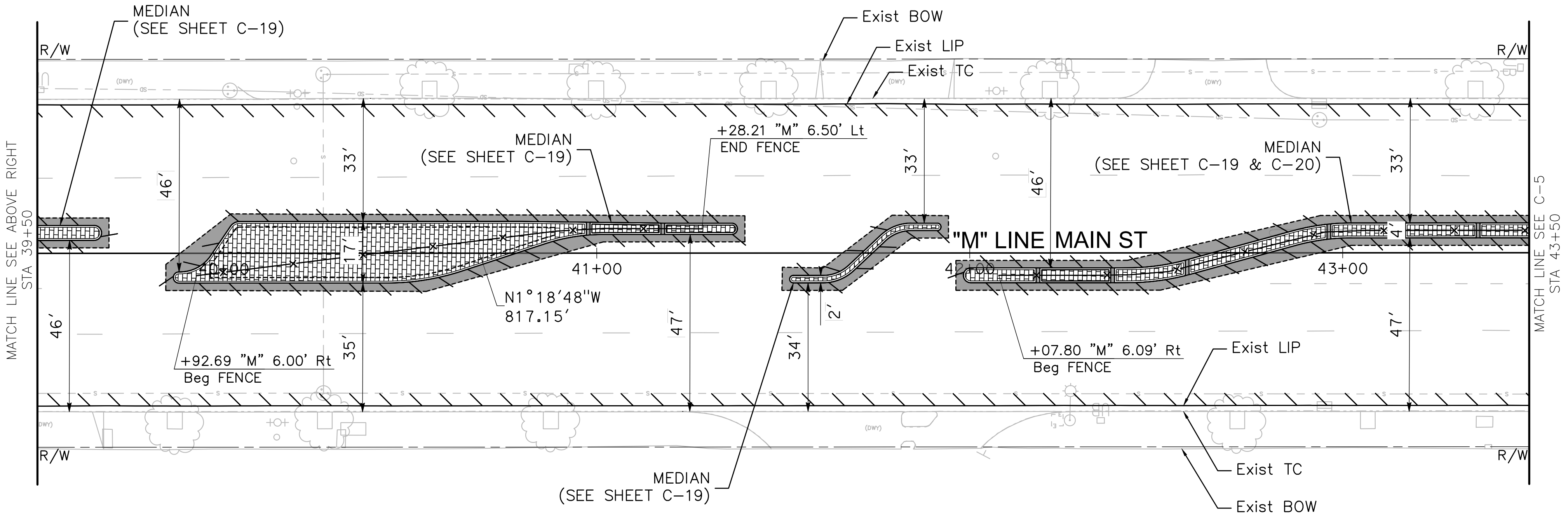
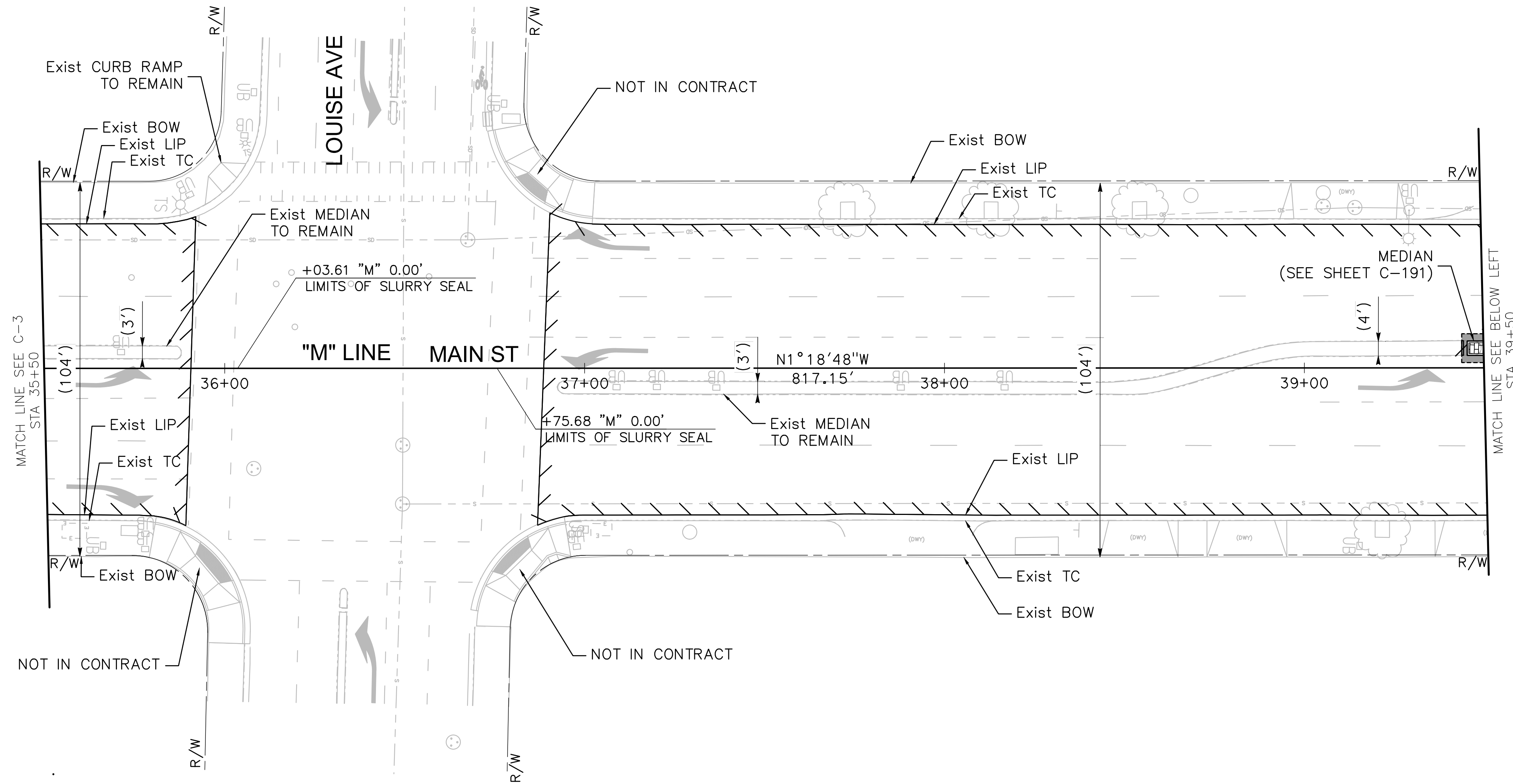
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95992
 Exp. 12/31/25
 CIVIL
 9/13/24
 DATE
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 LAYOUT PLAN
 STA 27+50 TO 35+50

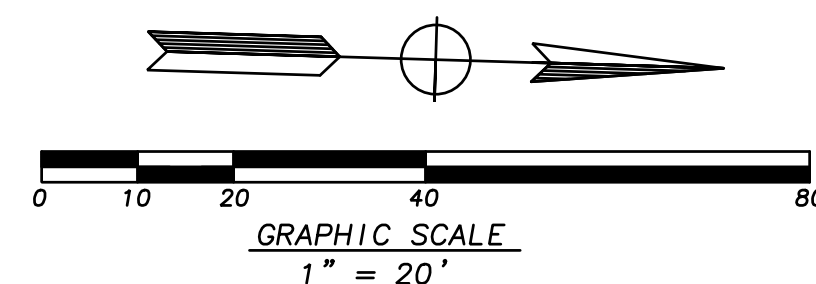
LAYOUT PLAN
 DRAWING
 C-3
 SHEET: 7 OF 54
 SCALE
 AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\WMS-02-C-01-C-06.dwg Sep 09, 2024 - 2:53pm


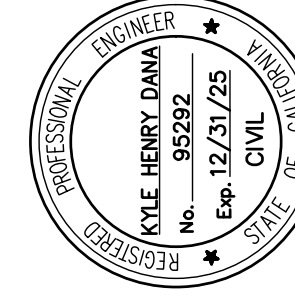


KEY NOTES

- ① SEE SHEET C-1 FOR NOTES, LEGEND, AND ABBREVIATIONS

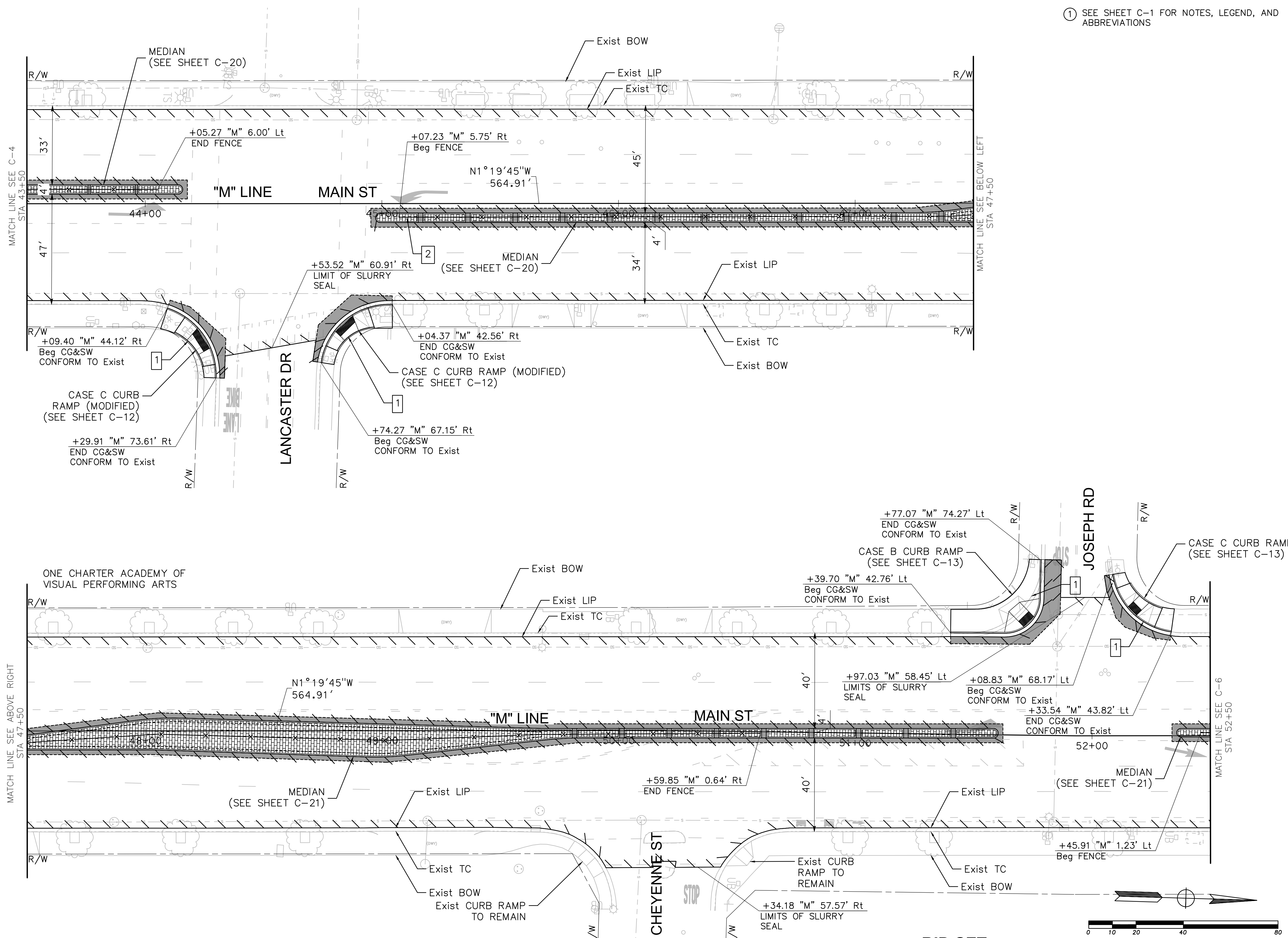


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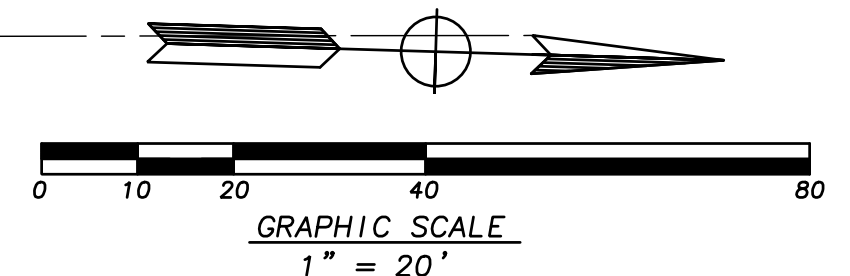
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			 PROJECT ENGINEER DATE: 9/13/24	APPROVED: DANIEL BLOMQUIST DATE: 9/13/24 DESIGNED: KYLE DANA DRAWN: JAY YANG FILE NO.: HSPL NO. 5242(035) GRID NO.: N/A CIP NO.: 20005 DATE: 9/13/24	


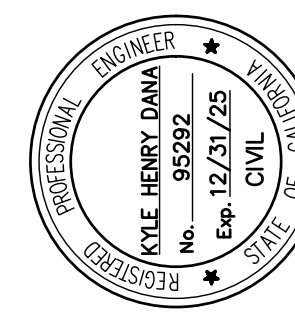
KEY NOTES

① SEE SHEET C-1 FOR NOTES, LEGEND, AND ABBREVIATIONS



BID SET



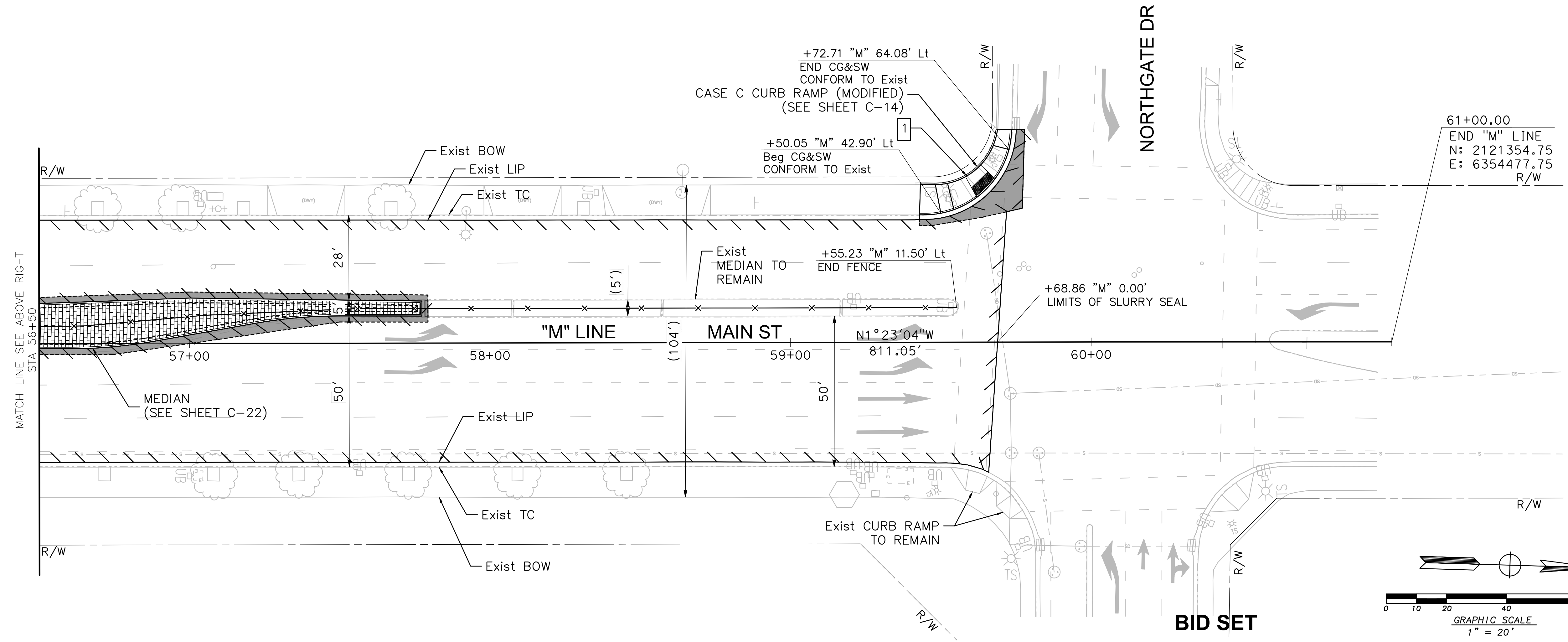
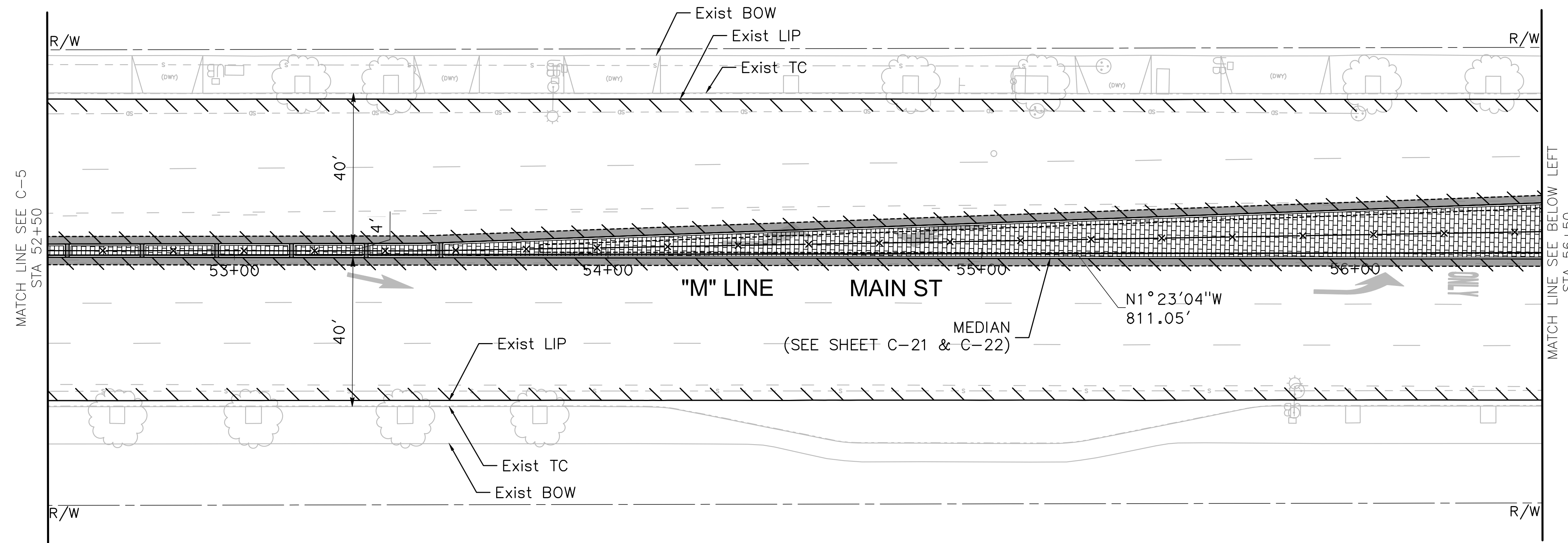
LAYOUT PLAN	DRAWING	C-5	OF	54	SCALE	AS SHOWN	PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT LAYOUT PLAN STA 43+50 TO 52+50	 CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	 PROFESSIONAL ENGINEER KYLE DANA No. 95892 Exp. 12/31/25 CIVIL	APPROVED	DANIEL BLOMQUIST	DATE	9/13/24
										DESIGNED	KYLE DANA	CIP NO.	20005
										DRAWN	JAY YANG	GRID NO.	N/A
										NO.	REVISIONS	FILE NO.	HSPIL NO. 5242(035)
										BY		APPROVAL	DATE

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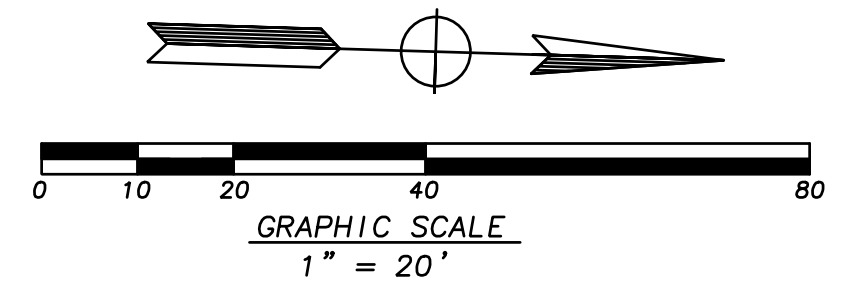
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KEY NOTES

① SEE SHEET C-1 FOR NOTES, LEGEND, AND ABBREVIATIONS



BID SET



APPROVED	DATE	9/13/24
DESIGNED	CIP NO.	20005
DRAWN	GRID NO.	N/A
NO.	FILE NO.	HSPIL NO. 5242(035)
REVISIONS		
BY	DATE	

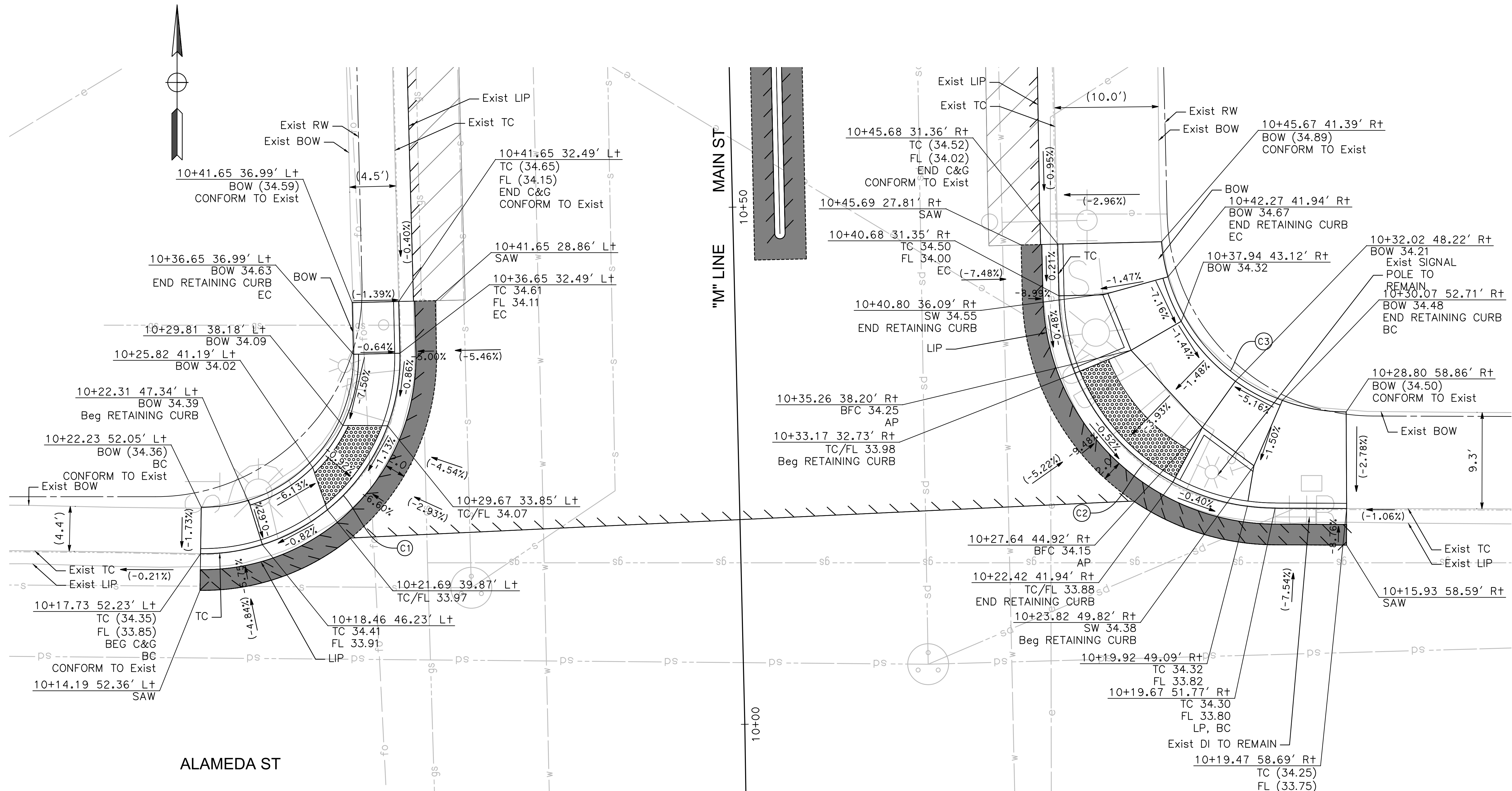
PROFESSIONAL ENGINEER
KYLE HENRY DANA
 No. 95892
 Exp. 12/31/25
 CIVIL
 REGISTERED
 STATE OF CALIFORNIA
 9/13/24
 DATE
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 LAYOUT PLAN
 STA 52+50 TO 61+50

LAYOUT PLAN
 DRAWING
 C-6
 SHEET: 10 OF 54
 SCALE
 AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-07-C-10.dwg Sep 09, 2024 - 2:54pm



ALAMEDA ST

"M" LINE

MAIN ST

- KEY NOTES**
- ① FOR ACCURATE CITY RIGHT OF WAY DATA, CONTACT CITY OF MANTECA
 - ② FOR CURB RAMP INFORMATION, SEE CALTRANS STD PLAN A88A
 - ③ FOR CURB AND GUTTER, SEE CITY OF MANTECA STD DWG ST-7.

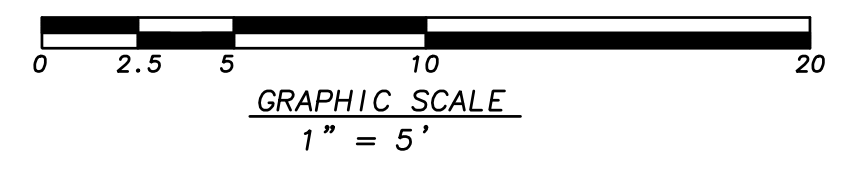
ABBREVIATIONS

CG&SW CURB, GUTTER, & SIDEWALK
 Exist EXISTING
 Rem REMOVE
 BFC BOTTOM FACE OF CURB

- LEGEND**
- SAWCUT
 - ▨ LIMITS OF SLURRY SEAL (TYPE II)
 - ▨ 2" COLD PLANE & OVERLAY
 - ▨ REMOVE AND CONSTRUCT NEW PAVEMENT SURFACE (12" FULL DEPTH TYPE A HMA)
 - ▨ MEDIAN HARDSCAPE (SEE DETAIL 2, TYPICAL CROSS SECTION SHEETS)
 - x- FENCE

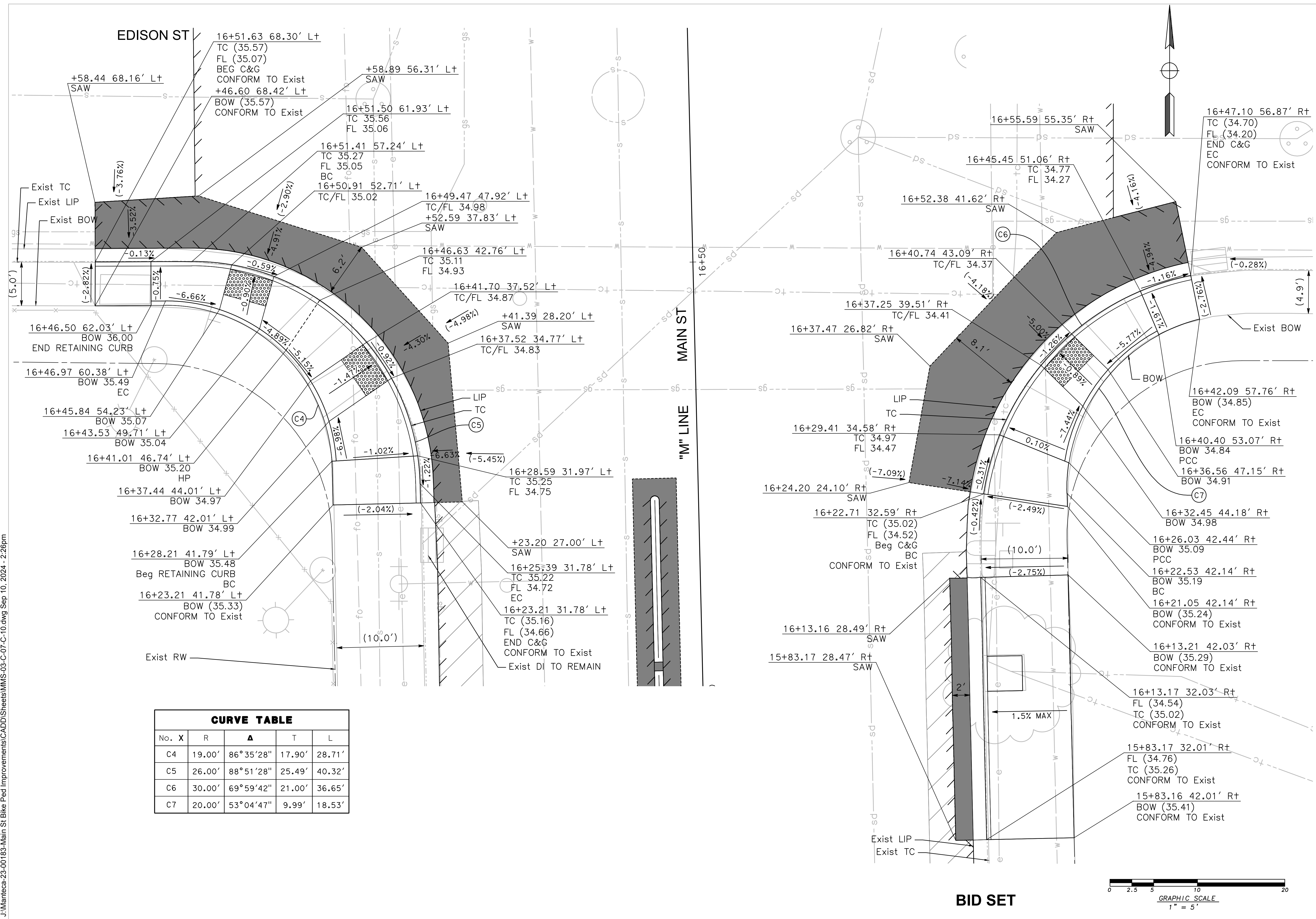
CURVE TABLE				
No. X	R	Δ	T	L
C1	19.00'	92°00'36"	19.68'	30.51'
C2	21.00'	88°28'22"	20.45'	32.43'
C3	18.00'	53°46'28"	9.13'	16.89'

BID SET



			<p>DATE: 9/13/24 CIP NO.: 20005 GRID NO.: N/A FILE NO.: HSPL NO. 5242(035)</p>
<p>APPROVED: DANIEL BLOMQUIST DESIGNED: KYLE DANA DRAWN: JAY YANG</p>		<p>DATE: 9/13/24 PROJECT ENGINEER</p>	
<p>CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460</p>			
<p>PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT CONSTRUCTION DETAILS</p>			
<p>CONSTRUCTION DETAILS</p>		<p>DRAWING C-7 SHEET: 11 OF 54 SCALE AS SHOWN</p>	

J:\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-07-C-10.dwg Sep 10, 2024 - 2:26pm



CURVE TABLE				
No.	X	R	Δ	L
C4	19.00'	86°35'28"	17.90'	28.71'
C5	26.00'	88°51'28"	25.49'	40.32'
C6	30.00'	69°59'42"	21.00'	36.65'
C7	20.00'	53°04'47"	9.99'	18.53'

DATE	9/13/24
DESIGNED	DANIEL BLOMQUIST
DRAWN	JAY YANG
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSIPL NO. 5242(035)
APPROVAL	
BY	
DATE	

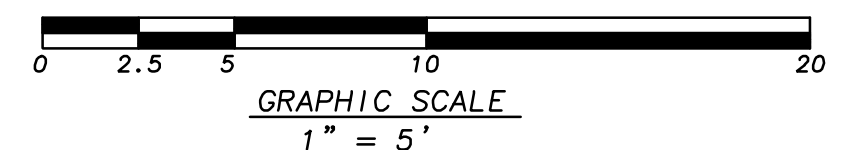
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 59892
 Exp. 12/31/29
 CIVIL
 STATE OF CALIFORNIA

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

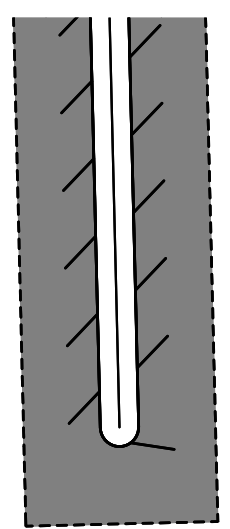
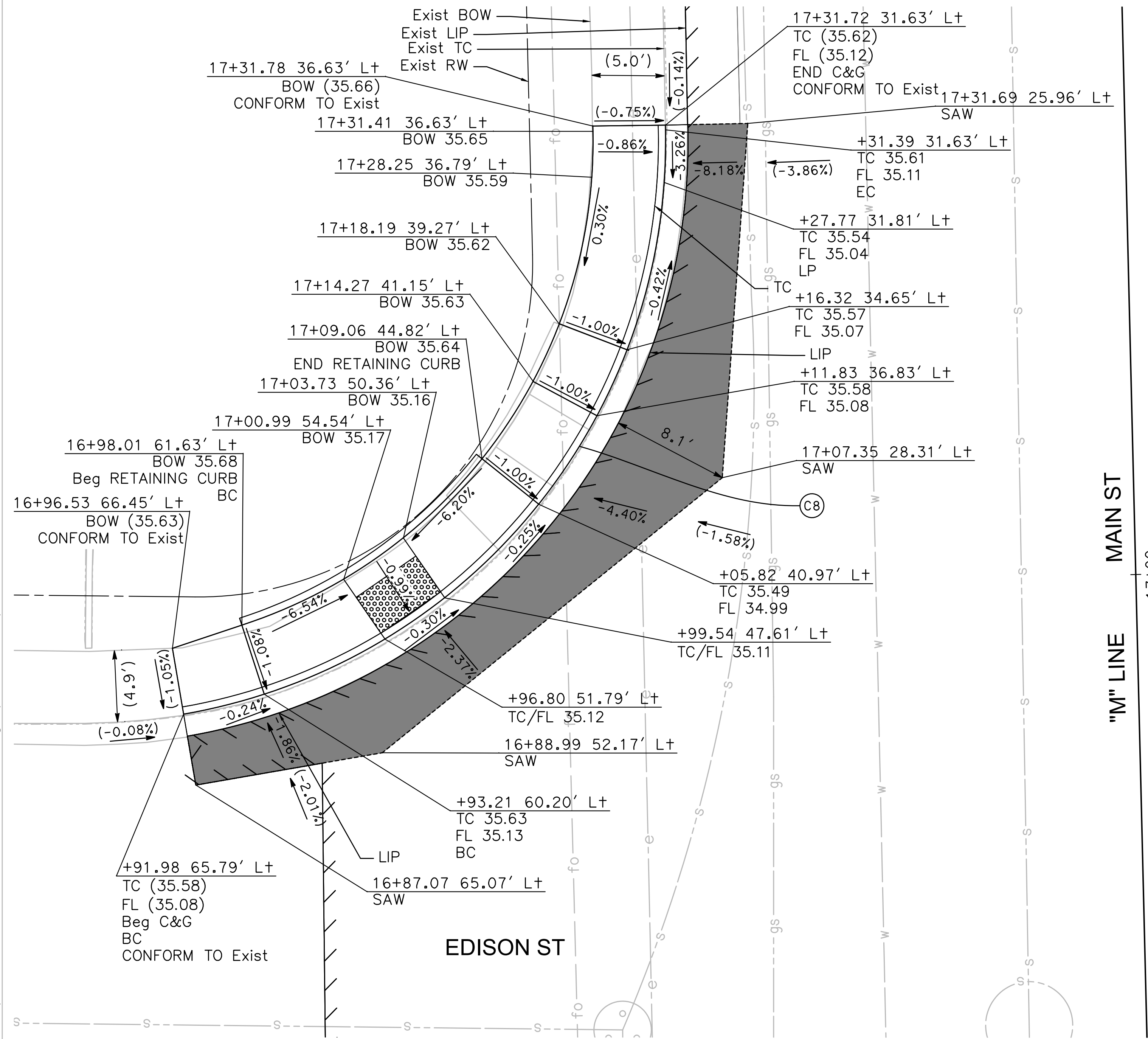
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS	DRAWING	C-8	SHEET: 12 OF 54	SCALE	AS SHOWN
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BID SET

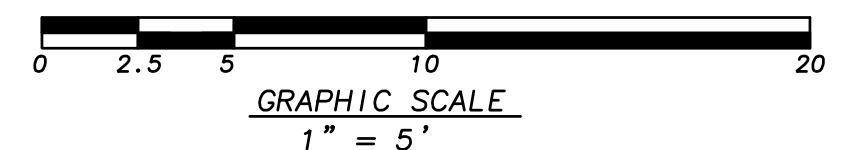
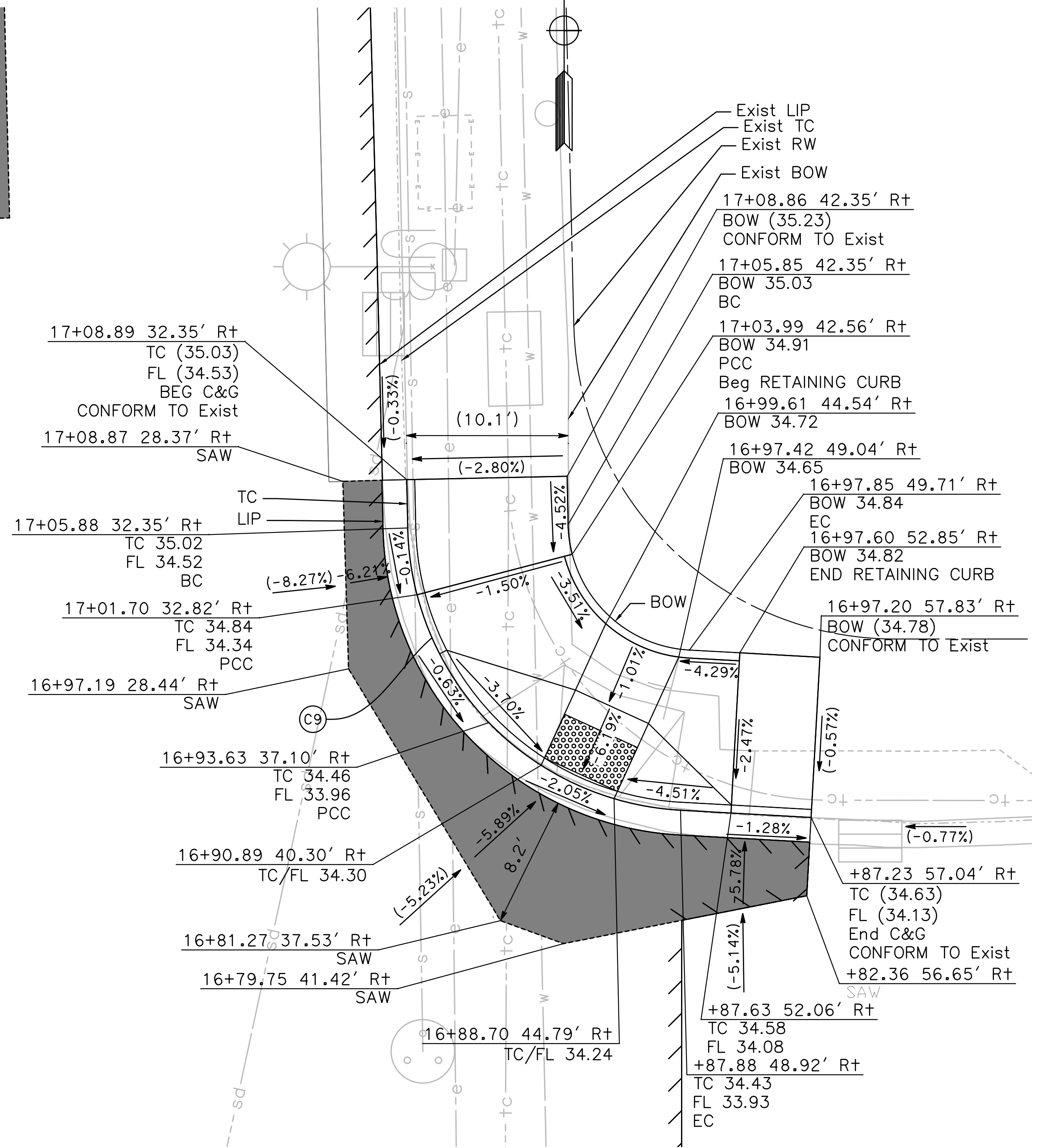


\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-07-C-10.dwg Sep 09, 2024 - 2:55pm



"M" LINE MAIN ST

CURVE TABLE				
No. X	R	Δ	T	L
C8	40.00'	81°22'13"	34.39'	56.81'
C9	18.00'	29°24'09"	4.72'	9.24'



BID SET

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
 DRAWING
 C-9
 SHEET: 13 OF 54
 SCALE
 AS SHOWN

DATE: 9/13/24
 CIP NO.: 20005
 GRID NO.: N/A
 FILE NO.: HSPL NO. 5242(035)

APPROVED: DANIEL BLOMQUIST
 DESIGNED: KYLE DANA
 DRAWN: JAY YANG

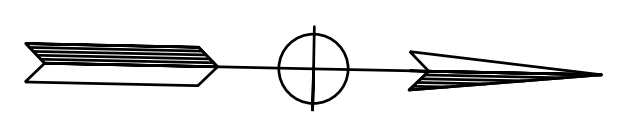
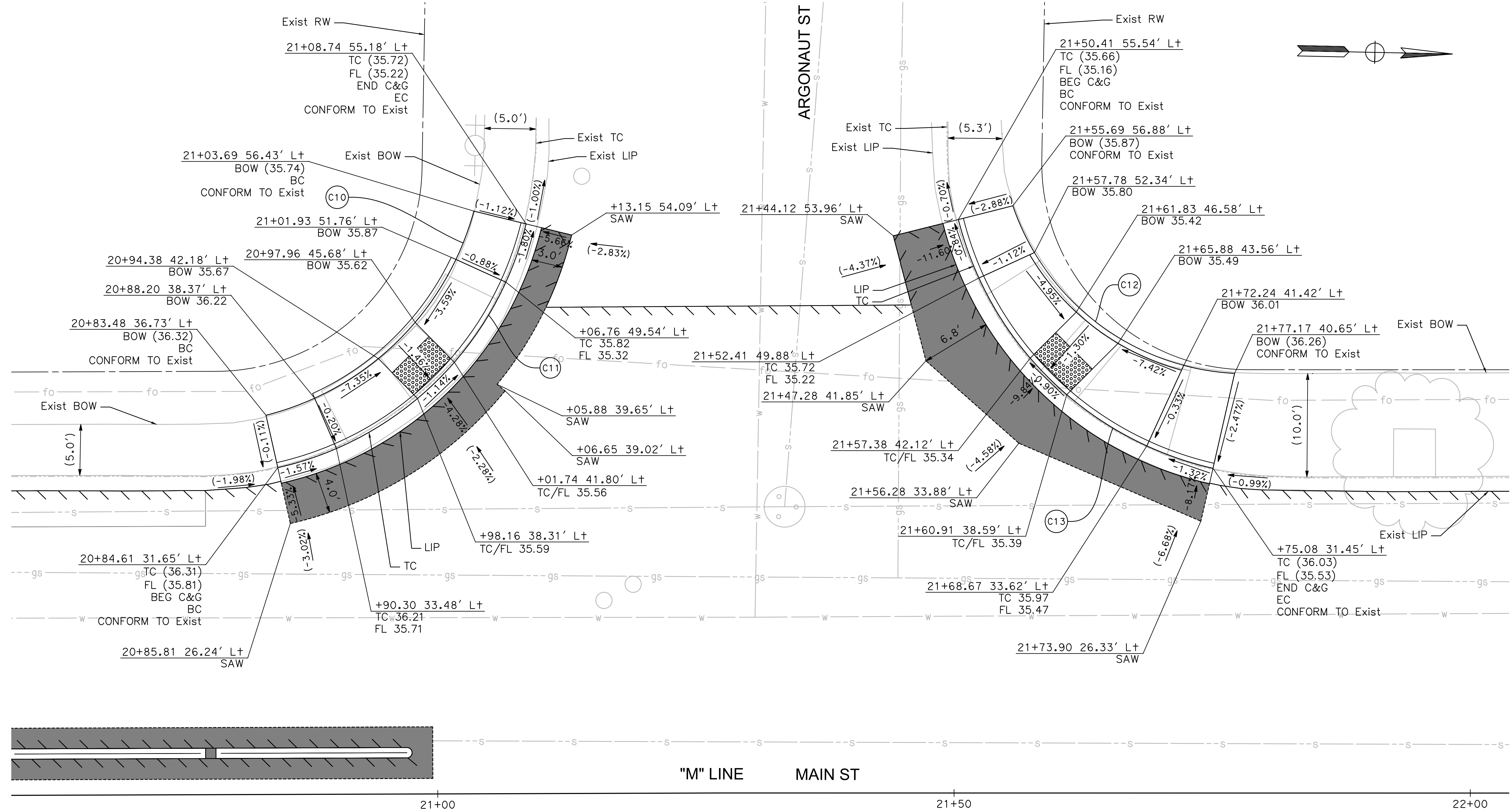
REVISIONS

