

City of Petaluma, California STREET REHABILITATION

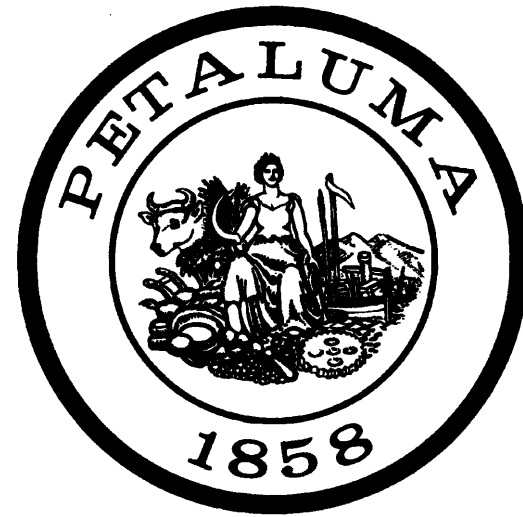
C16102248 - PROJECT A

RECYCLED WATER MAIN EXTENSION

C16102248 - PROJECT B

MARIA DRIVE, RAINIER AVE TO S MCDOWELL BLVD

VOLUME 2 OF 2



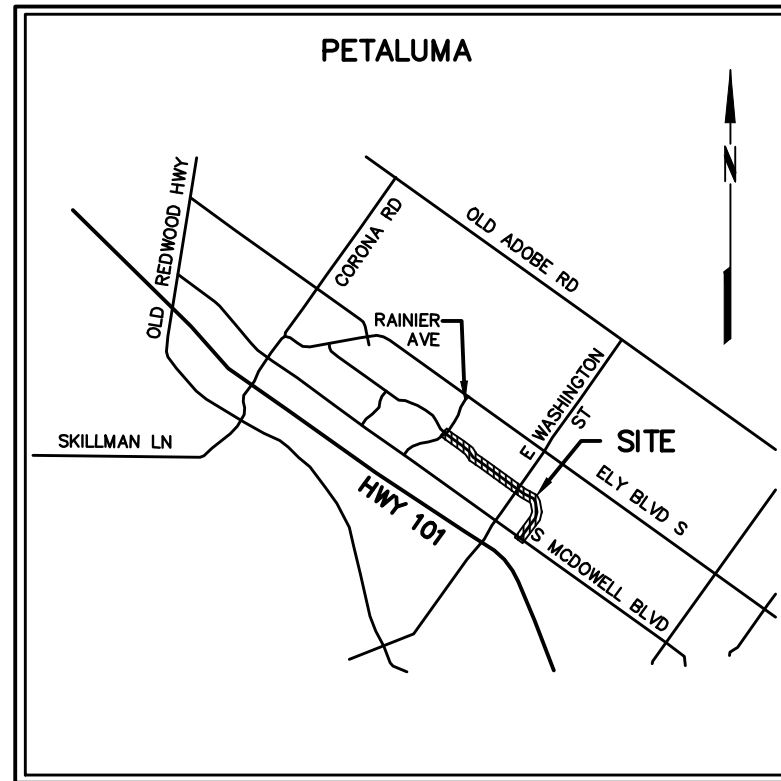
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VICE MAYOR
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COUNCIL MEMBERS
Brian Barnacle
Mike Healy
Karen Nau
Dennis Pocekay
John Shribbs

CITY MANAGER
Peggy Flynn

DIRECTOR OF PUBLIC WORKS & UTILITIES
Christopher Bolt



VICINITY MAP
NOT TO SCALE

RECORD PLAN

I _____ HEREBY STATE THAT THESE RECORD PLAN CHANGES ARE COMPLETE FROM INFORMATION FURNISHED BY THE PROJECT CONTRACTOR, SOILS ENGINEER AND MY OFFICE. I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE THE THE WORK WAS DONE IN ACCORDANCE WITH THE FINAL APPROVED PLANS. THE ENGINEER AND THE CITY WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. FIELD VERIFICATION OF CRITICAL FACTS AND DATA SHOULD BE MADE IF THESE DOCUMENTS ARE TO BE USED AS A BASIS FOR FUTURE WORK. ENGINEER'S SIGNATURE _____ DATE: _____



Know what's below.
Call before you dig.

CIVIL ENGINEER: BKF ENGINEERS
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ALL PROJECT PLANS HAVE BEEN PREPARED AND REVIEWED TO COMPLY WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND/OR THE CALIFORNIA BUILDING STANDARDS CODE (CBCS).

THESE PROJECT PLANS CONTAIN ELEMENT(S) THAT ARE NOT "TECHNICALLY FEASIBLE" AND/OR CAN'T MEET THE APPLICABLE CBCS BECAUSE IT WOULD CREATE AN "UNREASONABLE HARDSHIP." PLEASE SEE THE WRITTEN ANALYSIS SUPPORTING THIS DETERMINATION FILED UNDER THE PROJECT FILE.

DESIGNED BY RD 9/26/2023
SIGNATURE DATE

APPROVED BY: _____
KEN EICHSTAEDT P.E. C42058
SENIOR TRAFFIC ENGINEER

DESIGNED BY: RD 9/26/2023
REBECCA DOWER P.E. C80868
PROJECT MANAGER

	SIGNATURE	DATE
CITY ENGINEER		
ENGINEERING MANAGER		
FIRE MARSHAL		
PARKS		
PLANNING		
POLICE		
UTILITY MANAGER		



PROJECT NO.
C16102248



CITY OF PETALUMA
PUBLIC WORKS & UTILITIES
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MARIA DRIVE - STREET REHABILITATION
RAINIER AVE TO S MCDOWELL BLVD

SHEET

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MARIA DRIVE - STREET REHABILITATION
RAINIER AVE TO S MCDOWELL BLVD

SHEET INDEX

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GENERAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF PETALUMA DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL OBTAIN RELEVANT PERMITS AND APPROVALS REQUIRED BY THE CITY OF PETALUMA PRIOR TO COMMENCING WORK. A TRAFFIC CONTROL PLAN STAMPED BY A REGISTERED CIVIL OR TRAFFIC ENGINEER MUST BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS IS NOT RESPONSIBLE FOR THE MISUSE OF, OR UNAUTHORIZED CHANGES MADE TO THESE DRAWINGS. OBTAIN WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL WHO PREPARED THESE DRAWINGS PRIOR TO MAKING CHANGES.

SPOILS AND OTHER UNUSED MATERIAL SHALL BE REMOVED AS THEY ARE GENERATED AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL AND THE CITY OF PETALUMA, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS, AND THAT THE CITY OF PETALUMA AND THE DESIGN PROFESSIONAL ASSUME NO RESPONSIBILITY FOR OBSTRUCTIONS WHICH MAY BE ENCOUNTERED.

THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS. IF THE CONTRACTOR SUSPECTS THAT WORK WILL BE CONDUCTED IN AN AREA WHICH MAY RESULT IN THE DISTURBANCE OF SURVEY MONUMENTS, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING TO LOCATE SAID MONUMENTS PRIOR TO DISTURBANCE, RE-ESTABLISH MONUMENTS WHICH HAVE BEEN DISTURBED AS A RESULT OF CONSTRUCTION AND FILE THE APPROPRIATE DOCUMENTATION WITH THE COUNTY ONCE THE MONUMENTS ARE RESET AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION HOURS SHALL BE LIMITED TO 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS. THIS RESTRICTION INCLUDES THE START UP OF ANY MOTORIZED EQUIPMENT. ALL CONTRACTORS' EQUIPMENT SHALL BE PROPERLY MUFFLED AND SHALL BE SHUT DOWN WHEN NOT IN USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY. REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS INCURRED.

RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF UTILITIES WITHIN THE PROJECT AREA TO HAVE THEIR FACILITIES ADJUSTED TO GRADE.

ADA COMPLIANCE: CONSTRUCTION CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. FAILURE TO COMPLY WITH THE ADA CAN HAVE SERIOUS CONSEQUENCES FOR THE CONTRACTOR. SUCH FAILURE MAY RESULT IN LAWSUITS FOR REGULATORY ACTIONS BY THE DEPARTMENT OF JUSTICE OR THE STATE ATTORNEY GENERAL.

EXISTING CONCRETE SHALL BE REMOVED AT EXPANSION OR WEAKENED PLANE JOINTS OR AT SAWCUTS AS FIELD MARKED BY THE CITY ENGINEER. SAW CUTS MUST GO ENTIRELY THROUGH THE CONCRETE.

NO CONCRETE SHALL BE PLACED UNTIL THE AGENCY ENGINEER HAS INSPECTED AND APPROVED FORMS AND SUBGRADE/BASE.

THE DESIGNATED DIMENSIONS AND SLOPES MAY BE MODIFIED TO ACCOMMODATE EXISTING ADJACENT FACILITIES SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

CURB, GUTTER AND SIDEWALK SHALL COMPLY WITH CITY OF PETALUMA CONSTRUCTION STANDARDS 202.1, 203.1, 204.1, BUT CURB HEIGHT MAY VARY AS SHOWN ON PLAN AND TO FIT FIELD CONDITIONS. CONTRACTOR TO PROVIDE #4 REINFORCING BARS AT 24" LONGITUDINALLY AND HORIZONTALLY WITHIN NEW SIDEWALK, DRIVEWAY, AND CURB RAMP AREAS.

CURB RAMPS AND DETECTABLE WARNINGS SHALL COMPLY WITH CITY OF PETALUMA CONSTRUCTION STANDARDS 206.1, 206.2, AND 206.3.

GRADING, EROSION AND SEDIMENT CONTROL NOTES

THE CONTRACTOR SHALL KEEP THE WORK SITE, STAGING AREAS AND OTHER AREAS USED BY THE CONTRACTOR IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY ACCUMULATION OF TRASH. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH, RUBBISH AND WASTE MATERIALS OF ANY KIND GENERATED BY THE CONTRACTOR, SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR ON A DAILY BASIS.

THE CONTRACTOR SHALL ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.

EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.

THE CONTRACTOR SHALL CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.

THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN EVENT, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).

AT A MINIMUM, ALL BMPs SHALL BE INSPECTED EACH WORKING DAY AND BEFORE ALL RAIN EVENTS. BMPs THAT REQUIRE MAINTENANCE OR REPLACEMENT TO FUNCTION PROPERLY SHALL BE COMPLETED BEFORE THE NEXT FORECASTED RAIN, OR WITHIN THE NEXT THREE (3) WORKING DAYS IF NO RAIN IS PREDICTED. MAINTENANCE INCLUDES REMOVAL OF ACCUMULATED SEDIMENT AND TRASH.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT TO MINIMIZE AIRBORNE POLLUTANTS.

STORM DRAIN SYSTEM SHALL BE KEPT FREE OF DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION. IT IS NOT ALLOWED TO WASH DIRT/DEBRIS DOWNSTREAM IN PIPES.

PRIOR TO ANY GRADING OPERATION, THE CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AROUND THE DRIP LINES OF TREES TO BE SAVED. THE CUTTING, FILLING, PAVING OR TRENCHING WITHIN ROOT ZONES OF TREES TO BE SAVED MUST BE REVIEWED AND APPROVED BY A CITY APPROVED ARBORIST AND PERFORMED UNDER THEIR ON-SITE SUPERVISION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES TO THE SATISFACTION OF THE CITY OF PETALUMA. EROSION AND SEDIMENT CONTROL MEASURES AND THEIR INSTALLATION SHALL BE ACCOMPLISHED USING BEST MANAGEMENT PRACTICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY TO THE SATISFACTION OF THE CITY OF PETALUMA.

UTILITIES

EXPOSE EXISTING UTILITIES PRIOR TO TRENCHING TO VERIFY THE ALIGNMENTS AND ELEVATIONS OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS. IF THE EXPOSED UTILITY IS DETERMINED TO BE IN A LOCATION WHICH IS NOT REFLECTED BY THE CONSTRUCTION DOCUMENTS, NOTIFY THE ENGINEER AND THE CITY IN WRITING SO THAT APPROPRIATE ADJUSTMENTS CAN BE MADE.

REPORT UTILITY CONFLICTS TO THE OWNER'S REPRESENTATIVE IN WRITING AS THEY ARE ENCOUNTERED SO THAT THE OWNER AND OWNER'S REPRESENTATIVE CAN MAKE A DECISION AS TO HOW THE CONTRACTOR SHOULD PROCEED WITH THE WORK.

PROVIDE TRENCHING IN ACCORDANCE WITH CITY OF PETALUMA STANDARD 219.1 AND 219.2.

COORDINATE WITH UTILITY COMPANIES, FURNISH, INSTALL, TEST AND OBTAIN INSPECTIONS FOR UNDERGROUND IMPROVEMENTS PRIOR TO SURFACING.

UTILITY CONFLICTS MAY OCCUR IN THOSE INSTANCES WHERE TWO UTILITIES CROSS AND LACK THE REQUIRED SEPARATION, OR IN THOSE INSTANCES WHERE AN EXISTING UTILITY HAS NOT BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS.

CROSSING UTILITIES WHICH HAVE BEEN IDENTIFIED IN THE CONSTRUCTION DOCUMENTS MAY NOT BE CONSTRUED AS UTILITY CONFLICTS. THE CONTRACTOR SHALL INSTALL GRAVITY UTILITIES TO THE LINES AND ELEVATIONS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND INSTALL OTHER UTILITIES ABOVE OR BELOW GRAVITY UTILITIES WHILE COMPLYING WITH THE MINIMUM COVER REQUIREMENTS FOR EACH UTILITY INSTALLED.