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 55292
 Exp. 12/31/25
 REGISTERED CIVIL ENGINEER OF CALIFORNIA

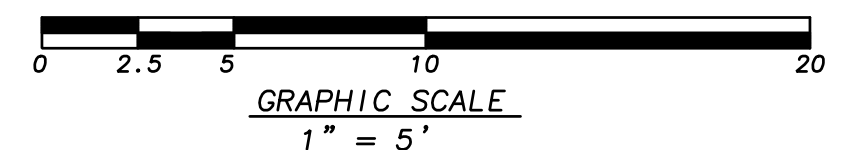
DATE: 9/13/24
 PROJECT ENGINEER

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

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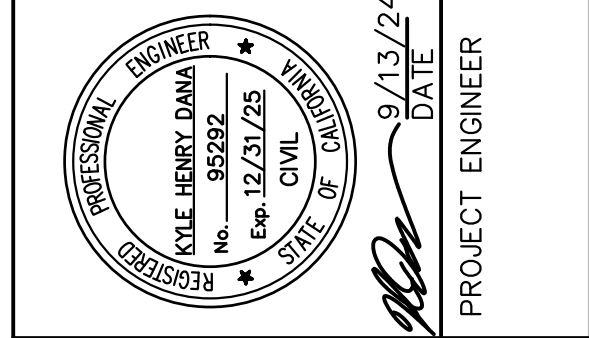


CURVE TABLE				
No. X	R	Δ	T	L
C10	28.00'	60° 31' 29"	16.34'	29.58'
C11	32.00'	63° 32' 44"	19.82'	35.49'
C12	24.00'	44° 22' 00"	9.79'	18.58'
C13	33.00'	62° 59' 22"	20.22'	36.28'



BID SET

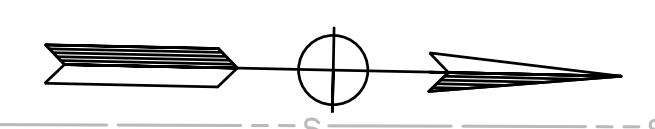
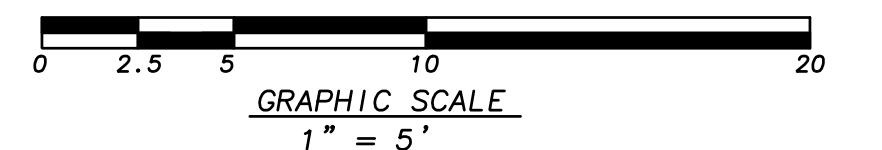
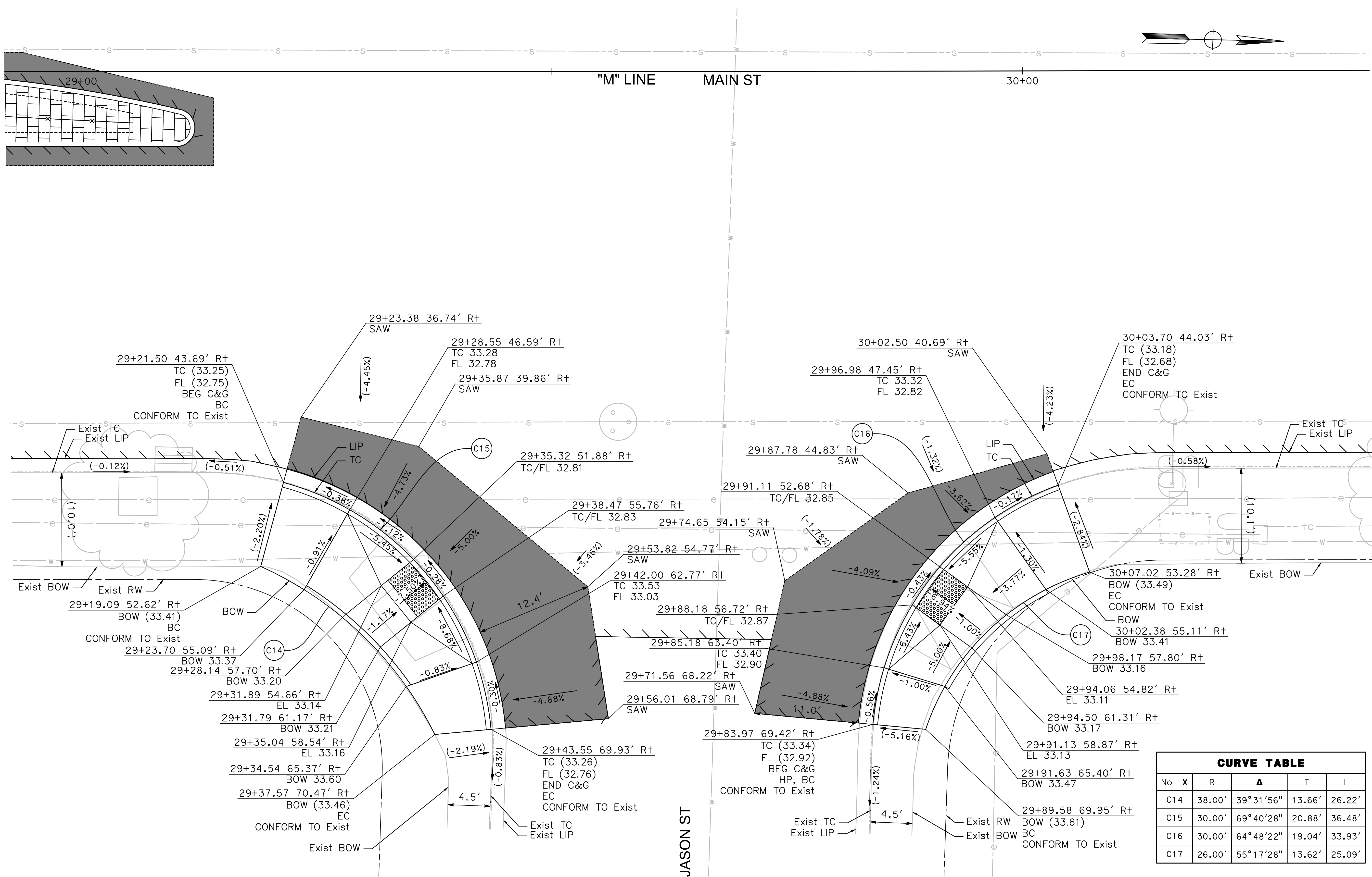
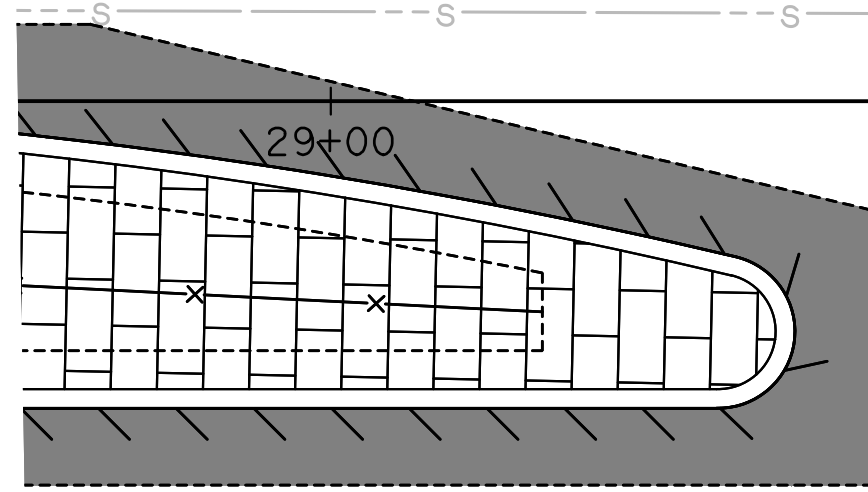
DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005



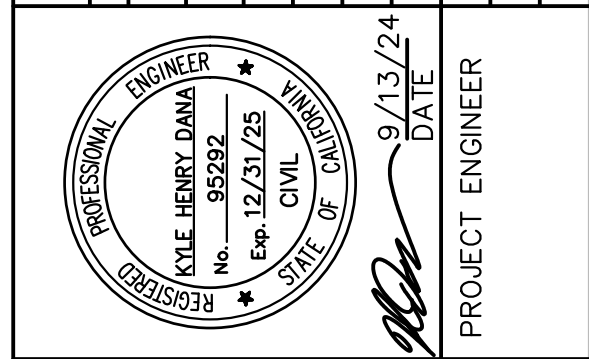
CITY OF MANTECA
 DEPARTMENT OF ENGINEERING
 1001 W CENTER ST
 MANTECA, CA 95337
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
 DRAWING
 C-10
 SHEET: 14 OF 54
 SCALE
 AS SHOWN



DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
DATE	9/13/24
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
REVISIONS	



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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

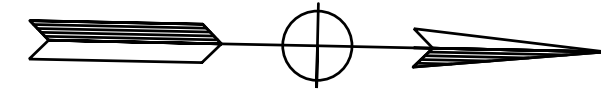
CONSTRUCTION DETAILS
 DRAWING
 C-11
 SHEET: 15 OF 54
 SCALE
 AS SHOWN

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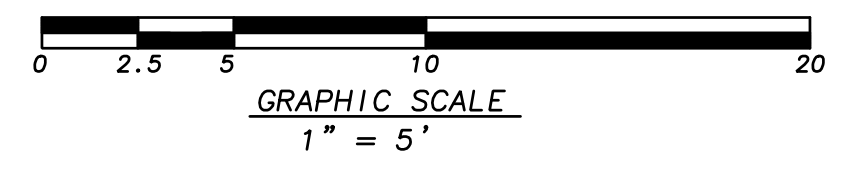
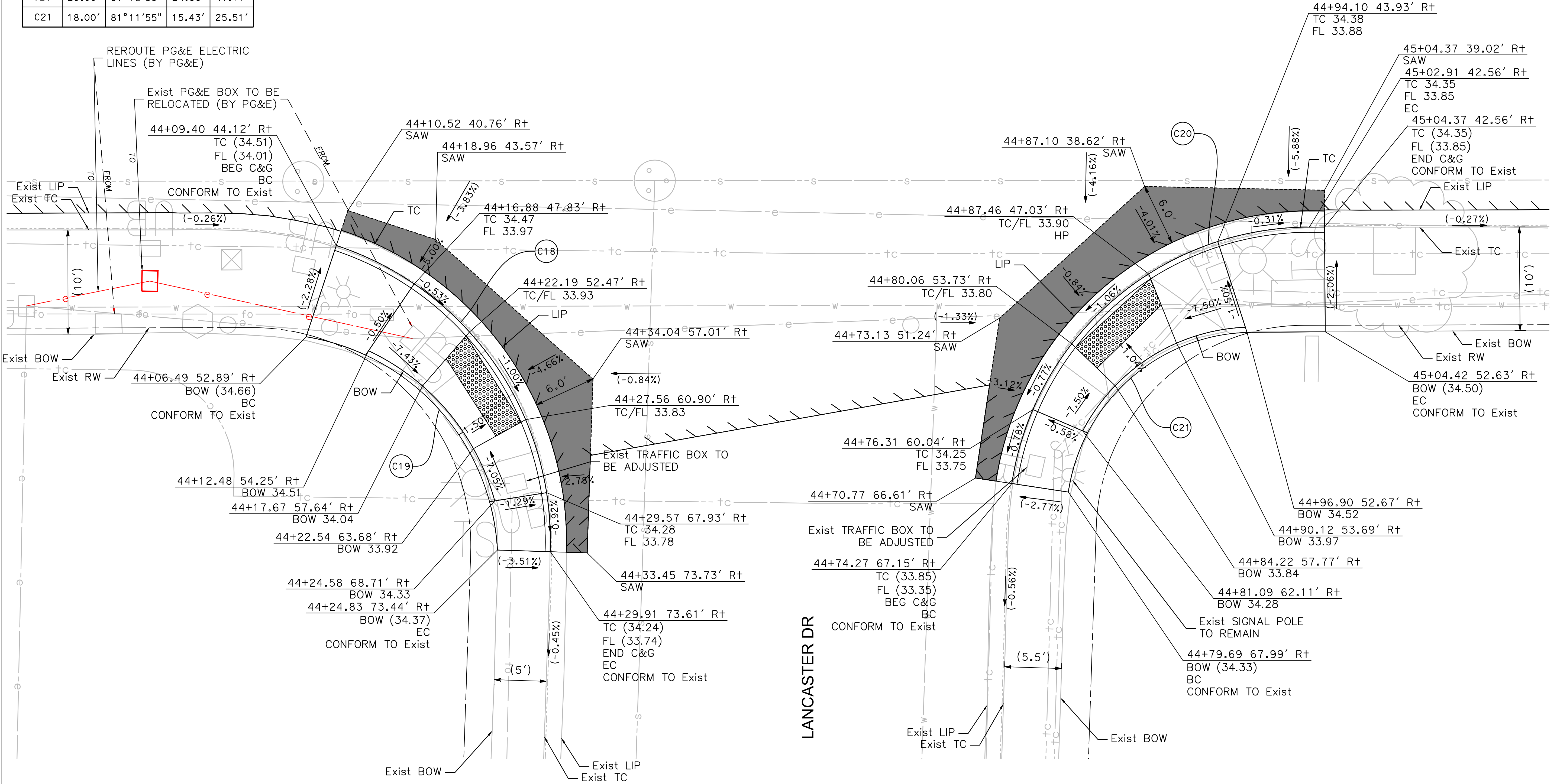
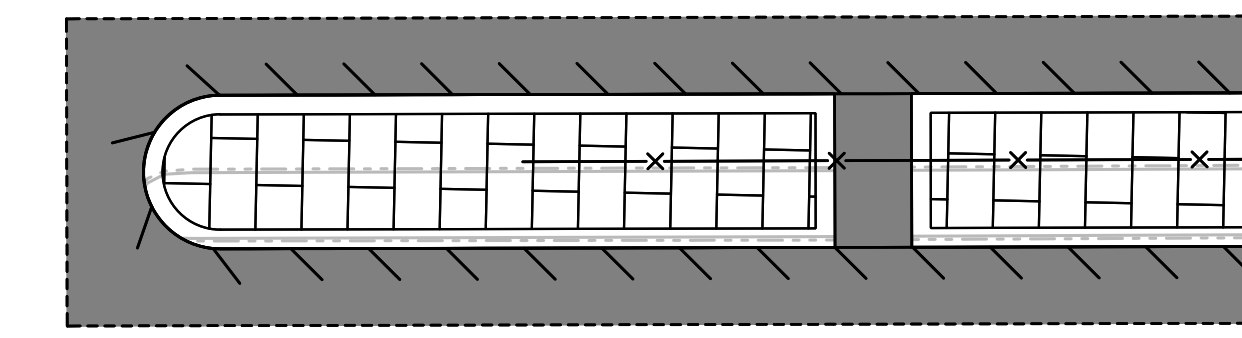
"M" LINE MAIN ST

44+00

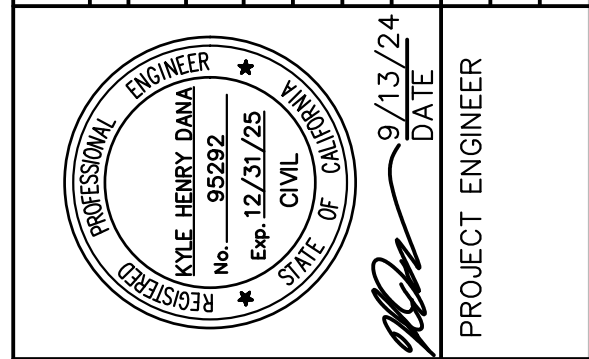
45+00



CURVE TABLE				
No. X	R	Δ	T	L
C18	30.00'	73°32'32"	22.42'	38.51'
C19	22.00'	77°31'01"	17.66'	29.76'
C20	29.00'	81°12'59"	24.86'	41.11'
C21	18.00'	81°11'55"	15.43'	25.51'



DATE	9/13/24
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	REVISIONS



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

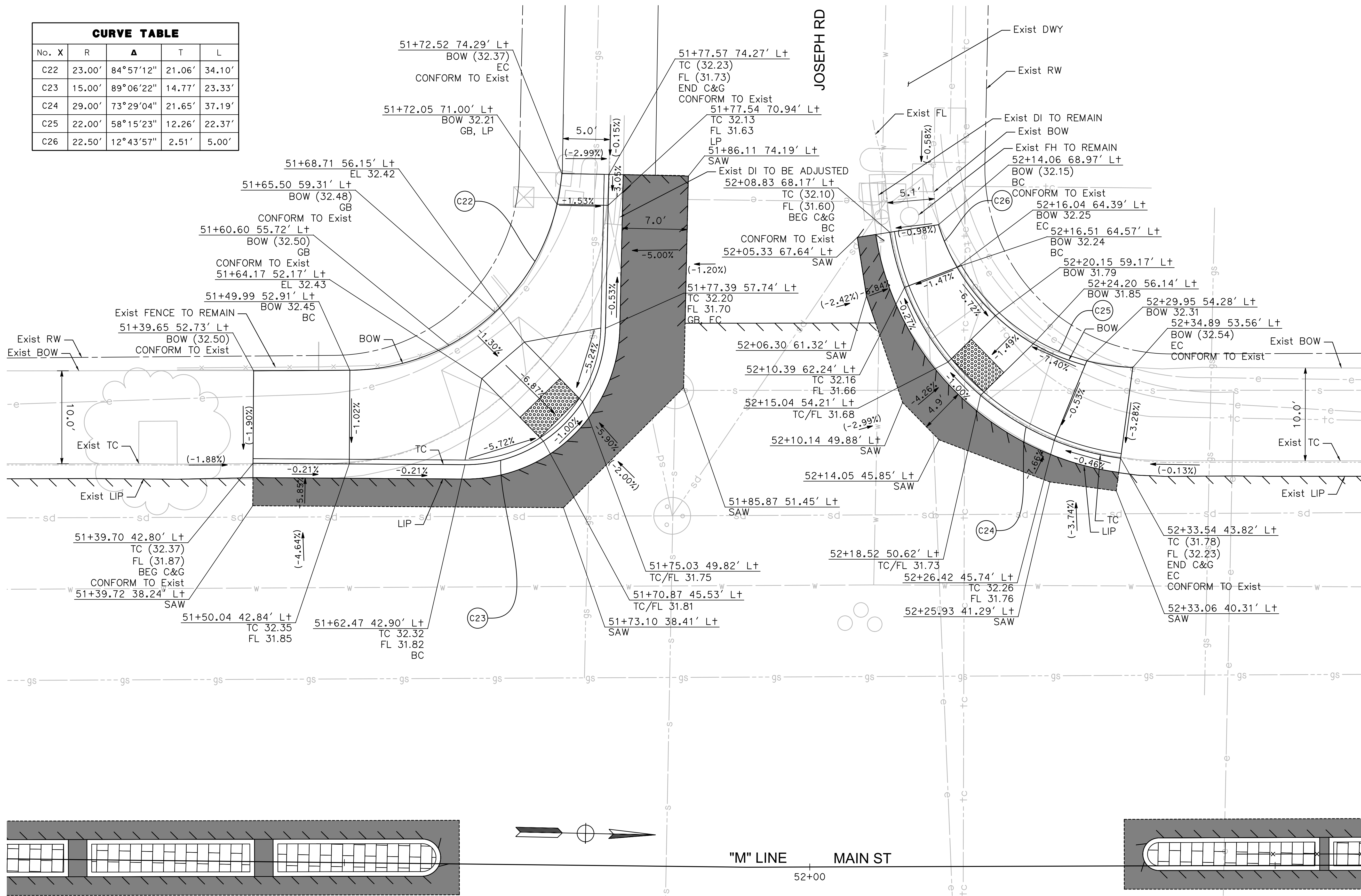
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
DRAWING
C-12
SHEET: 16 OF 54
SCALE AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183>Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-11-C-14.dwg Sep 09, 2024 - 2:55pm

CURVE TABLE

No.	X	R	Δ	T	L
C22	23.00'	84°57'12"	21.06'	34.10'	
C23	15.00'	89°06'22"	14.77'	23.33'	
C24	29.00'	73°29'04"	21.65'	37.19'	
C25	22.00'	58°15'23"	12.26'	22.37'	
C26	22.50'	12°43'57"	2.51'	5.00'	



DATE	9/13/24
DESIGNED	DANIEL BLOMQUIST
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
DRAWN	JAY YANG
REVISIONS	
NO.	

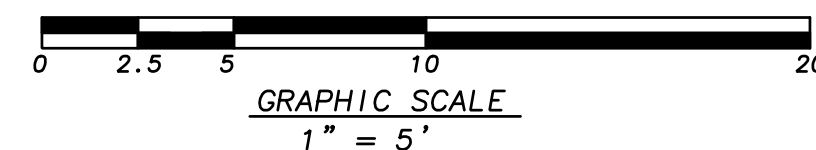
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 55292
 Exp. 12/31/25
 CIVIL
 STATE OF CALIFORNIA

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

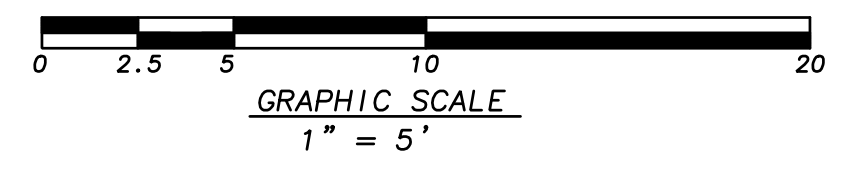
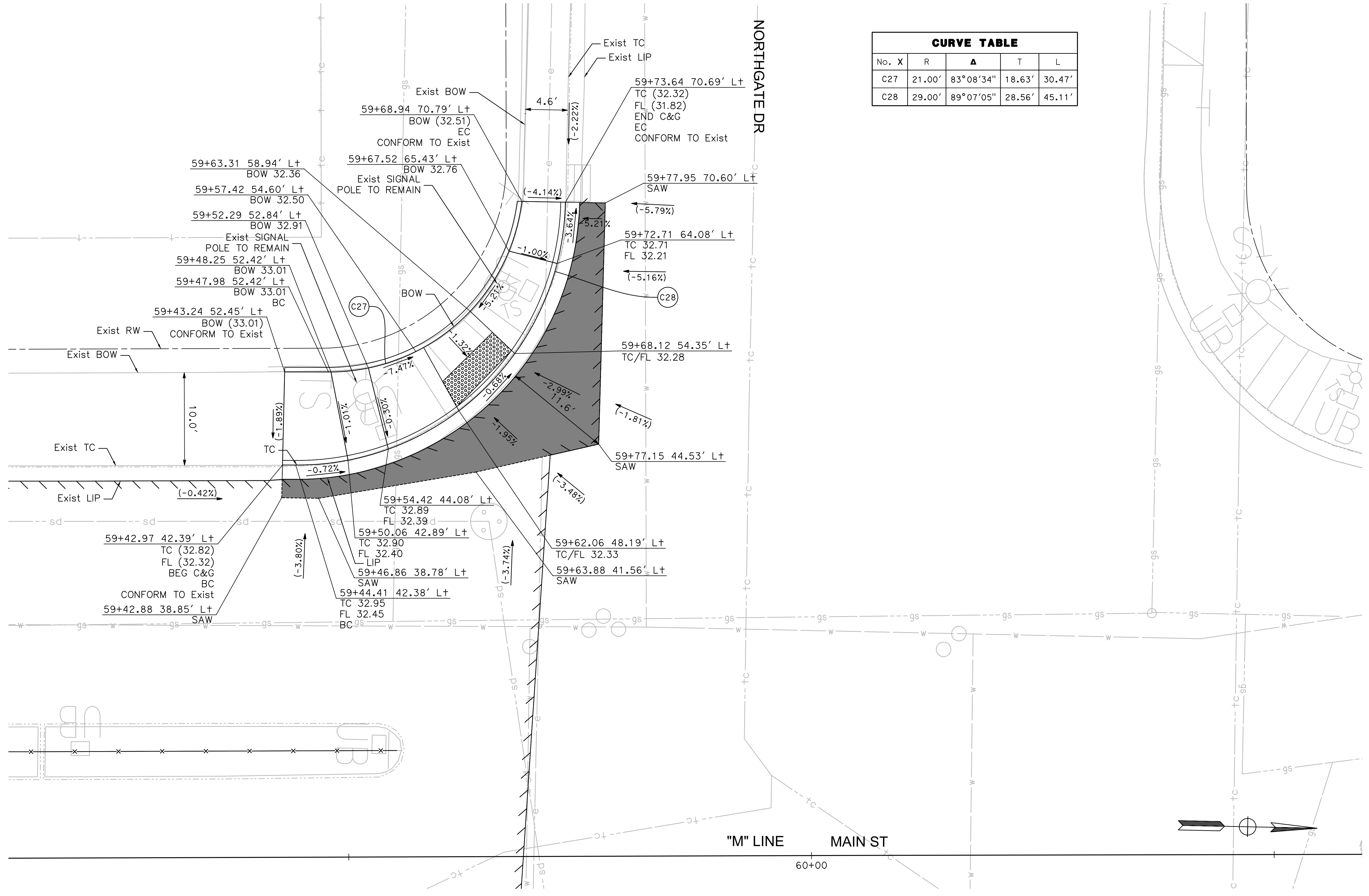
CONSTRUCTION DETAILS
DRAWING
C-13
SHEET: 17 OF 54
SCALE
AS SHOWN

BID SET



\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-15-C-16.dwg Sep 09, 2024 - 2:56pm

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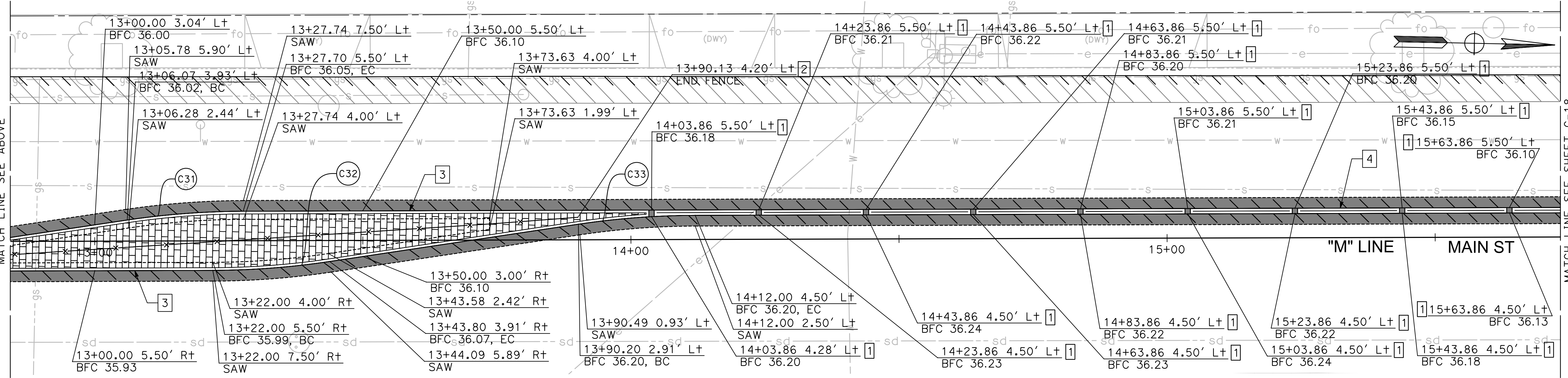
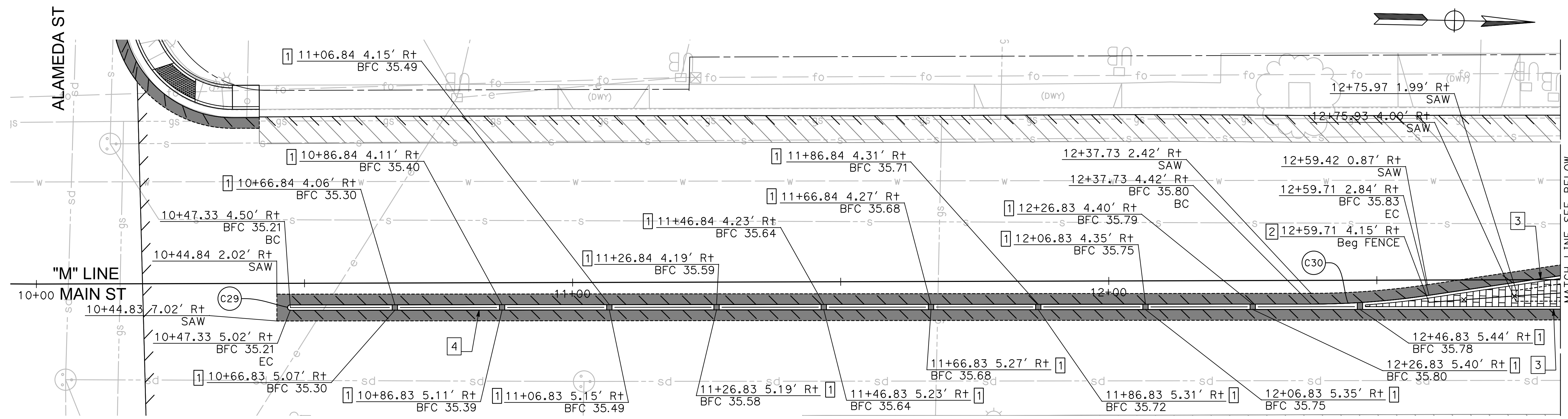
BID SET

CONSTRUCTION DETAILS	DATE	9/13/24
	CIP NO.	20005
DRAWING	DESIGNED	DANIEL BLOMQUIST
	DRAWN	KYLE DANA
SHEET: 18 OF 54	GRID NO.	N/A
	FILE NO.	HSPL NO. 5242(035)
SCALE	APPROVAL	
	BY	
AS SHOWN	DATE	9/13/24
	DATE	9/13/24

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

\\markthomas.com\mfs\projects\Manteca-23-0183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-17-C-20.dwg Sep 09, 2024 - 2:57pm



CONSTRUCTION NOTES (SHEETS C-15 TO C-22):

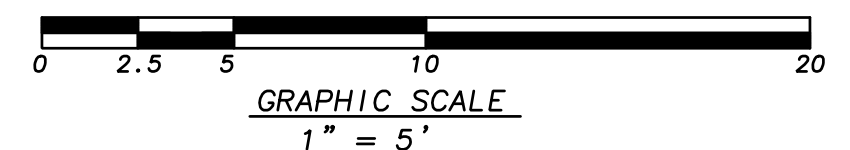
- 1 CURB CUT PER DETAIL 3, SHEET C-23
- 2 FENCE PER DETAIL 1, SHEET C-23
- 3 A1-6 CURB PER CALTRANS STD PLAN A87A
- 4 1' MEDIAN CURB PER DETAIL 4, SHEET C-23

LEGEND

- SAWCUT
- /// LIMITS OF SLURRY SEAL (TYPE II)
- ▨ 2" COLD PLANE & OVERLAY
- █ REMOVE AND CONSTRUCT NEW PAVEMENT SURFACE (12" FULL DEPTH TYPE A HMA)
- ▤ STAMPED CONCRETE (SEE DETAIL 2, CONSTRUCTION DETAIL SHEET C-23)
- ▧ MEDIAN FENCE (SEE DETAIL 1, CONSTRUCTION DETAIL SHEET C-23)

CURVE TABLE				
No. X	R	Δ	T	L
C29	0.50'	179°59'18"	4898.76'	1.57'
C30	150.00'	8°25'43"	11.05'	22.07'
C31	150.00'	8°18'34"	10.90'	21.75'
C32	150.00'	8°21'19"	10.96'	21.87'
C33	150.00'	5°26'13"	7.12'	14.23'

BID SET

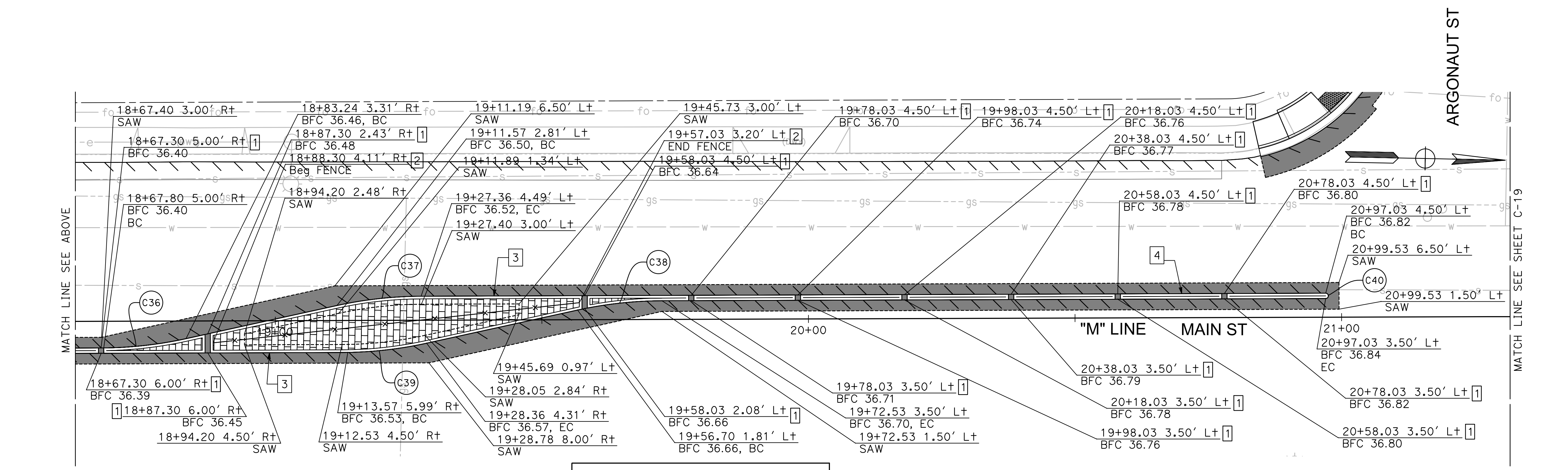
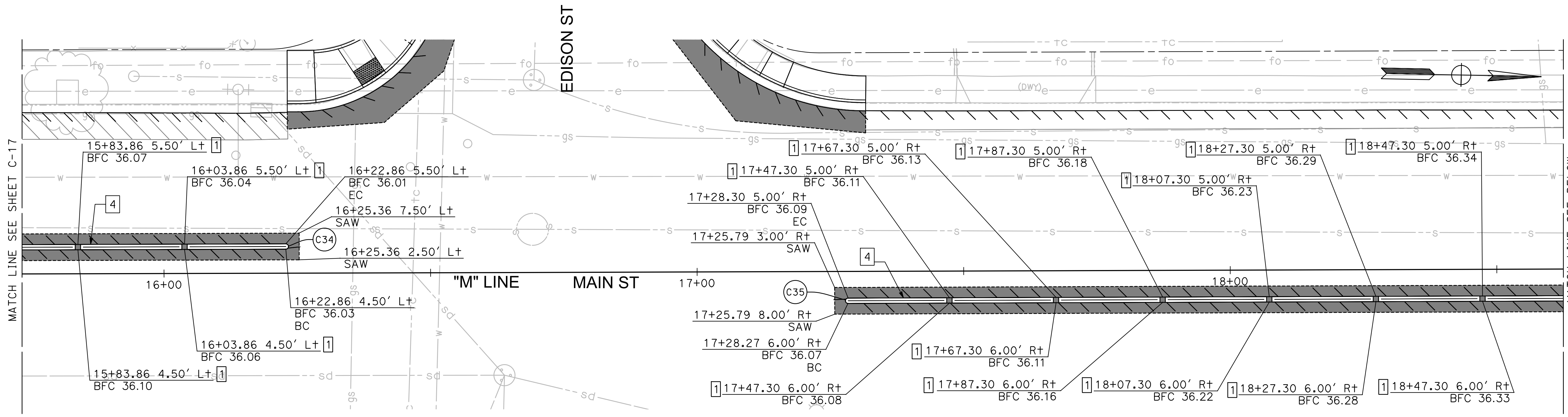


MATCH LINE SEE BELOW

MATCH LINE SEE SHEET C-18

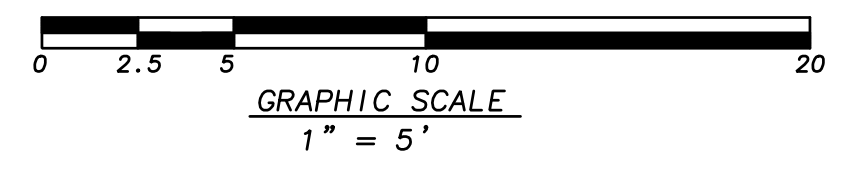
	DATE	9/13/24	CIP NO.	20005	GRID NO.	N/A	FILE NO.	HSPL NO. 5242(035)	
	APPROVED	DANIEL BLOMQUIST	DATE	9/13/24	DESIGNED	KYLE DANA	DRAWN	JAY YANG	NO.
	<p>CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460</p>								
	<p>CONSTRUCTION DETAILS MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT CONSTRUCTION DETAILS</p>								
DRAWING		C-15		SHEET: 19 OF 54		SCALE AS SHOWN			

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CURVE TABLE

No. X	R	Δ	T	L
C34	0.50'	180°00'00"	--	1.57'
C35	0.50'	179°58'23"	2128.76'	1.57'
C36	75.00'	11°52'52"	7.80'	15.55'
C37	75.00'	12°11'14"	8.01'	15.95'
C38	75.00'	12°11'14"	8.01'	15.95'
C39	75.00'	11°23'33"	7.48'	14.91'
C40	0.50'	180°00'00"	--	1.57'



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSIPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 55292
 Exp. 12/31/25
 CIVIL
 STATE OF CALIFORNIA

9/13/24
 DATE

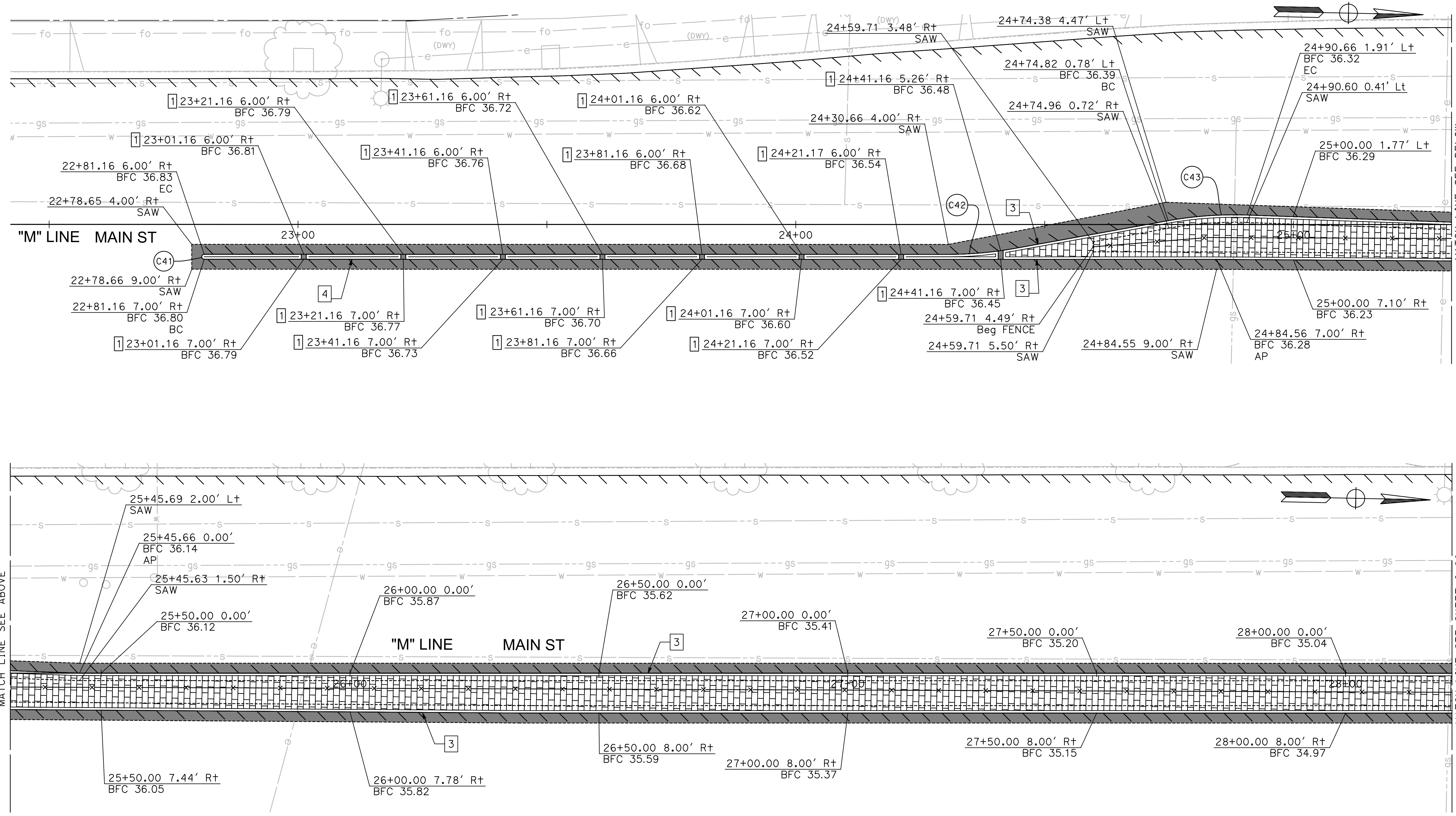
PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
**MAIN ST BIKE AND
 PEDESTRIAN
 IMPROVEMENT PROJECT**
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
DRAWING
C-16
SHEET: 20 OF 54
SCALE
AS SHOWN

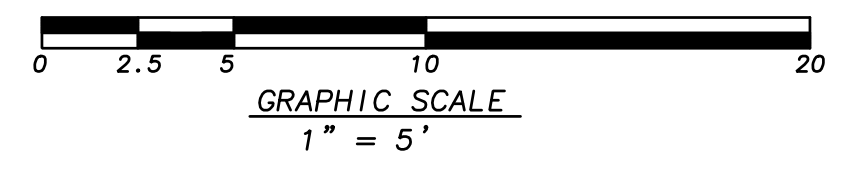
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MATCH LINE SEE BELOW

MATCH LINE SEE SHEET C-20

CURVE TABLE				
No. X	R	Δ	T	L
C41	0.50'	180°00'00"	--	1.57'
C42	75.00'	10°15'38"	6.73'	13.43'
C43	75.00'	12°14'50"	8.05'	16.03'



BID SET

DATE	9/13/24
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	REVISIONS

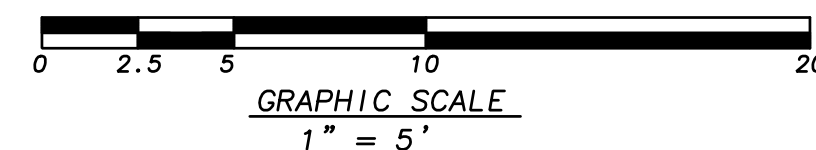
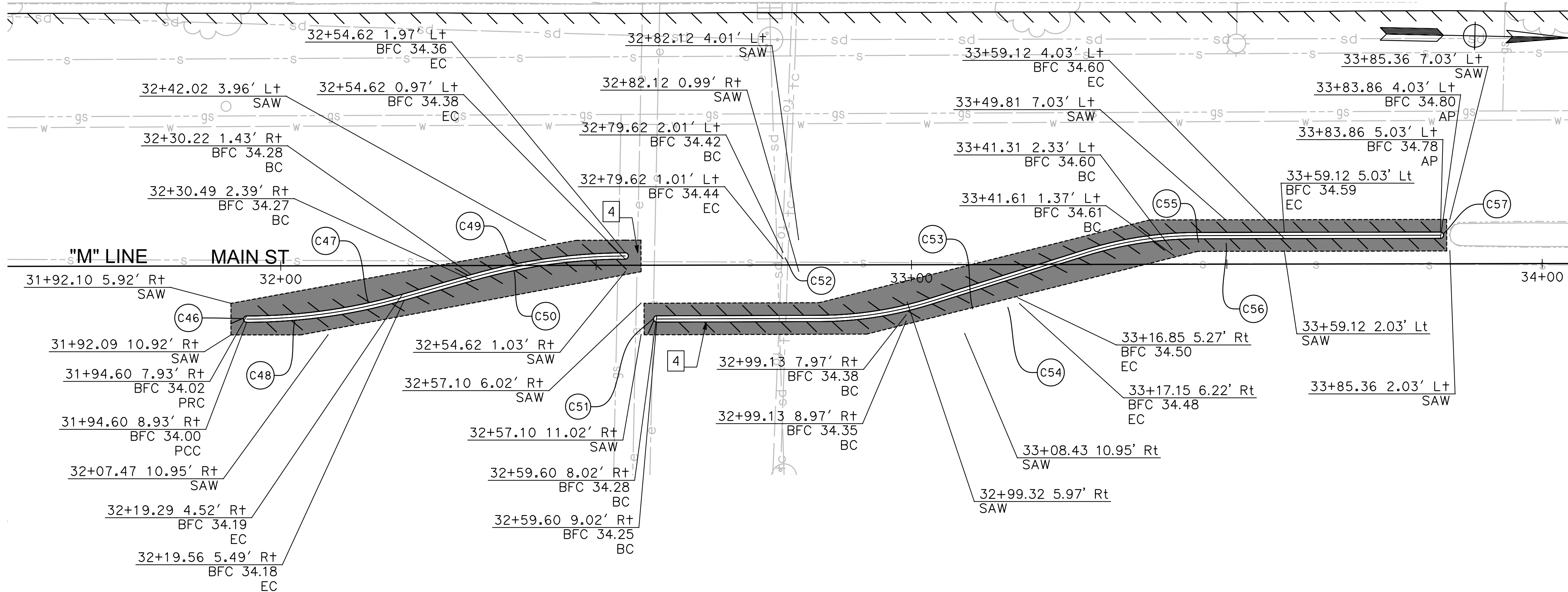
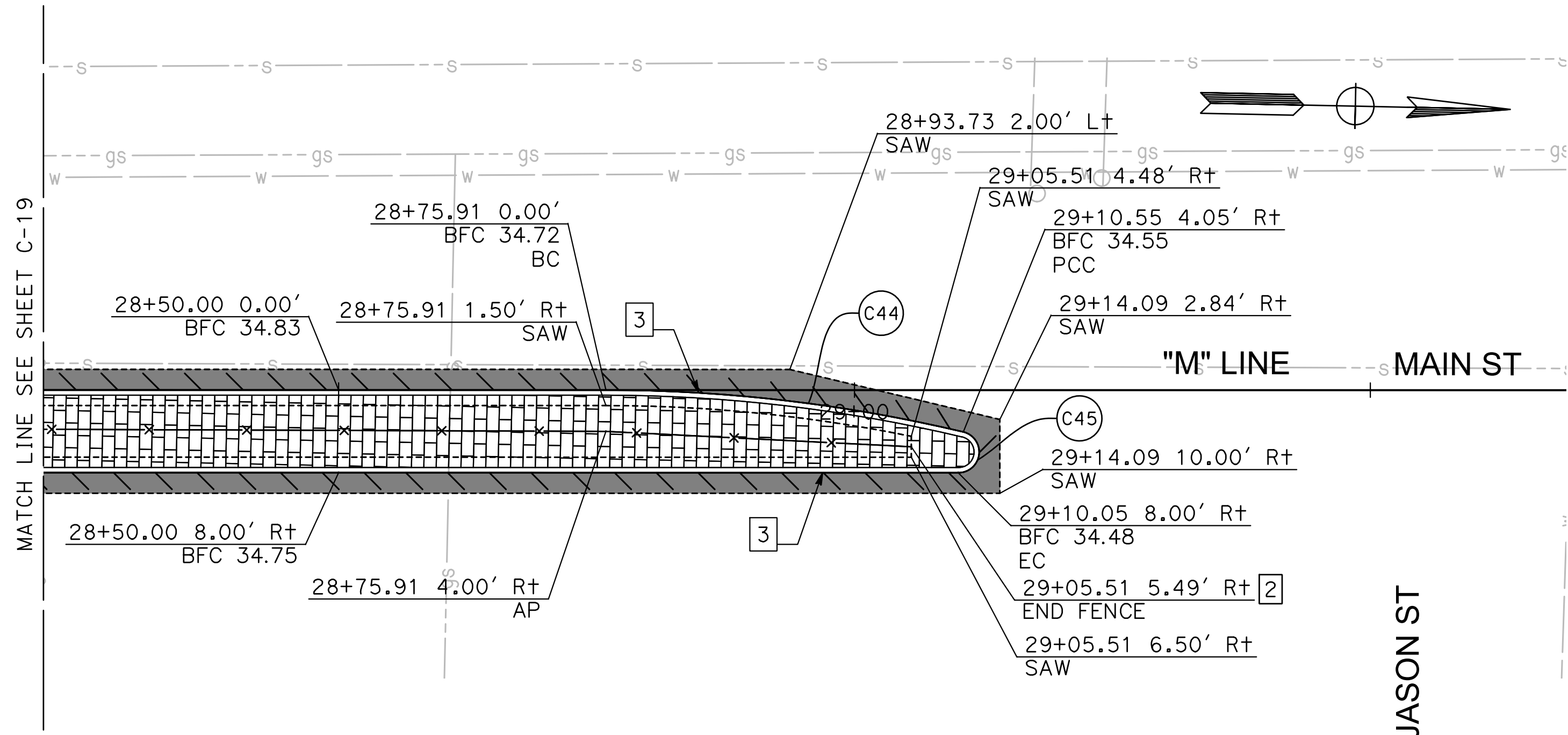
PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND
PEDESTRIAN
IMPROVEMENT PROJECT
CONSTRUCTION DETAILS

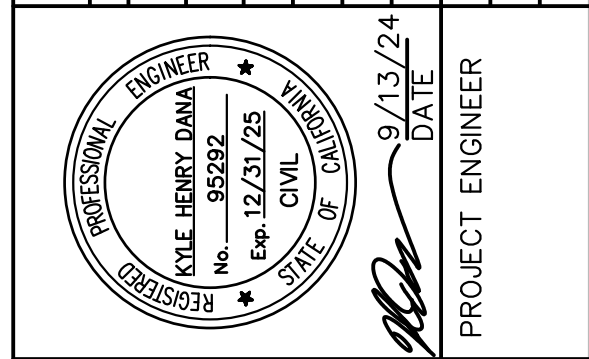
CONSTRUCTION DETAILS
DRAWING
C-17
SHEET: 21 OF 54
SCALE AS SHOWN

CURVE TABLE				
No. X	R	Δ	T	L
C44	150.00'	13°21'04"	17.56'	34.95'
C45	2.00'	167°50'15"	18.77'	5.86'
C46	0.50'	180°00'00"	--	1.57'
C47	90.00'	15°55'05"	12.58'	25.00'
C48	91.00'	15°55'05"	12.72'	25.28'
C49	90.00'	15°43'59"	12.43'	24.71'
C50	89.00'	15°43'59"	12.30'	24.44'
C51	0.50'	180°00'00"	--	1.57'
C52	0.50'	180°00'00"	--	1.57'
C53	60.00'	17°10'49"	9.06'	17.99'
C54	61.00'	17°10'49"	9.21'	18.29'
C55	60.00'	17°15'44"	9.11'	18.08'
C56	59.00'	17°15'44"	8.96'	17.78'
C57	0.50'	180°00'00"	--	1.57'



BID SET

DATE	9/13/24
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	REVISIONS



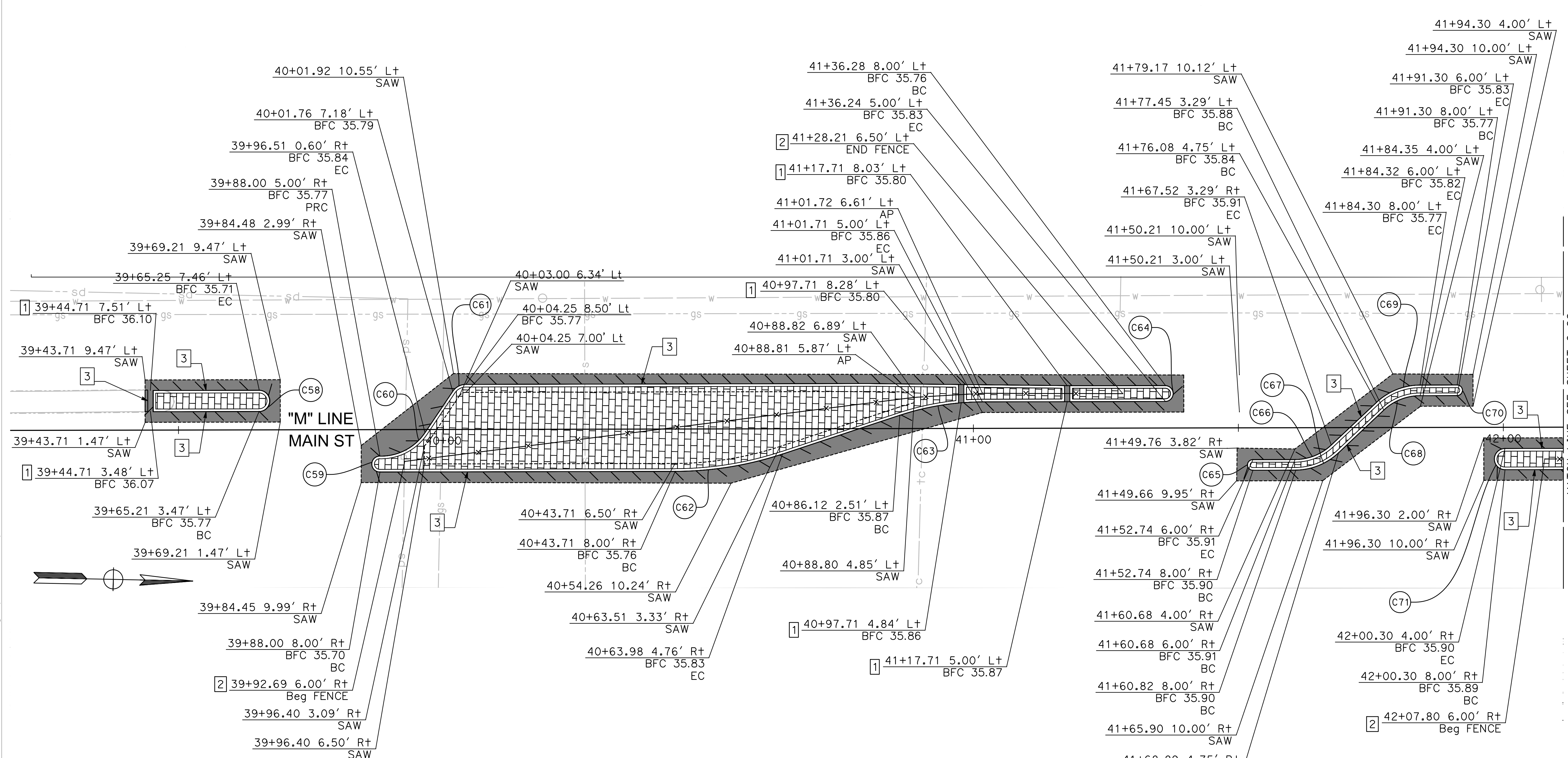
CITY OF MANTECA
 DEPARTMENT OF ENGINEERING
 1001 W CENTER ST
 MANTECA, CA 95337
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

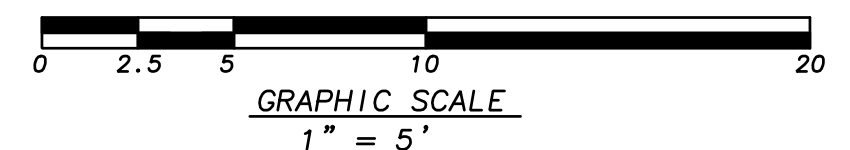
CONSTRUCTION DETAILS
 DRAWING
 C-18
 SHEET: 22 OF 54
 SCALE
 AS SHOWN

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CURVE TABLE				
No. X	R	Δ	T	L
C58	2.00'	180°00'00"	--	6.28'
C59	1.50'	182°34'36"	66.71'	4.78'
C60	10.00'	57°16'38"	5.46'	10.00'
C61	3.00'	55°59'10"	1.59'	2.93'
C62	65.00'	18°10'09"	10.39'	20.61'
C63	50.00'	18°10'09"	7.99'	15.86'
C64	1.50'	181°17'02"	133.91'	4.75'
C65	1.00'	183°22'15"	33.99'	3.20'
C66	10.00'	43°10'39"	3.96'	7.54'
C67	12.00'	42°29'51"	4.67'	8.90'
C68	10.00'	43°44'32"	4.01'	7.63'
C69	12.00'	43°12'03"	4.75'	9.05'
C70	1.00'	180°00'00"	--	3.14'
C71	2.00'	180°00'00"	--	6.28'



BID SET

PLANS FOR THE CONSTRUCTION OF

MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT

CONSTRUCTION DETAILS

DATE: 9/13/24

DESIGNED: DANIEL BLOMQUIST

DRAWN: JAY YANG

DATE: 9/13/24

PROJECT ENGINEER

APPROVED: DANIEL BLOMQUIST

DESIGNED: DANIEL BLOMQUIST

DRAWN: JAY YANG

DATE: 9/13/24

CIP NO. 20005

GRID NO. N/A

FILE NO. HSPL NO. 5242(035)

CONSTRUCTION DETAILS

DRAWING

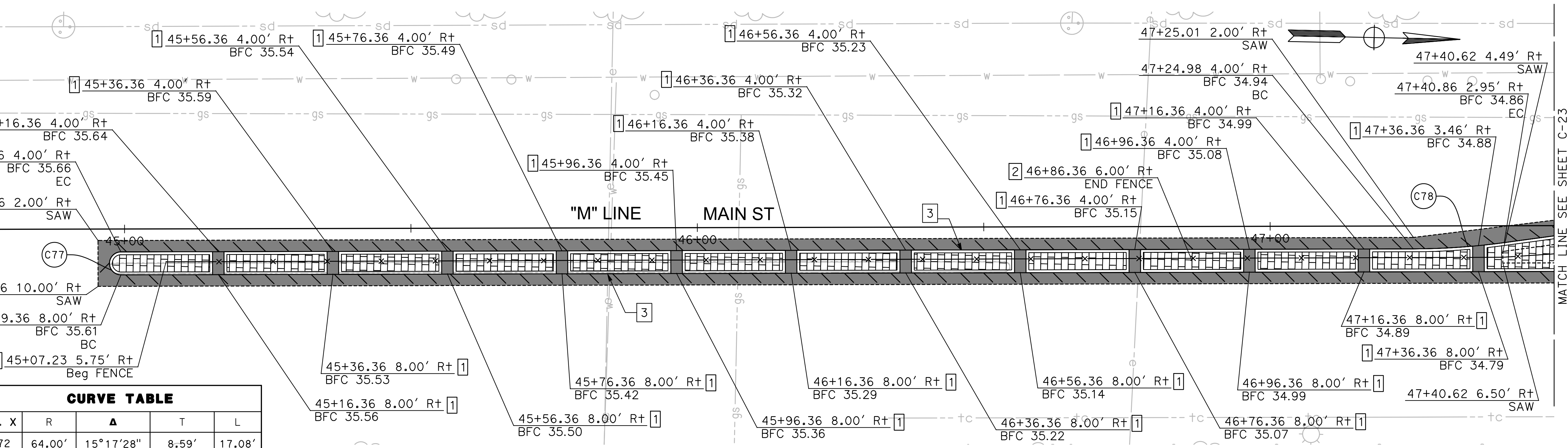
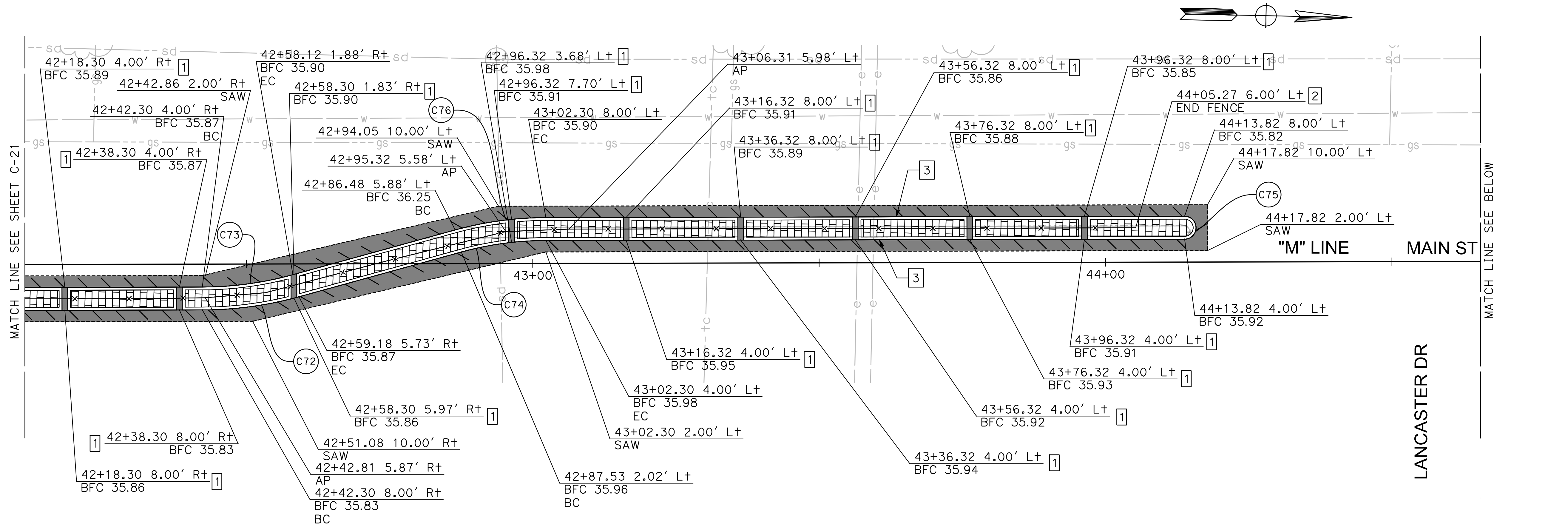
C-19

SHEET: 23 OF 54

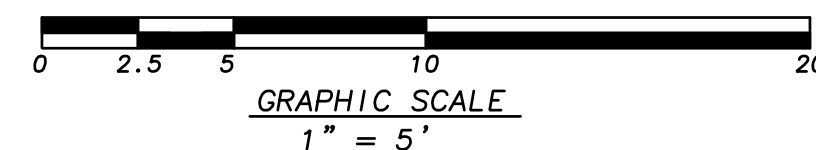
SCALE

AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-03-C-21-C-24.dwg Sep 09, 2024 - 2:56pm



CURVE TABLE				
No. X	R	Δ	T	L
C72	64.00'	15°17'28"	8.59'	17.08'
C73	60.00'	15°17'28"	8.05'	16.01'
C74	56.00'	15°17'28"	7.52'	14.95'
C75	2.00'	180°00'00"	INFINITY'	6.28'
C76	60.00'	15°17'28"	--	16.01'
C77	2.00'	180°00'00"	--	6.28'
C78	120.00'	7°36'04"	7.97'	15.92'



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005

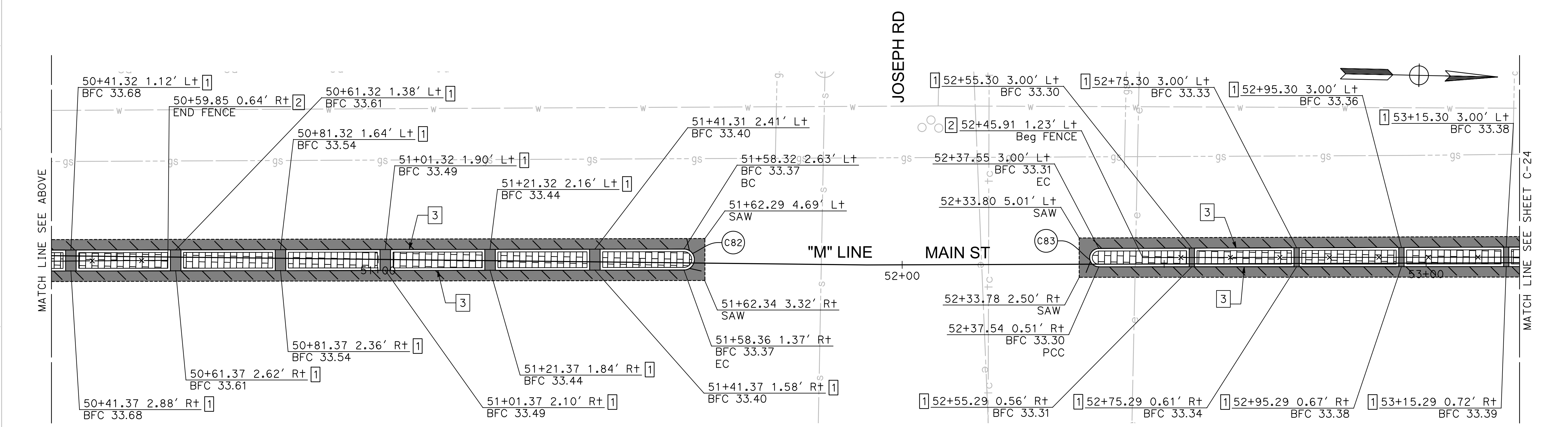
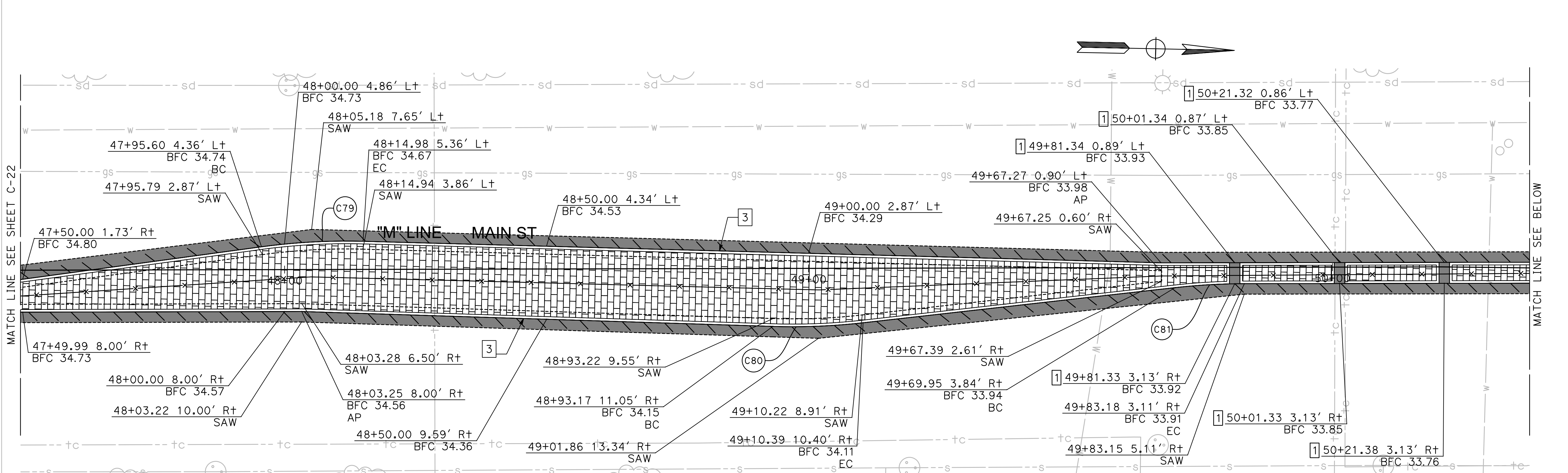
PROJECT ENGINEER

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

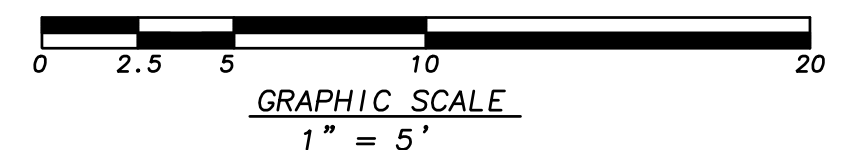
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
DRAWING
C-20
SHEET: 24 OF 54
SCALE AS SHOWN

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CURVE TABLE				
No. X	R	Δ	T	L
C79	120.00'	9°16'48"	9.74'	19.44'
C80	120.00'	8°13'52"	8.63'	17.24'
C81	120.00'	6°19'53"	6.64'	13.26'
C82	2.00'	180°00'00"	--	6.28'
C83	1.75'	178°36'56"	145.12'	5.47'



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005
DATE	9/13/24

PROJECT ENGINEER

CITY OF MANTECA

 DEPARTMENT OF ENGINEERING

 1001 W CENTER ST

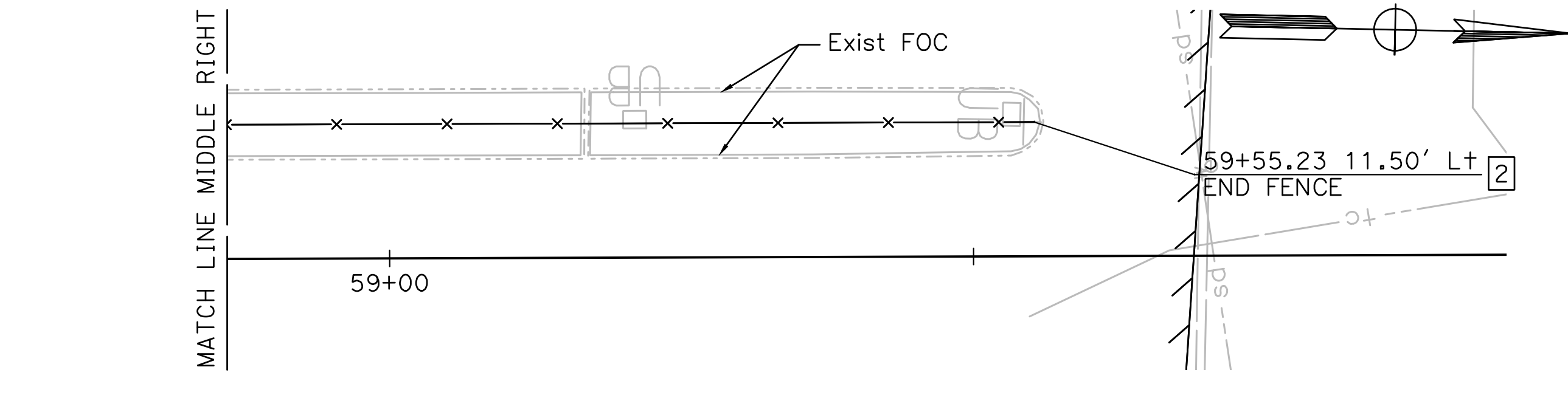
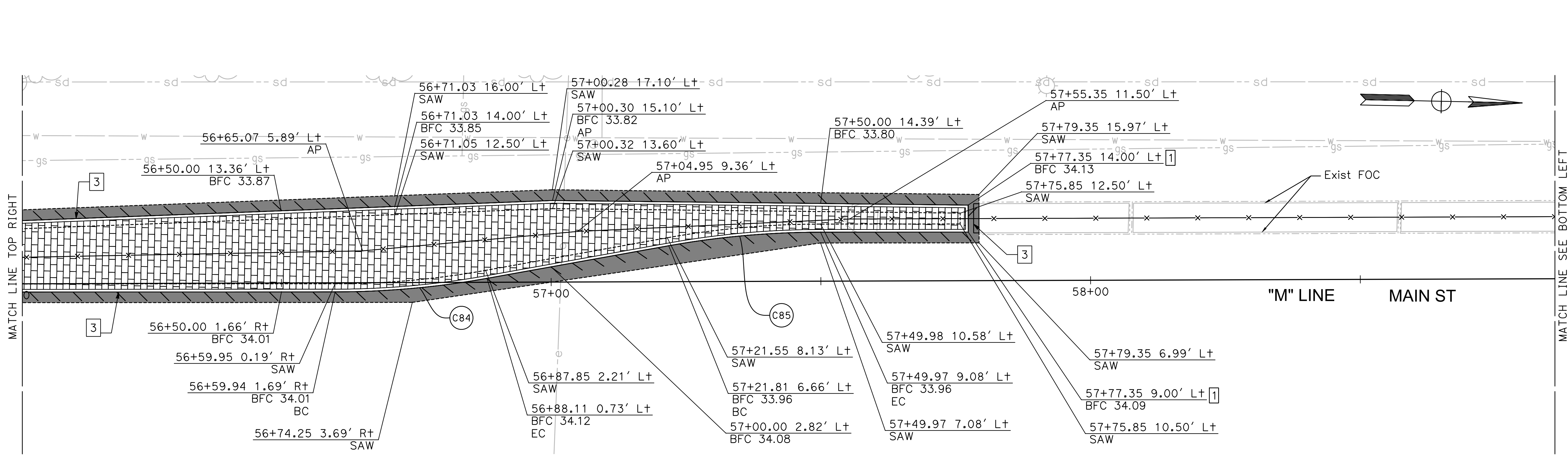
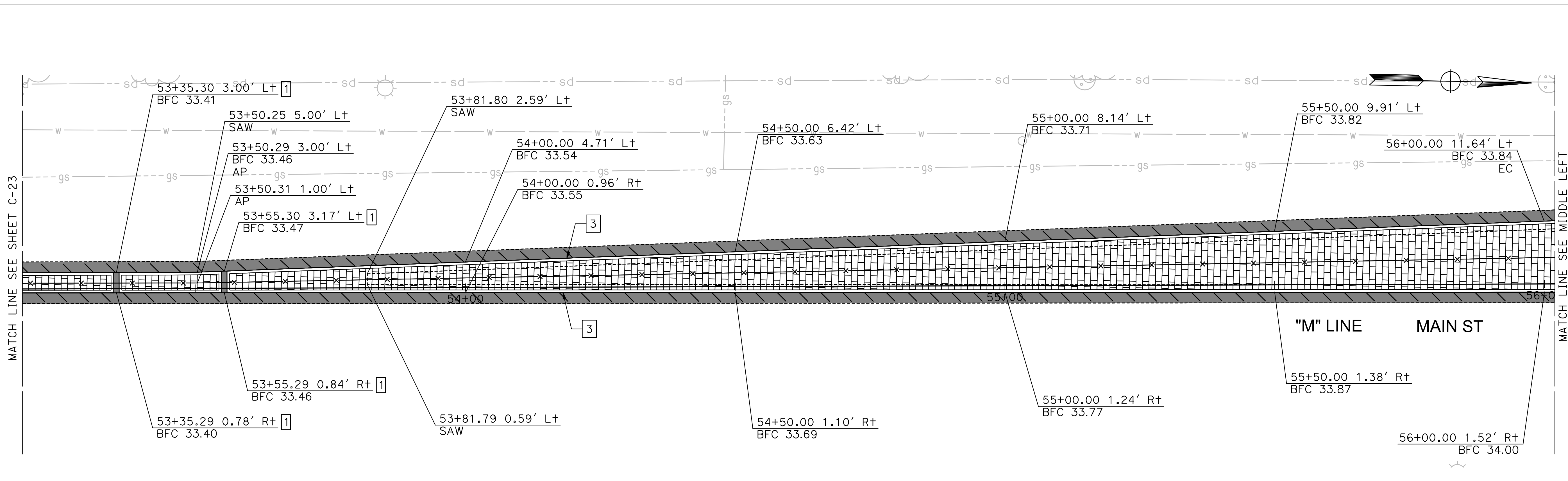
 MANTECA, CA 95337

 (209) 456-8460

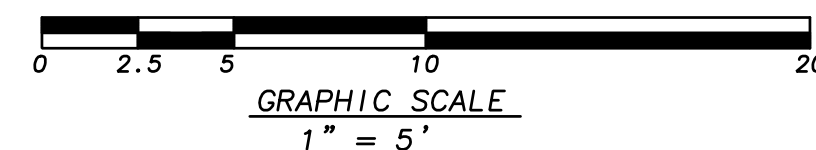
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
DRAWING
C-21
SHEET: 25 OF 54
SCALE AS SHOWN

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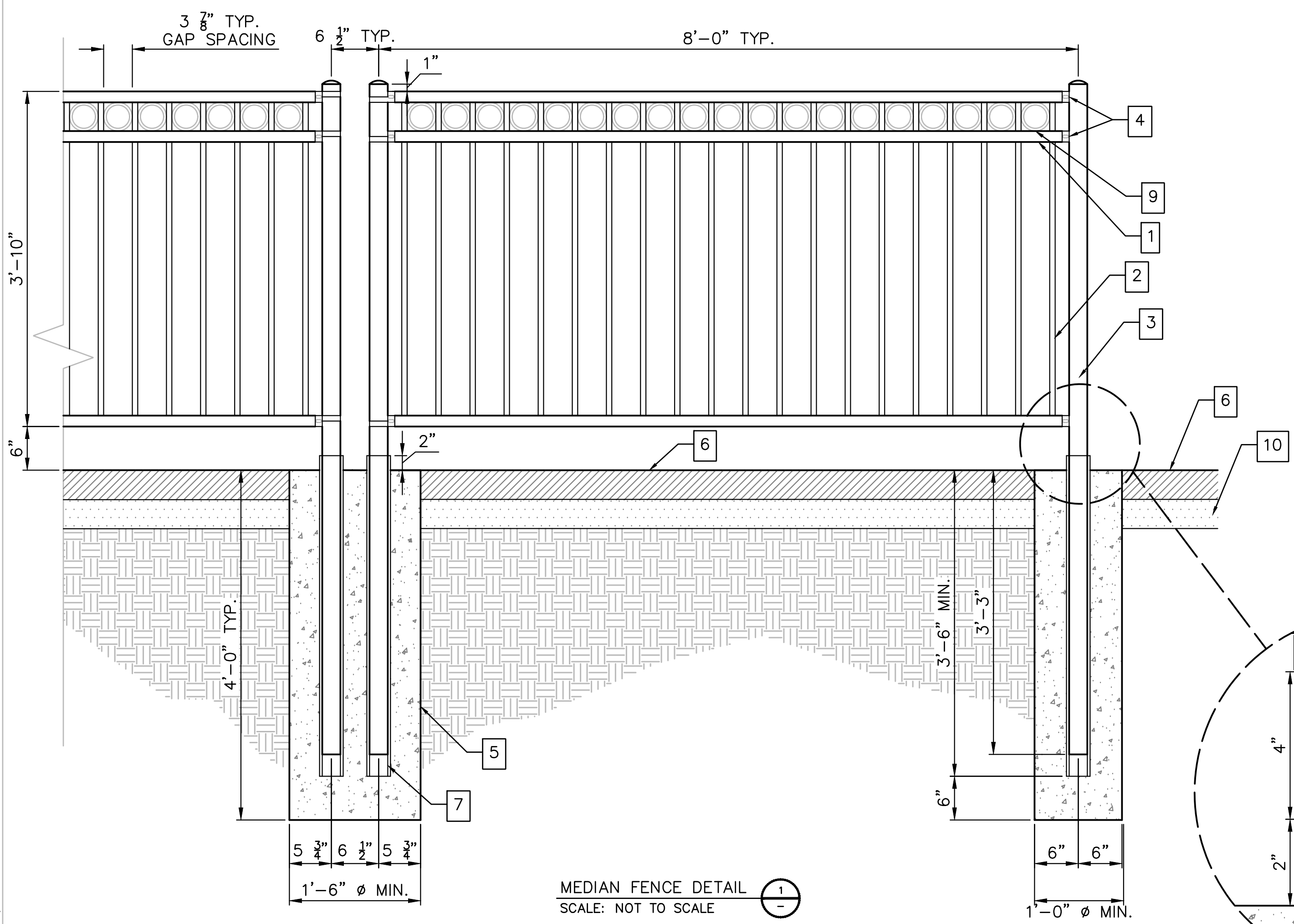
CURVE TABLE				
No. X	R	Δ	T	L
C84	160.00'	10°08'14"	14.19'	28.31'
C85	160.00'	10°08'14"	14.19'	28.31'



BID SET

APPROVED DANIEL BLOMQUIST DATE: 9/13/24	DATE: 9/13/24
	CIP NO. 20005
	GRID NO. N/A
	FILE NO. HSPL NO. 5242(035)
DESIGNED KYLE DANA	REVISIONS
DRAWN JAY YANG	NO.
PROJECT ENGINEER KYLE HENRY DANA No. 95292 Exp. 12/31/25 CIVIL (209) 456-8460	
CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	
PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT CONSTRUCTION DETAILS	
CONSTRUCTION DETAILS	DRAWING C-22
SHEET: 26 OF 54	SCALE AS SHOWN

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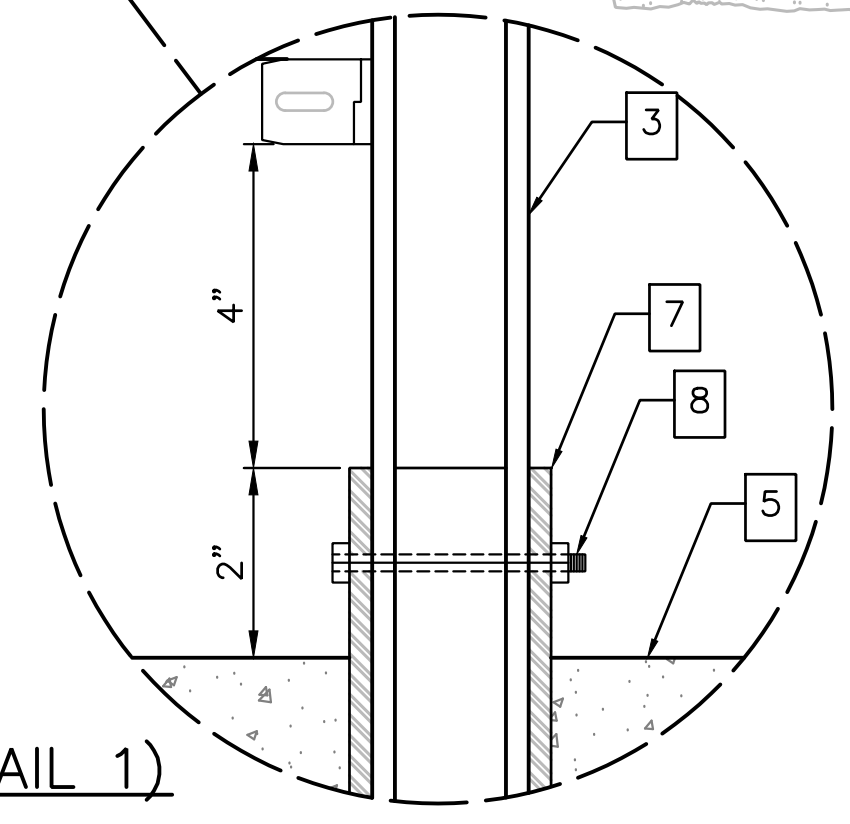
MEDIAN FENCE DETAIL (1)
SCALE: NOT TO SCALE

DISPOSITION NOTES (DETAIL 1)

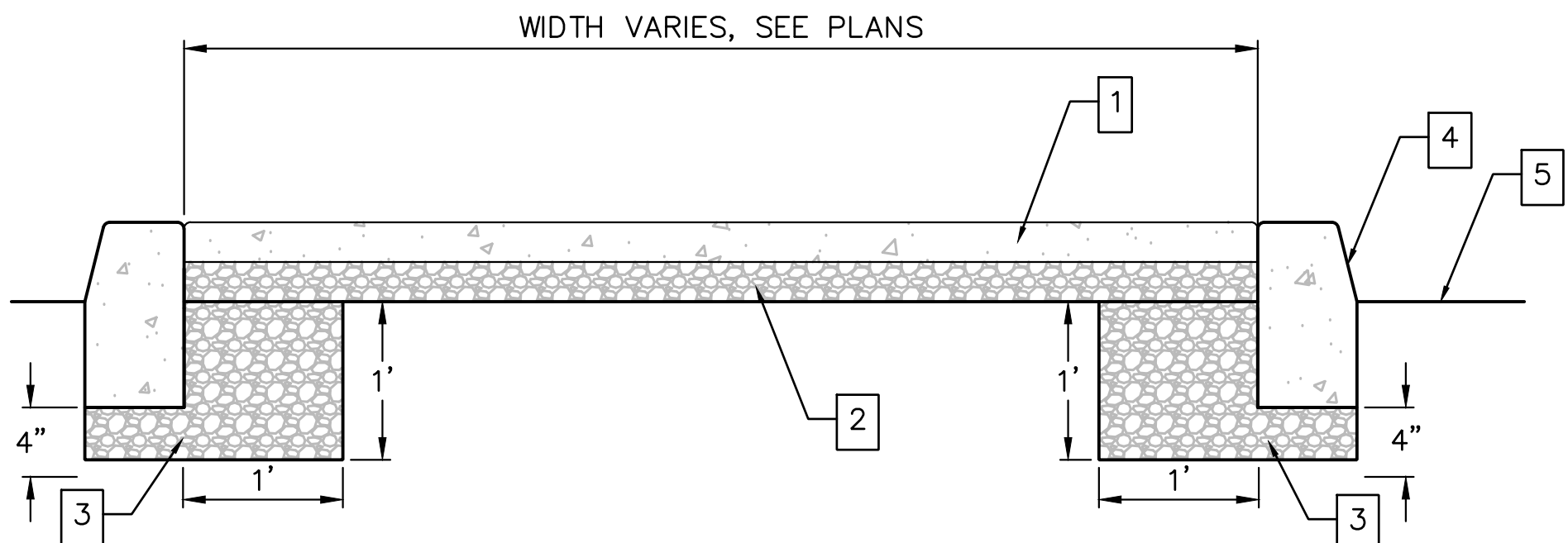
- 1 TUBULAR STEEL RAIL, 1 1/2", COLOR-BLACK, PART OF PRE-ASSEMBLED 'MONTAGE PLUS MAJESTIC' 3-RAIL SYSTEM BY AMERISTAR FENCE PRODUCTS, INC. OR APPROVAL EQUAL.
- 2 TUBULAR STEEL PICKETS, 3/4" SQ., 18 GA., COLOR-BLACK, PART OF PRE-ASSEMBLED 'MONTAGE PLUS MAJESTIC' 3-RAIL SYSTEM WITH FLUSH BOTTOM OPTION (PICKETS DO NOT EXTEND BEYOND BOTTOM RAIL) BY AMERISTAR FENCE. OR APPROVED EQUAL.
- 3 TUBULAR GALV. STEEL POST, 2 1/2" SQ., 16 GA.
- 4 FLAT MOUNT BRACKET ON END POST, MODEL: BXIII BY AMERISTAR, OR APPROVED EQUAL.
- 5 CONCRETE FOOTING (f'c = 3000 PSI)
- 6 STAMPED BRICK CONCRETE, SEE DETAIL 2, THIS SHEET
- 7 GALV. POST SLEEVE, 3" X 3" SQ., POURED IN FOOTING. SEAL BOTTOM OF SLEEVE WITH DUCT TAPE TO PREVENT CONCRETE INTRUSION.
- 8 STEEL BOLT & NUT, 3/8" X 3 1/2"
- 9 RING ORNAMENT ACROSS TOP
- 10 CLASS 2 AGGREGATE BASE

CONSTRUCTION NOTES (DETAIL 1)

- 1 MAINTAIN TOP OF FENCE LEVEL. ADJUST FENCE POST HEIGHT IN SLEEVES AS NEEDED.
- 2 ALL JOINTS SHALL HAVE CONTINUOUS WELD AND GROUND SMOOTH.
- 3 SEE SPECS FOR MORE INFORMATION.
- 4 CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.