THE CONTRACTOR IS CAUTIONED NOT TO ORDER PRECAST ITEMS OR INSTALL IMPROVEMENTS UNTIL CONFLICTS ARE RESOLVED. IMPROVEMENTS INSTALLED OR ORDERED PRIOR TO CONFLICT RESOLUTION SHALL BE DONE SOLELY AT THE CONTRACTOR'S RISK AND AT NO EXPENSE TO THE OWNER, THE DESIGN PROFESSIONAL, OR THE CITY OF PETALUMA.

UTILITY LENGTHS SHOWN REFLECT ROUNDED LENGTHS MEASURED HORIZONTALLY BETWEEN THE CENTERS OF STRUCTURES. THE CONTRACTOR SHALL VERIFY SLOPED UTILITY LENGTHS IN THE FIELD PRIOR TO ORDERING MATERIAL.

THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY RECLAIMED WATER SYSTEM INCLUDING CONNECTIONS BYPASSING THE METER FOR TESTING ONSITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. SUCH CONNECTIONS MAY BE SEVERED BY THE UTILITIES DEPARTMENT AND MAY RESULT IN PENALTIES, INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.

EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND HAVE BEEN LOCATED BASED ON TOPOGRAPHIC FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL WHO PREPARED THESE DRAWINGS, THE OWNER, AND THE CITY OF PETALUMA ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE GASKETED JOINT, PRESSURE CLASS 235 DR18 MINIMUM, (PVC) C905 WHERE ANNOTATED AS RECLAIMED WATER (RW) ON THE CONSTRUCTION DRAWINGS. RW IS TO BE INSTALLED WITH A MINIMUM COVER OF 48-INCHES.

UNLESS OTHERWISE NOTED, THE HORIZONTAL ALIGNMENT OF PROPOSED RECLAIMED WATER MAIN SHALL BE 4-FEET CLEAR OF ALL POTABLE WATER MAINS AND SERVICE LATERALS, STORM DRAINS, AND GAS, ELECTRICAL, TELEPHONE AND COMMUNICATION LINES. HORIZONTAL ALIGNMENT OF PROPOSED RECLAIMED WATER MAIN SHALL BE 5-FEET CLEAR FROM ALL MANHOLES AND INLETS. PROPOSED RECLAIMED WATER MAIN SHALL HAVE 6-INCHES OF VERTICAL SEPARATION FROM ALL UNDERGROUND UTILITIES. ALIGNMENT OF PROPOSED RECLAIMED WATER MAIN SHALL MEET ALL HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS IN ACCORDANCE WITH CITY OF PETALUMA RECYCLED WATER STANDARDS. PROVIDE FELT EXPANSION JOINT MATERIAL BETWEEN UTILITIES WHERE CLEARANCE IS LESS THAN 6-INCHES.

STRIPING AND SIGNING NOTES

UNLESS OTHERWISE SHOWN ON PLAN, THE CONTRACTOR SHALL RESTORE EXISTING STRIPING, SIGNAGE, CURB PAINT, ETC. THAT IS DAMAGED OR REMOVED (AND DOES NOT CONFLICT WITH THE PROPOSED STRIPING & SIGNAGE IMPROVEMENTS) AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION.

STRIPING, PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS AND THE CURRENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

PROPOSED STRIPING AND MARKING SHALL BE INSTALLED THE SAME DAY AS THE REMOVAL OF THE EXISTING STRIPING AND MARKINGS. IF NOT, CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKERS UNTIL PROPOSED STRIPING AND MARKING ARE INSTALLED.

EXISTING STRIPING AND MARKINGS TO BE REMOVED SHALL BE REMOVED BY SAND BLASTING OR AN EQUIVALENT METHOD WHICH PERMANENTLY REMOVES THE STRIPING WITHOUT JEOPARDIZING THE INTEGRITY OF THE EXISTING PAVEMENT.

PAVEMENT LEGENDS, CROSSWALKS AND STOP BARS SHALL BE INSTALLED BY USING THERMOPLASTIC IN ACCORDANCE WITH CALIFORNIA MUTCD AND CALTRANS STANDARD SUPPLEMENTAL SPECIFICATIONS.

ALL SIGNING SHALL COMPLY WITH MUTCD AND STATE SUPPLEMENTAL GUIDELINES. SHALL BE REFLECTORIZED HIGH INTENSITY SHEETING AND SHALL BE OF ALUMINUM ALLOY MATERIAL.

MAPPING NOTES

THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES. THE PROFESSIONAL PREPARING THESE DRAWINGS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE UNDERGROUND FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

TREE DIAMETERS ARE MEASURED AT CHEST HEIGHT (48"+). DRIFLINE DIAMETERS ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED TREE ARBORIST.

MISCELLANEOUS BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DATA AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.

TOPOGRAPHIC INFORMATION SHOWN HEREON WAS MAPPED BY BKF ENGINEERS IN JUNE 2022 VIA AERIAL DRONE SURVEY AND SUPPLEMENTED WITH FIELD SURVEYS COMPLETED IN: JUNE 2022.

BENCHMARK: MAG NAIL IN AC, LOCATION SHOWN HEREON, ELEVATION 33.57'. ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) ESTABLISHED BY EPOCH 2017.50 ELLIPSOID HEIGHTS AS PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER AND NGS GEOID 18.

BASIS OF BEARINGS: BEARINGS ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83) (2011), EPOCH 2017.50, AS PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER, CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 2. DISTANCES ARE GROUND BASED. MULTIPLY BY A COMBINED SCALE FACTOR OF 1.0000212307 TO OBTAIN GRID DISTANCES.

SYMBOLS & LEGEND

Legend table defining symbols for existing and proposed features. Includes categories like 'EXISTING' and 'PROPOSED' for items such as benchmarks, utility lines, trees, and pavement treatments. Includes a keynote diagram and cross-section identification symbols.

ABBREVIATIONS

Table of abbreviations and their corresponding full names. Includes terms like '± MORE OR LESS', 'L LENGTH', 'AB AGGREGATE BASE', 'LF LINEAR FOOT', etc.