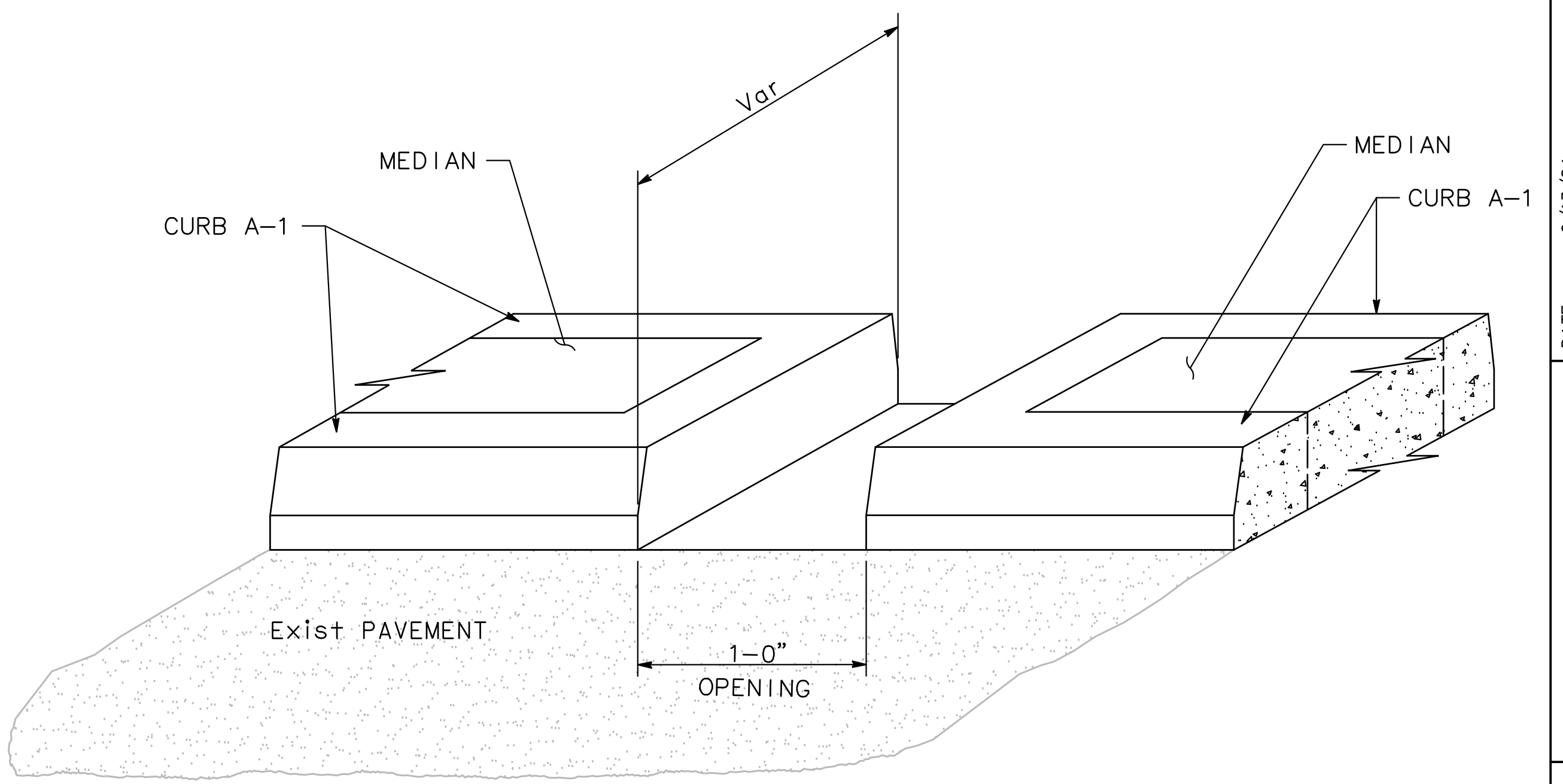
3X ENLARGEMENT



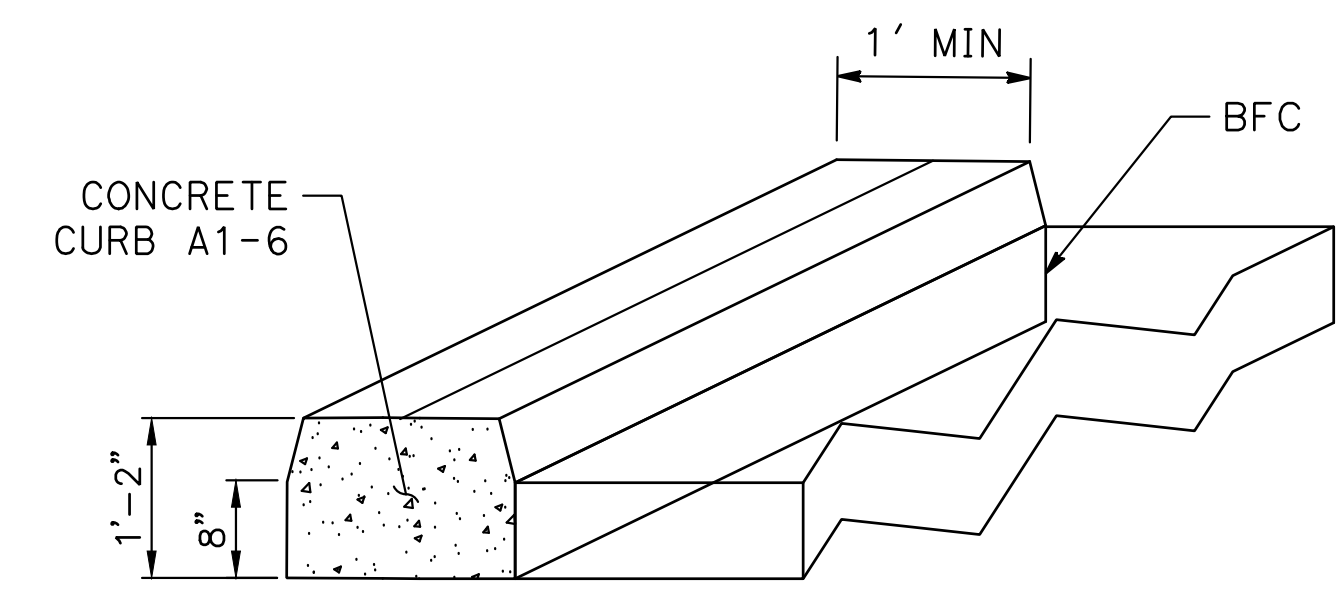
MEDIAN ISLAND STAMPED CONCRETE DETAIL (2)
SCALE: NOT TO SCALE

DISPOSITION NOTES (DETAIL 2)

- 1 3" PCC - STACKED BRICK STAMPED CONCRETE PAVING, COLOR- RED (#1117) OR EQUIVALENT COLOR APPROVED BY THE ENGINEER
- 2 3" CLASS 2 AGGREGATE BASE, COMPACTED TO 90%.
- 3 BACKFILL CLASS 2 A.B. AS NECESSARY
- 4 CURB, SEE CIVIL DRAWINGS
- 5 FINISH GRADE AT ROADWAY



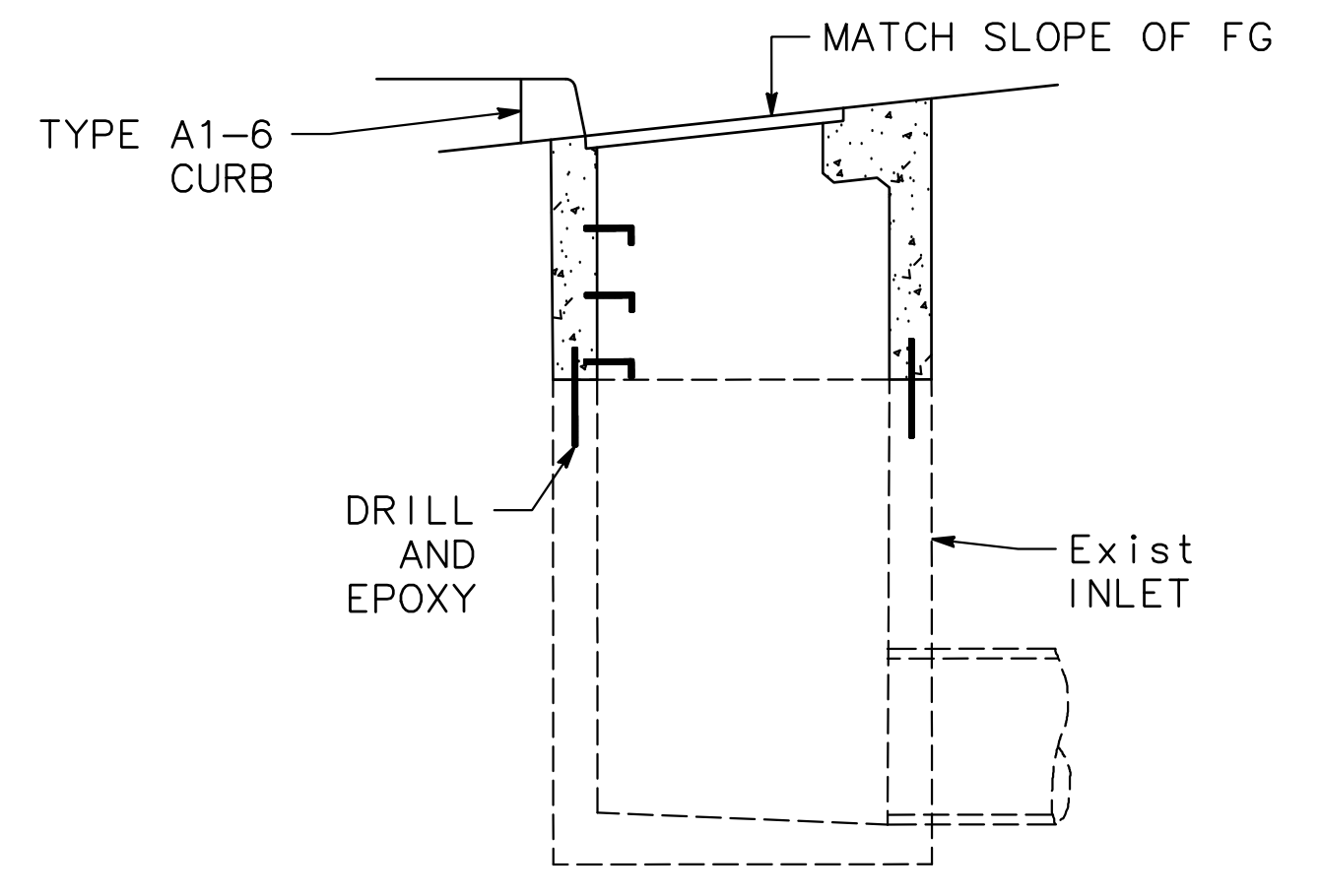
DRAINAGE CUT DETAIL (3)
SCALE: NOT TO SCALE



MONOLITHIC MEDIAN DETAIL (4)
SCALE: NOT TO SCALE

CONSTRUCTION NOTES (DETAIL 5)

- 1. USE EXISTING REINFORCING STEEL WHEN JOINING NEW CONCRETE TO EXISTING CONCRETE. OTHERWISE USE #4 DOWEL @12", 2 PER WALL.
- 2. RSP: TRIM FABRIC IF NEEDED. NO FABRIC SHALL PROTRUDE ABOVE GROUND.



ADJUST DI TO GRADE DETAIL (5)
SCALE: NOT TO SCALE

DATE	9/13/24
DESIGNED	DANIEL BLOMQUIST
DRAWN	KYLE DANA
APPROVED	JAY YANG
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
NO.	
BY	
DATE	
REVISIONS	

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 55292
 Exp. 12/31/25
 CIVIL ENGINEER
 STATE OF CALIFORNIA

9/13/24 DATE
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 CONSTRUCTION DETAILS

CONSTRUCTION DETAILS
 DRAWING C-23
 SHEET: 27 OF 54
 SCALE: NONE

BID SET

KEY NOTES (SHEETS DU1-DU6):

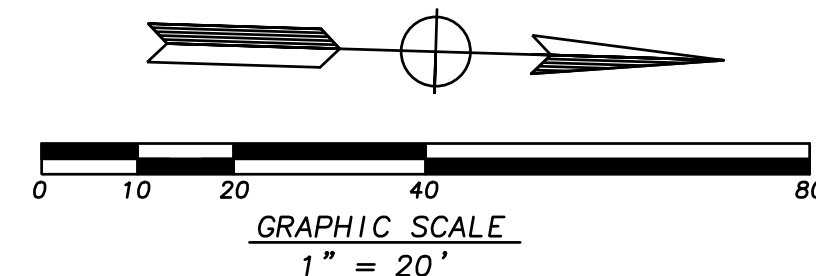
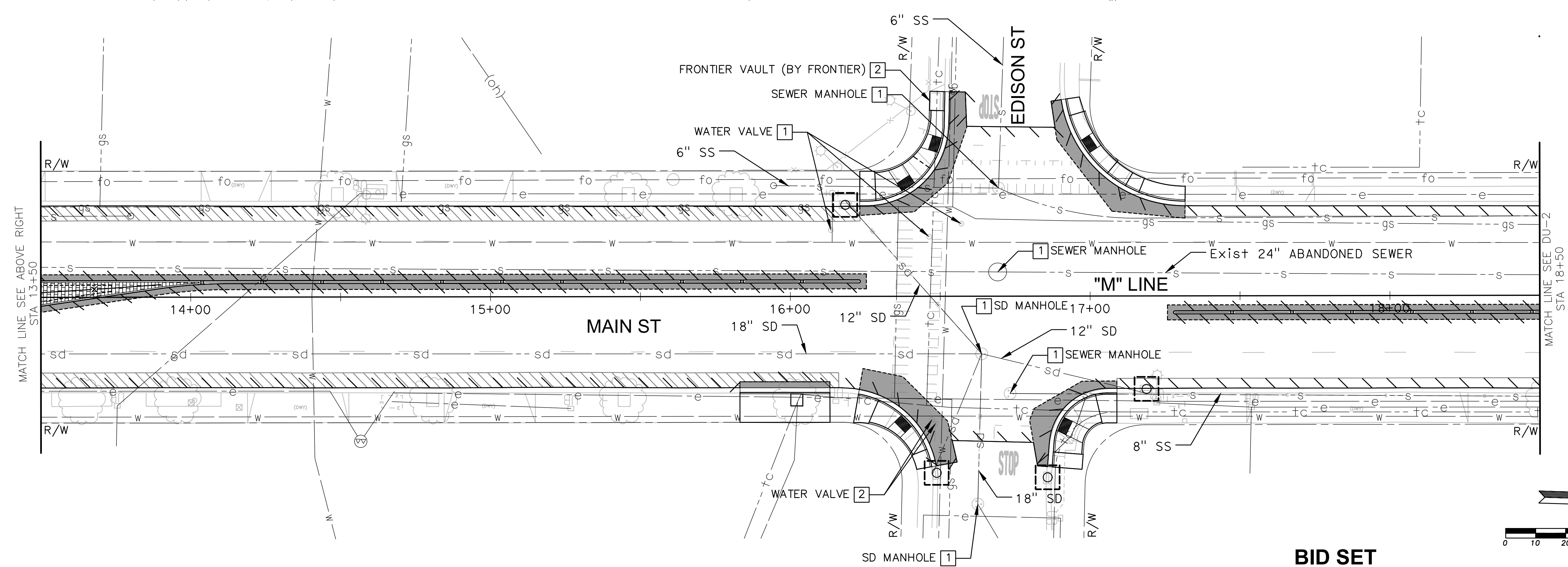
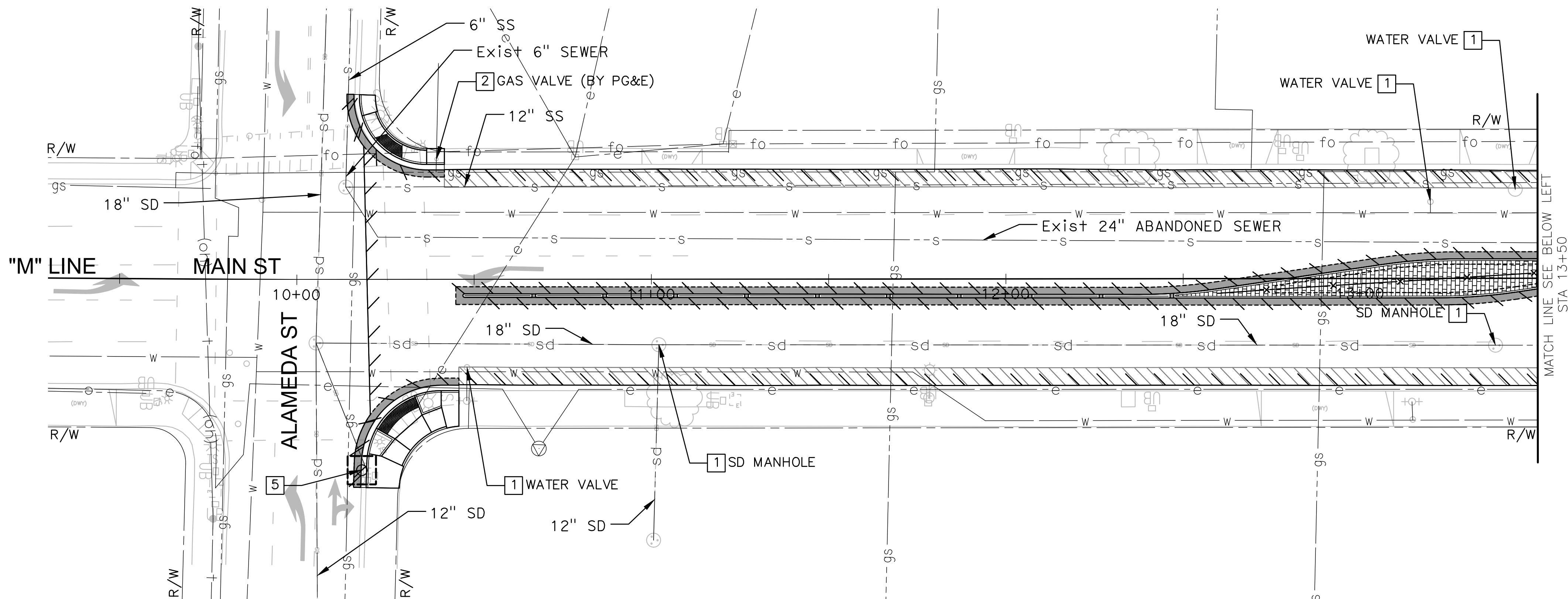
- ALL FACILITIES TO BE ADJUSTED TO GRADE WILL BE ADJUSTED BY THE RESPECTIVE UTILITY COMPANY. ALL UTILITY MARKERS WILL BE RELOCATED BY RESPECTIVE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ALL LABOR AND EQUIPMENT NECESSARY TO LOCATE EXISTING UNDERGROUND FACILITIES BEYOND THE INFORMATION PROVIDED BY THE U.S.A. MARKINGS AND POTHOLES INFORMATION INCLUDING, BUT NOT LIMITED TO, METAL DETECTORS WIRE LOCATING EQUIPMENT, AND ADDITIONAL POTHOLES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE SUBSURFACE CONDITIONS AND ANY OTHER EXISTING UNDERGROUND UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT U.S.A. AND HAVE UTILITIES MARKED AT LEAST 48 HOURS BEFORE BEGINNING WORK. WHERE MARKINGS ARE NEAR PROPOSED UTILITIES, IMPROVEMENTS OR FOUNDATIONS AND WHERE A POTHOLES HAS NOT ALREADY BEEN COMPLETED, THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES BY POTHOLES PRIOR TO EXCAVATING.

LEGEND:

- +----- (E) COMMUNICATION UG (COMCAST)
- +----- (oh) (E) COMMUNICATION OH (COMCAST)
- +c----- (E) COMMUNICATION UG (FRONTIER)
- +c----- (oh) (E) COMMUNICATION OH (FRONTIER)
- e----- (E) ELECTRIC UG (PG&E)
- e----- (oh) (E) ELECTRIC OH (PG&E)
- gs----- (E) GAS (PG&E)
- w----- (E) WATER (SSJID)
- w----- (E) WATER (CITY OF MANTECA)
- s----- (E) SEWER (CITY OF MANTECA)
- sd----- (E) STORM DRAIN (CITY OF MANTECA)
- (E) TEMP DRAINAGE INLET PROTECTION

CONSTRUCTION NOTES

- PROTECT IN PLACE
- ADJUST TO GRADE
- RELOCATE
- DI TO REMAIN
- ADJUST DI TO GRADE PER DETAIL 5, SHEET C-23



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
DATE	
BY	
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
REVISIONS	

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95292
 Exp. 12/31/25
 CIVIL
 9/13/24
 DATE
 PROJECT ENGINEER

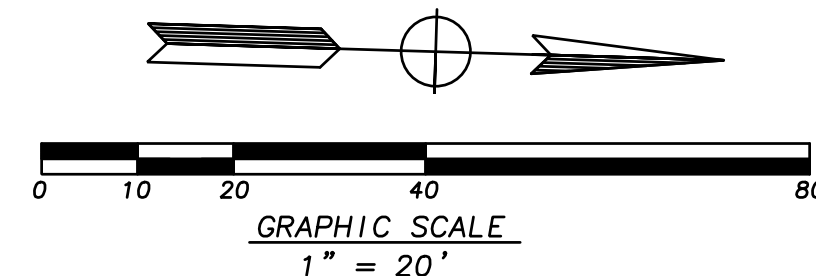
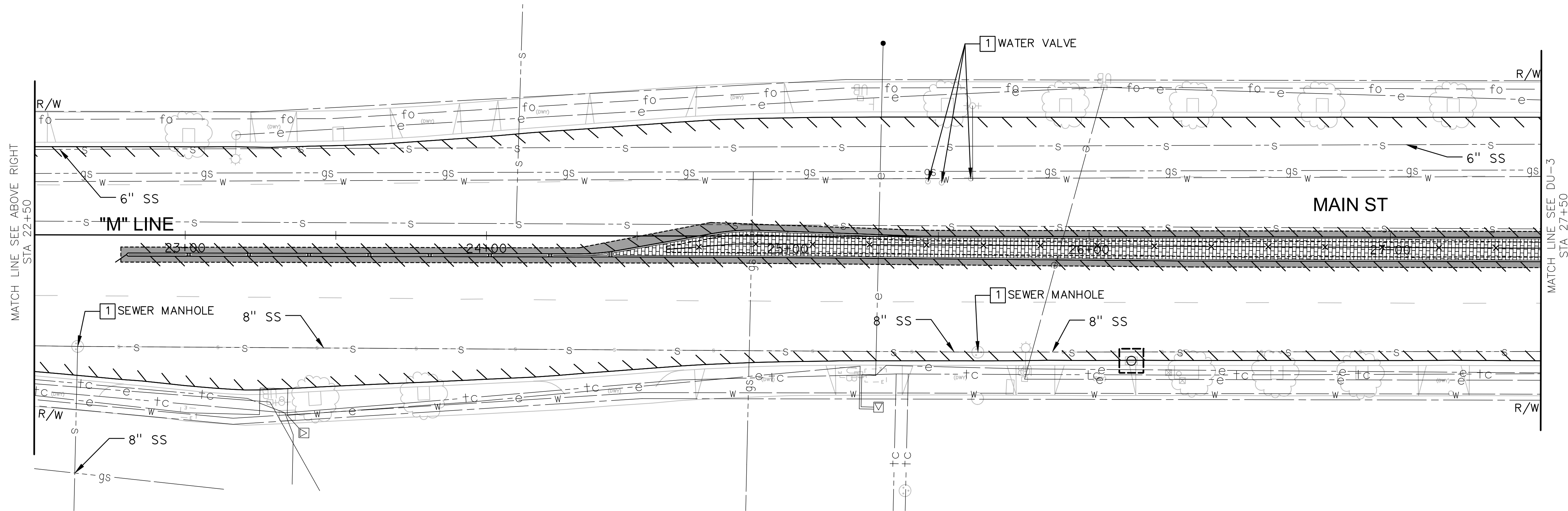
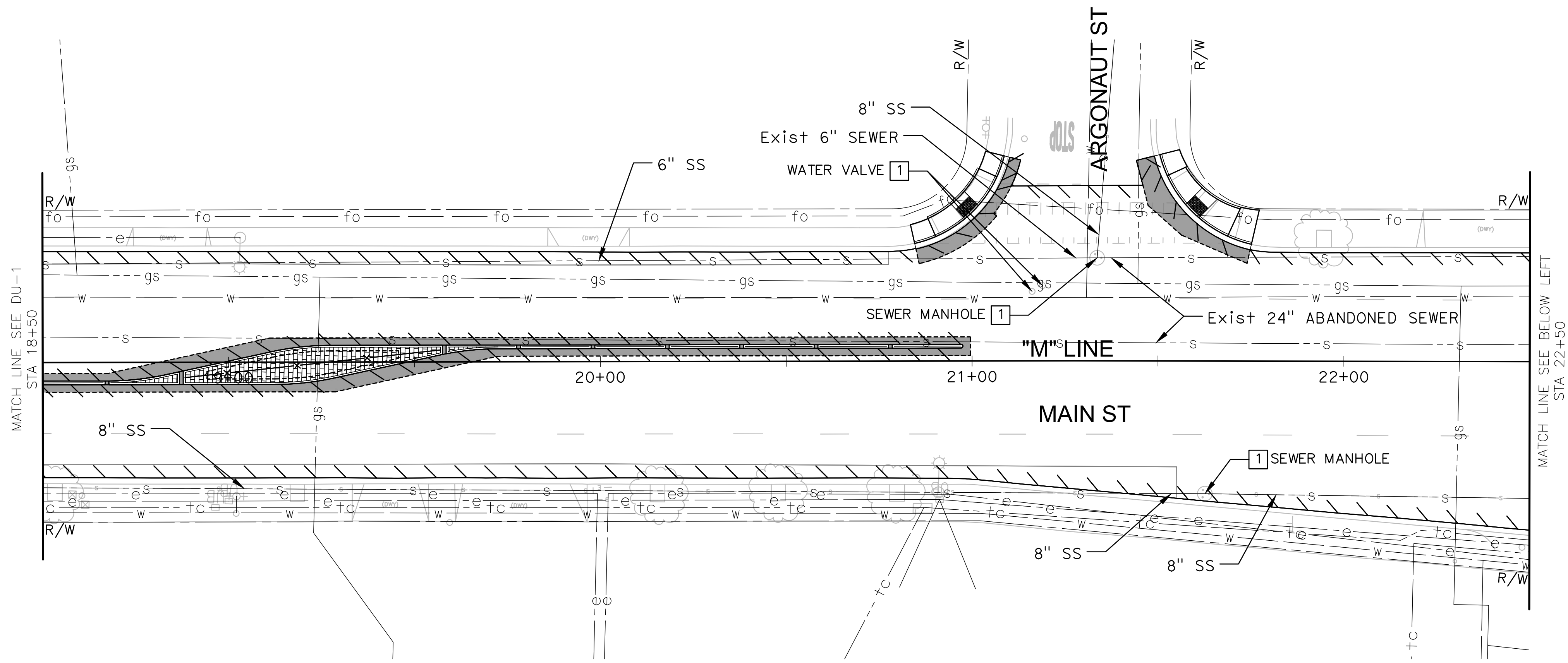
CITY OF MANTECA
 DEPARTMENT OF ENGINEERING
 1001 W CENTER ST
 MANTECA, CA 95337
 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 DRAINAGE AND UTILITY PLAN
 STA 9+00 TO 18+50

DRAINAGE AND UTILITY PLAN
 DU-1
 SHEET: 28 OF 54
 SCALE AS SHOWN

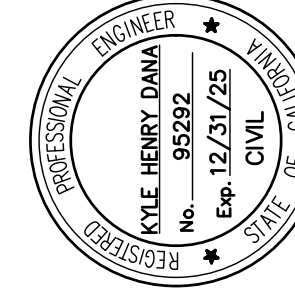
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\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-04-DU-01-DU-06.dwg Sep 09, 2024 - 3:00pm




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APPROVAL	BY
DATE	



 9/13/24 DATE
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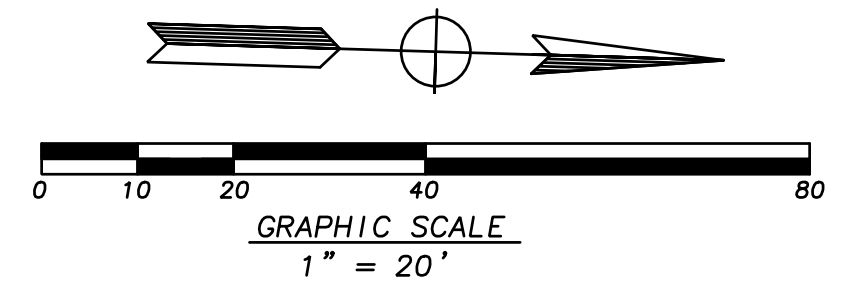
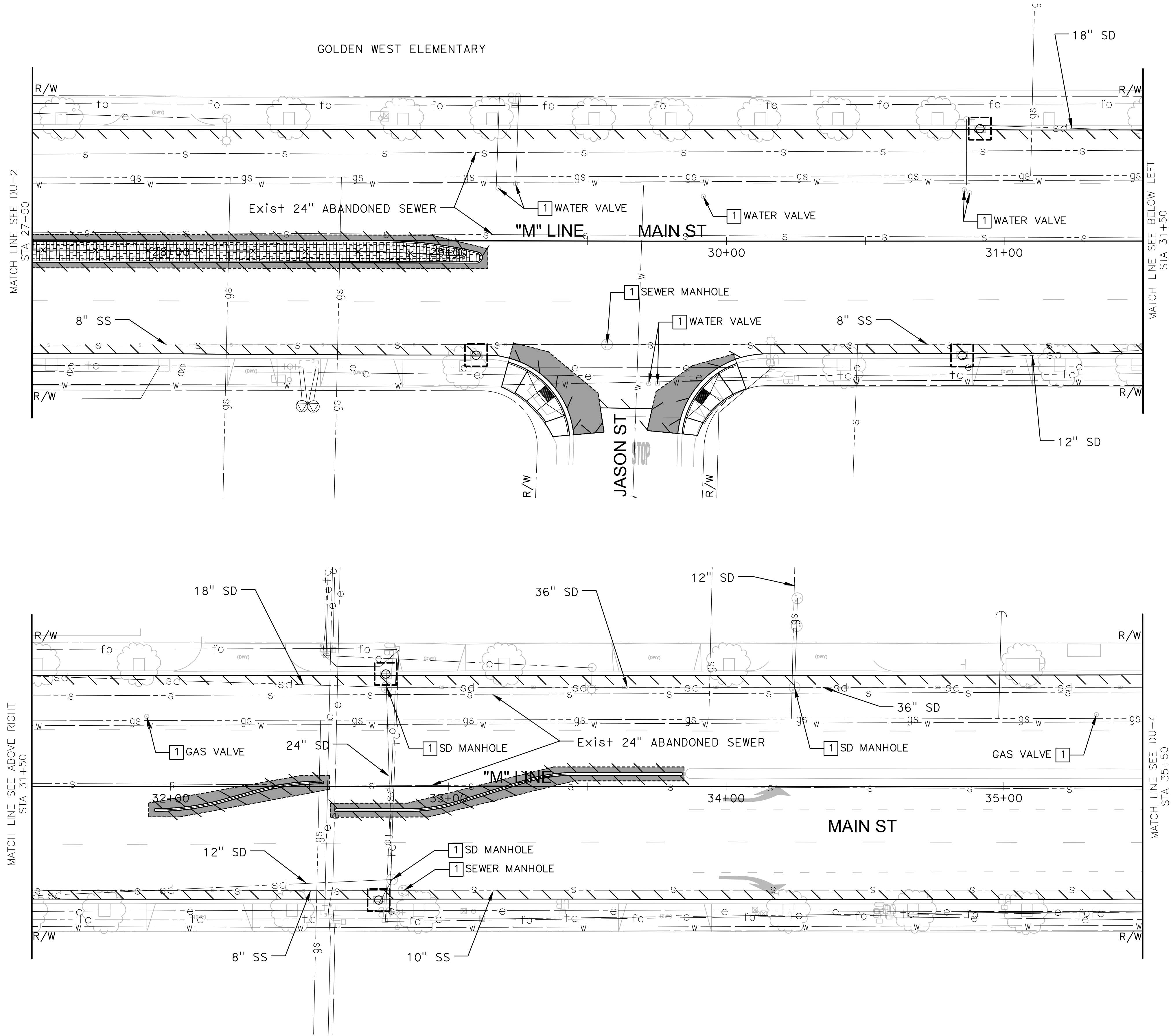


 CITY OF MANTECA
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PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 DRAINAGE AND UTILITY PLAN
 STA 18+50 TO 27+50

DRAINAGE AND UTILITY PLAN
 DU-2
 SHEET: 29 OF 54
 SCALE AS SHOWN

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BID SET

DRAINAGE AND UTILITY PLAN
 DU-3
 SHEET: 30 OF 54
 AS SHOWN

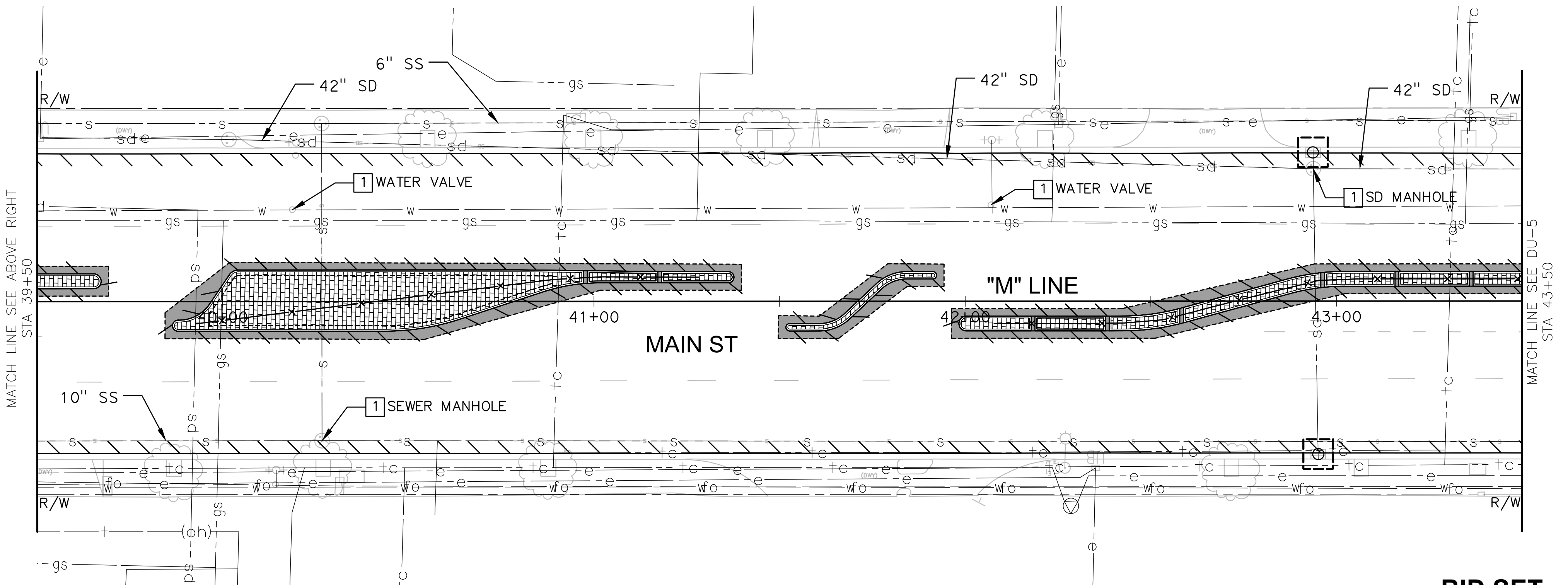
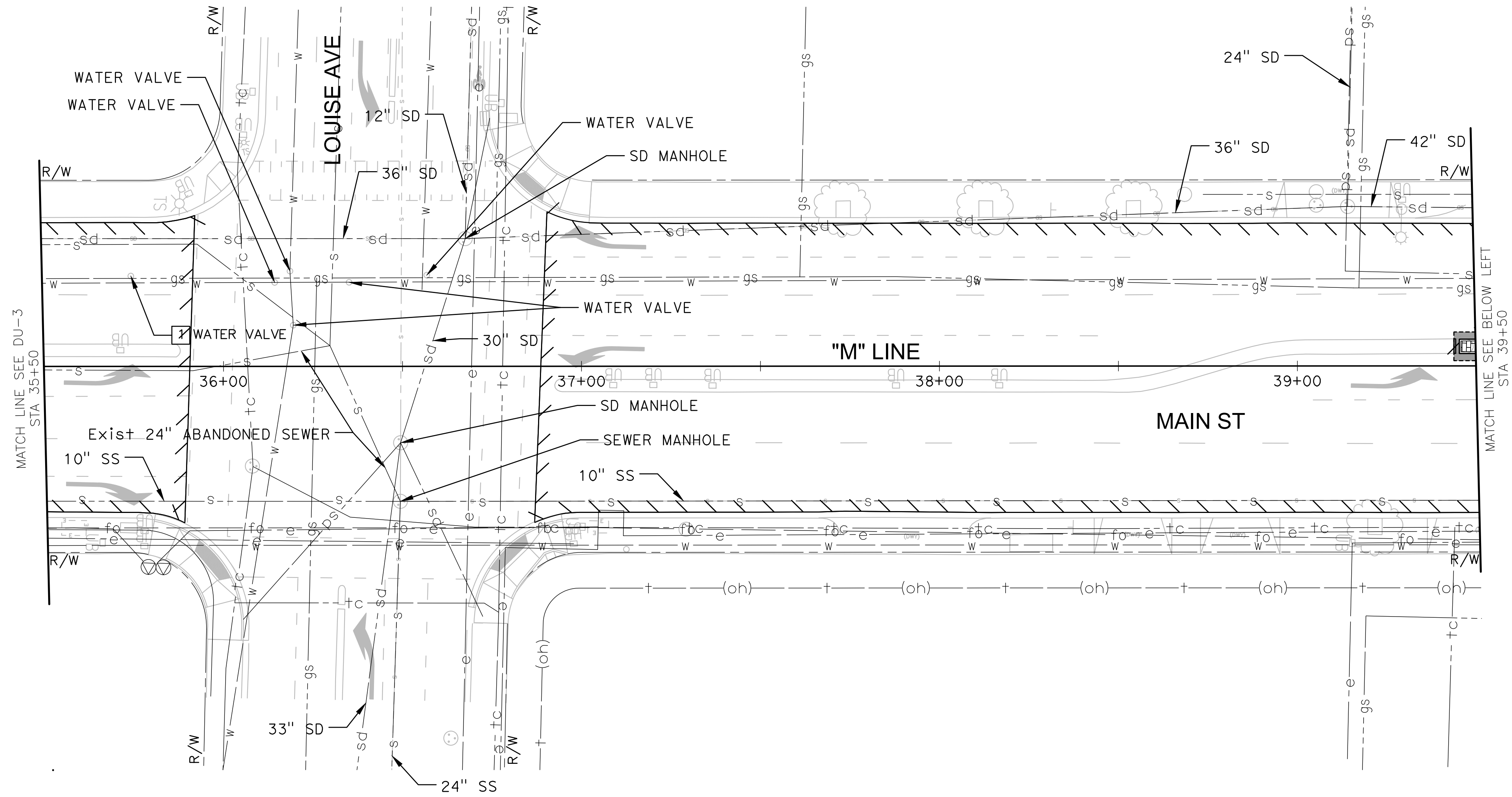
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 DRAINAGE AND UTILITY PLAN
 STA 27+50 TO 35+50

Manteca
 CITY OF MANTECA
 DEPARTMENT OF ENGINEERING
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 MANTECA, CA 95337
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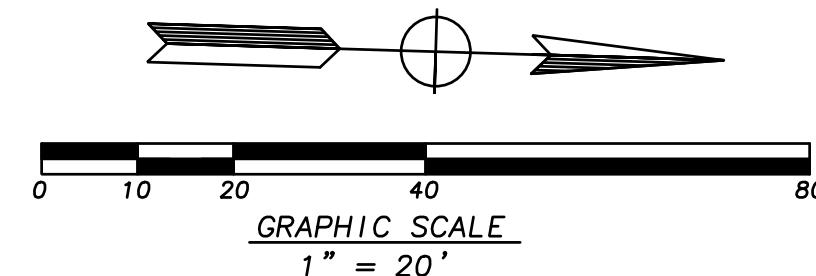
PROFESSIONAL ENGINEER
KYLE HENRY DANA
 No. 95292
 Exp. 12/31/25
 CIVIL
 9/13/24
 DATE
 PROJECT ENGINEER

APPROVED	DANIEL BLOMQUIST	DATE	9/13/24
DESIGNED	KYLE DANA	CIP NO.	20005
DRAWN	JAY YANG	GRID NO.	N/A
NO.	REVISIONS	FILE NO.	HSPL NO. 5242(035)
		APPROVAL	
		BY	
		DATE	

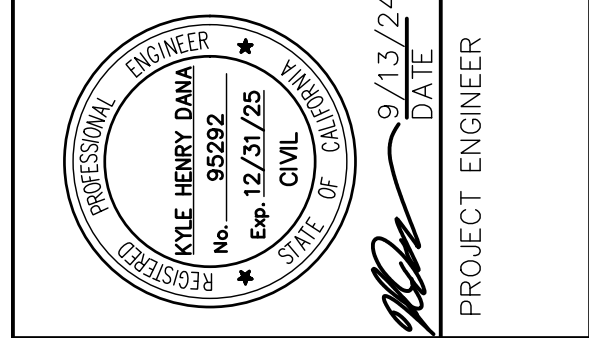
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BID SET



DATE	9/13/24
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DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
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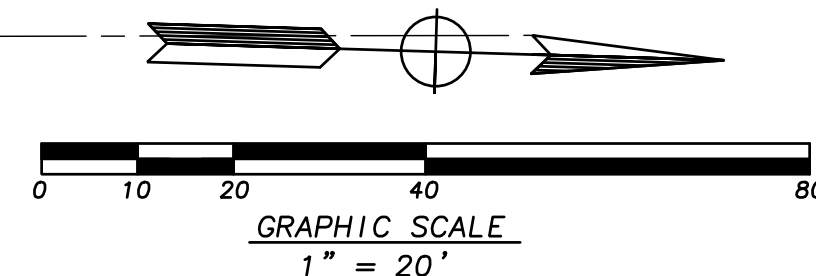
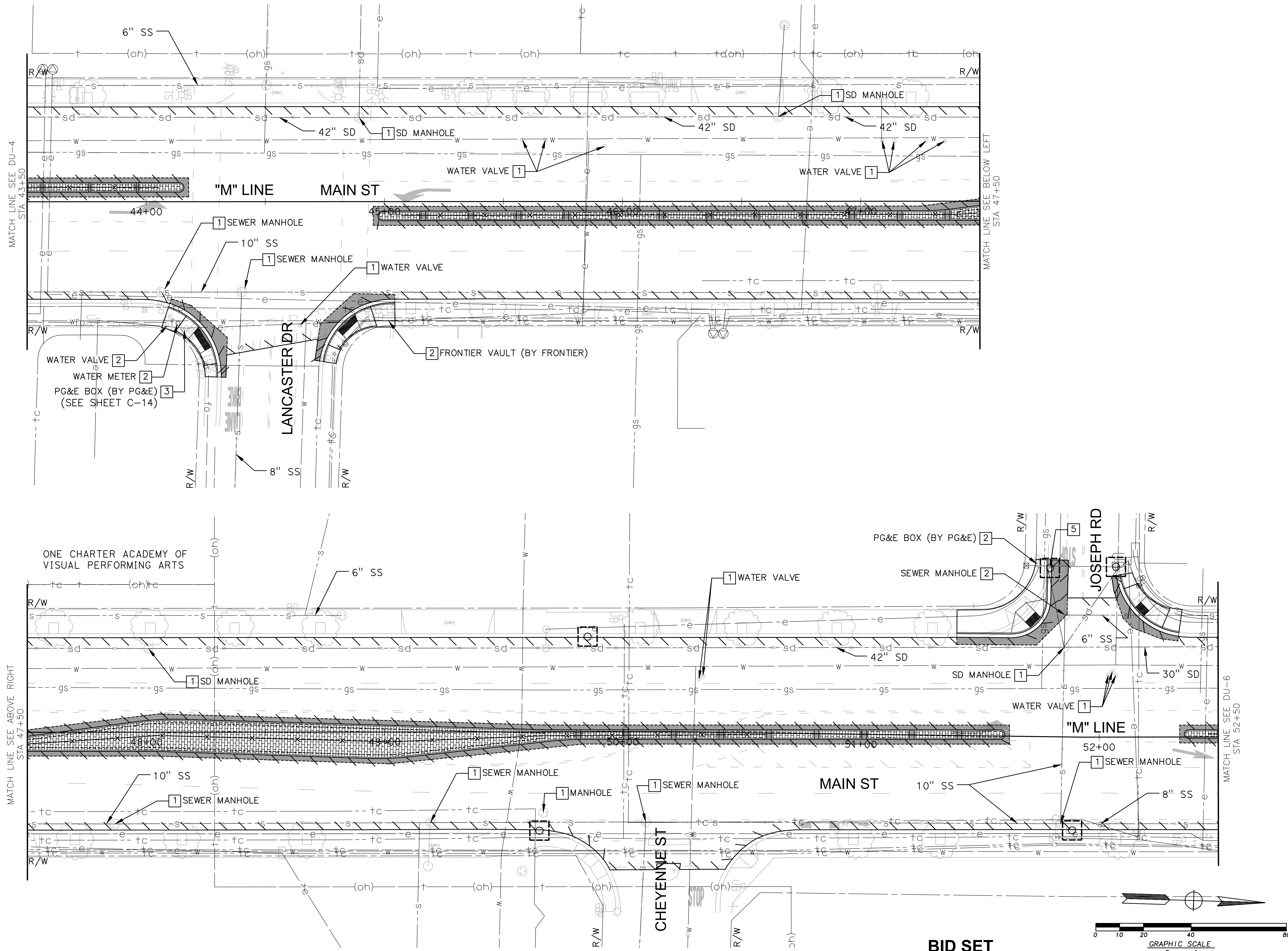


CITY OF MANTECA
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PLANS FOR THE CONSTRUCTION OF
**MAIN ST BIKE AND
 PEDESTRIAN
 IMPROVEMENT PROJECT**
 DRAINAGE AND UTILITY PLAN
 STA 35+50 TO 43+50

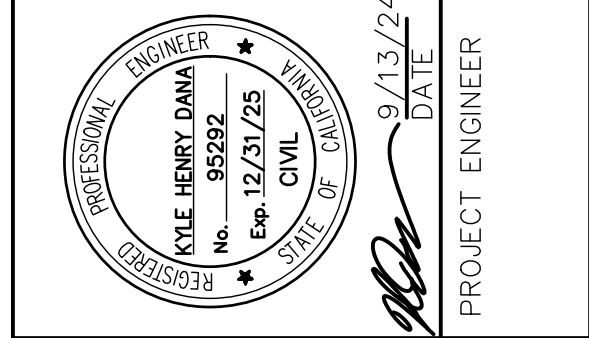
DRAINAGE AND UTILITY PLAN
 DU-4
 SHEET: 31 OF 54
 SCALE AS SHOWN

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BID SET

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DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSPIL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005
DATE	9/13/24
APPROVAL	
BY	

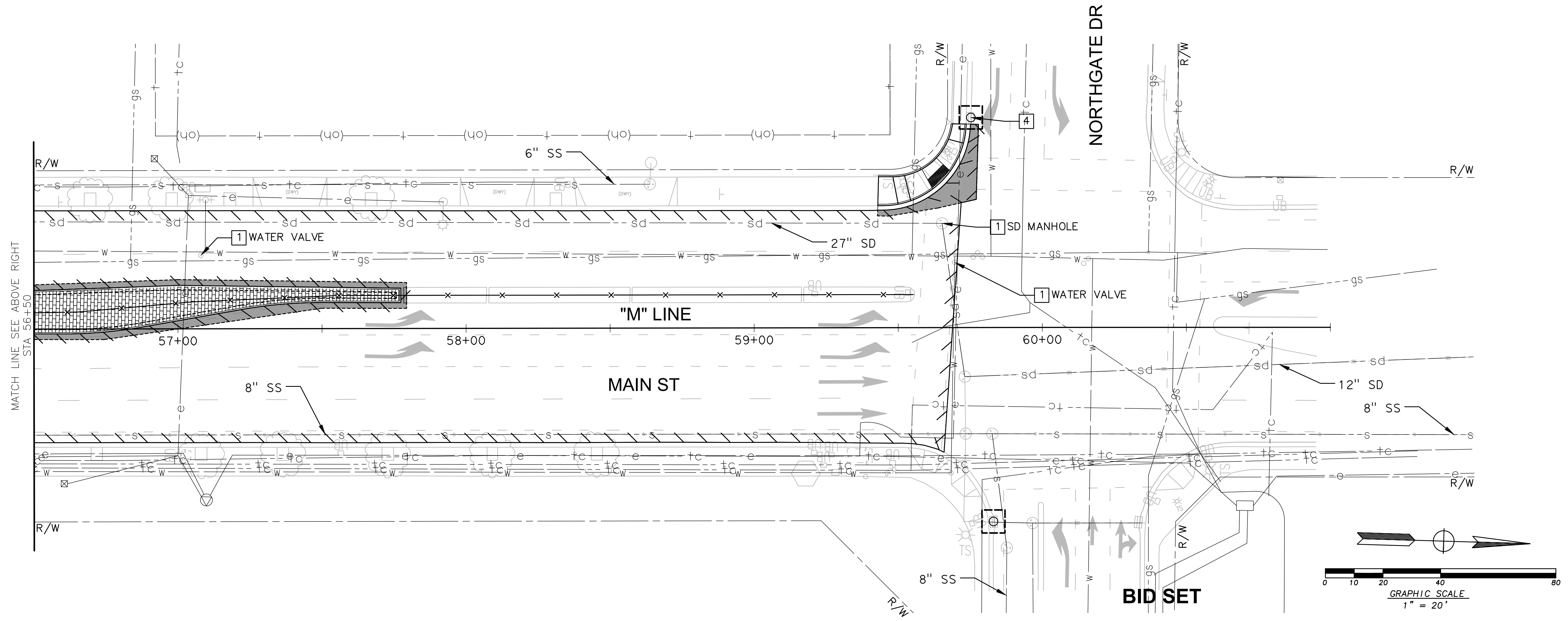
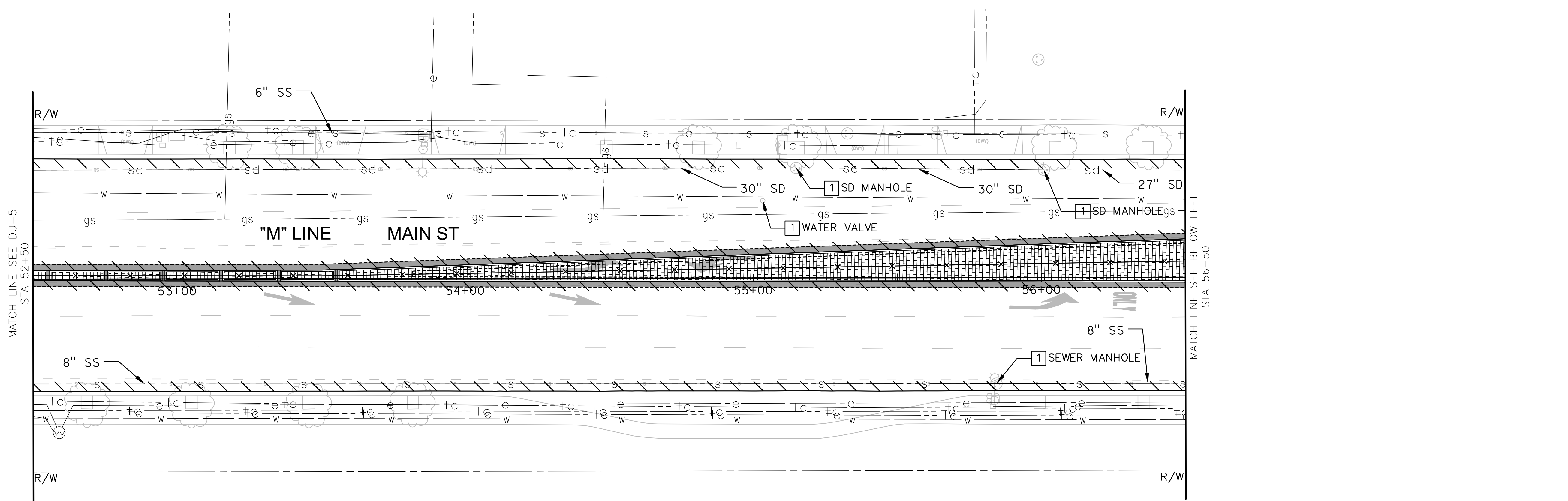


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PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 DRAINAGE AND UTILITY PLAN
 STA 43+50 TO 52+50

DRAINAGE AND UTILITY PLAN
 DU-5
 SHEET: 32 OF 54
 SCALE AS SHOWN

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DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSP/L NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005

PROJECT ENGINEER

CITY OF MANTECA

 DEPARTMENT OF ENGINEERING

 1001 W CENTER ST

 MANTECA, CA 95337

 (209) 456-8460

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 DRAINAGE AND UTILITY PLAN
 STA 52+50 TO 61+50

DRAINAGE AND UTILITY PLAN
DRAWING
DU-6
SHEET: 33 OF 54
SCALE AS SHOWN



KEY NOTES (SHEET CS-01):

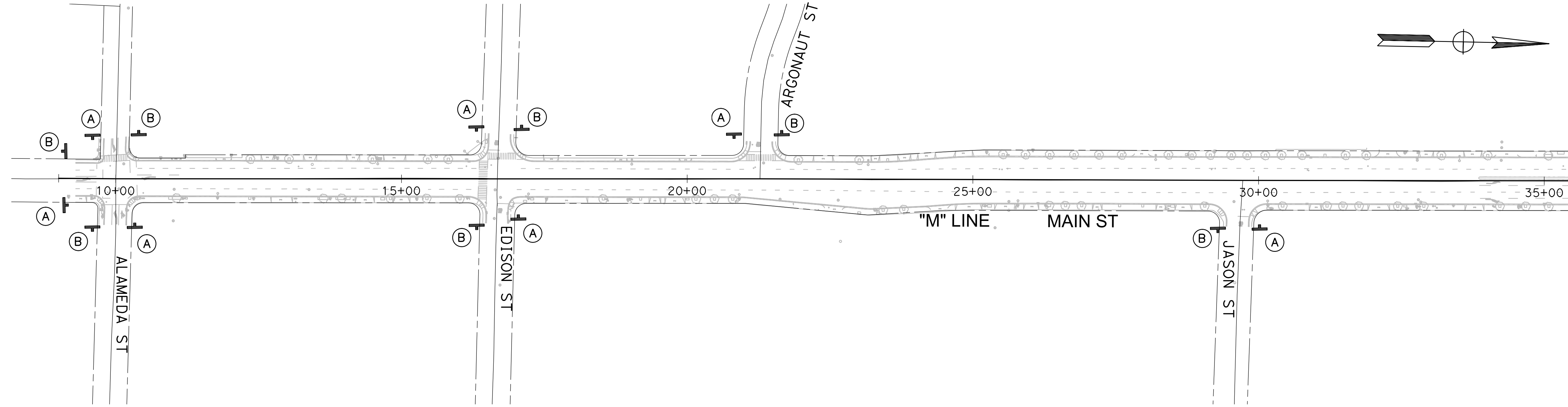
- ① EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
- ② ALL EXIST SIGNS IN CONFLICT WITH STAGE CONSTRUCTION PLANS SHALL BE COVERED OR REMOVED UNDER THE DIRECTION OF THE ENGINEER.
- ③ FOR ALL CONSTRUCTION AREA SIGNS REFER TO LATEST EDITION OF CA MUTCD.

CONSTRUCTION AREA SIGNS (STATION MOUNTED) QUANTITIES

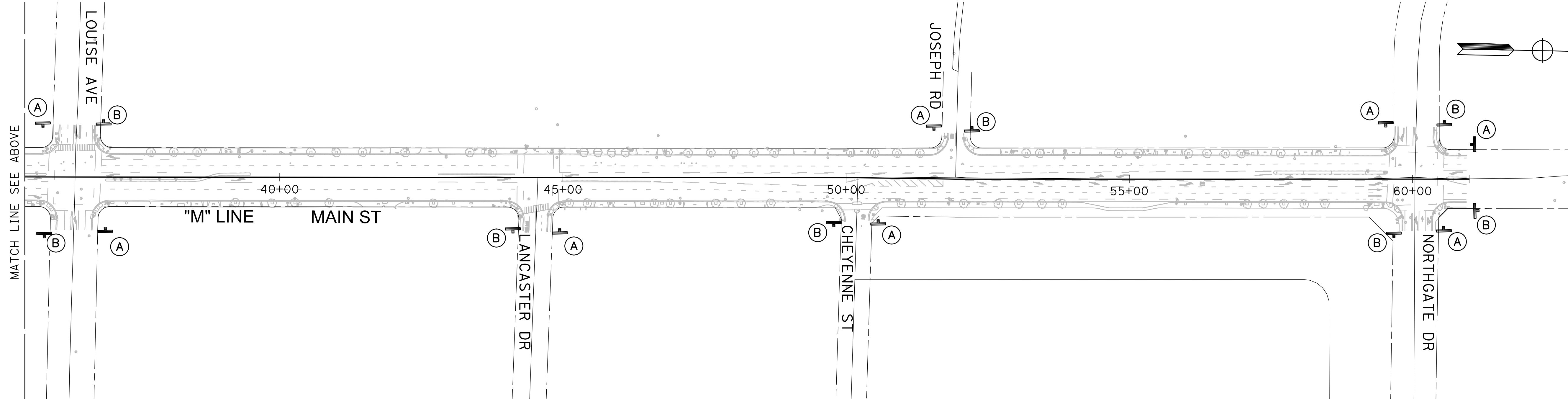
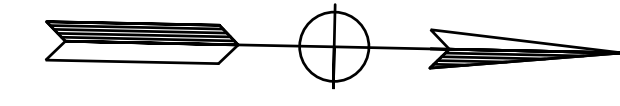
PLAN SHEET	SIGN No.	MUTCD SIGN CODE	PANEL SIZE (IN X IN)	SIGN MESSAGE	NUMBER AND SIZE OF POSTS (EA - IN X IN)	No. OF SIGNS (EA)
CS-1	A	W20-1	36 X 36	ROAD WORK AHEAD	1 - 4 X 6	15
	B	G20-2	36 X 36	END ROAD WORK	1 - 4 X 6	15

LEGEND:

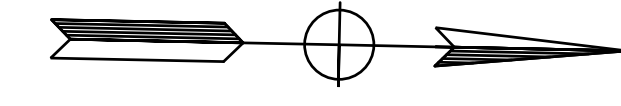
-  CONSTRUCTION AREA SIGN (ONE POST)
-  CONSTRUCTION AREA SIGN No.



MATCH LINE SEE BELOW



MATCH LINE SEE ABOVE



BID SET

DATE	9/13/24
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GRID NO.	N/A
CIP NO.	20005
DATE	9/13/24

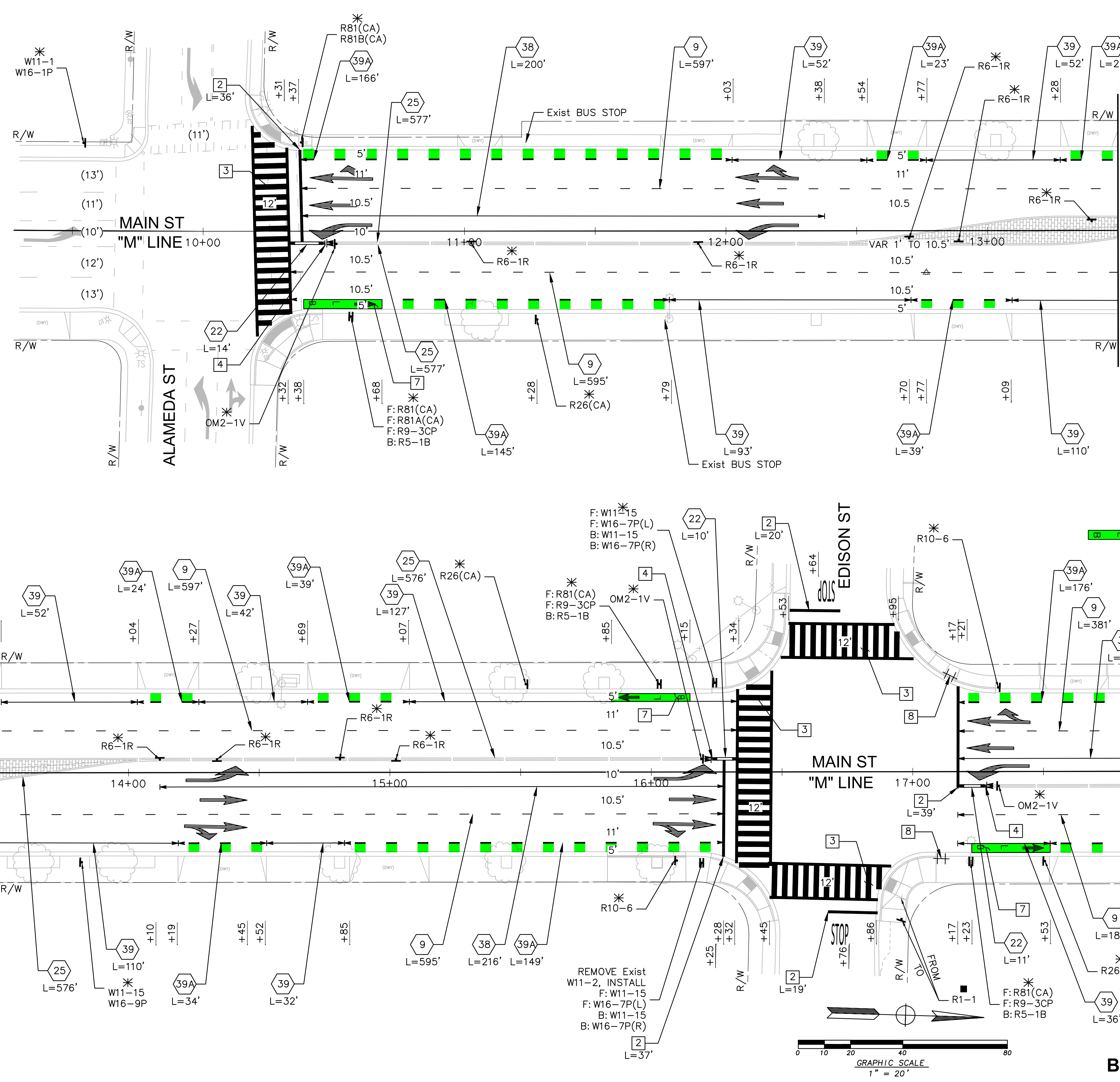
PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
CONSTRUCTION AREA SIGNS

CONSTRUCTION AREA SIGNS
DRAWING
CS-1
SHEET: 34 OF 54
SCALE
1" = 100'

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KEY NOTES

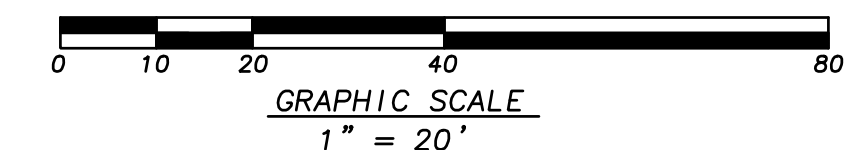
- ① FOR ACCURATE CITY RIGHT OF WAY DATA, CONTACT CITY OF MANTECA.
- ② ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CITY OF MANTECA STANDARD PLANS AND SPECIFICATIONS AND THE LATEST EDITION OF THE 2014 CA MUTCD SIGN SPECIFICATIONS AND THE SPECIAL PROVISIONS AND 2023 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
- ③ ALL FINAL STRIPING SHALL BE APPLIED PER CITY OF MANTECA STANDARDS AND 2023 CALTRANS STANDARDS. STRIPING SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATIONS OF SPRAYABLE THERMOPLASTIC/MARKERS. CONTRACTOR SHALL NOTIFY CITY TRAFFIC ENGINEER NO LATER THAN TWO WORKING DAYS PRIOR TO THE FINAL APPLICATION.
- ④ ALL CROSSWALKS, LIMIT LINES AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- ⑤ EXACT LOCATIONS AND POSITIONS OF ROADSIDE SIGNS SHALL BE CONFIRMED IN THE FIELD BY THE ENGINEER.
- ⑥ ALL OUTSIDE LANE DIMENSIONS ARE MEASURED FROM TOP FACE OF CURB.
- ⑦ CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING STRIPING AND PAVEMENT MARKINGS THAT CONFLICTS WITH NEW STRIPING AND PAVEMENT MARKINGS.
- ⑧ ALL NON-MAST ARM SIGNS SHALL BE COVERED WITH AN ANTI-GRAFFITI FILM USING A 3M SERIES 1160 PS PROTECTIVE FILM OR NIKKALITE SEAL TRANSPARENT PS PROTECTIVE FILM OR APPROVED EQUAL. SIGN THICKNESS MUST BE MIN 0.08' AND TYPE XI RETROREFLECTIVITY ASTM.
- ⑨ EXISTING SIGNS NOT SHOWN ARE TO REMAIN.

LEGEND

- * INSTALL ROADSIDE SIGN
- REMOVE SIGN
- ⊥ ROADSIDE SIGN LOCATION (SSBM)
- RELOCATE SIGN
- ⊥ ROADSIDE SIGN LOCATION (ONE-POST)
- LIMIT LINE
- H DOUBLE-SIDED ROADSIDE SIGN LOCATION (ONE-POST)
- ⊕ PEDESTRIAN BARRICADE
- BC/EC
- △ ANGLE POINT
- ⊕ STOP PAVEMENT MARKING
- ➡ TYPE II (R) ARROW MARKING
- ➡ TYPE I (18') ARROW PAVEMENT MARKING
- ➡ TYPE III (L) ARROW MARKING
- ➡ TYPE III (R) ARROW MARKING
- ➡ ONLY PAVEMENT MARKING
- ➡ ONLY PAVEMENT MARKING

CONSTRUCTION NOTES

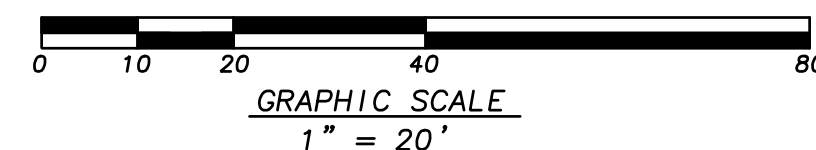
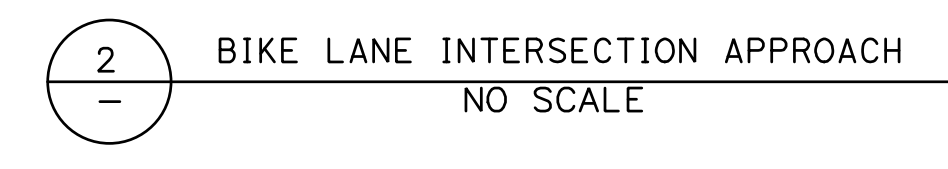
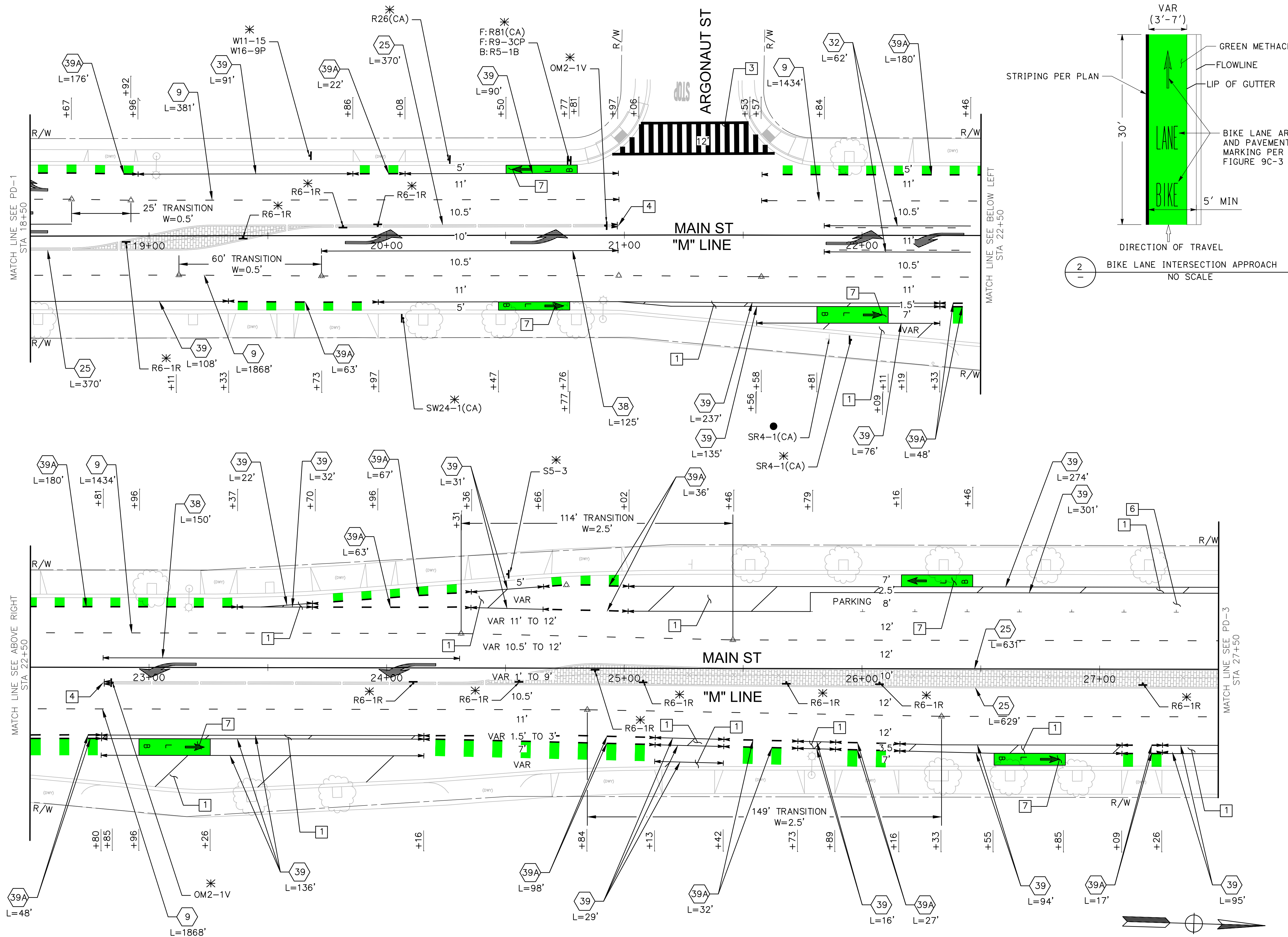
- 1 INSTALL 8" WHITE LINE DIAGONAL HATCHING (45°, 30' O.C.)
- 2 INSTALL THERMOPLASTIC 12-INCH WIDE LIMIT LINE PER CALTRANS STD. PLAN NO. A24G.
- 3 INSTALL LADDER CROSSWALK PAVEMENT MARKING PER CALTRANS STD. PLAN NO. A24F.
- 4 PAINT MEDIAN NOSE WITH REFLECTIVE YELLOW PAINT (TYP).
- 5 PAINT CURB RED (2-COAT).
- 6 PARALLEL PARKING PER DETAIL 1, PD-3.
- 7 BIKE LANE INTERSECTION APPROACH PER DETAIL 2, PD-2.
- 8 INSTALL TYPE I PEDESTRIAN BARRICADE WITH R49(CA) PER CALTRANS STD. PLAN NO. ES7Q.



BID SET

	DATE	9/13/24	CIP NO.	20005	APPROVAL	
	DESIGNED	DANIEL BLOMQUIST	GRID NO.	N/A	FILE NO.	HSPL NO. 5242(035)
	DRAWN	JAY YANG	NO.		REVISIONS	
		CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460				
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT PAVEMENT DELINEATION AND SIGN PLAN STA 9+00 TO 18+50						
PAVEMENT DELINEATION AND SIGN PLAN DRAWING PD-1 SHEET: 35 OF 54 SCALE AS SHOWN						

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BID SET

APPROVED	DANIEL BLOMQUIST	DATE	9/13/24
DESIGNED	KYLE DANA	CIP NO.	20005
DRAWN	JAY YANG	GRID NO.	N/A
NO.	REVISIONS	FILE NO.	HSPL NO. 5242(035)
BY		APPROVAL	DATE

PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95892
 Exp. 12/31/25
 CIVIL

9/13/24
 DATE

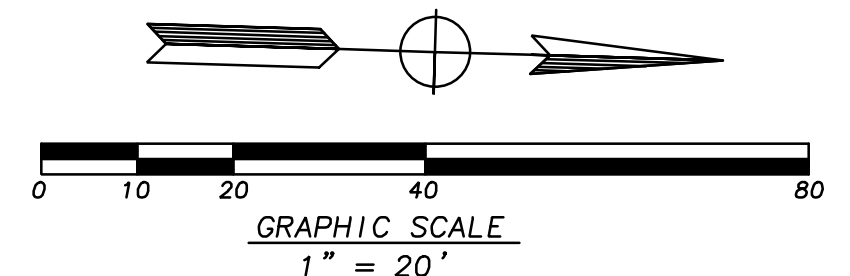
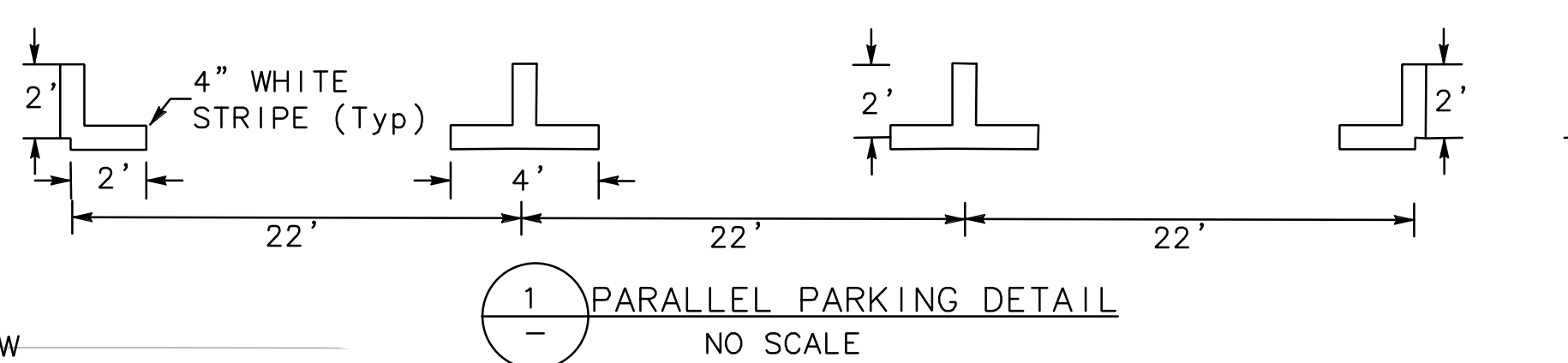
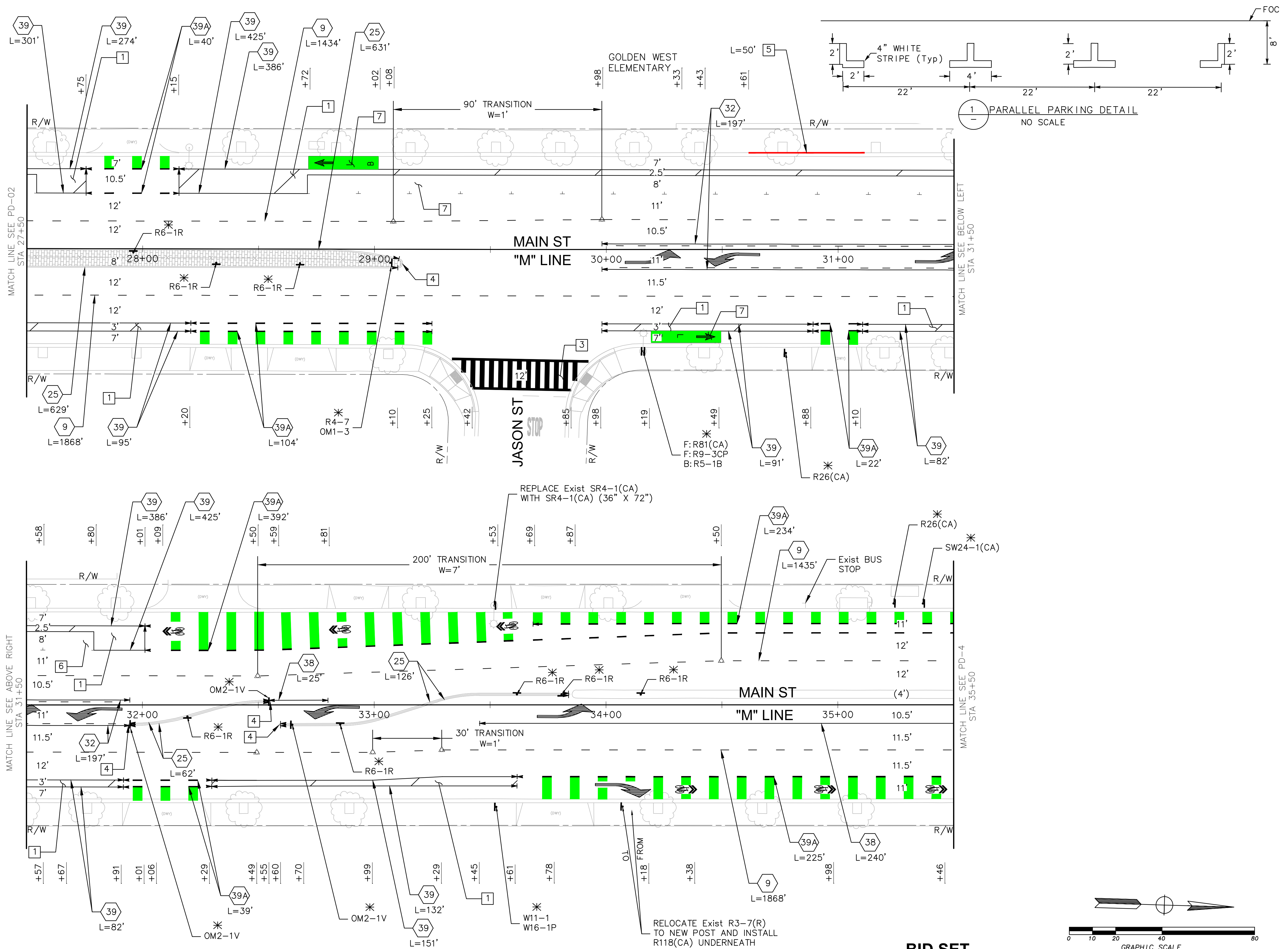
PROJECT ENGINEER

City of Manteca
 DEPARTMENT OF ENGINEERING
 1001 W CENTER ST
 MANTECA, CA 95337
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PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 PAVEMENT DELINEATION AND SIGN PLAN
 STA 18+50 TO 27+50

PAVEMENT DELINEATION AND SIGN PLAN	DRAWING
PD-2	SHEET: 36 OF 54
SCALE	AS SHOWN

J:\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-06-PD-01-PD-06.dwg Sep 10, 2024 - 8:26am



BID SET

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REVISIONS	
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GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVAL DATE	

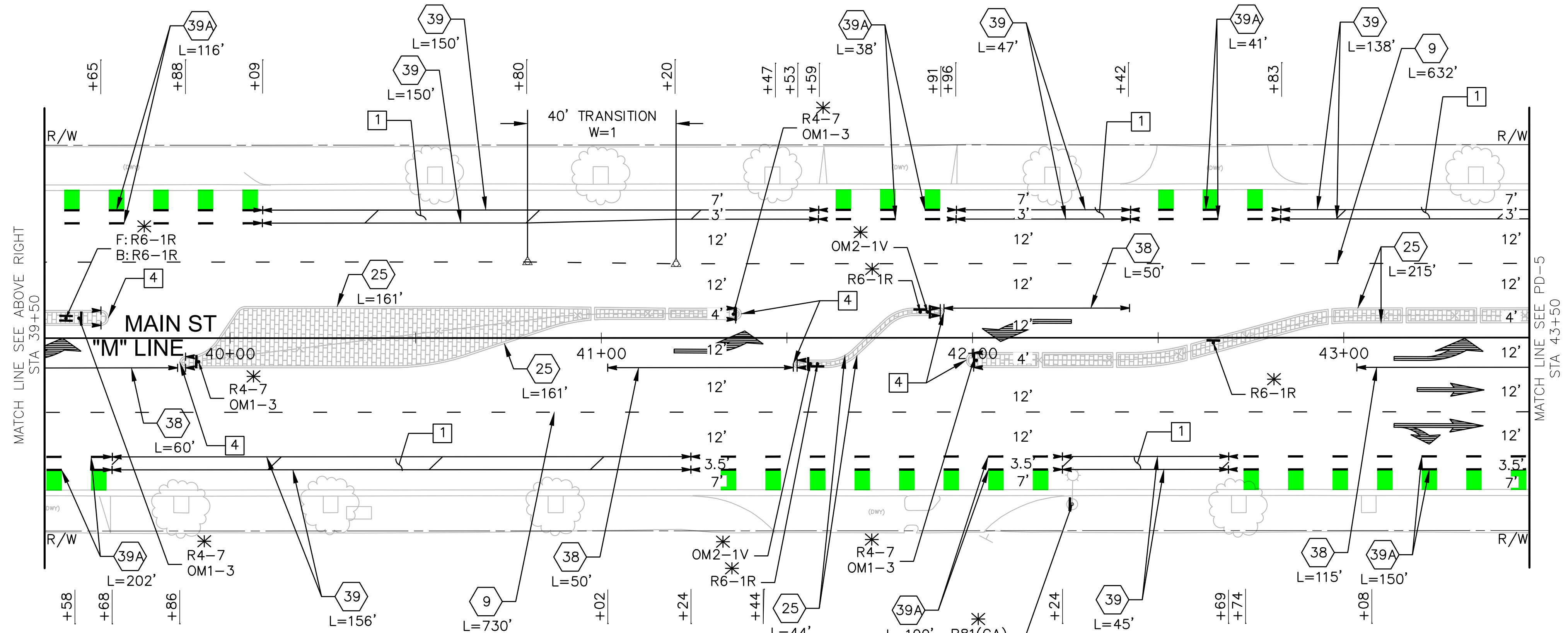
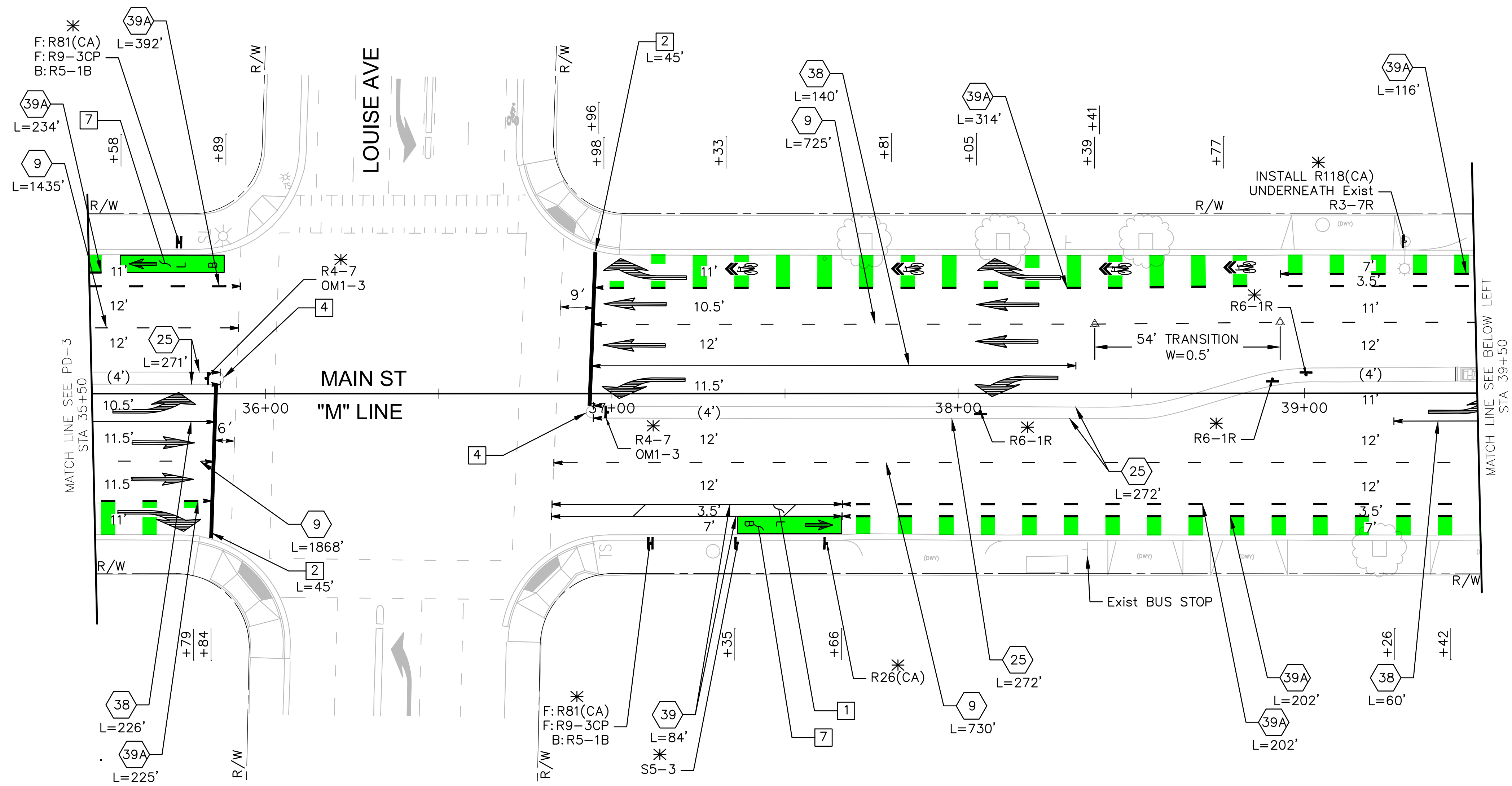
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95992
 Exp. 12/31/25
 CIVIL
 STATE OF CALIFORNIA

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

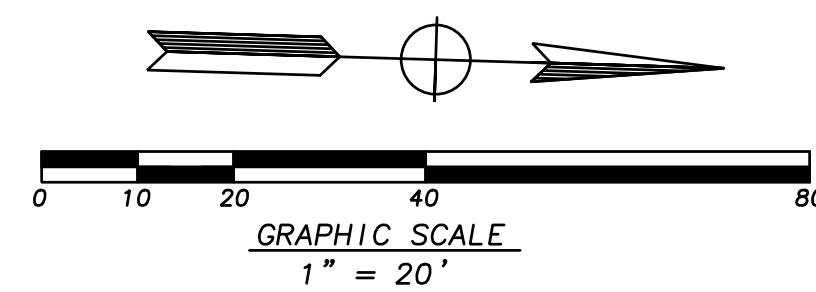
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 PAVEMENT DELINEATION AND SIGN PLAN
 STA 27+50 TO 35+50

PAVEMENT DELINEATION AND SIGN PLAN
DRAWING
PD-3
SHEET: 37 OF 54
SCALE AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\MMS-06-PD-01-PD-06.dwg Sep 09, 2024 - 3:02pm



BID SET



DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	
REVISIONS	
FILE NO.	HSIPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005
DATE	9/13/24