PROJECT NO. C16102248



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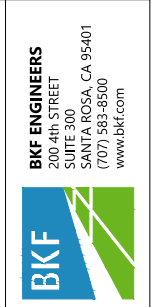
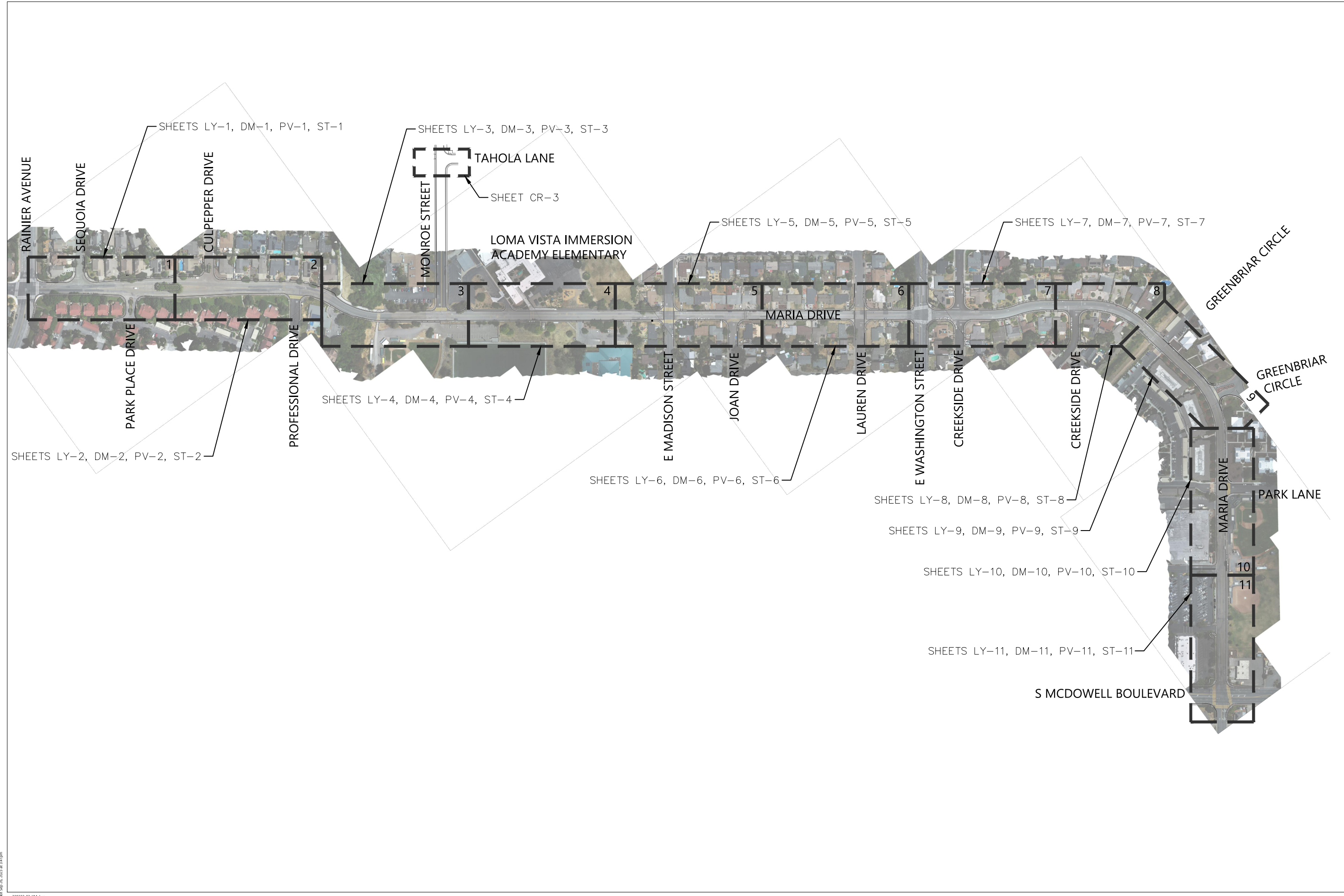


MARIA DRIVE - STREET REHABILITATION RAINIER AVE TO S MCDOWELL BLVD PROJECT INFORMATION AND GENERAL NOTES

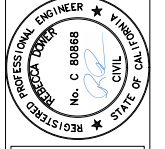
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GN-1

3 OF 83



PROJECT NO.
C16102248



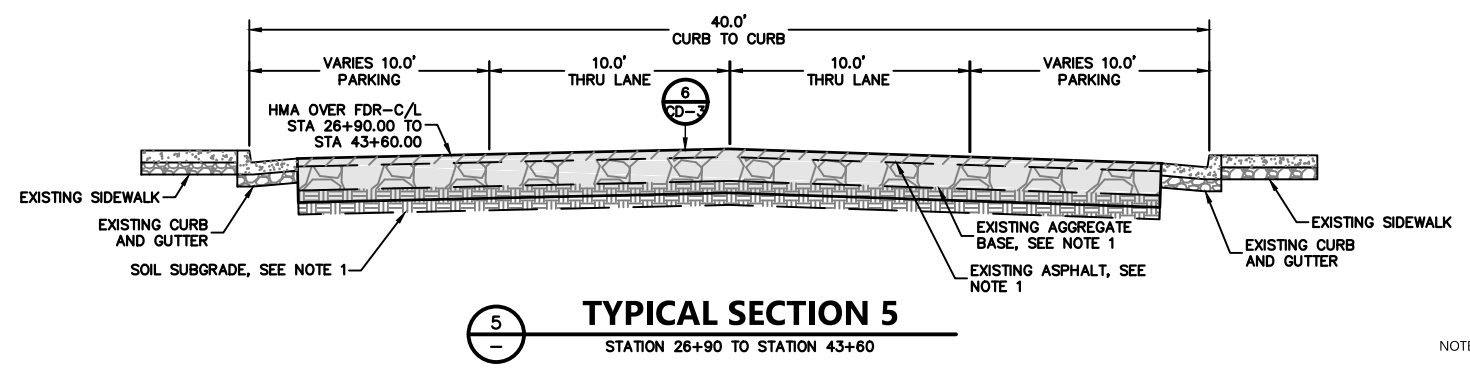
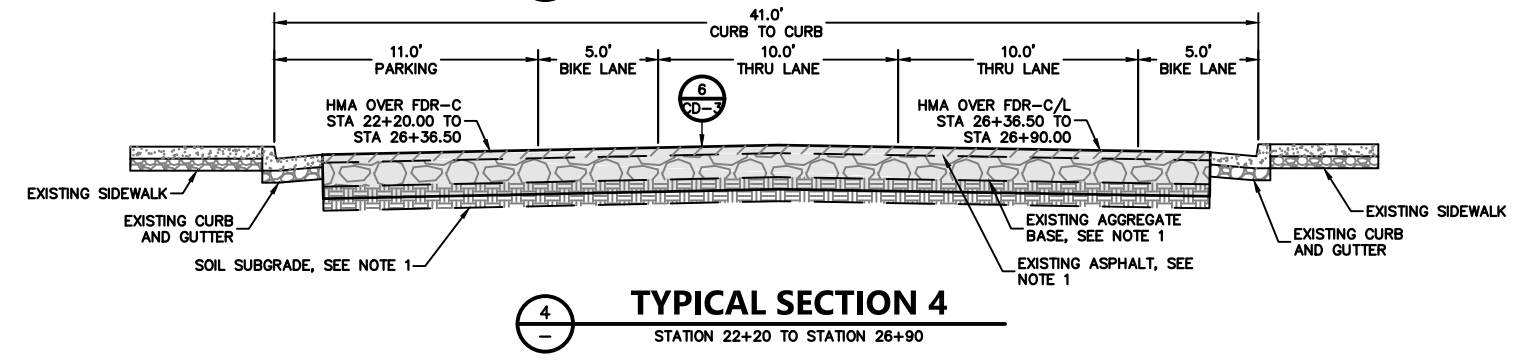
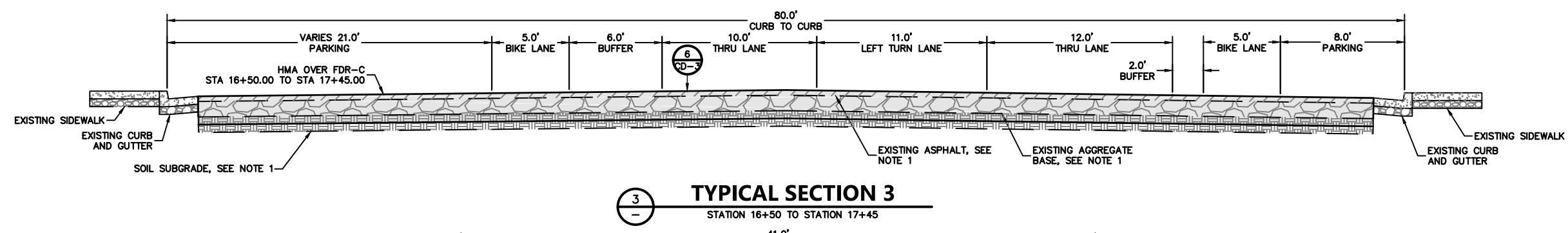
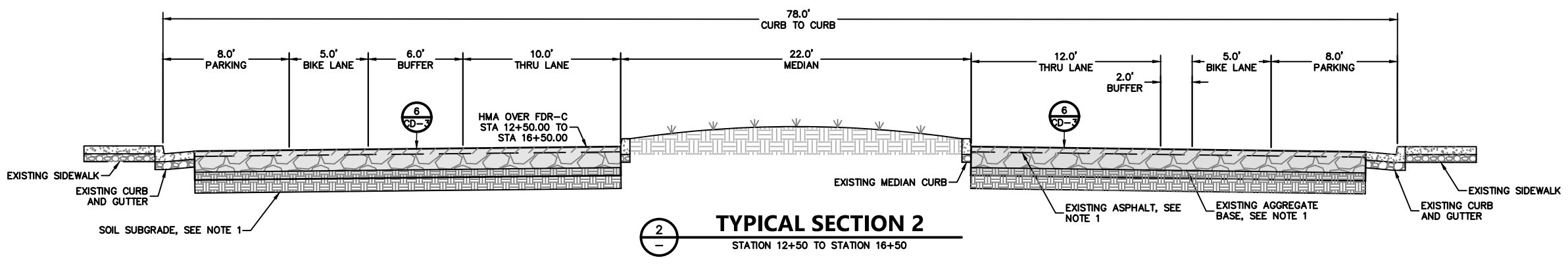
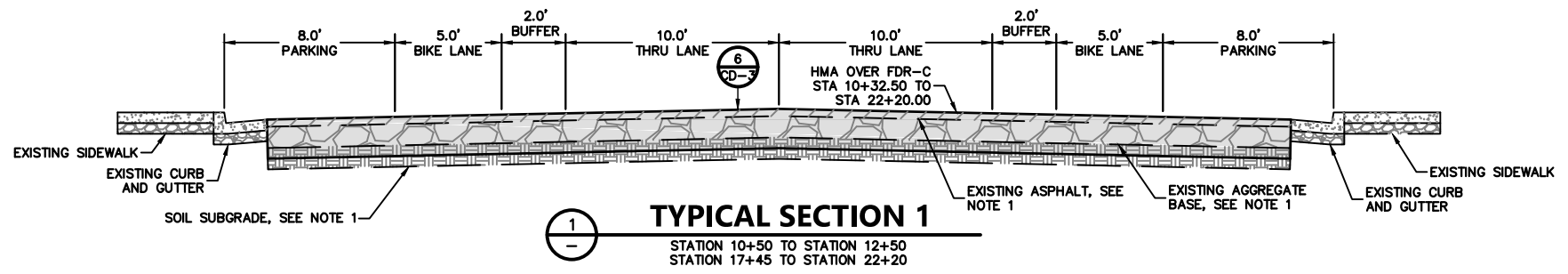
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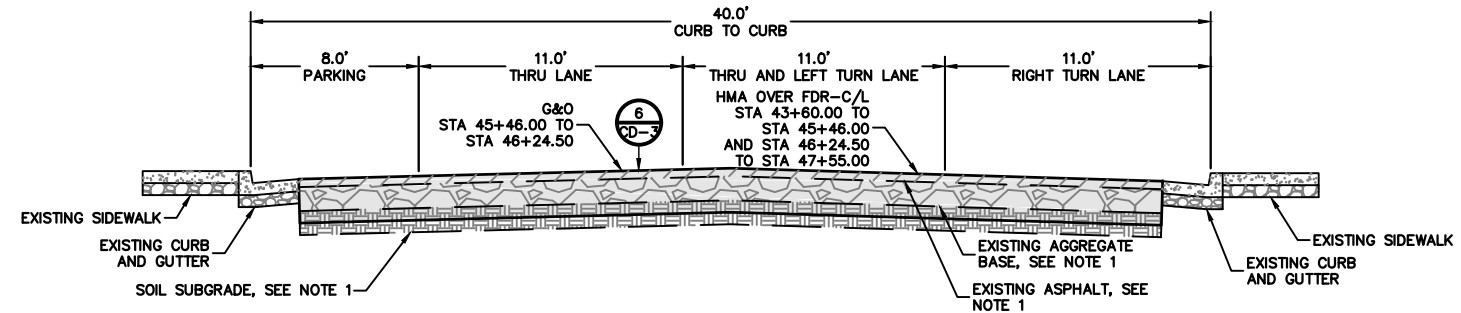
**MARIA DRIVE - STREET REHABILITATION
 RAINIER AVE TO S MCDOWELL BLVD**