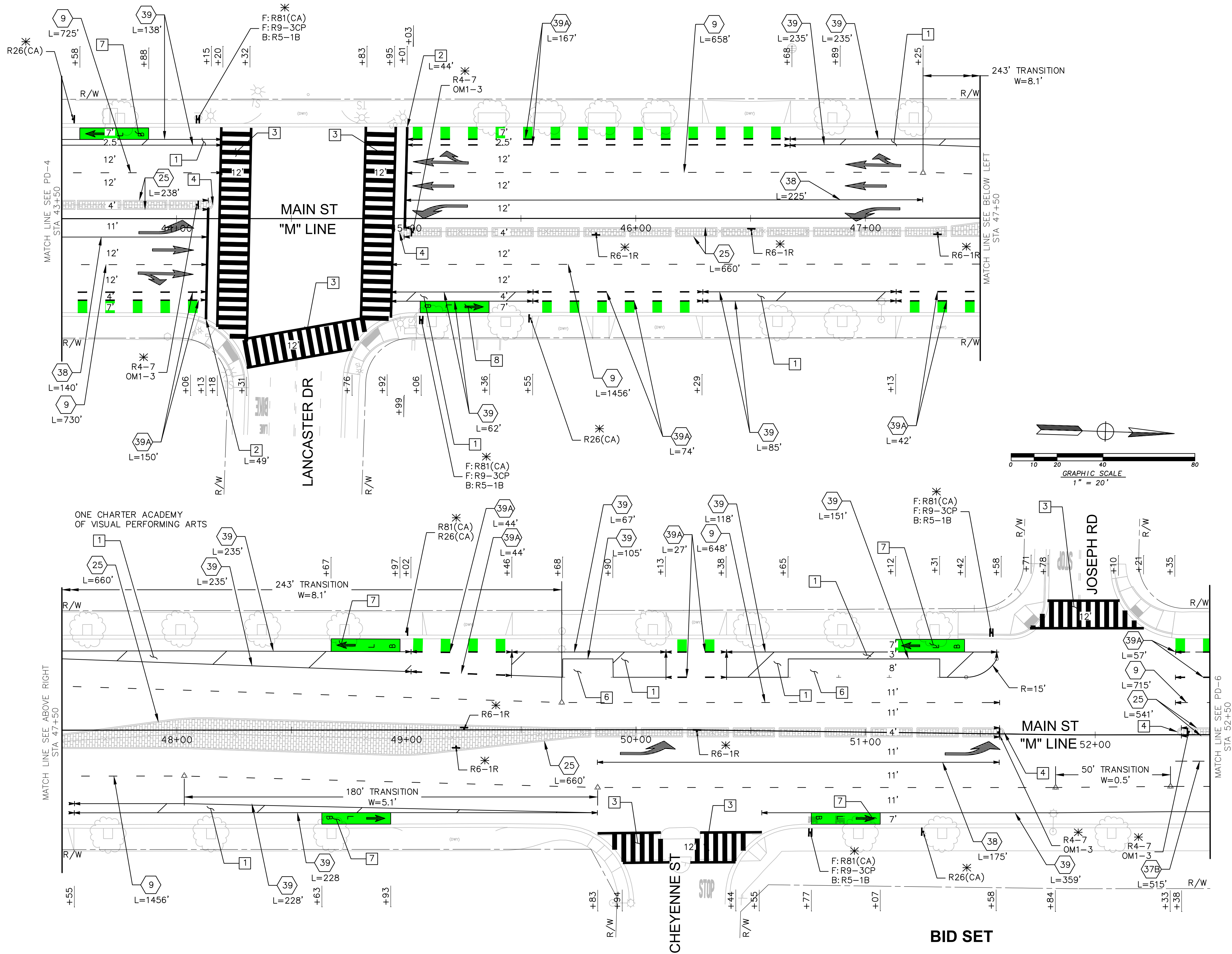
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95992
 Exp. 12/31/25
 CIVIL
 9/13/24
 DATE
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 PAVEMENT DELINEATION AND SIGN PLAN
 STA 35+50 TO 43+50

PAVEMENT DELINEATION AND SIGN PLAN
DRAWING PD-4
SHEET: 38 OF 54
SCALE AS SHOWN

\\markthomas.com\mfs\projects\Manteca-23-00183-Main St Bike Ped Improvements\CADD\Sheets\WMS-06-PD-01-PD-06.dwg Sep 09, 2024 - 3:02pm



BID SET

DATE	9/13/24
APPROVED	DANIEL BLOMQUIST
DESIGNED	KYLE DANA
DRAWN	JAY YANG
NO.	REVISIONS
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSIPL NO. 5242(035)
APPROVAL	DATE
BY	

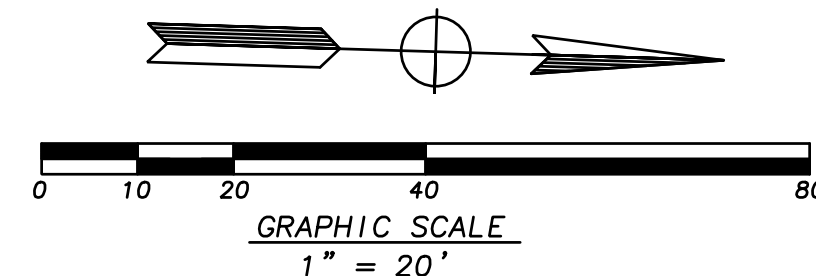
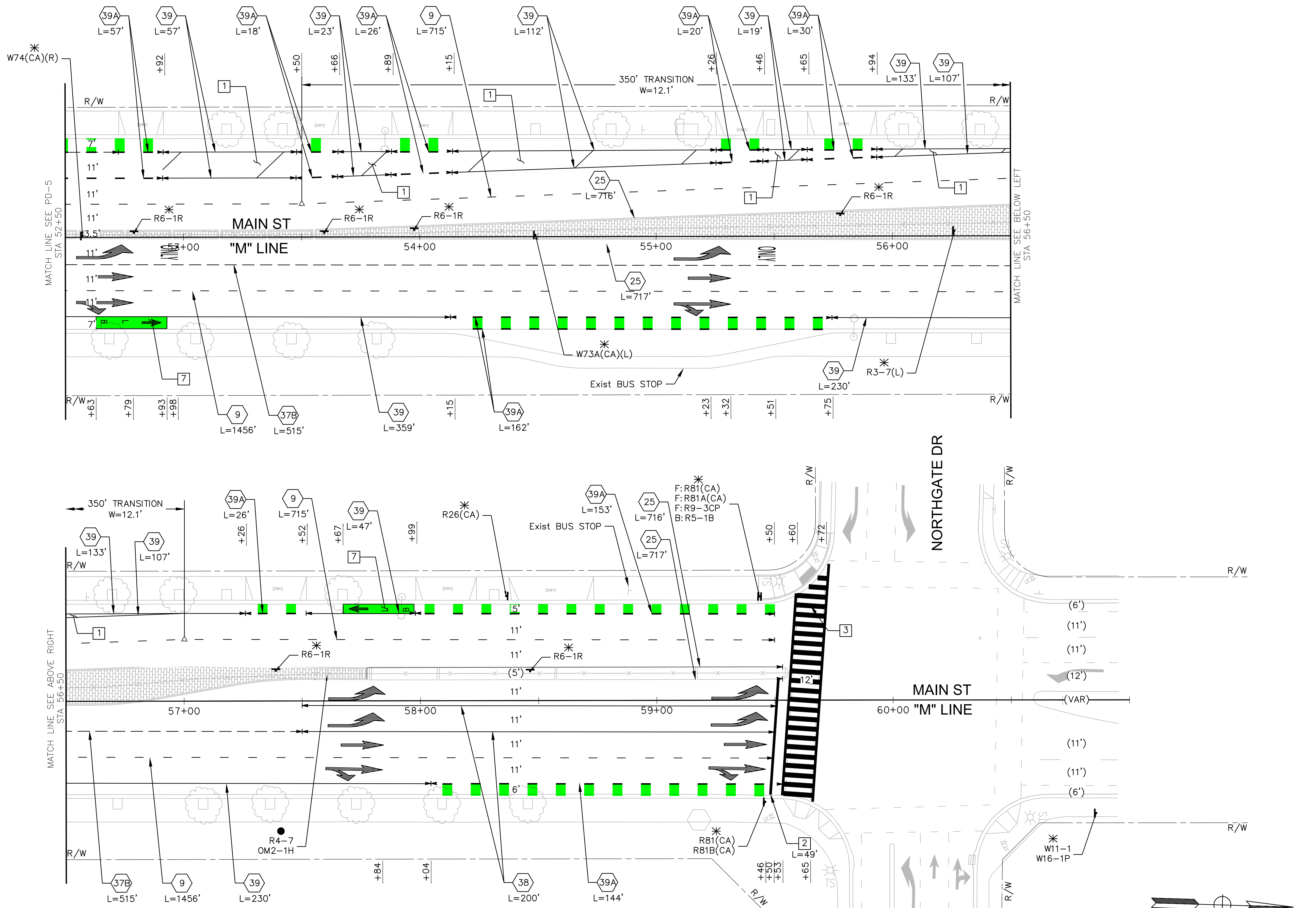
PROFESSIONAL ENGINEER
 KYLE HENRY DANA
 No. 95929
 Exp. 12/31/25
 CIVIL
 9/13/24
 DATE
 PROJECT ENGINEER

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


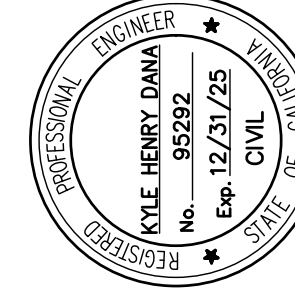
PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
 PAVEMENT DELINEATION AND SIGN PLAN
 STA 43+50 TO 52+50

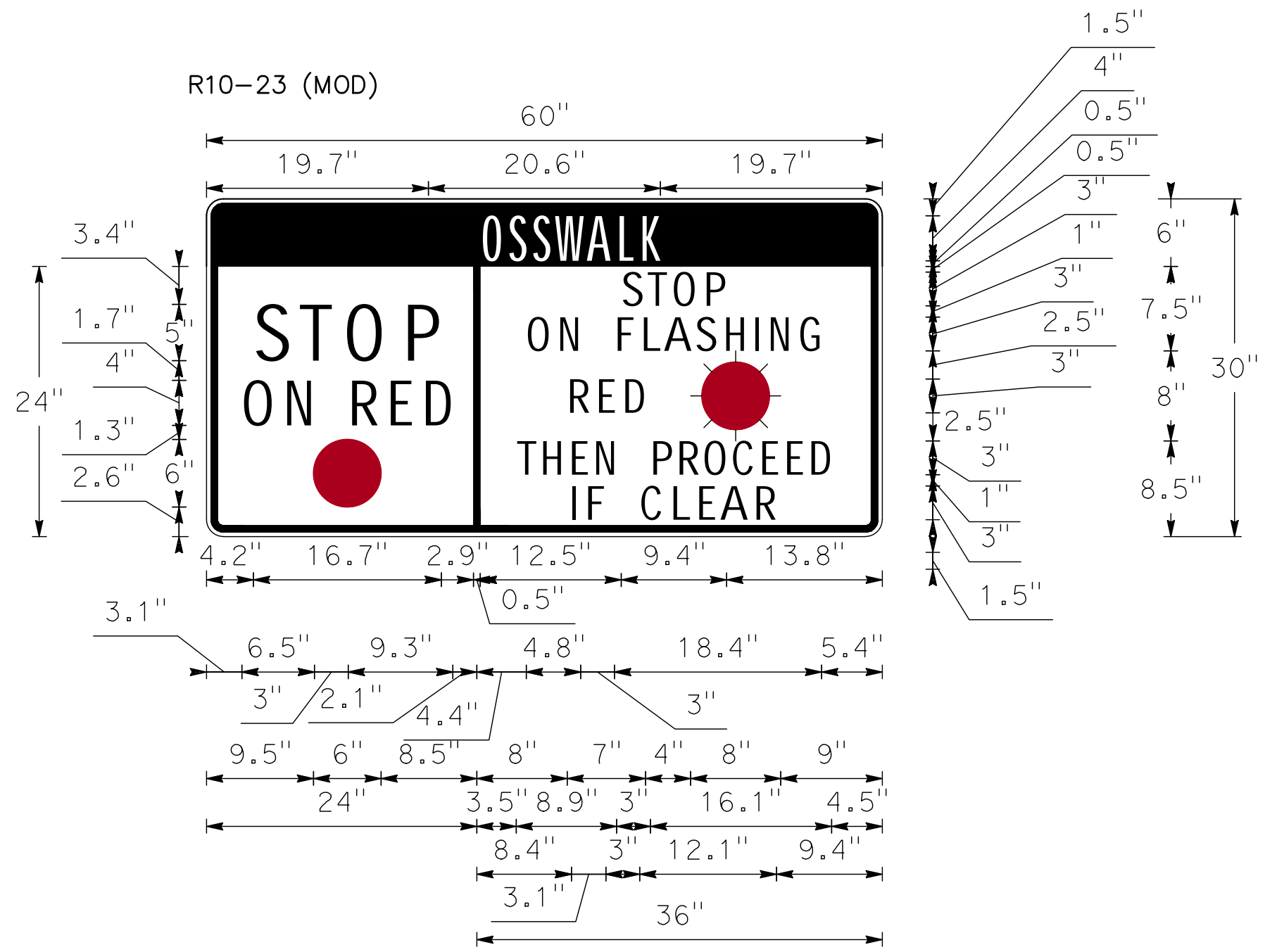
PAVEMENT DELINEATION AND SIGN PLAN
DRAWING
PD-5
SHEET: 39 OF 54
SCALE AS SHOWN

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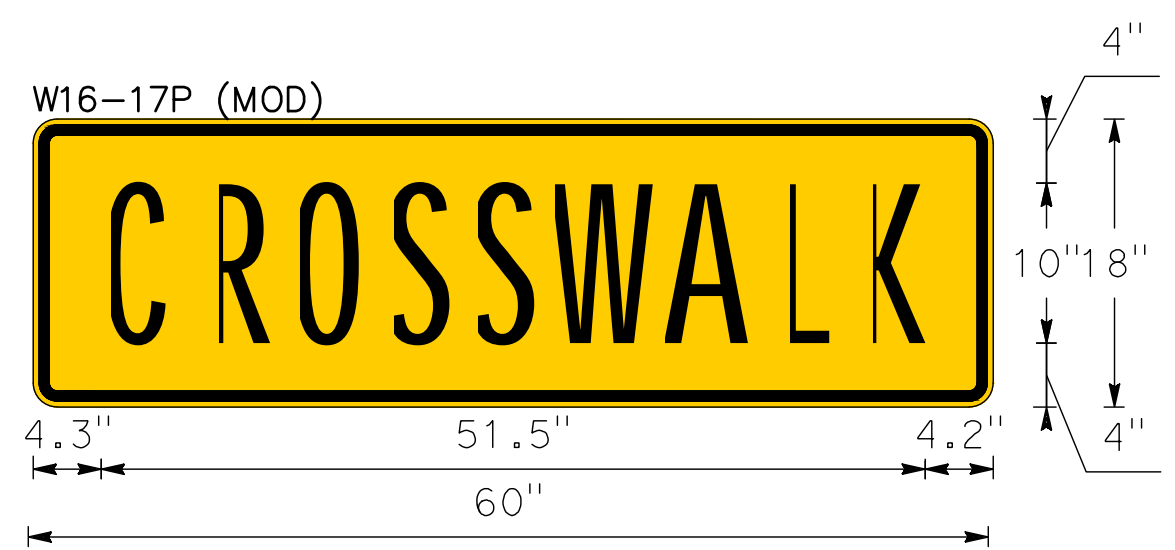


BID SET

PAVEMENT DELINEATION AND SIGN PLAN DRAWING PD-6 SHEET: 40 OF 54 SCALE AS SHOWN	PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT PAVEMENT DELINEATION AND SIGN PLAN STA 52+50 TO 61+50		 CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	 PROFESSIONAL ENGINEER KYLE HENRY DANA No. 95892 Exp. 12/31/25 CIVIL PROJECT ENGINEER	APPROVED: DANIEL BLOMQUIST DATE: 9/13/24	DATE: 9/13/24
	DESIGNED: KYLE DANA GRID NO.: 20005	FILE NO.: HSPL NO. 5242(035)			CIP NO.: 20005	
	DRAWN: JAY YANG REVISIONS:	APPROVAL:			N/A	




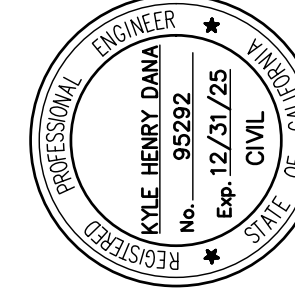
0.6" INNER BORDER BLACK, 1.5" RADIUS, 0.4" OUTER BORDER, WHITE ON, BLACK; "CROSSWALK", B 2K;
 1.5" RADIUS, 0.6" BORDER, 0.4" INDENT, BLACK ON, WHITE; "STOP", D 2K SPECIFIED LENGTH; "ON", D 2K SPECIFIED LENGTH; "RED", D 2K SPECIFIED LENGTH, VERTICAL LINE BLACK;
 1.5" RADIUS, 0.6" BORDER, 0.4" INDENT, BLACK ON, WHITE; "STOP", D 2K SPECIFIED LENGTH; "ON FLASHING", D 2K SPECIFIED LENGTH; "RED", D 2K; "THEN PROCEED", D 2K SPECIFIED LENGTH; "IF CLEAR", D 2K SPECIFIED LENGTH;



1.5" RADIUS, 0.6" BORDER, 0.4" INDENT, BLACK ON, YELLOW; "CROSSWALK", B 2K;

BID SET

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PAVEMENT DELINEATION AND SIGN PLAN	DRAWING PD-7	SHEET: 41 OF 54	SCALE NO SCALE	PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT	 CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	 PROFESSIONAL ENGINEER KYLE HENRY DANA No. 95892 Exp. 12/31/25 CIVIL	APPROVED 9/13/24	DATE 9/13/24
							DESIGNED DANIEL BLOMQUIST	CIP NO. 20005
							DESIGNED KYLE DANA	GRID NO. N/A
							DRAWN JAY YANG	FILE NO. HSIPL NO. 5242(036)
							NO. REVISIONS	APPROVAL BY DATE

ROADSIDE SIGN QUANTITIES

SIGN DESIGNATION	DESCRIPTION	PANEL SIZE (W X D)	PANEL AREA	No. OF SIGNS	BACKGROUND		LEGEND		PROTECTIVE OVERLAY PREMIUM	ROADSIDE SIGN	INSTALL SIGN	INSTALL SIGN (SSBM)	RELOCATE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN AND POST	REMOVE ROADSIDE SIGN	REMOVE ROADSIDE SIGN (SSBM)	REMOVE ROADSIDE SIGN AND POST	FURNISH SINGLE SHEET ALUMINUM SIGN	COMMENTS
					ONE POST	UNFRAMED													
		INCHES	SQFT		SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SQFT		
R1-1	STOP SIGN	30 X 30	6.3	1	RED	XI	WHITE	XI	X	0	0	0	0	1	0	0	0	0.0	PD-1
R26(CA)	NO PARKING ANY TIME	12 X 18	1.5	12	WHITE	IX	RED	XI	X	11	12	0	0	0	0	0	0	18.0	PD-1 TO PD-6
R3-7(R)	RIGHT LANE MUST TURN RIGHT	36 X 36	9.0	1	WHITE	IX	BLACK	-	X	1	0	0	1	0	0	0	0	0.0	PD-3
R3-7(L)	LEFT LANE MUST TURN LEFT	36 X 36	9.0	1	WHITE	IX	BLACK	-	X	1	1	0	0	0	0	0	0	9.0	PD-6
R4-7	KEEP RIGHT	24 X 30	5.0	11	WHITE	IX	BLACK	-	X	11	11	0	0	0	0	0	1	55.0	PD-3 TO PD-6
R49(CA)	NO PED CROSSING, USE CROSSWALK	42 X 18	5.3	2	WHITE	IX	BLACK	-	X	0	2	0	0	0	0	0	0	10.5	PD-1
R5-1B	WRONG WAY BIKE	42 X 30	8.8	12	RED	XI	WHITE	XI	X	0	10	2	0	0	0	0	0	105.0	PD-1 TO PD5
R6-1R	ONE WAY	36 X 12	3.0	50	WHITE	IX	BLACK	-	X	49	50	0	0	0	0	0	0	150.0	PD-1 TO PD-6
R81(CA)	BIKE LANE	12 X 8	0.7	16	WHITE	IX	BLACK	-	X	13	13	3	0	0	0	0	0	10.7	PD-1 TO PD-6
R81A(CA)	BEGIN	12 X 5	0.4	2	WHITE	IX	BLACK	-	X	0	2	0	0	0	0	0	0	0.8	PD-1/PD-6
R81B(CA)	END	8 X 5	0.3	2	WHITE	IX	BLACK	-	X	0	2	0	0	0	0	0	0	0.6	PD-1/PD-6
R9-3CP	RIDE WITH TRAFFIC	12 X 12	1.0	12	WHITE	IX	BLACK	-	X	0	10	2	0	0	0	0	0	12.0	PD-1 TO PD-6
R10-6	STOP HERE ON RED	24 X 36	6.0	2	WHITE	IX	BLACK	-	X	2	2	0	0	0	0	0	0	12.0	PD-1
R118(CA)	EXCEPT BICYCLE	18 X 15	1.9	2	WHITE	IX	BLACK	-	X	0	1	1	0	0	0	0	0	3.8	PD-3/PD-4
SR4-1(CA)	SCHOOL SPEED LIMIT ASSEMBLY C (CA)	36 X 72	18.0	4	WHITE	IX	BLACK	-	X	1	1	1	0	0	0	1	1	36.0	PD-2/PD-3
SW24-1(CA)	SCHOOL WARNING ASSEMBLY A (CA)	36 X 48	12.0	2	YELLOW	XI	BLACK	-	X	2	2	0	0	0	0	0	0	24.0	PD-2/PD-3
S5-3	END SCHOOL LIMIT	24 X 30	5.0	2	WHITE	IX	BLACK	-	X	2	2	0	0	0	0	0	0	10.0	PD-2/PD-4
W11-1	BICYCLE WARNING	30 X 30	6.3	3	YELLOW	XI	BLACK	-	X	3	3	0	0	0	0	0	0	18.8	PD-1/PD-3/PD-6
W11-2	PEDESTRIAN CROSSING	36 X 36	9.0	1	YELLOW	XI	BLACK	-	X	0	0	0	0	0	1	0	0	0.0	PD-1
W11-15	BICYCLE/PEDESTRIAN	36 X 36	9.0	5	YELLOW	XI	BLACK	-	X	3	6	0	0	0	0	0	0	54.0	PD-1/PD-2
W16-1P	SHARE THE ROAD (PLAQUE)	18 X 24	3.0	3	YELLOW	XI	BLACK	-	X	0	3	0	0	0	0	0	0	9.0	PD-1/PD-3/PD-6
W16-7P(L)	DIAGONAL ARROW (LEFT)	24 X 12	2.0	1	YELLOW	XI	BLACK	-	X	0	2	0	0	0	0	0	0	4.0	PD-1
W16-7P(R)	DIAGONAL ARROW (RIGHT)	24 X 12	2.0	2	YELLOW	XI	BLACK	-	X	0	2	0	0	0	0	0	0	4.0	PD-1
W16-9P	AHEAD (PLAQUE)	24 X 12	2.0	2	YELLOW	XI	BLACK	-	X	0	2	0	0	0	0	0	0	4.0	PD-1/PD-2
W73A(CA)(L)	LEFT LANE TURNS LEFT AHEAD	36 X 36	9.0	1	YELLOW	XI	BLACK	-	X	1	1	0	0	0	0	0	0	9.0	PD-6
W74(CA)(R)	THRU TRAFFIC MERGE RIGHT	36 X 36	9.0	1	YELLOW	XI	BLACK	-	X	1	1	0	0	0	0	0	0	9.0	PD-6
TOTAL										101	141	9	1	1	1	1	2	569.1	

BID SET

DATE: 9/13/24 CIP NO.: 20005 GRID NO.: N/A FILE NO.: HSPL NO. 5242(035)	APPROVED: DANIEL BLOMQUIST DESIGNED: KYLE DANA DRAWN: JAY YANG NO. REVISIONS	DATE: 9/13/24 PROJECT ENGINEER:	PROFESSIONAL ENGINEER KYLE HENRY DANA No. 95892 Exp. 12/31/25 CIVIL ENGINEER	CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT	PAVEMENT DELINEATION AND SIGN PLAN DRAWING PD-8 SHEET: 42 OF 54 SCALE AS SHOWN
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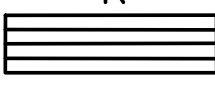

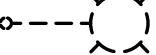
GENERAL NOTES: (FOR ELECTRICAL WORK ONLY)

- ALL ELECTRICAL WORK SHALL CONFORM TO THE CITY OF MENTECA STANDARD DRAWINGS AND SPECIFICATIONS, AND 2023 CALTRANS STANDARD SPECIFICATIONS AND PLANS AND SUBSEQUENT REVISED STANDARD PLANS, THE TECHNICAL SPECIFICATIONS, AND CALTRANS TEES SPECIFICATIONS.
- IN CASE OF DIFFERENCES BETWEEN CITY AND CALTRANS STANDARDS, CITY STANDARDS SHALL GOVERN.
- UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (U.S.A.) 811 AT LEAST 48 HOURS PRIOR TO ALL EXCAVATION WORK.
- ALL PULL BOXES SHALL BE No. 6 UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL ELECTRICAL EQUIPMENT INCLUDING CONDUITS AND PULL BOXES ARE SHOWN AT APPROXIMATE LOCATIONS ONLY, AND MINOR CHANGES MAY BE MADE IN THE FIELD AS DIRECTED BY THE ENGINEER.
- ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN, UNLESS OTHERWISE NOTED. IF DAMAGED BY THE CONTRACTOR'S OPERATION, EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL VERIFY ALL RIGHT OF WAY AND EASEMENT INFORMATION PRIOR TO CONSTRUCTION.
- ALL PULL BOXES SHALL BE LOCATED IN THE SIDEWALK WHERE APPLICABLE AND SHALL NOT BE INSTALLED WITHIN ADA TACTILE STRIP, RAMPS, OR LANDINGS.
- E PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
- ALL NEW PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE.
- APS SHALL BE POLARA MODEL IDS3-CA (3-WIRE SYSTEM) WITH IDETECT TOUCHLESS TYPE AND R10-3e (CA) 9" X 15" SIGN OR APPROVED EQUAL. A MANUFACTURER'S REPRESENTATIVE MUST PROGRAM THE APS AT ALL INTERSECTIONS. WHEN THE PUSH BUTTON IS USED, PROGRAM THE SIGNALS WITH MESSAGES FOR EACH AS FOLLOWS: DURING THE PEDESTRIAN CLEARANCE INTERVAL AND THE STEADY HAND, THE MESSAGE HEARD MUST BE: "WAIT TO CROSS <STREET NAME>. WAIT". USE APS ADAPTER FOR TWO APS TO BE INSTALLED ON TYPE 2 POST.
- CONTRACTOR SHALL REPAIR HOLE ON EXISTING SIGNAL POLE AFTER EQUIPMENT REMOVAL.
- A FACTORY REPRESENTATIVE SHALL DETERMINE THE LOCATION OF THE HYBRID VIDEO/RADAR DETECTION UNIT PRIOR TO INSTALLATION. THE FACTORY REPRESENTATIVE SHALL BE ONSITE FOR INITIAL PROGRAMMING. VIDEO/RADAR DETECTION MUST BE ITERIS VANTAGE VECTOR WITH VANTAGE NEXT CAMERA UNIT AS MANUFACTURED BY ITERIS ON APPROVED EQUAL.
- THE CONTRACTOR MUST COORDINATE WITH PG&E TO ESTABLISH SERVICE POINT CONNECTION AS SHOWN.
- EQUIPMENT FURNISHED FOR THE TRAFFIC SIGNAL, PHB SIGNAL, AND TRAFFIC SIGNAGE MUST BE ON THE CALTRANS LATEST AUTHORIZED MATERIAL LIST.
- ALL NEW CONDUIT MUST BE HIGH DENSITY POLY ETHYLENE (HDPE), SDR 9 AND COMPLY WITH ASTM F2160.
- ALL NEW CONDUCTORS MUST BE COPPER AND COMPLY WITH 2023 CALTRANS STANDARD SPECIFICATION SECTION 86-1.02F(2) AND 86-1.02F(2)(C).
- THE CITY PULL BOX COVER MARKING FOR THE TRAFFIC SIGNAL, LIGHTING SYSTEMS, AND PHB SIGNAL MUST BE AS FOLLOWS: "CITY OF MANTECA" AND "SIGNAL AND LIGHTING".
- ALL NEW VEHICLE SIGNAL HEAD BACKPLATES MUST HAVE 2" YELLOW RETROREFLECTIVE TYPE XI STRIP AROUND BORDER.
- ALL NEW VEHICLE SIGNAL HEADS MUST BE LED AND 12" DIAMETER.
- BBS SHALL BE TESCO MODEL 22 OR APPROVED EQUAL.

STANDARD NOTES:

- AB** = ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
- BC** = INSTALL PULL BOX IN EXISTING CONDUIT RUN
- CB** = INSTALL CONDUIT INTO EXISTING PULL BOX
- CC** = CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- DH** = DETECTOR HANDHOLE
- IS** = INSTALL SIGN ON SIGNAL MAST ARM
- RC** = EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
- RS** = REMOVE AND SALVAGE EQUIPMENT
- SC** = SPLICE NEW TO EXISTING CONDUCTORS

SYMBOLS:

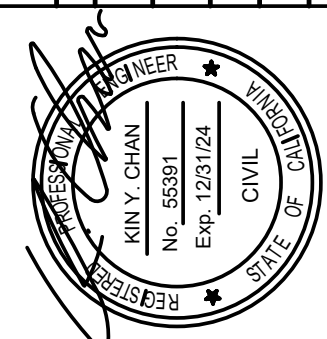

-  VR HYBRID VIDEO/RADAR DETECTION UNIT
-  VIDEO DETECTION ZONE - VEHICLE
-  VIDEO DETECTION ZONE - BIKE
-  RADAR DETECTION ZONE
-  R3-2 ACTIVATED BLANK-OUT SIGN
-  EXISTING STREET LIGHT

ABBREVIATIONS:

- BBS BATTERY BACKUP SYSTEM
- EVUD_a EMERGENCY VEHICLE DETECTOR (CHANNEL α)
- PG&E PACIFIC GAS AND ELECTRIC COMPANY
- SMA SIGNAL MAST ARM
- PHB PEDESTRIAN HYBRID BEACON
- SDR STANDARD DIMENSION RATIO

APPLICABLE CALTRANS STANDARD PLANS:

ES-1A, ES-1B, RSP ES-1C, ES-2A, ES-2D, ES-3C, ES-4A, ES-4B, ES-4C, ES-4D, ES-4E, ES-5C, ES-6A, ES-7A, RSP ES-7B, RSP ES-7C, RSP ES-7F, RSP ES-7M, ES-7N, RSP ES-7R, ES-8A

	DATE 9/13/2024	CIP NO. 20005	GRID NO. N/A	FILE NO. HSPL NO. 5242(035)	
APPROVED	KIN Y. CHAN	ANSON HUYNH	ANSON HUYNH	REVISIONS	NO.
DESIGNED	KIN Y. CHAN	ANSON HUYNH	ANSON HUYNH	REVISIONS	NO.
DRAWN	KIN Y. CHAN	ANSON HUYNH	ANSON HUYNH	REVISIONS	NO.
CHECKED	KIN Y. CHAN	ANSON HUYNH	ANSON HUYNH	REVISIONS	NO.
DATE	9/13/24	DATE	9/13/24	DATE	9/13/24
					
					
<p>CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460</p>					
<p>PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT ELECTRICAL INDEX, LEGEND, NOTES AND ABBREVIATIONS</p>					
DRAWING	E-1				SHEET: 43 OF 54
SCALE	N/A				HORZ NO SCALE
VERT	N/A				VERT N/A

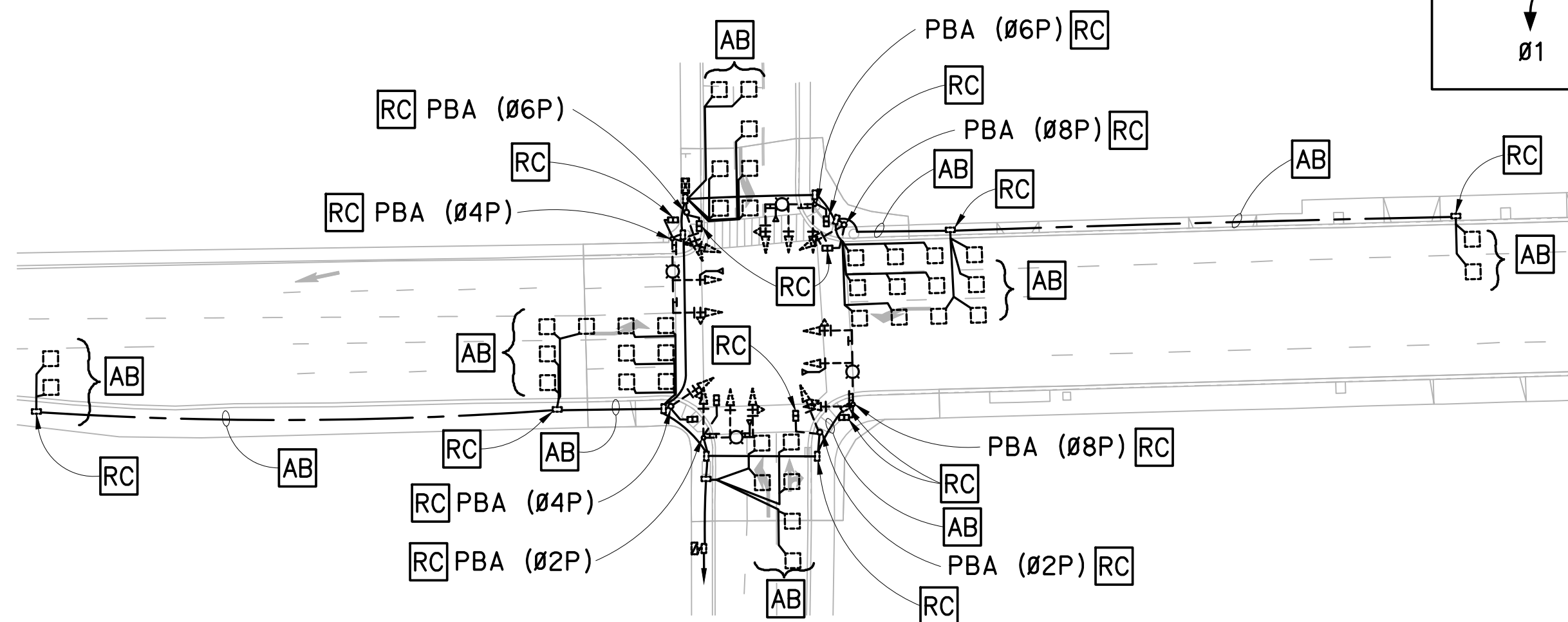
BID SET

NOTE:

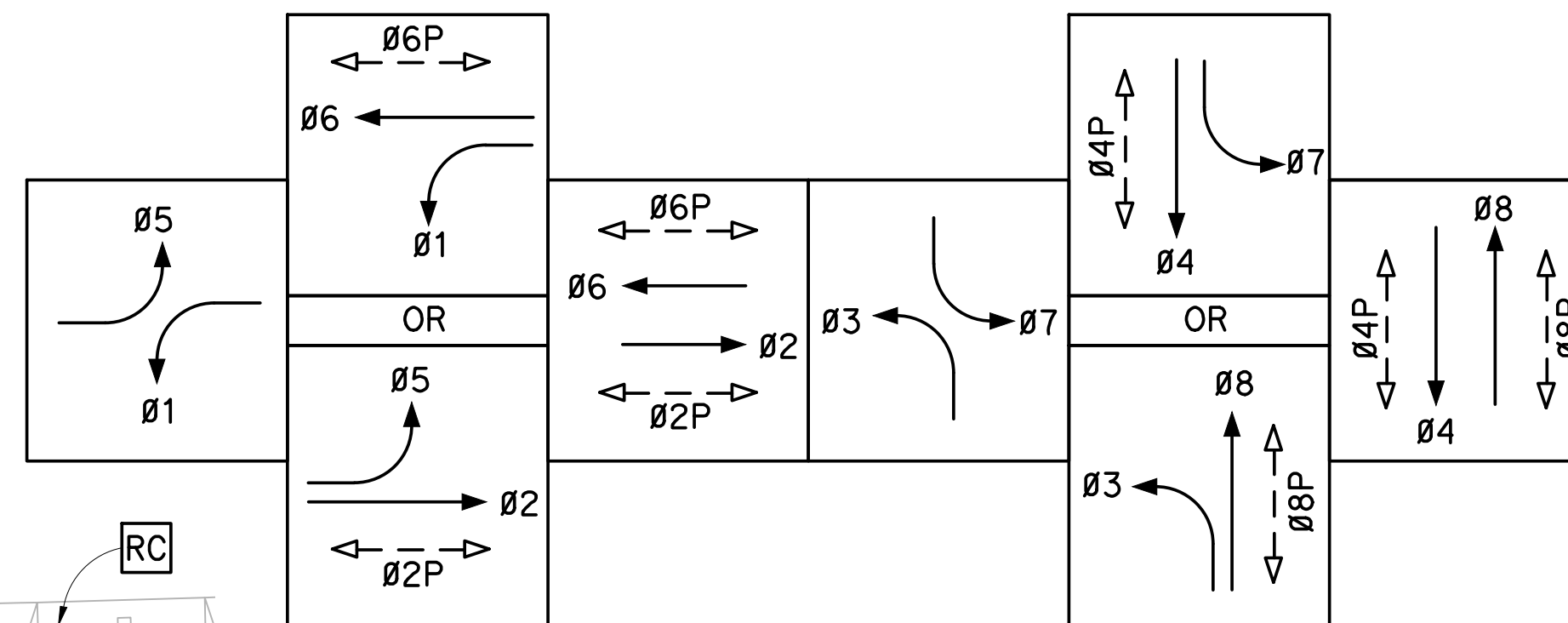
SEE SHEET E-1 FOR NOTES AND LEGEND.

LEGEND (FOR THIS SHEET ONLY):

- 1 REPLACE WITH A NEW APS WITH R10-3e (CA) 9" X 15" SIGN ON EXISTING POLE.
- 2 EXISTING SERVICE EQUIPMENT ENCLOSURE TO REMAIN.
- 3 REPLACE WITH A COUNT-DOWN PEDESTRIAN SIGNAL HEAD ON EXISTING POLE.
- 4 EXISTING CONTROLLER ASSEMBLY. INSTALL HYBRID VIDEO/RADAR DETECTION CONTROL UNIT.
- 5 INSTALL HYBRID VIDEO/RADAR DETECTION CAMERA AS SHOWN. SEE CALTRANS STANDARD PLAN RSP ES-7R FOR MOUNTING DETAILS.
- 6 RC EXISTING PULL BOX. INSTALL NEW PULL BOX AT THE SAME LOCATION.
- 7 EXISTING 1" C, 2#8 (CONTROLLER), 2#10 (240 V LIGHTING), 3#14 (PEU). REMOVE 2 DLC.
- 8 EXISTING 1 1/2" C, 2#8 (CONTROLLER), 2#10 (240 V LIGHTING), 3#14 (PEU).

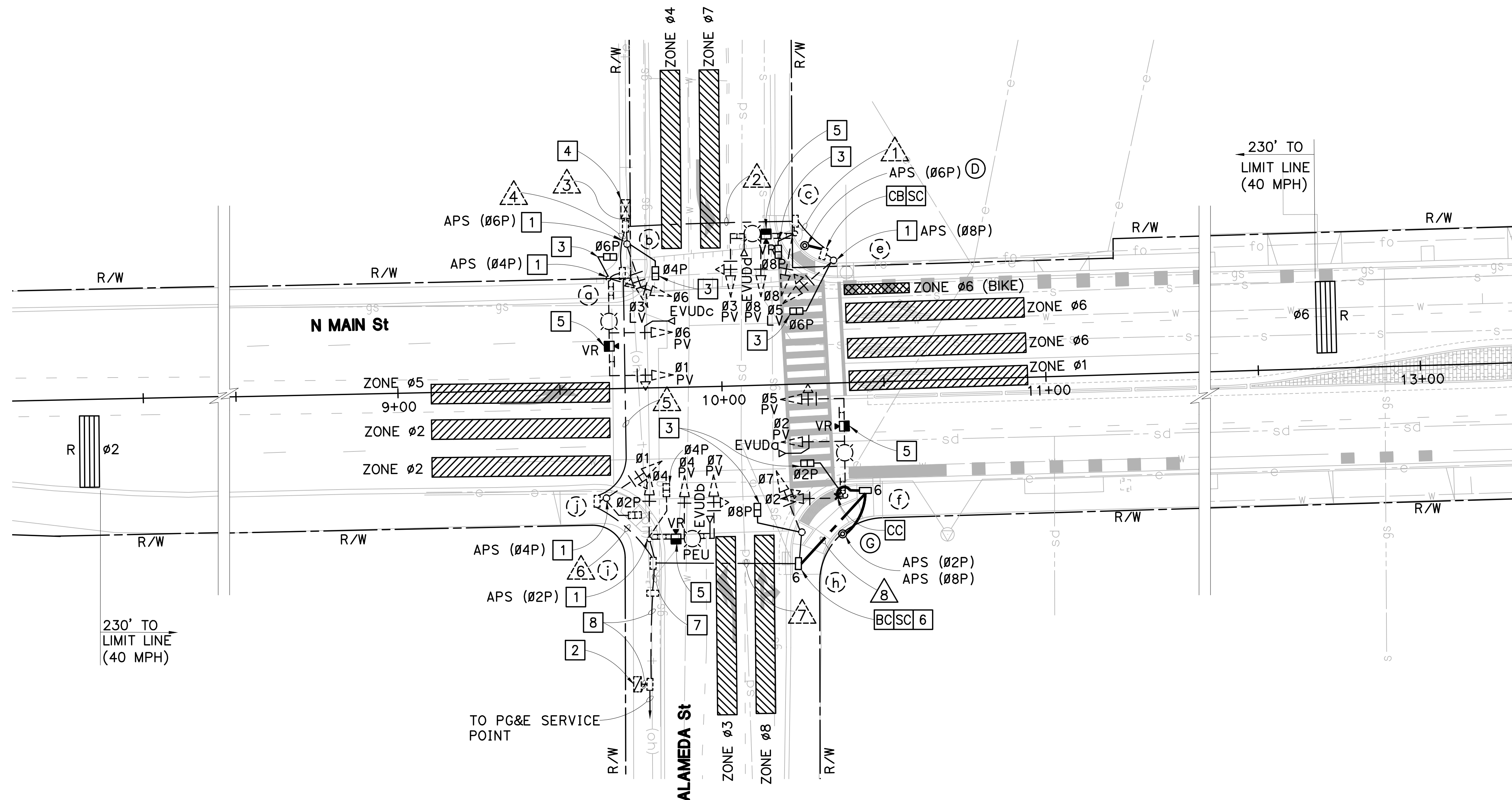


REMOVAL PLAN
SCALE: 1" = 50'



EXISTING TRAFFIC PHASE DIAGRAM

(NO CHANGE)
 EVUDa = Ø2 + Ø5
 EVUDb = Ø4 + Ø7
 EVUDc = Ø1 + Ø6
 EVUDd = Ø3 + Ø8



BID SET

DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
DESIGNED	KIN Y. CHAN
DRAWN	ANSON HUYNH
NO.	REVISIONS

APPROVED: DATE: 9/13/24
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/ALAMEDA ST

DRAWING	E-2
SHEET: 44 OF	54
SCALE	1" = 20'
HORZ	N/A
VERT	N/A

C:\Project\2023\23-755 Main Street Bike & Ped Improvement - Manteca\09-PLANS\Traffic\Signal.dwg Sep 05, 2024 - 4:32pm

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø1			3	3	3			
Ø2			3	3	3	3	3	3
Ø3		3	3					
Ø4			3	3	3	3		
Ø5	3	3	6	3	3	3	3	3
Ø6			3	3				
Ø7			3	3	3	3	3	
Ø8		3	3					
Ø2P			2	2	2	2	2	2
Ø4P			2	2	2	2		
Ø6P	2	2	4	2				
Ø8P		2	4	2	2	2	2	
APS Ø2P			2	2	2	2	2	2
APS Ø4P			2	2	2			
APS Ø6P	2+	2+	2+					
APS Ø8P	2	2	4	2	2	2	2	2
SPARES	3	3	6	3	3	3	3	3
TOTAL No. 14	12	20	55	35	30	25	20	15
No. 10 CONDUCTORS								
LIGHTING (240 V)		2		2	2	2	2	2
No. 8 CONDUCTORS								
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1
SERVICE TO CONTROLLER			2	2	2	2		
TOTAL No. 8	1	1	3	3	3	3	1	1
DLC								
111U	1-	1-	1-					
212U			1-	1-	1-			
214U			1-	1-	1-			
214L			1-	1-	1-			
315U			1-					
416U			1-	1-	1-	1-		
5J1U			1-	1-	1-			
6J2U	1-	1-	1-					
6J4U	1-	1-	1-					
6J4L	1-	1-	1-					
7J5U			1-	1-	1-	1-		
8J6U			1-					
CAT5E CABLE (VIDEO/RADAR)		1+	4+	3+	2+	2+	1+	1
EMERGENCY VEHICLE PREEMPTION CABLE		1	4	3	2	2	1	1
APS CABLE		1+		2+	2+			1
CONDUIT SIZE (INCHES)								
	2	2½	2-3"	3½	3	2½	2	3
NEW (N) / EXISTING (E)	E	E	E	E	E	E	E	N
% FILL	11	14	14	14	17	23	20	8

"+" = INSTALL NEW CONDUCTOR(S)/CABLE(S) TO EXISTING CONDUIT
 "-" = REMOVE EXISTING CONDUCTOR(S)/CABLE(S) FROM EXISTING CONDUIT

STANDARD AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		APS*		LED LUMINAIRE (WATTAGE)	REMARKS		
	TYPE	SIG. MA (FT)	LUM. MA (FT)	Ø	MAST ARM	Ø	POLE	Ø	MOUNTING			Ø	ARROW
(a)	EXISTING 19-3-70	30'	12'	1	MAT	6	SV-1-T	6P	SP-1-T	4P	←	76 W	SEE NOTE 1, 3 AND 5 ON SHEET E-2.
				6	MAS								
(b)	EXISTING 1-A					3	TV-1-T	4P	SP-1-T	6P	→		SEE NOTE 1 AND 3 ON SHEET E-2.
(c)	EXISTING 17-3-70	20'	12'	3	MAT	8	SV-1-T	8P	SP-1-T			76 W	SEE NOTE 3 AND 5 ON SHEET E-2.
				8	MAS								
(d)	2 POST									6P	←		
(e)	EXISTING 1-A					5	TV-1-T	6P	SP-1-T	8P	←		SEE NOTE 1 AND 3 ON SHEET E-2.
(f)	EXISTING 19-3-70	30'	12'	5	MAT	2	SV-1-T	2P	SP-1-T			76 W	SEE NOTE 3 AND 5 ON SHEET E-2.
				2	MAS								
(g)	2 POST									2P	→		
										8P	←		
(h)	EXISTING 1-A					7	TV-1-T	8P	SP-1-T				SEE NOTE 3 ON SHEET E-2.
(i)	EXISTING 17-3-70	20'	12'	7	MAT	4	SV-1-T	4P	SP-1-T	2P	←	76 W	SEE NOTE 1 AND 5 ON SHEET E-2.
				4	MAS								
(j)	EXISTING 1-A					1	TV-1-T	2P	SP-1-T	4P	→		SEE NOTE 1 ON SHEET E-2.