SHEET
KM-1
4 OF 83

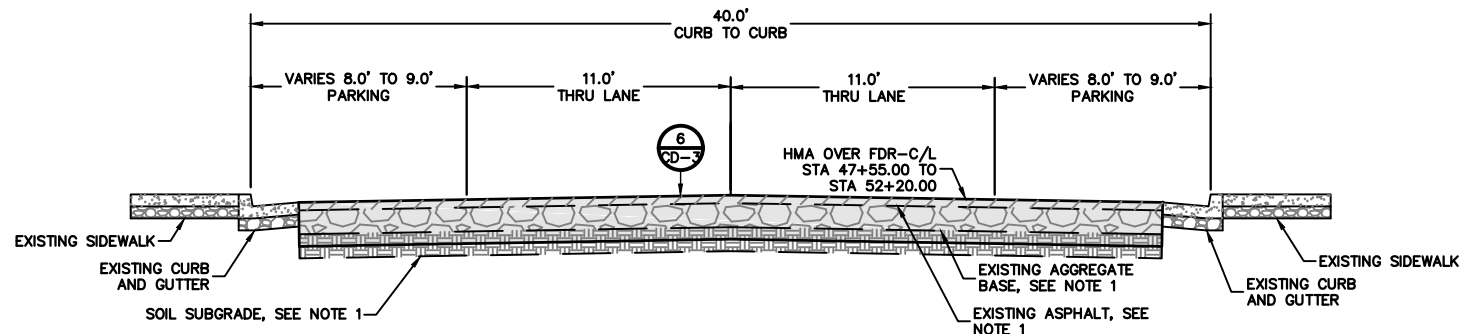
KEY MAP



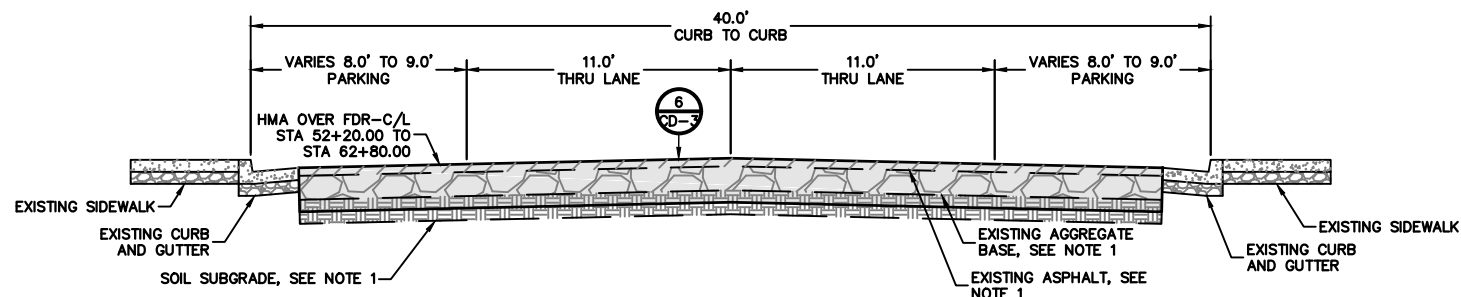
- NOTES
- EXISTING PAVEMENT SECTION VARIES THROUGHOUT THE CORRIDOR. REFER TO THE PROJECT GEOTECHNICAL REPORT.
 - REFER TO THE PAVING SHEETS FOR PAVING LIMITS.
 - PROVIDE ASPHALT CONFORM WHERE NEW CONCRETE IMPROVEMENTS ARE ADJACENT TO ROADWAY TO MAINTAIN ACCESSIBLE PATH OF TRAVEL DURING CONSTRUCTION.



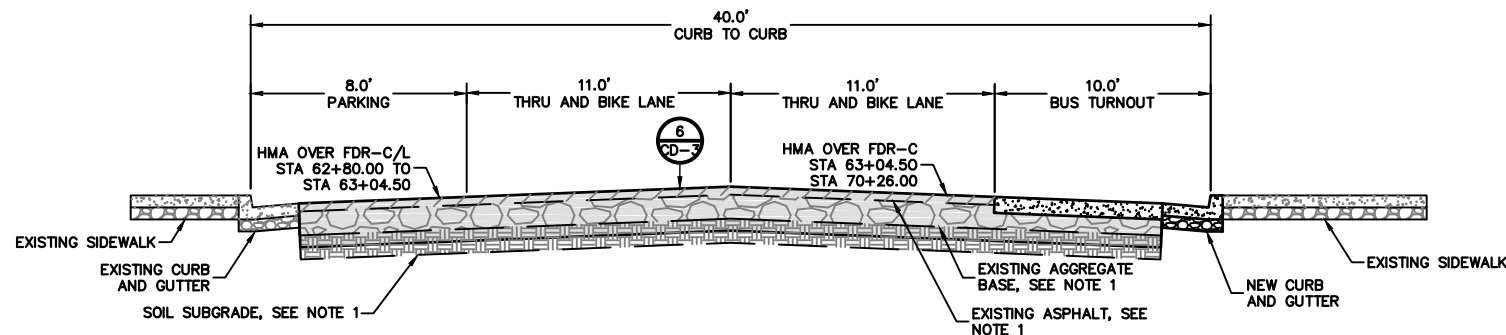
6
TYPICAL SECTION 6
 STATION 43+60 TO STATION 47+55



7
TYPICAL SECTION 7
 STATION 47+55 TO STATION 52+20



8
TYPICAL SECTION 8
 STATION 52+20 TO STATION 62+80

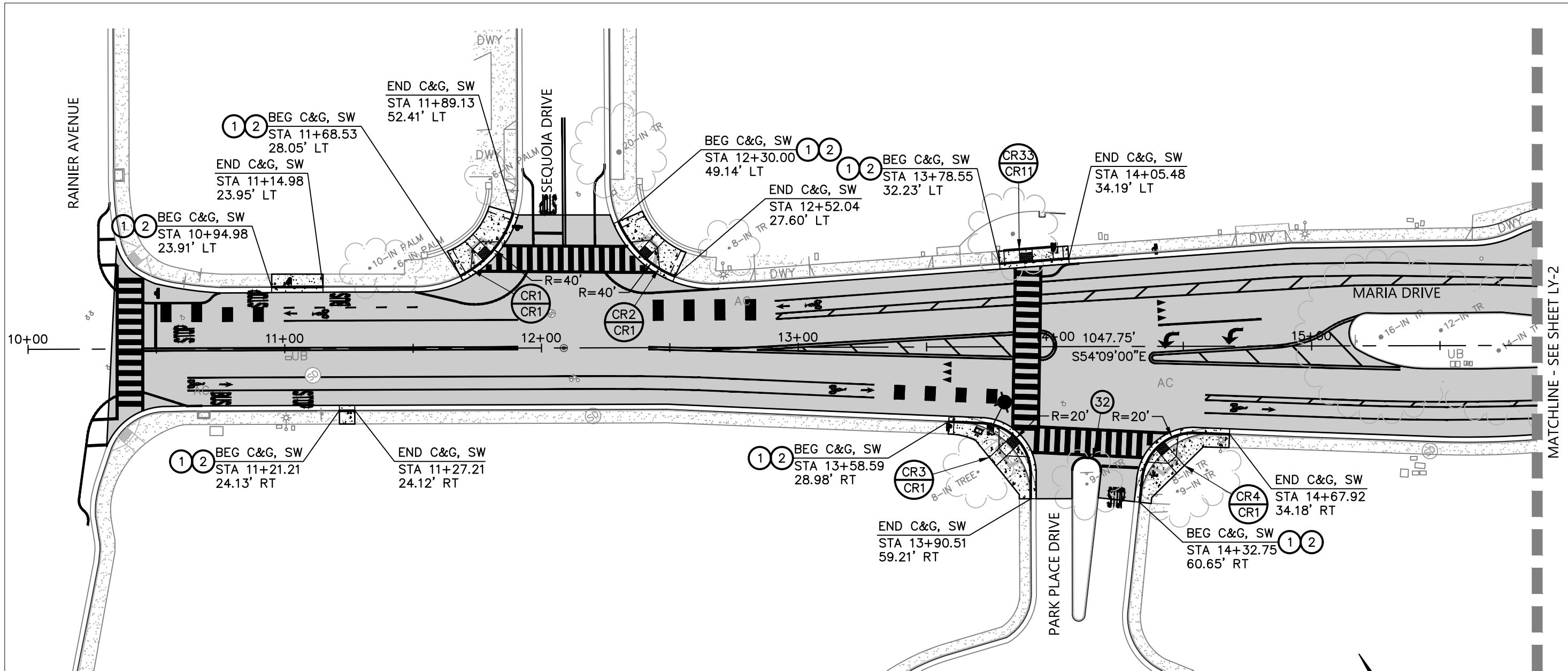


9
TYPICAL SECTION 9
 STATION 62+80 TO STATION 70+30

NOTES

- EXISTING PAVEMENT SECTION VARIES THROUGHOUT THE CORRIDOR. REFER TO THE PROJECT GEOTECHNICAL REPORT.
- REFER TO THE PAVING SHEETS FOR PAVING LIMITS.
- PROVIDE ASPHALT CONFORM WHERE NEW CONCRETE IMPROVEMENTS ARE ADJACENT TO ROADWAY TO MAINTAIN ACCESSIBLE PATH OF TRAVEL DURING CONSTRUCTION.

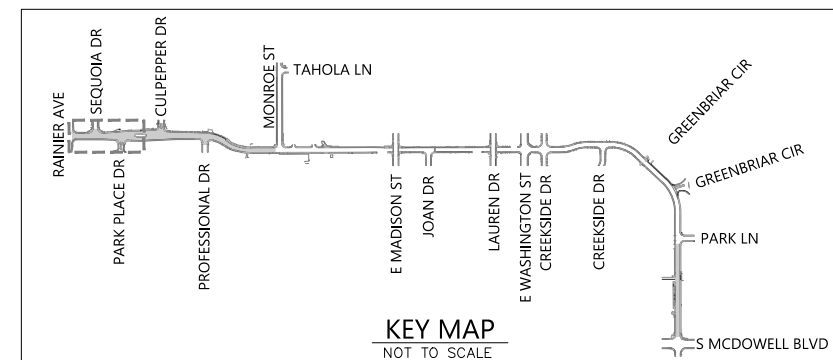




KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ③② VERTICAL CURB IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.2.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



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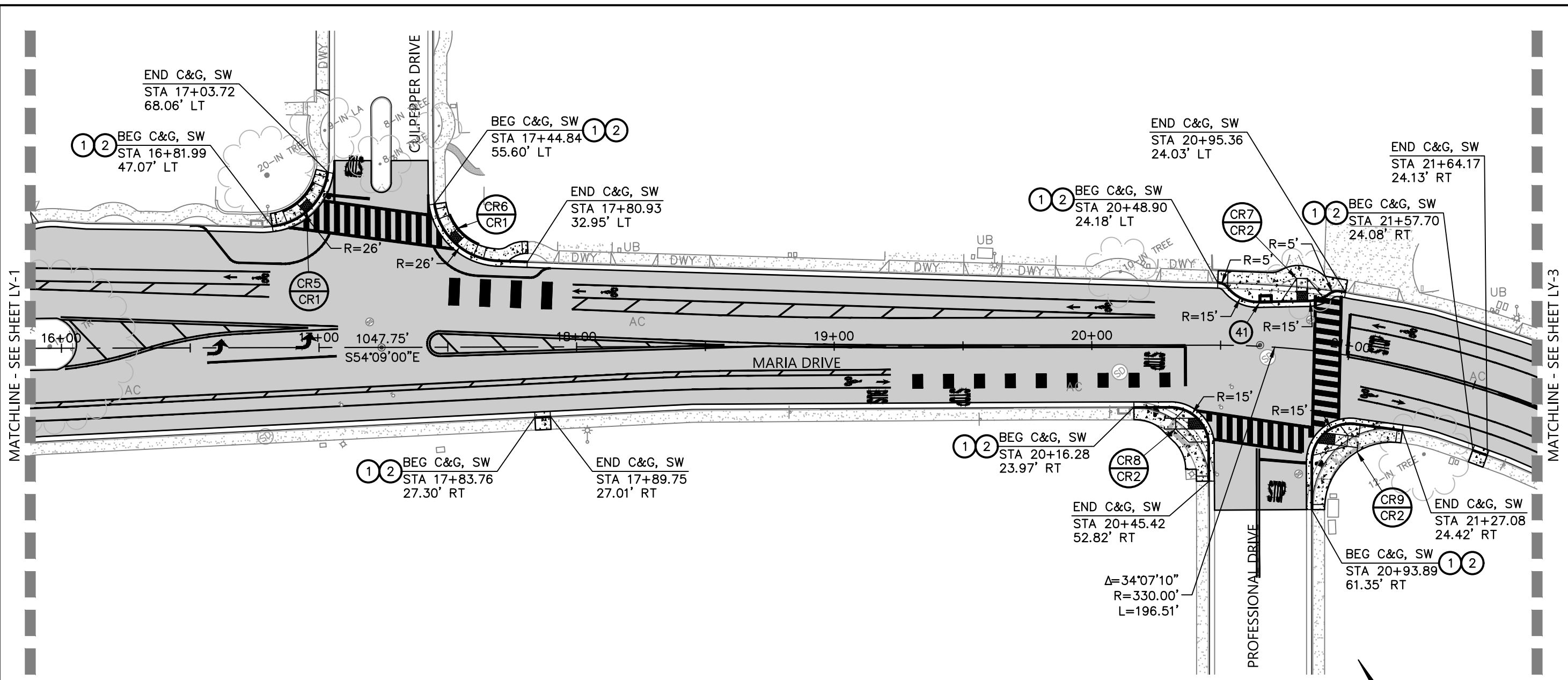
REGISTERED PROFESSIONAL ENGINEER
 No. C 80868
 CIVIL
 STATE OF CALIFORNIA