= NEW EQUIPMENT
 * = SEE GENERAL NOTE 11 ON SHEET E-1.

DATE	9/13/2024	CIP NO.	20005	GRID NO.	N/A
DESIGNED	KIN Y. CHAN	DRAWN	ANSON HUYNH	FILE NO.	HSPL NO. 5242(035)
APPROVED	KIN Y. CHAN	REVISIONS	NO.	DATE	BY
CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460					
PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/ALAMEDA ST					
DRAWING	E-3		SHEET: 45 OF	54	SCALE
			HORZ NO SCALE	N/A	VERT N/A

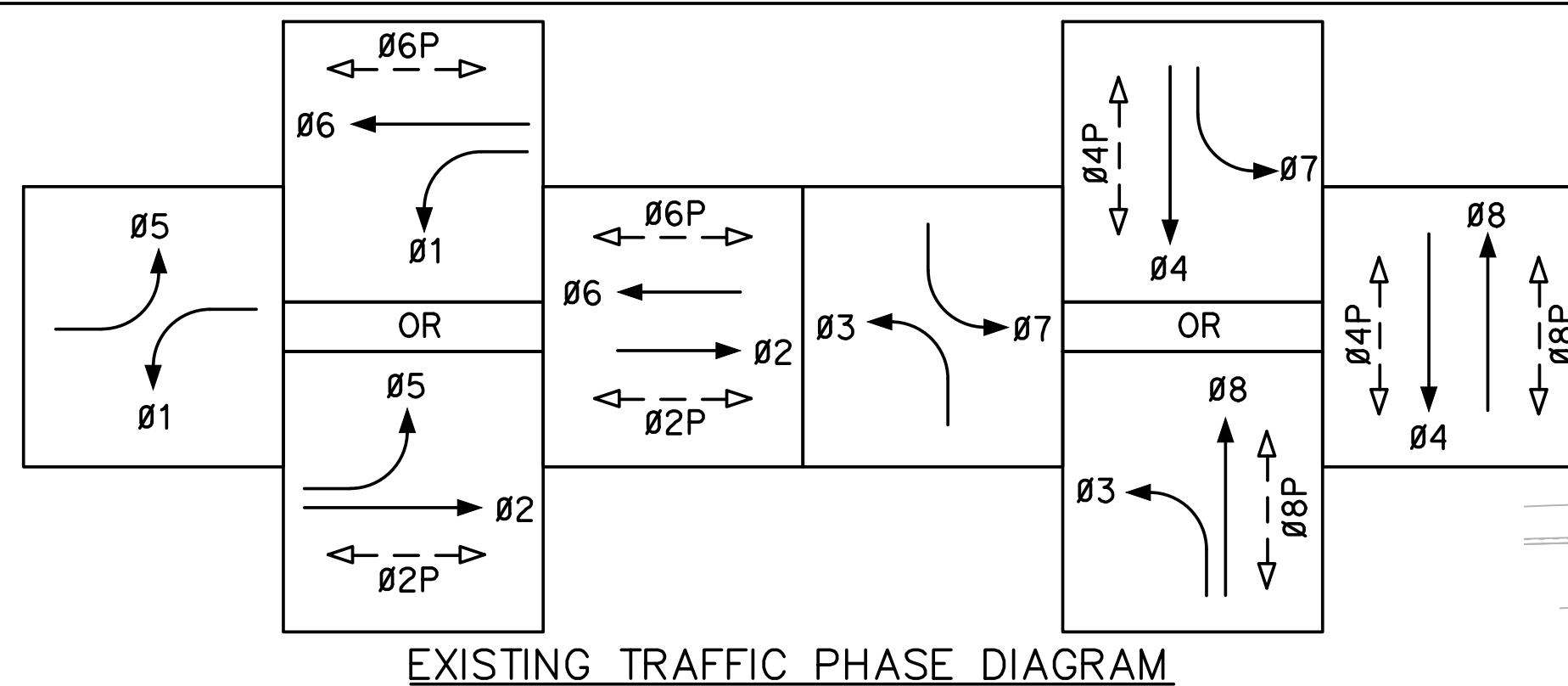
BID SET

NOTE:

SEE SHEET E-1 FOR NOTES AND LEGEND.

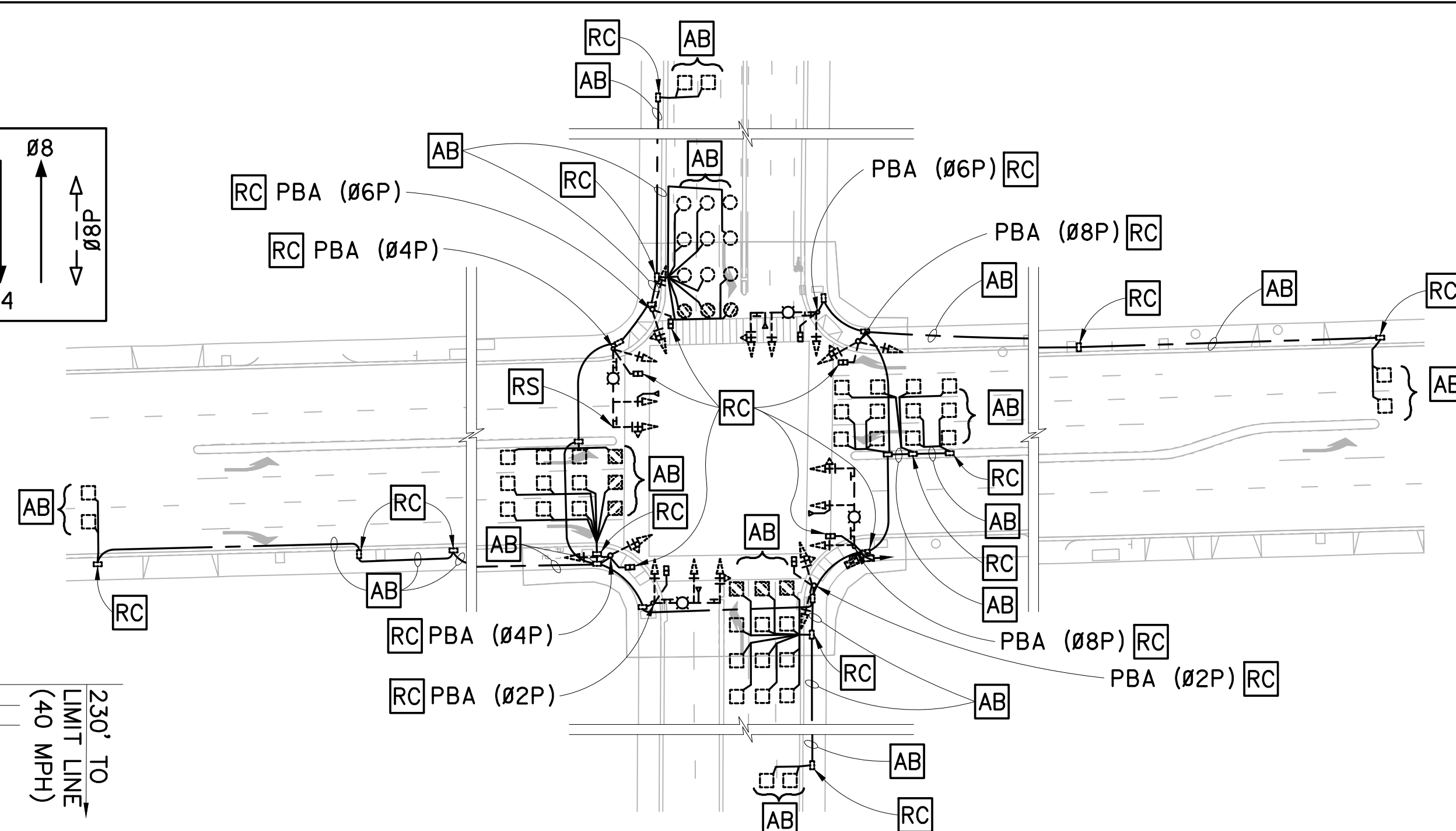
LEGEND (FOR THIS SHEET ONLY):

- 1 REPLACE WITH A NEW APS WITH R10-3e (CA) 9" X 15" SIGN ON EXISTING POLE.
- 2 EXISTING SERVICE EQUIPMENT ENCLOSURE TO REMAIN.
- 3 REPLACE WITH A COUNT-DOWN PEDESTRIAN SIGNAL HEAD ON EXISTING POLE.
- 4 EXISTING CONTROLLER ASSEMBLY. INSTALL HYBRID VIDEO/RADAR DETECTION CONTROL UNIT.
- 5 INSTALL HYBRID VIDEO/RADAR DETECTION CAMERA AS SHOWN. SEE CALTRANS STANDARD PLAN RSP ES-7R FOR MOUNTING DETAILS.
- 6 RC EXISTING PULL BOX. INSTALL NEW PULL BOX AT THE SAME LOCATION.
- 7 REPLACE WITH A NEW PV VEHICLE SIGNAL HEAD ON EXISTING SMA AS SHOWN.
- 8 EXISTING 1 1/2" C, 2#10 (240 V LIGHTING), 3#14 (PEU).
- 9 EXISTING 1 1/2" C, 2#6 (CONTROLLER).

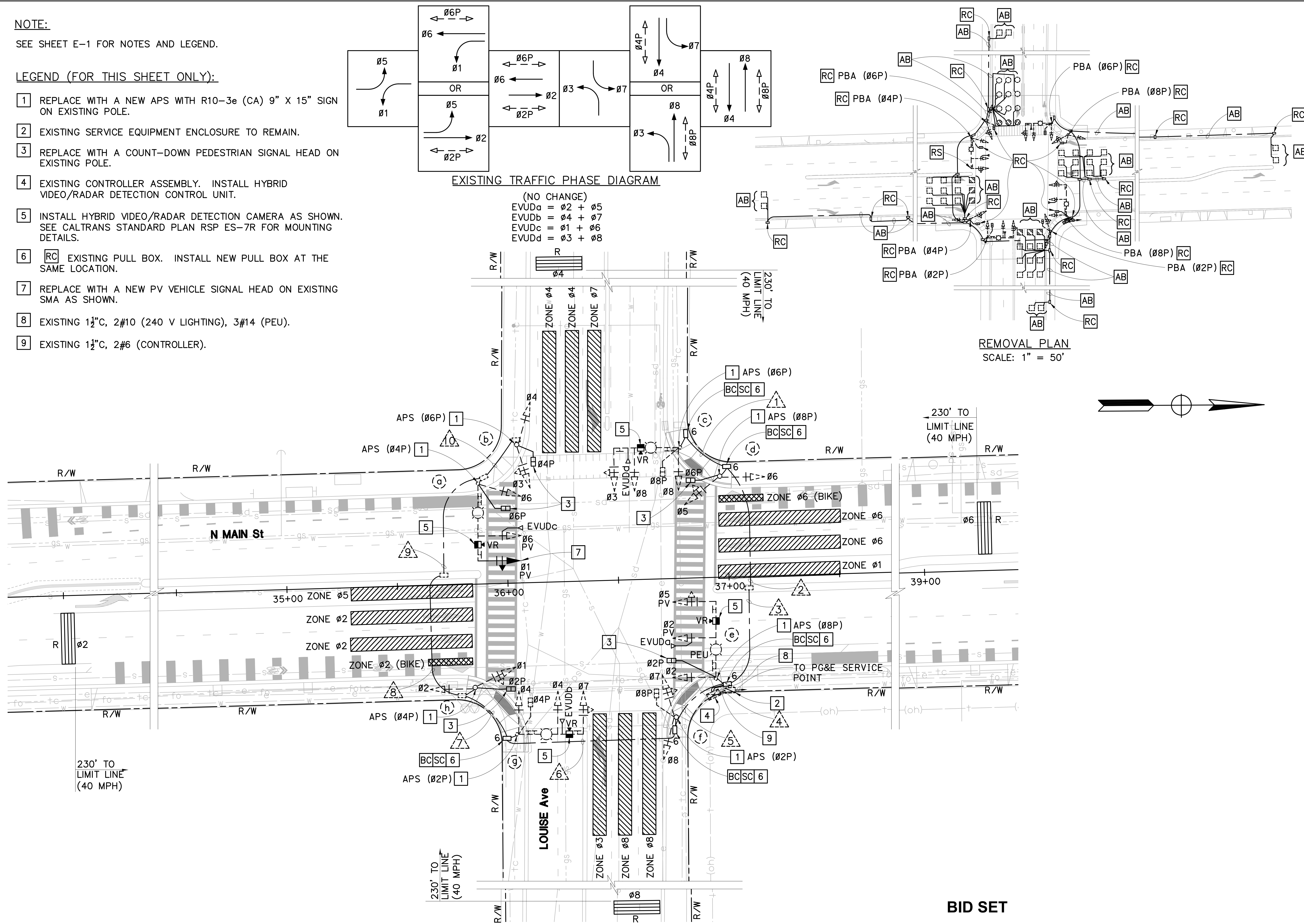


EXISTING TRAFFIC PHASE DIAGRAM

(NO CHANGE)
 EVUDa = Ø2 + Ø5
 EVUDb = Ø4 + Ø7
 EVUDc = Ø1 + Ø6
 EVUdd = Ø3 + Ø8

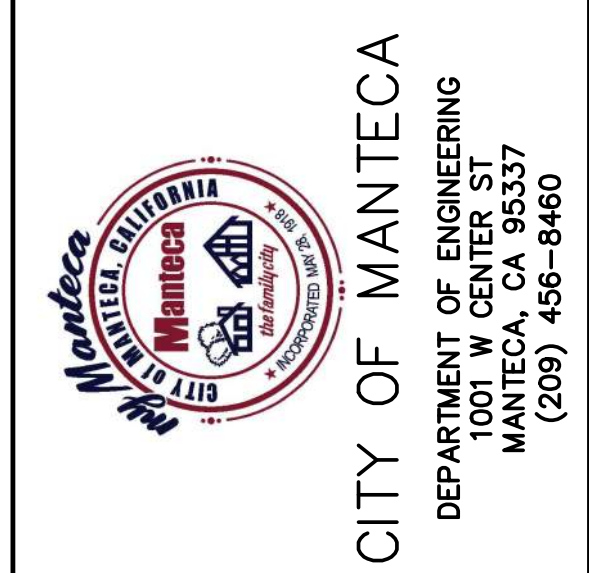
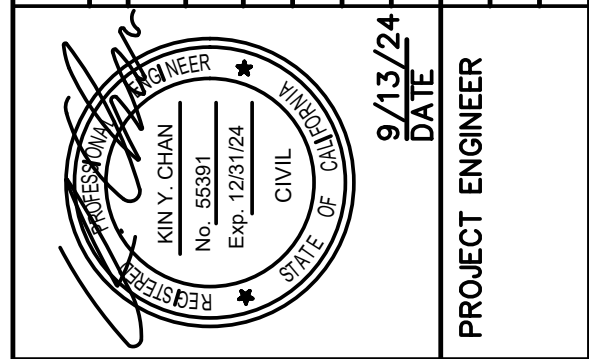


REMOVAL PLAN
 SCALE: 1" = 50'



BID SET

DATE	9/13/2024
APPROVED	KIN Y. CHAN
DESIGNED	ANSON HUYNH
DRAWN	ANSON HUYNH
NO.	
REVISIONS	
FILE NO.	HSPL NO. 5242(035)
GRID NO.	N/A
CIP NO.	20005



PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/LOUISE AVE

DRAWING	E-4
SHEET: 46 OF	54
SCALE	1" = 20'
HORZ	N/A
VERT	N/A

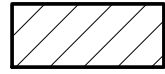
CONDUIT AND CONDUCTOR SCHEDULE

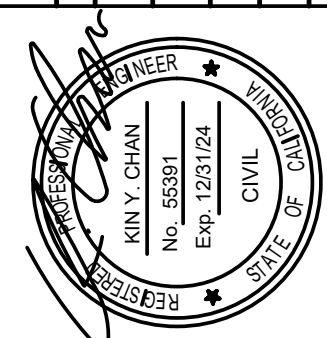

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS									
	RUN NUMBER									
	1	2	3	4	5	6	7	8	9	10
No. 14 CONDUCTORS										
Ø1				3	3	3	3	3	3	
Ø2				3	3	3	3			
Ø3	3	3	3	6	3	3	3	3	3	3
Ø4				3	3	3	3	3	3	3
Ø5		3	3	3						
Ø6		3	3	6	3	3	3	3	3	
Ø7				3	3	3				
Ø8	3	3	3	6	3					
Ø2P				2	2	2	2			
Ø4P				2	2	2	2	2	2	2
Ø6P		2	2	4	2	2	2	2	2	
Ø8P	2	2	2	4	2					
APS Ø2P				2	2	2				
APS Ø4P				2	2	2	2	2	2	
APS Ø6P	2	2	2	4	2	2	2	2	2	2
APS Ø8P		2	2	2						
PEU	3	3	3							
SPARES	3	3	3	6	3	3	3	3	3	3
TOTAL No. 14	16	26	26	61	38	33	28	23	23	13
No. 10 CONDUCTORS										
LIGHTING (240 V)	2	2	2		2	2	2	2	2	
No. 8 CONDUCTORS										
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	1	1
DLC										
111U			1	1						
119U			1	1						
212U/212L				2	2	2	2			
214U/214L				2	2	2	2			
315U				1	1					
319L				1	1					
416U/416L				2	2	2	2	2	2	2
418U/418L				2	2	2	2	2	2	2
5J1U				1	1	1	1	1	1	
5J9U				1	1	1	1	1	1	
6J2U/6J2L		2	2	2						
6J4U/6J4L			2	2						
7J5U				1	1	1	1	1	1	1
7J9L				1	1	1	1	1	1	1
8J6U/8J6L				2	2					
8J7L				1	1					
8J8U				1	1					
CAT5E CABLE (VIDEO/RADAR)	1+	1+	1+	4+	2+	2+	1+	1+	1+	
EMERGENCY VEHICLE PREEMPTION CABLE	1	1	1	4	2	2	1	1	1	
APS CABLE	2+			2+	2+					2+
CONDUIT SIZE (INCHES)	2½	2½	3	2-3"	3	3	2	2½	2½	2
NEW (N) / EXISTING (E)	E	E	E	E	E	E	E	E	E	E
% FILL	15	18	11	13	17	14	14	15	21	13

"+" = INSTALL NEW CONDUCTOR(S)/CABLE(S) TO EXISTING CONDUIT
 "-" = REMOVE EXISTING CONDUCTOR(S)/CABLE(S) FROM EXISTING CONDUIT

STANDARD AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		APS*		LED LUMINAIRE (WATTAGE)	REMARKS	
	TYPE	SIG. MA (FT)	LUM. MA (FT)	Ø	MAST ARM	Ø	POLE	Ø	MOUNTING			Ø
(a)	EXISTING SIGNAL POLE	35'	12'	1	MAT	6	SV-1-T	6P	SP-1-T	4P	←	53 W SEE NOTE 1, 3, 5 AND 7 ON SHEET E-4.
(b)	EXISTING 1-A			3		4	TV-2-T	4P	SP-1-T	6P	→	SEE NOTE 1 AND 3 ON SHEET E-4.
(c)	EXISTING 19-4-80	30'	12'	3	MAT	8	SV-1-T	8P	SP-1-T	6P	←	70 W SEE NOTE 1 AND 5 ON SHEET E-4.
(d)	EXISTING 1-A			5		6	TV-2-T	6P	SP-1-T	8P	→	SEE NOTE 1 AND 3 ON SHEET E-4.
(e)	EXISTING SIGNAL POLE	35'	12'	5	MAT	2	SV-1-T	2P	SP-1-T	8P	←	65 W SEE NOTE 1, 3 AND 5 ON SHEET E-4.
(f)	EXISTING 1-A			7		8	TV-2-T	8P	SP-1-T	2P	→	SEE NOTE 1 ON SHEET E-4.
(g)	EXISTING 19-4-80	30'	12'	7	MAT	4	SV-1-T	4P	SP-1-T	2P	←	70 W SEE NOTE 1 AND 5 ON SHEET E-4.
(h)	EXISTING 1-A			1		2	TV-2-T	2P	SP-1-T	4P	→	SEE NOTE 1 AND 3 ON SHEET E-4.

 = NEW EQUIPMENT
 * = SEE GENERAL NOTE 11 ON SHEET E-1.

DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPPL NO. 5242(035)
APPROVED BY	KIN Y. CHAN
DESIGNED BY	ANSON HUYNH
DRAWN BY	ANSON HUYNH
NO.	REVISIONS
DATE	9/13/24
DATE	9/13/24
PROJECT ENGINEER	
	
	
CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460	
PLANS FOR THE CONSTRUCTION OF MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT MODIFYING SIGNAL AND LIGHTING NORTH MAIN St/LOUISE Ave	
DRAWING	E-5
SHEET: 47 OF	54
HORIZ	N/A
VERT	N/A

BID SET

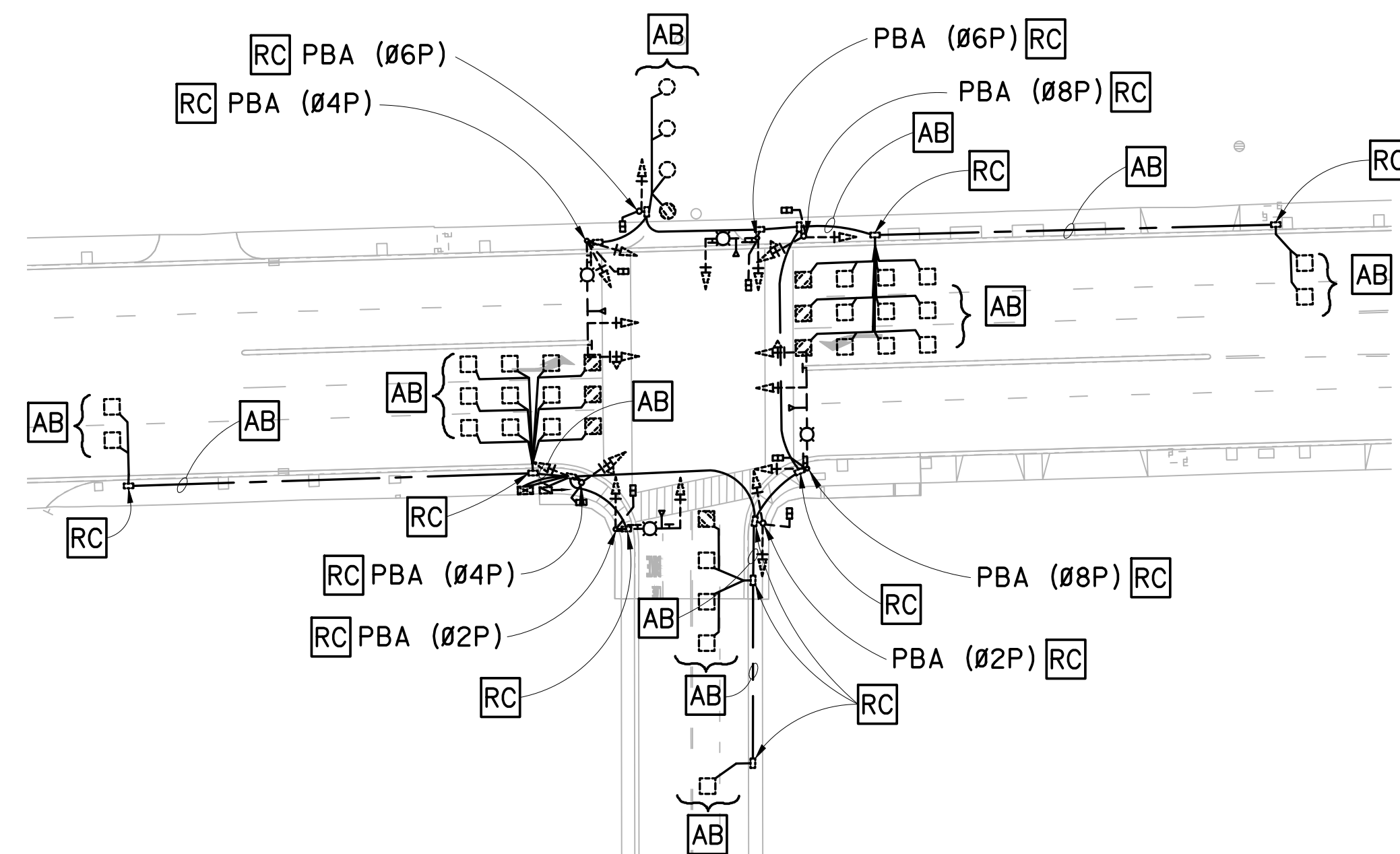
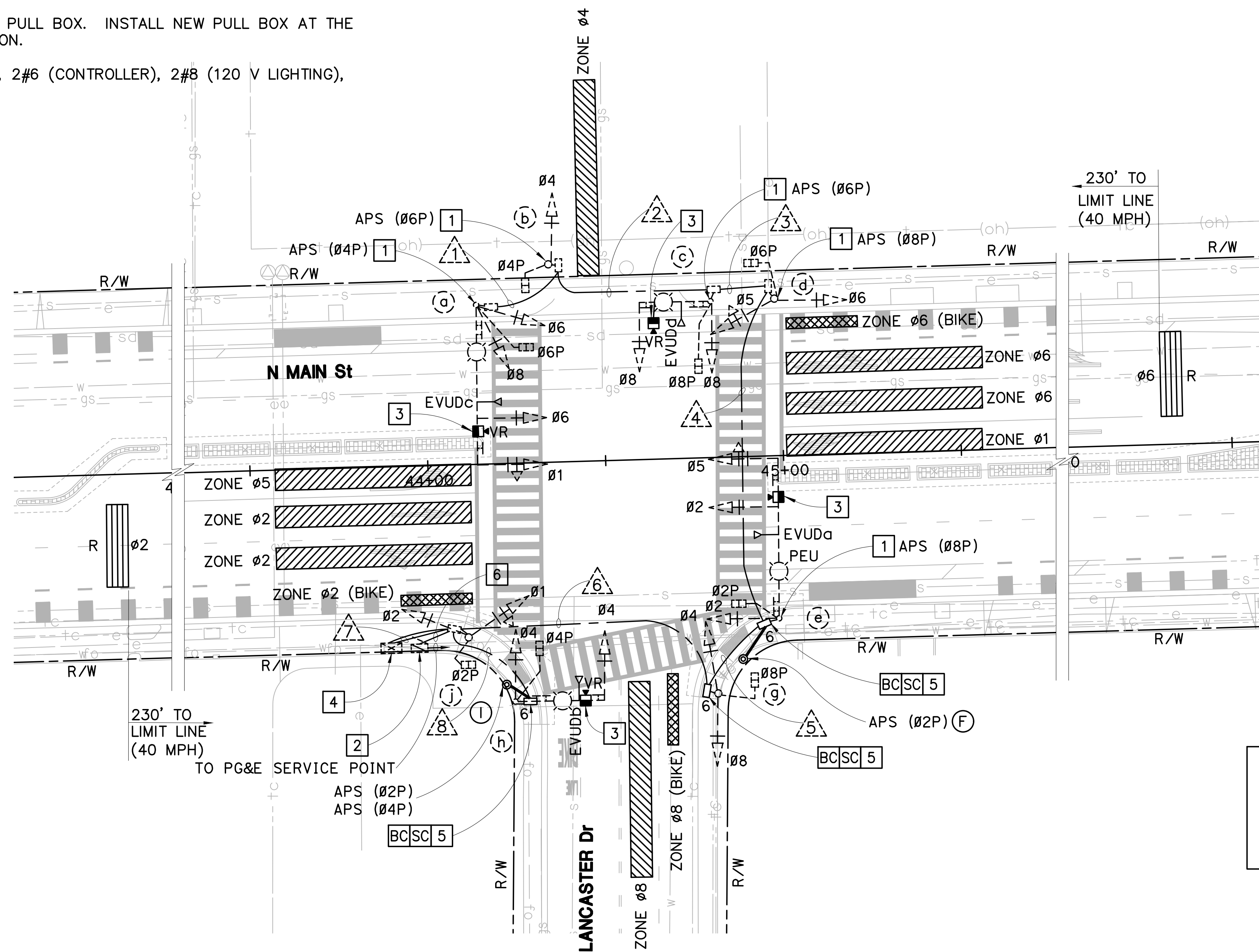
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NOTE:

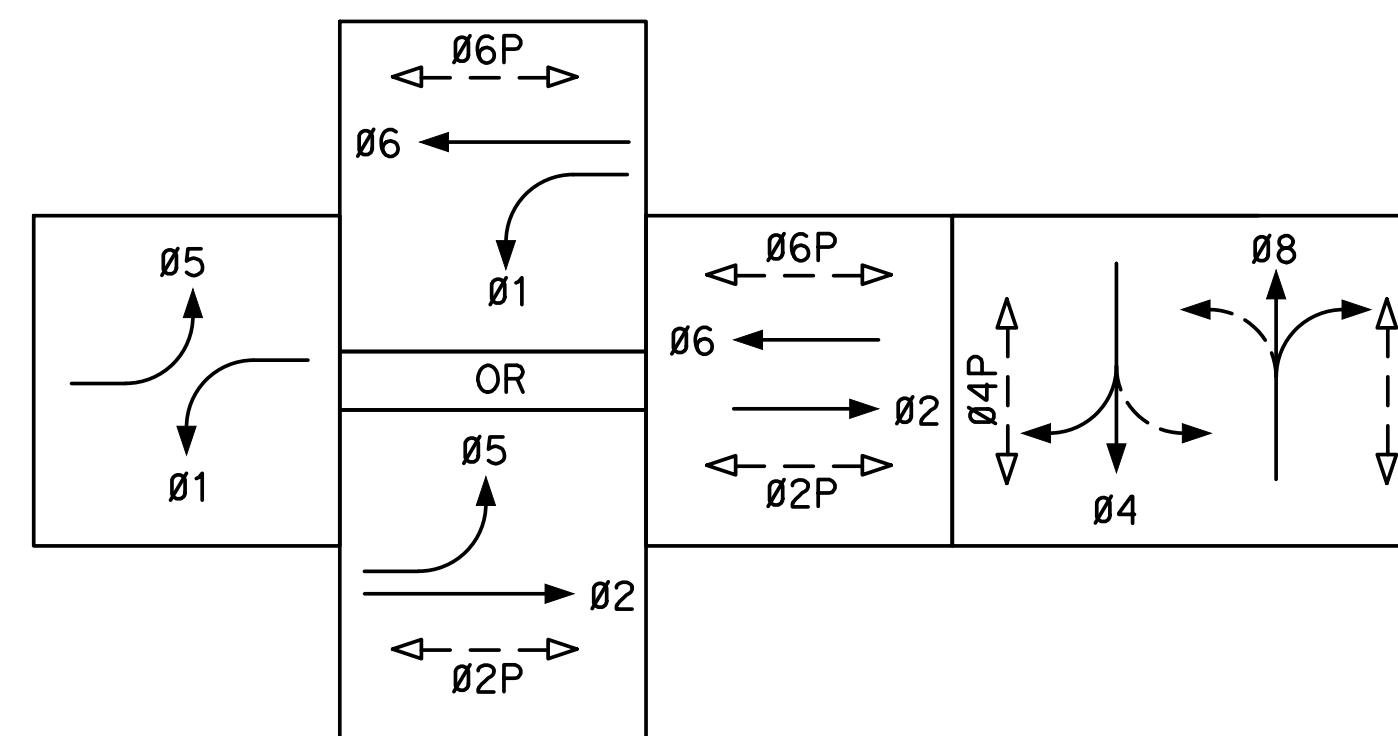
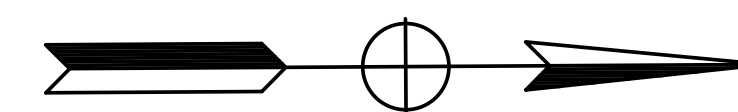
SEE SHEET E-1 FOR NOTES AND LEGEND.

LEGEND (FOR THIS SHEET ONLY):

- 1 REPLACE WITH A NEW APS WITH R10-3e (CA) 9" X 15" SIGN ON EXISTING POLE.
- 2 EXISTING SERVICE EQUIPMENT ENCLOSURE TO REMAIN.
- 3 INSTALL HYBRID VIDEO/RADAR DETECTION CAMERA AS SHOWN. SEE CALTRANS STANDARD PLAN RSP ES-7R FOR MOUNTING DETAILS.
- 4 EXISTING CONTROLLER ASSEMBLY. INSTALL HYBRID VIDEO/RADAR DETECTION CONTROL UNIT.
- 5 RC EXISTING PULL BOX. INSTALL NEW PULL BOX AT THE SAME LOCATION.
- 6 EXISTING 2"C, 2#6 (CONTROLLER), 2#8 (120 V LIGHTING), 3#14 (PEU).



REMOVAL PLAN
SCALE: 1" = 50'



EXISTING TRAFFIC PHASE DIAGRAM

(NO CHANGE)
EVUDa = Ø2 + Ø5
EVUDb = Ø4
EVUDc = Ø1 + Ø6
EVUDd = Ø8

BID SET

DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSP/L NO. 5242(035)
APPROVED	KIN Y. CHAN
DESIGNED	ANSON HUYNH
DRAWN	ANSON HUYNH
NO.	REVISIONS

9/13/24 DATE
PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
**MAIN ST BIKE AND
PEDESTRIAN
IMPROVEMENT PROJECT**
**MODIFYING SIGNAL AND LIGHTING
NORTH MAIN ST/LANCASTER DR**

DRAWING	E-6
SHEET: 48 OF	54
SCALE	HORZ 1" = 20' VERT N/A

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø1	3	3	3	3	3	3	3	
Ø2					3	3	3	
Ø4		3	3	3	3	3	6	3
Ø5				3	3	3	3	
Ø6	3	3	3	3	3	3	3	
Ø8	3	3	3	3	3	3	3	
Ø2P					2 ⁺	2	2	
Ø4P		2	2	2	2	2	4	2
Ø6P	2	2	2	2	2	2	2	
Ø8P			2	2	2	2	2	
APS Ø2P					2	2	2	2
APS Ø4P	2	2	2	2	2	2	2	2 ⁺
APS Ø6P		2	2	2	2	2	2	
APS Ø8P				2	2	2	2	
PEU					3	3		
SPARES	3	3	3	3	3	3	6	3
TOTAL No. 14	16	23	25	30	40	40	47	12
No. 8 CONDUCTORS								
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1
LIGHTING (120 V)	2	2	2	2	2	2	2	2
TOTAL No. 8	3	3	3	3	3	3	1	3
No. 6 CONDUCTORS								
SERVICE TO CONTROLLER								2
DLC								
111U				1 ⁻	1 ⁻	1 ⁻	1 ⁻	
212U								1 ⁻
212L								1 ⁻
214U								1 ⁻
214L								1 ⁻
418U		1 ⁻	1 ⁻	1 ⁻	1 ⁻	1 ⁻	1 ⁻	
5J1U								1 ⁻
6J2U				1 ⁻	1 ⁻	1 ⁻	1 ⁻	
6J2L				1 ⁻	1 ⁻	1 ⁻	1 ⁻	
6J4U				1 ⁻	1 ⁻	1 ⁻	1 ⁻	
6J4L				1 ⁻	1 ⁻	1 ⁻	1 ⁻	
8J6U								1 ⁻
8J8L								1 ⁻
CAT5E CABLE (VIDEO/RADAR)	1 ⁺	1 ⁺	2 ⁺	2 ⁺	3 ⁺	3 ⁺	4 ⁺	1 ⁺
EMERGENCY VEHICLE PREEMPTION CABLE	1	1	2	2	3	3	4	1
APS CABLE	2 ⁺		2 ⁺		1 ⁺			1 ⁺
CONDUIT SIZE (INCHES)	2	2	2	3	3	3	2-3"	2
NEW (N) / EXISTING (E)	E	E	E	E	E	E	E	E
% FILL	22	23	31	14	19	14	12	18

"+" = INSTALL NEW CONDUCTOR(S)/CABLE(S) TO EXISTING CONDUIT
 "-" = REMOVE EXISTING CONDUCTOR(S)/CABLE(S) FROM EXISTING CONDUIT

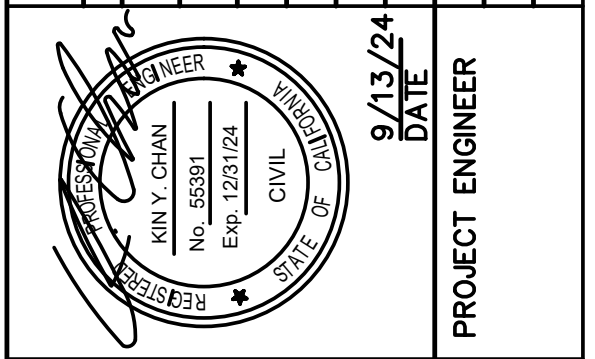
STANDARD AND EQUIPMENT SCHEDULE


NO.	STANDARD			VEHICLE SIGNAL MOUNTING			PEDESTRIAN SIGNAL		APS*		LED LUMINAIRE (WATTAGE)	REMARKS
	TYPE	SIG. MA (FT)	LUM. MA (FT)	Ø	MAST ARM	Ø	POLE	Ø	MOUNTING	Ø		
(a)	EXISTING 26-4-70	45'	12'	1	MAS	6	SV-2-TB	6P	SP-1-T	4P	←	200 W HPS SEE NOTE [1] AND [3] ON SHEET E-6.
				6	MAS	8						
(b)	EXISTING 1-A					4	TV-1-T	4P	SP-1-T	6P	→	SEE NOTE [1] ON SHEET E-6.
(c)	EXISTING SIGNAL POLE	20'	12'	8	MAS	8	SV-1-T	8P	SP-1-T	6P	→	SEE NOTE [1] AND [3] ON SHEET E-6.
(d)	EXISTING 1-A					5	TV-2-T	6P	SP-1-T	8P	→	SEE NOTE [1] ON SHEET E-6.
				6								
(e)	EXISTING 26-4-70	45'	12'	5	MAS	2	SV-1-T	2P	SP-1-T	8P	←	70 W SEE NOTE [1] AND [3] ON SHEET E-6.
				2	MAS							
(f)	2 POST									2P	→	
(g)	EXISTING 1-A					4	TV-2-T	8P	SP-1-T			
						8						
(h)	EXISTING SIGNAL POLE	20'	12'	4	MAS	4	SV-1-T	4P	SP-1-T			87 W SEE NOTE [3] ON SHEET E-6.
(i)	2 POST									2P	←	
										4P	→	
(j)	EXISTING 1-A					1	TV-2-T	2P	SP-1-T			
						2						

 = NEW EQUIPMENT

* = SEE GENERAL NOTE 11 ON SHEET E-1.

DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED	KIN Y. CHAN
DESIGNED	ANSON HUYNH
DRAWN	ANSON HUYNH
NO.	REVISIONS



9/13/24 DATE
 PROJECT ENGINEER

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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/LANCASTER DR

DRAWING	E-7
SHEET: 49 OF	54
SCALE	N/A
HORIZ NO SCALE	
VERT NO SCALE	

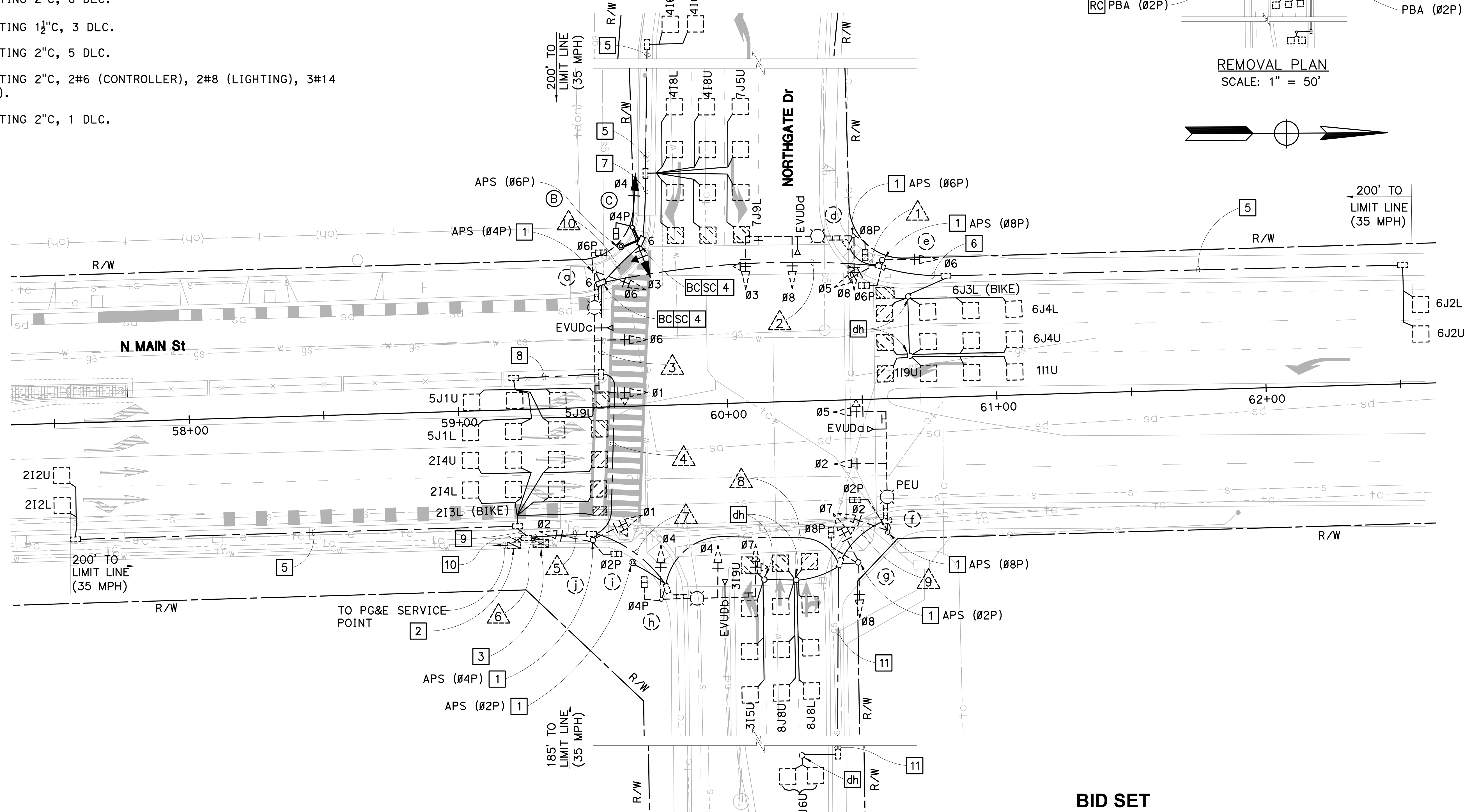
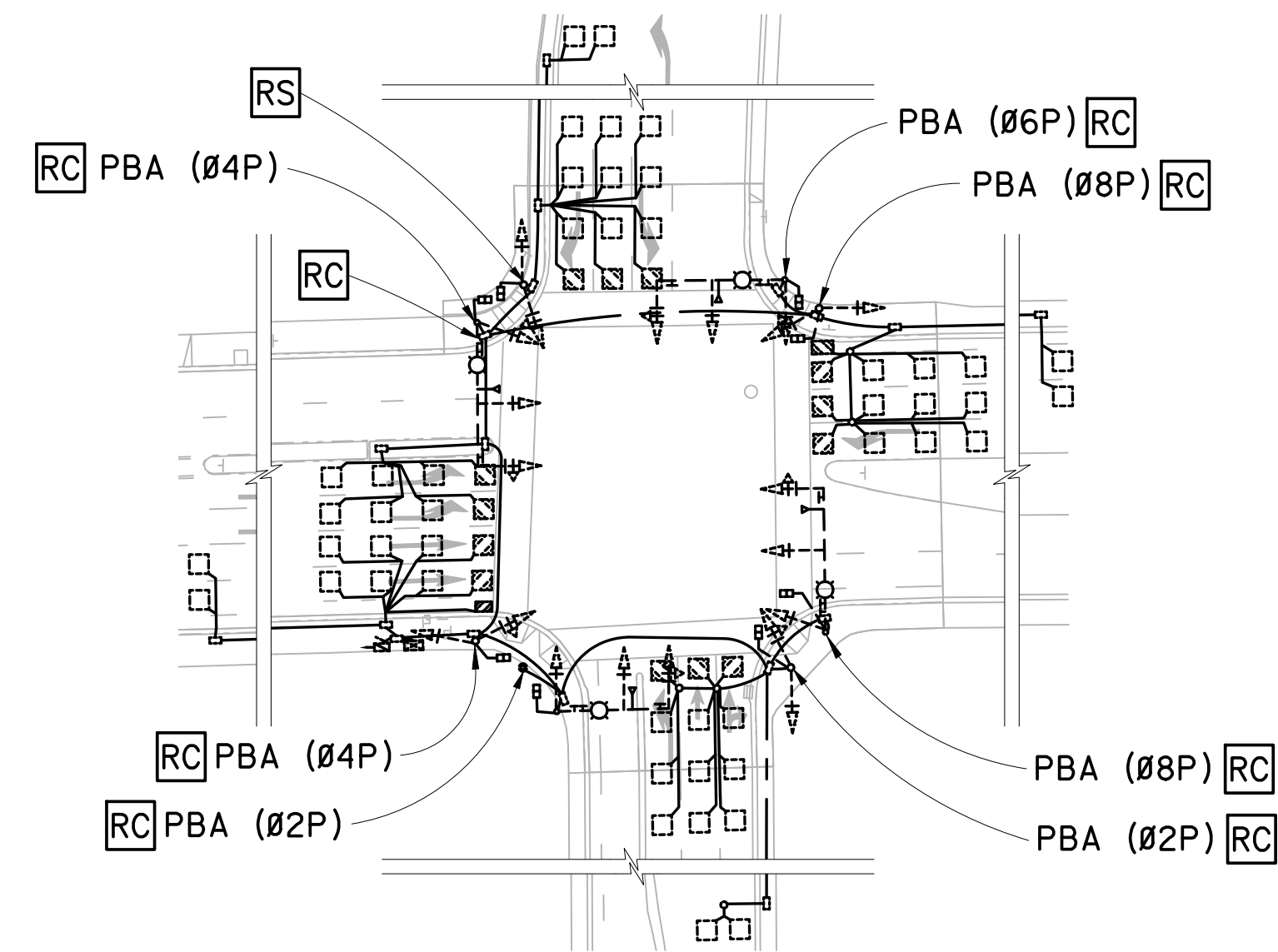
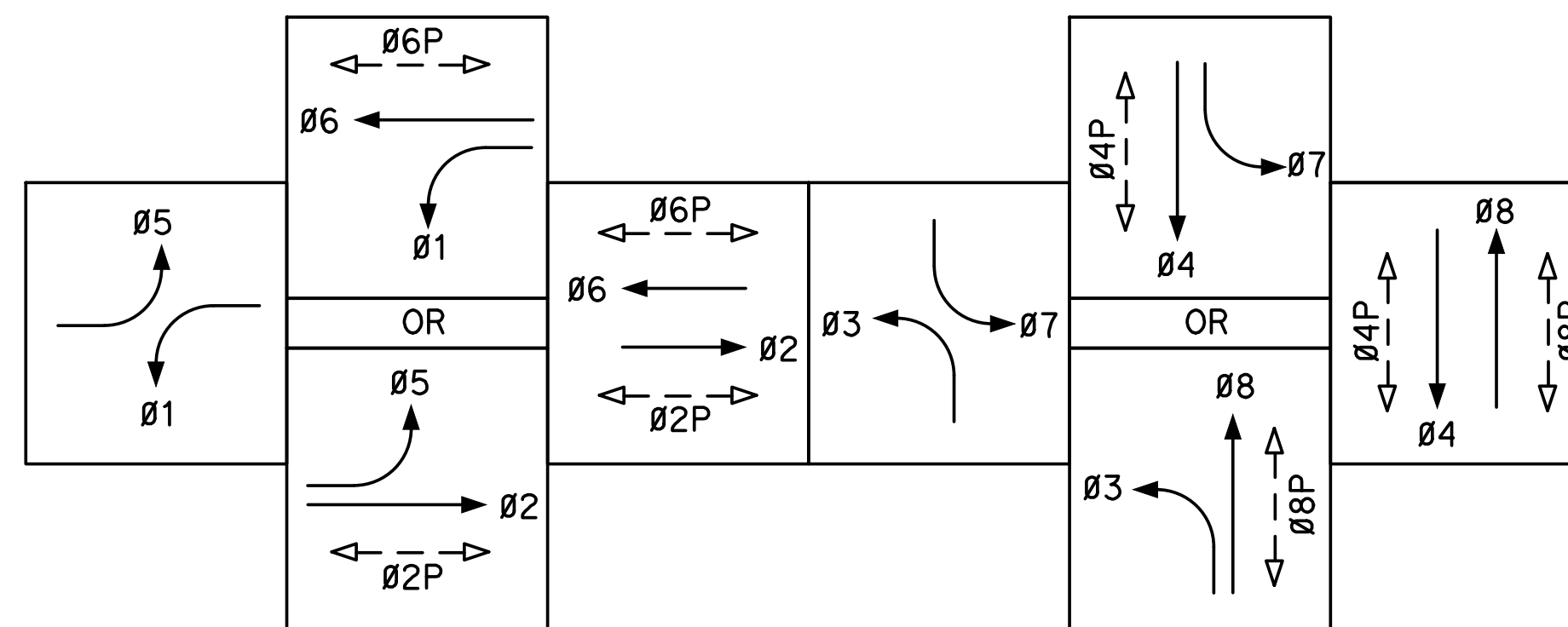
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NOTE:

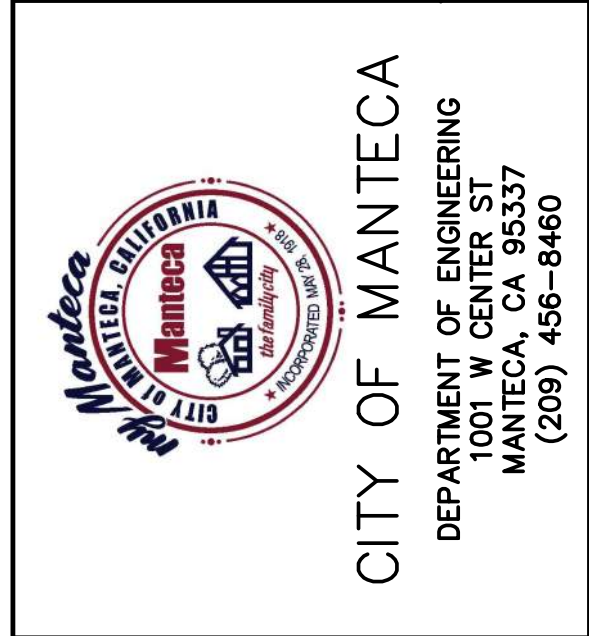
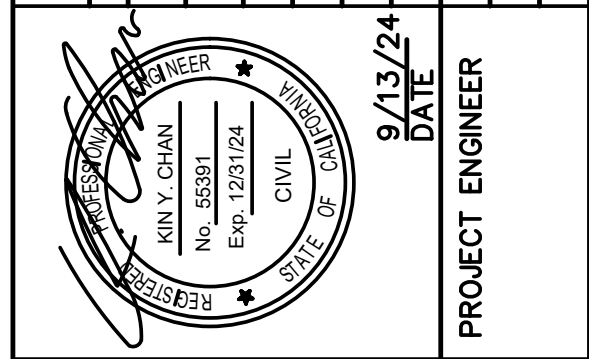
SEE SHEET E-1 FOR NOTES AND LEGEND.

LEGEND (FOR THIS SHEET ONLY):

- 1 REPLACE WITH A NEW APS WITH R10-3e (CA) 9" X 15" SIGN ON EXISTING POLE.
- 2 EXISTING SERVICE EQUIPMENT ENCLOSURE TO REMAIN.
- 3 EXISTING CONTROLLER ASSEMBLY TO REMAIN.
- 4 RC EXISTING PULL BOX. INSTALL NEW PULL BOX AT THE SAME LOCATION.
- 5 EXISTING 1½"C, 2 DLC.
- 6 EXISTING 2"C, 7 DLC.
- 7 EXISTING 2"C, 6 DLC.
- 8 EXISTING 1½"C, 3 DLC.
- 9 EXISTING 2"C, 5 DLC.
- 10 EXISTING 2"C, 2#6 (CONTROLLER), 2#8 (LIGHTING), 3#14 (PEU).
- 11 EXISTING 2"C, 1 DLC.



DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED	KIN Y. CHAN
DESIGNED	ANSON HUYNH
DRAWN	ANSON HUYNH
NO.	REVISIONS



PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/NORTHGATE DR

DRAWING	E-8
SHEET: 50 OF	54
SCALE	HORZ 1" = 20'
	VERT N/A

CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS									
	RUN NUMBER									
	1	2	3	4	5	6	7	8	9	10
No. 14 CONDUCTORS										
ø1			3	3	3	3				
ø2					3	3	3	3	3	
ø3	3	3	3	3	3	3				3
ø4			3	3	6	6	3			3
ø5		3	3	3	6	6	3	3	3	
ø6		3	3	3	3	3				
ø7					3	3	3	3		
ø8	3	3	3	3	6	6	3	3		
ø2P					2	2	2	2	2	
ø4P			2	2	4	4	2			2
ø6P		2	2	2	2	2				
ø8P	2	2	2	2	4	4	2	2		
APS ø2P					2	2	2	2		
APS ø4P			2	2	2	2				
APS ø6P	2	2	2	2	2	2				2
APS ø8P		2	2	2	4	4	2	2	2	
PEU					3	3	3	3	3	
SPARES	3	3	3	3	6	6	3	3	3	3
TOTAL No. 14	13	23	33	33	64	64	31	26	16	13
No. 8 CONDUCTORS										
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1	1	1
LIGHTING	2	2	2	2	2		2	2	2	
TOTAL No. 8	3	3	3	3	3	1	3	3	3	1
No. 6 CONDUCTORS										
SERVICE TO CONTROLLER						2				
DLC										
111U/119U		2	2	2	2	2				
212U/212L						2				
213L (BIKE)						1				
214U/214L						2				
315U/319U					2	2	2	2		
416U/416L			2	2	2	2				2
418U/418L			2	2	2	2				2
511U/511L				2	2	2				
5J9U				1	1	1				
6J2U/6J2L		2	2	2	2	2				
6J3L (BIKE)		1	1	1	1	1				
6J4U/6J4L		2	2	2	2	2				
7J5U/7J9L			2	2	2	2				2
8J6U					1	1	1	1	1	
8J8U/8J8L					2	2	2	2		
TOTAL DLC		7	13	16	21	26	5	5		6
EMERGENCY VEHICLE PREEMPTION CABLE	1	1	2	2	4	4	2	1	1	
APS CABLE	2 ⁺						2 ⁺	2 ⁺	2 ⁺	
CONDUIT SIZE (INCHES)	2½	3	3½	3½	3½	3-3"	3	3	3	3½
NEW (N) / EXISTING (E)	E	E	E	E	E	E	E	E	E	E
% FILL	13	17	20	22	34	17	19	16	9	9

"+" = INSTALL NEW CONDUCTOR(S)/CABLE(S) TO EXISTING CONDUIT
 "-" = REMOVE EXISTING CONDUCTOR(S)/CABLE(S) FROM EXISTING CONDUIT

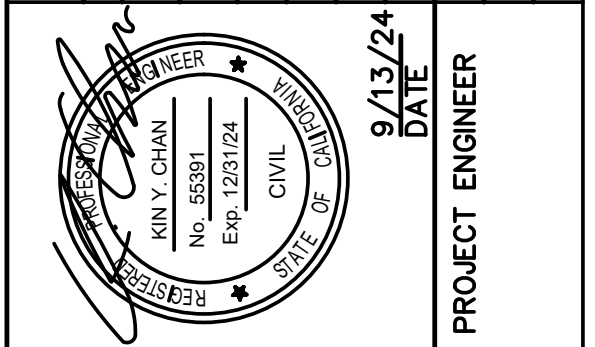
STANDARD AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		APS*		LED LUMINAIRE (WATTAGE)	REMARKS	
	TYPE	SIG. MA (FT)	LUM. MA (FT)	ø	MAST ARM	ø	POLE	ø	MOUNTING			ø
(a)	EXISTING 26-4-70	45'	12'	1	MAS	6	SV-1-T	6P	SP-1-T	4P	←	76 W SEE NOTE 1 ON SHEET E-8.
				6	MAS							
(B)	2 POST									6P	→	
(C)	1-A					3	TV-2-T	4P	SP-1-T			
				4								
(d)	EXISTING 26-4-70	40'	12'	3	MAS	8	SV-1-T	8P	SP-1-T	6P	←	76 W SEE NOTE 1 ON SHEET E-8.
				8	MAS							
(e)	EXISTING 1-A					5	TV-2-T	6P	SP-1-T	8P	→	SEE NOTE 1 ON SHEET E-8.
						6						
(f)	EXISTING 26-4-70	45'	12'	5	MAS	2	SV-1-T	2P	SP-1-T	8P	←	76 W SEE NOTE 1 ON SHEET E-8.
				2	MAS							
(g)	EXISTING 1-A					7	TV-2-T	8P	SP-1-T	2P	→	SEE NOTE 1 ON SHEET E-8.
						8						
(h)	EXISTING 24-4-100	35'	15'	7	MAS	4	SV-1-T	4P	SP-1-T			76 W
				4	MAS							
(i)	EXISTING 2 POST									2P	←	SEE NOTE 1 ON SHEET E-8.
(j)	EXISTING 1-A					1	TV-2-T	2P	SP-1-T	4P	→	SEE NOTE 1 ON SHEET E-8.
						2						

 = NEW EQUIPMENT

* = SEE GENERAL NOTE 11 ON SHEET E-1.

DATE	9/13/2024
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
APPROVED BY	
DESIGNED BY	KIN Y. CHAN
DRAWN BY	ANSON HUYNH
REVISIONS	



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

PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
MODIFYING SIGNAL AND LIGHTING NORTH MAIN ST/NORTHGATE DR

DRAWING	E-9
SHEET: 51 OF	54
SCALE	
HORIZ NO SCALE	
VERT	N/A

BID SET

NOTE:

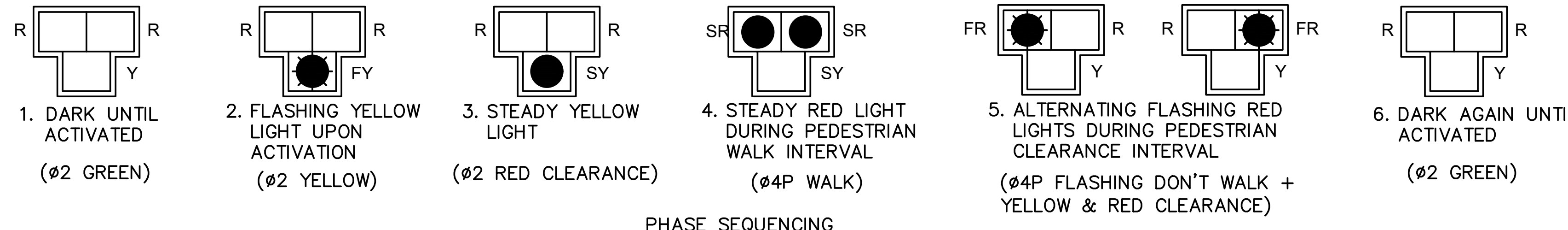
SEE SHEET E-1 FOR NOTES AND LEGEND.

LEGEND (FOR THIS SHEET ONLY):

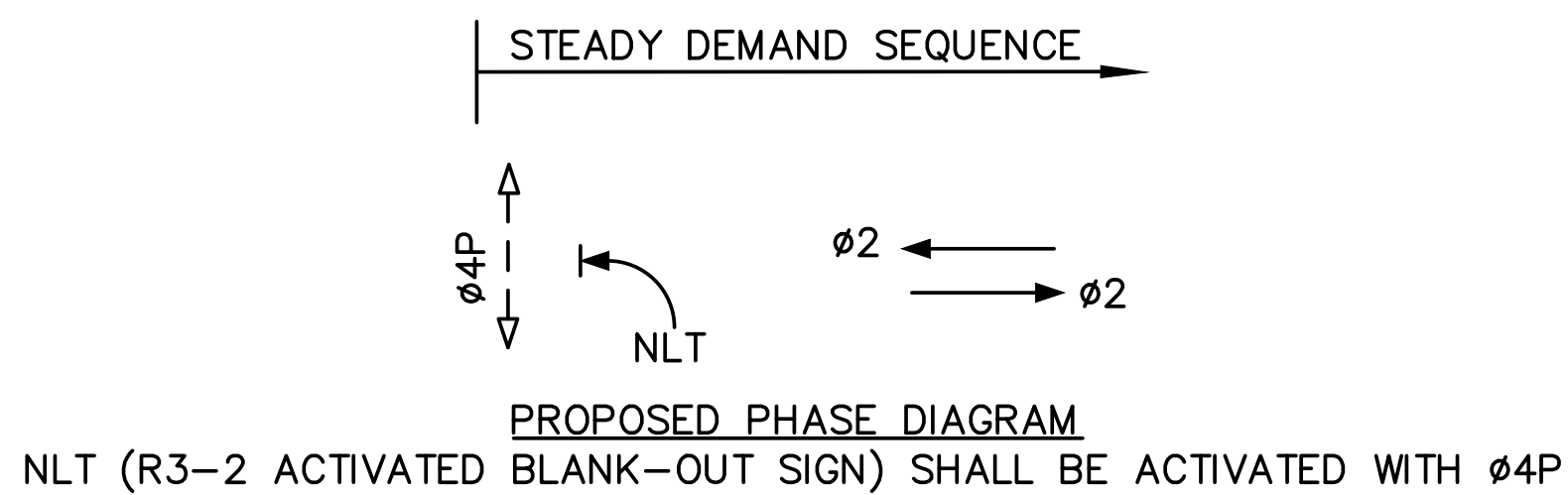
- 1 FURNISH AND INSTALL MODEL 2070LX CONTROLLER ASSEMBLY WITH OMNI EX SOFTWARE OR APPROVED EQUAL IN A MODEL 332LS CABINET WITH COMPLETE BBS. SEE CALTRANS STANDARD PLAN ES-3C FOR FOUNDATION DETAILS.
- 2 INSTALL TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. SEE CALTRANS STANDARD PLAN ES-2D FOR FOUNDATION DETAILS.
- 3 INSTALL 2-SECTION VEHICLE SIGNAL HEAD. SEE DETAIL A ON THIS SHEET.
- 4 INSTALL R3-2 ACTIVATED BLANK-OUT SIGN ON TOP OF POLE.
- 5 EXISTING STREET LIGHT TO REMAIN.
- 6 INSTALL W11-15 SIGN ON TRAFFIC SIGNAL POLE FACING NORTH.
- 7 INSTALL 2" C, 2#6 (120 V CONTROLLER), 2#8 (120 V LIGHTING), 2#8 (GROUND).
- 8 INSTALL 3" C, 3#2 (SERVICE).
- 9 INSTALL W11-15 SIGN ON TRAFFIC SIGNAL POLE FACING SOUTH.
- 10 INSTALL R9-3a SIGN ON EXISTING STREET LIGHT FACING WEST.
- 11 INSTALL R9-3A SIGN ON TRAFFIC SIGNAL POLE FACING EAST.
- 12 INSTALL 2" C, 2#6 (120 V CONTROLLER), 1#8 (GROUND).
- 13 INSTALL 2" C, 2#8 (120 V LIGHTING), 1#8 (GROUND).
- 14 COORDINATE WITH PG&E FOR SERVICE CONNECTION.

LEGEND (FOR THIS SHEET ONLY):

3-SECTION PHB VEHICLE SIGNAL HEAD WITH BACKPLATE. SEE DETAIL B ON THIS SHEET.

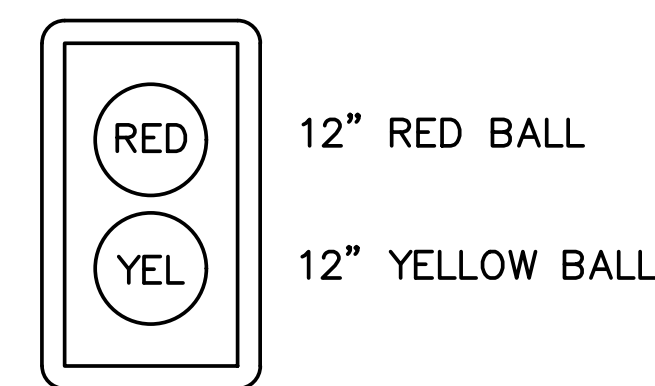


OPERATION SEQUENCE FOR PEDESTRIAN HYBRID BEACON

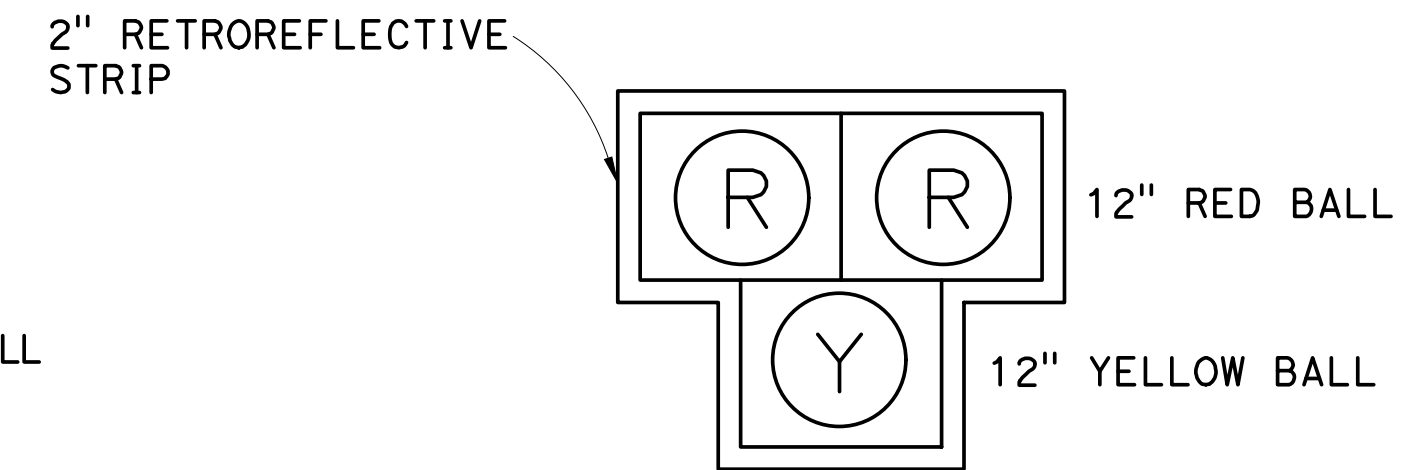


LEGEND:

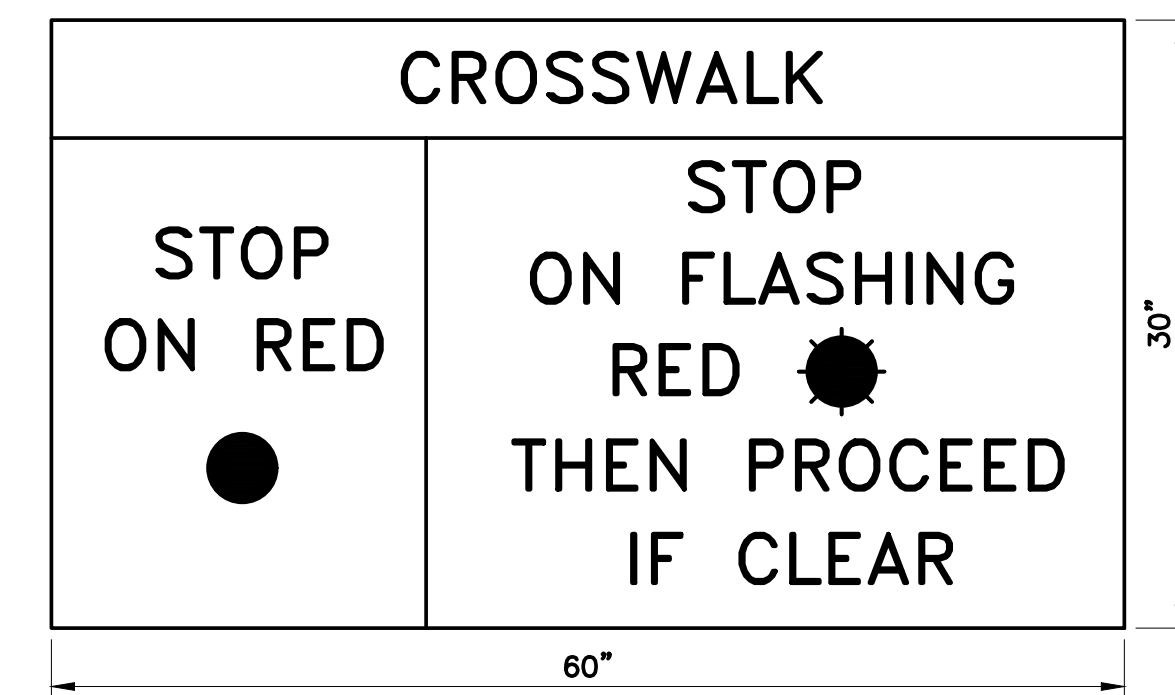
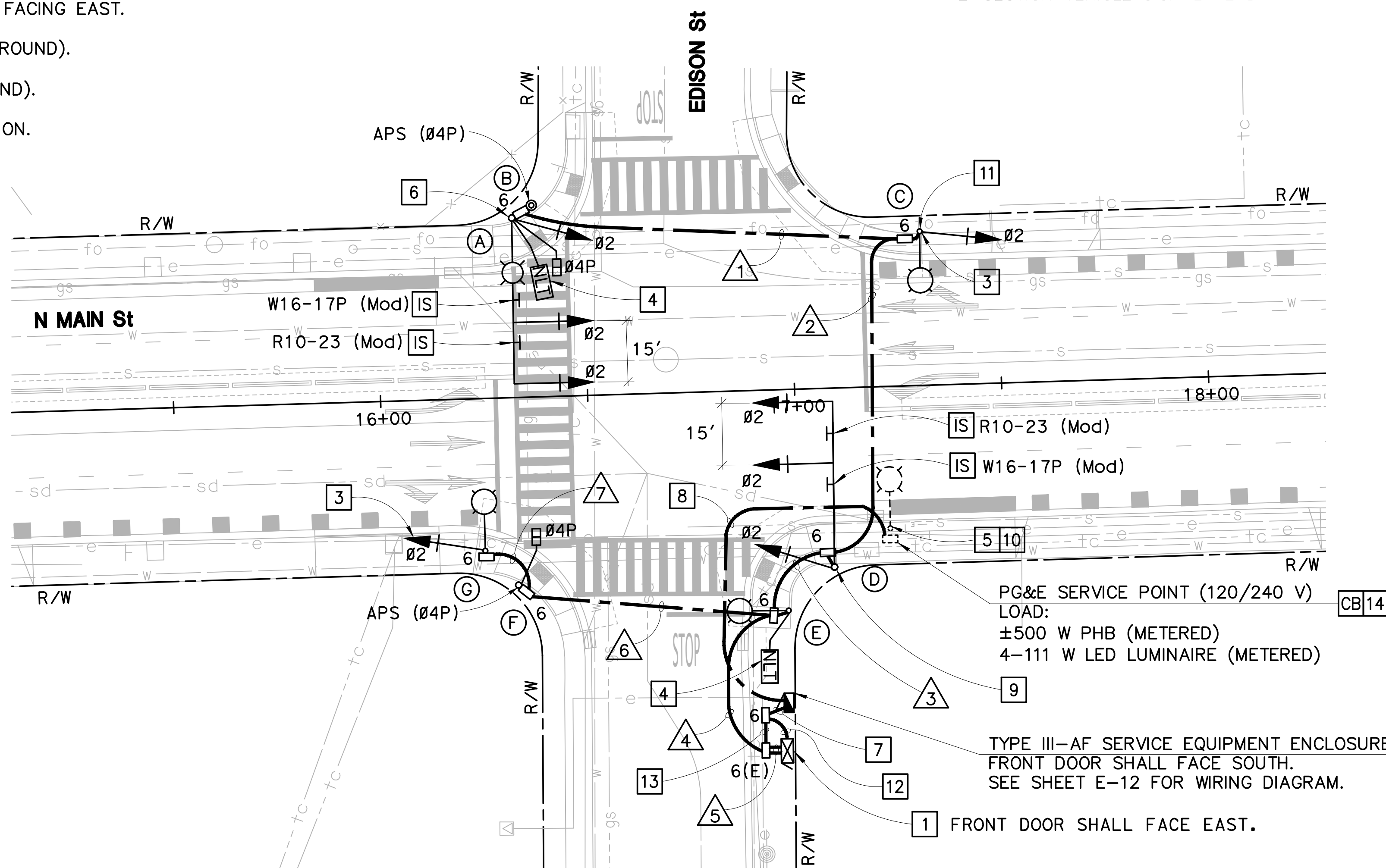
SR = STEADY RED
SY = STEADY YELLOW
FY = FLASHING YELLOW
FR = FLASHING RED



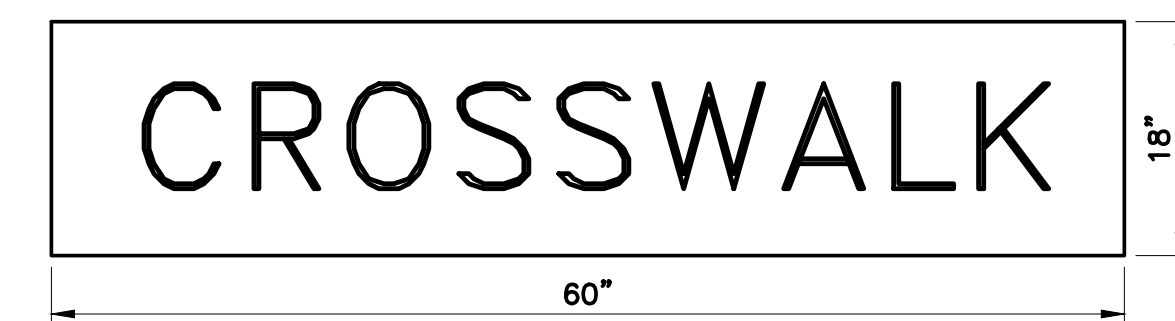
DETAIL A
NO SCALE
2-SECTION VEHICLE SIGNAL HEAD



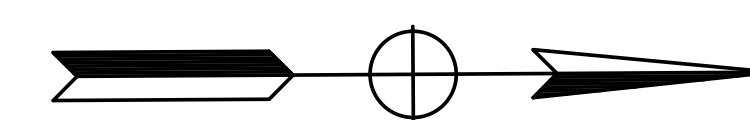
DETAIL B
NO SCALE
3-SECTION PHB VEHICLE SIGNAL HEAD



DETAIL C
NO SCALE
R10-23 (Mod)

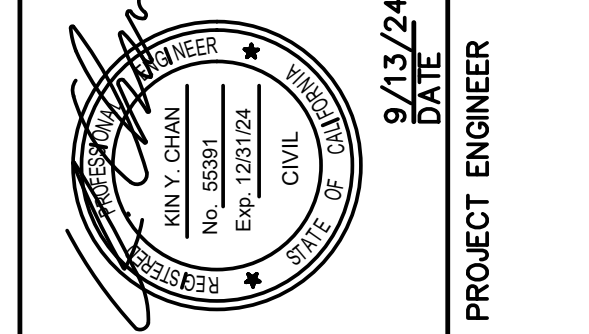


DETAIL D
NO SCALE
W16-17P (Mod)



BID SET

DATE	9/13/2024
APPROVED	KIN Y. CHAN
DESIGNED	ANSON HUYNH
DRAWN	ANSON HUYNH
CIP NO.	20005
GRID NO.	N/A
FILE NO.	HSPL NO. 5242(035)
REVISIONS	
NO.	



PLANS FOR THE CONSTRUCTION OF
MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT
PEDESTRIAN HYBRID BEACON SYSTEM NORTH MAIN St/EDISON St

DRAWING	E-10
SHEET: 52 OF	54
SCALE	1" = 20'
HORZ	N/A
VERT	N/A

C:\Project\2023\23-755 Main Street Bike & Ped Improvement - Manteca\09-PLANS\Traffic\Signal.dwg Sep 05, 2024 - 4:32pm

CONDUIT AND CONDUCTOR SCHEDULE								
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	RUN NUMBER							
	1	2	3	4	5	6	7	8
No. 14 CONDUCTORS								
Ø2	3	3	3	6	6	3	3	
Ø4P	2	2	2	4	4	2		
APS Ø4P	2	2	2	4	4	2		
SPARES	3	3	3	6	6	3	3	
TOTAL No. 14	10	10	10	20	20	10	6	
No. 10 CONDUCTORS								
R3-2 ACTIVATED BLANK-OUT SIGN	2	2	2	2	2			
No. 8 CONDUCTORS								
SIGNAL NEUTRAL	1	1	1	1	1	1	1	
LIGHTING (120 V)	2	2	2	2		2	2	
GROUND	1	1	1	1		1	1	
TOTAL No. 8	4	4	4	4	1	4	4	
CONDUIT SIZE (INCHES)	3	3	3	3	2-3"	3	3	
% FILL	7	7	7	10	5	6	5	

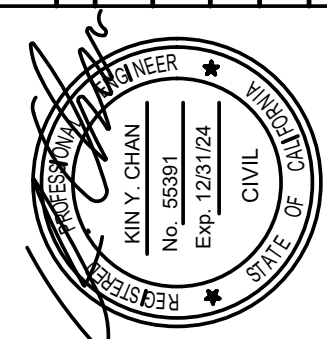

STANDARD AND EQUIPMENT SCHEDULE												
NO.	STANDARD			VEHICLE SIGNAL MOUNTING			PEDESTRIAN SIGNAL		APS**		LED LUMINAIRE (WATTAGE)*	REMARKS***
	TYPE	SIG. MA (FT)	LUM. MA (FT)	Ø	MAST ARM	Ø	POLE	Ø	MOUNTING	Ø		
(A)	26-4-100	40'	15'	2	MAS-3A	2	SV-2-TA (BLANK-OUT SIGN)	4P	SP-1-T			IS R10-23 (Mod) AND W16-17P (Mod) SIGNS ON SMA. SEE NOTE 4 AND 6 ON SHEET E-10.
(B)	2 POST									4P	→	
(C)	15TS		15'			2	SV-1-T					SEE NOTE 3 ON SHEET E-10.
(D)	27-4-100	40'		2	MAS-3A	2	SV-1-T					IS R10-23 (Mod) AND W16-17P (Mod) SIGNS ON SMA. SEE NOTE 9 ON SHEET E-10.
(E)	15TS		15'				SV-1-T (BLANK-OUT SIGN)					SEE NOTE 4 ON SHEET E-10.
(F)	1-A (7')							4P	TP-1-T	4P	→	
(G)	15TS		15'			2	SV-1-T					SEE NOTE 3 ON SHEET E-10.

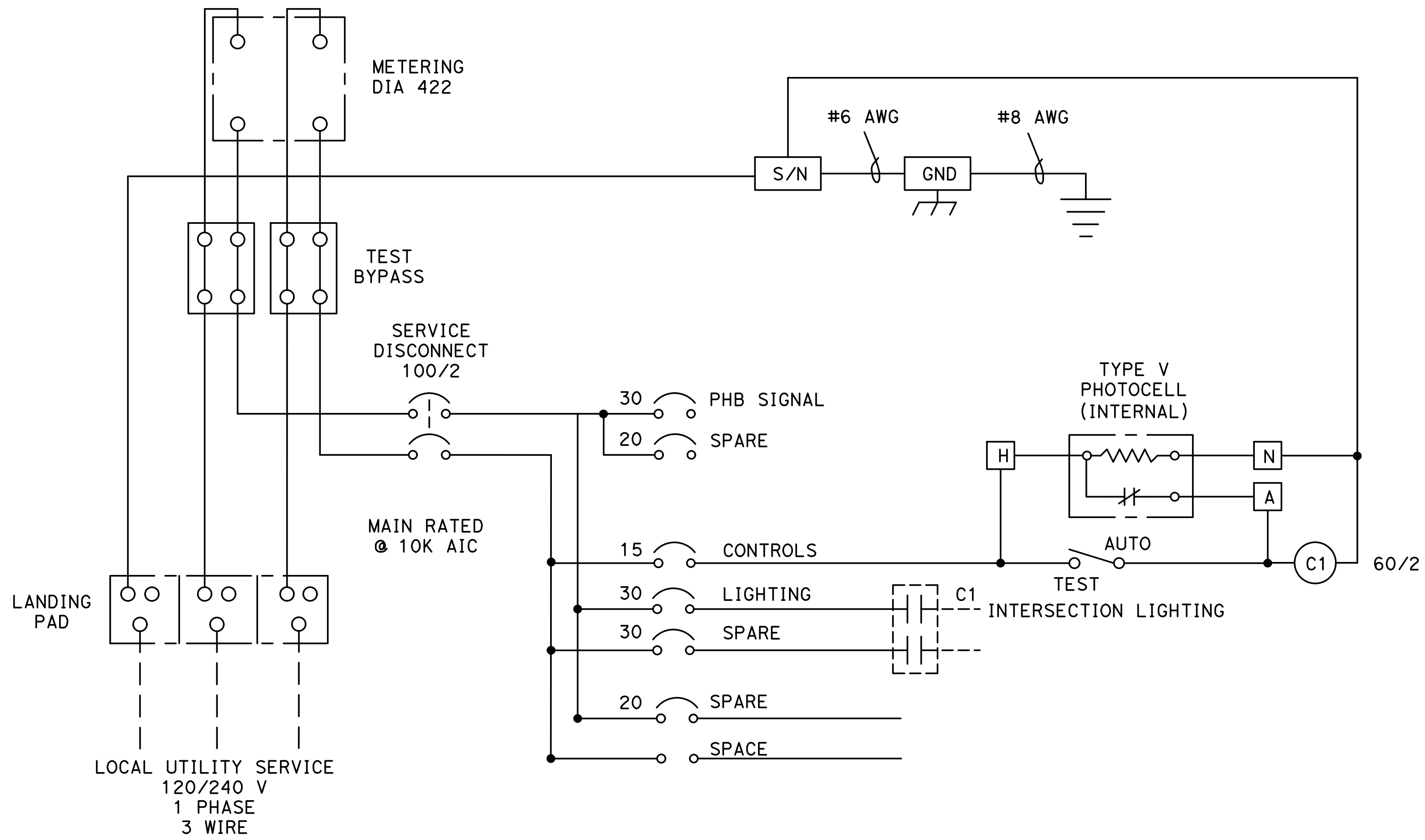
* LED LUMINAIRE AT THE INTERSECTION SHALL BE LEOTEK GCM3-60J-MV-30K-3R-GY-160-PCR7-CR-WL-DSC-CF-CT-SP2-AD.

** SEE GENERAL NOTE 11 ON SHEET E-1.

*** SEE SHEET PD-7 FOR SIGN DETAILS.

BID SET

	DATE 9/13/2024	CIP NO. 20005	GRID NO. N/A	FILE NO. HSPL NO. 5242(035)	
APPROVED	KIN Y. CHAN	DESIGNED	ANSON HUYNH	DRAWN	ANSON HUYNH
DATE	9/13/24	NO.	REVISIONS	NO.	DATE
					
					
<p>PLANS FOR THE CONSTRUCTION OF</p> <p>MAIN ST BIKE AND PEDESTRIAN IMPROVEMENT PROJECT</p> <p>PEDESTRIAN HYBRID BEACON SYSTEM</p> <p>NORTH MAIN St/EDISON St</p>					
<p>CITY OF MANTECA DEPARTMENT OF ENGINEERING 1001 W CENTER ST MANTECA, CA 95337 (209) 456-8460</p>					
DRAWING	E-11				
SHEET: 53 OF	54				
SCALE	N/A				
HORZ NO SCALE	N/A				
VERT NO SCALE	N/A				



WIRING DIAGRAM
NO SCALE

BID SET

PLANS FOR THE CONSTRUCTION OF

MAIN ST BIKE AND
PEDESTRIAN
IMPROVEMENT PROJECT

ELECTRICAL DETAILS

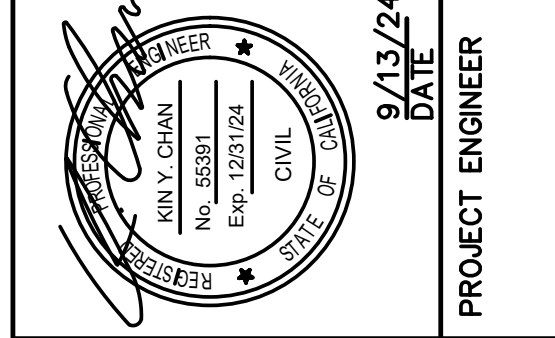
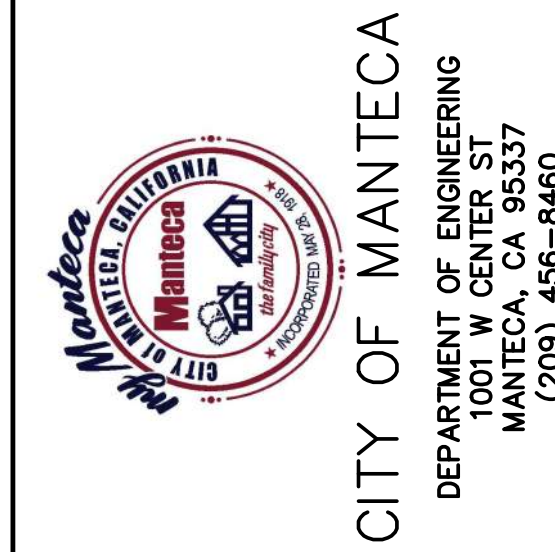
DRAWING
E-12

SHEET: 54 OF 54

SCALE

HORZ NO SCALE

VERT N/A



PROJECT ENGINEER

APPROVED	KIN Y. CHAN	DATE	9/13/24
DESIGNED	ANSON HUYNH	CIP NO.	20005
DRAWN	ANSON HUYNH	GRID NO.	N/A
NO.		FILE NO.	HSIPL NO. 5242(035)
REVISIONS		BY	DATE