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 1855

MARIA DRIVE - STREET REHABILITATION
RAINIER AVE TO S MCDOWELL BLVD
 LAYOUT PLAN
 STA 10+00 TO STA 15+75

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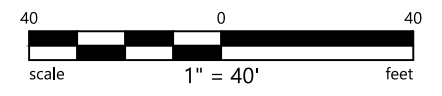
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MATCHLINE - SEE SHEET LY-3

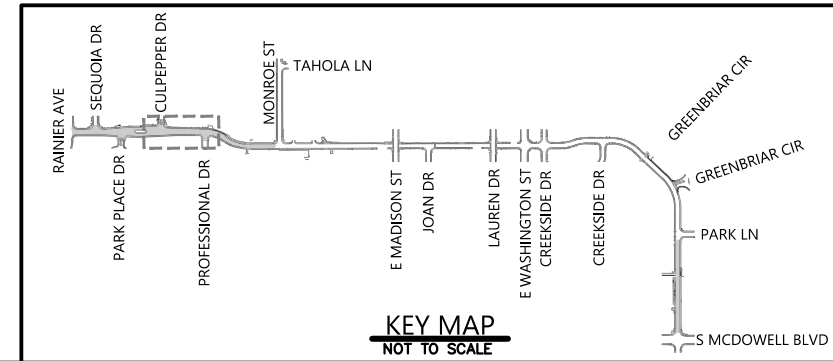
KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ④ TYPE "B" STORM DRAIN CATCH BASIN IN ACCORDANCE WITH CITY OF PETALUMA STD. 408.1. CAST IN PLACE OVER EXISTING STORM DRAIN PIPE.

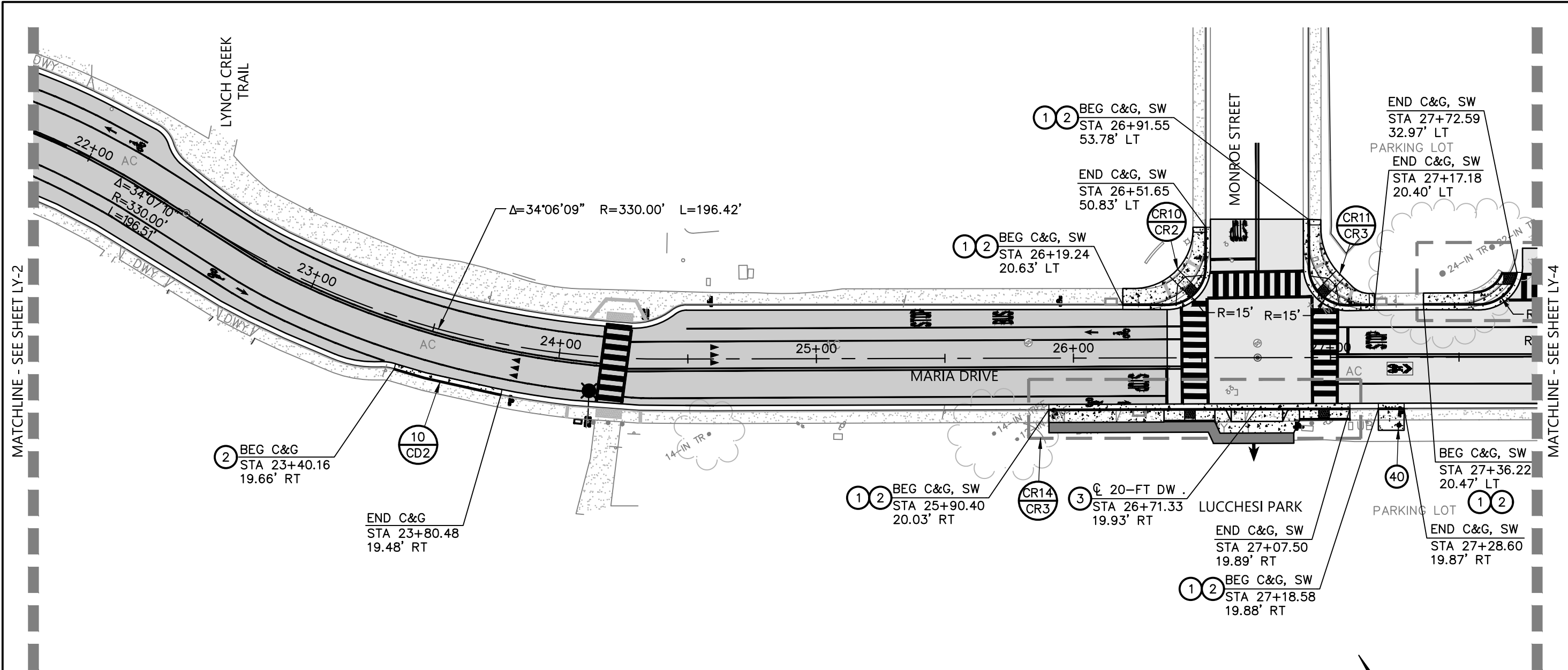
LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



KEY MAP
NOT TO SCALE



PLD Sep 26, 2023 at 3:40pm
 220332_01_LY.dwg
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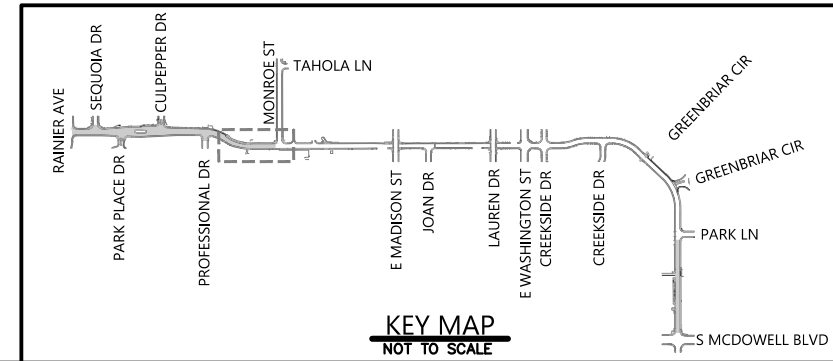
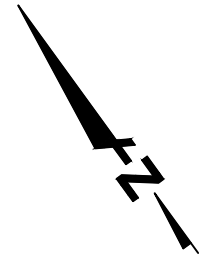
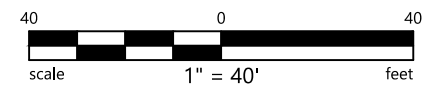
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MATCHLINE - SEE SHEET LY-4

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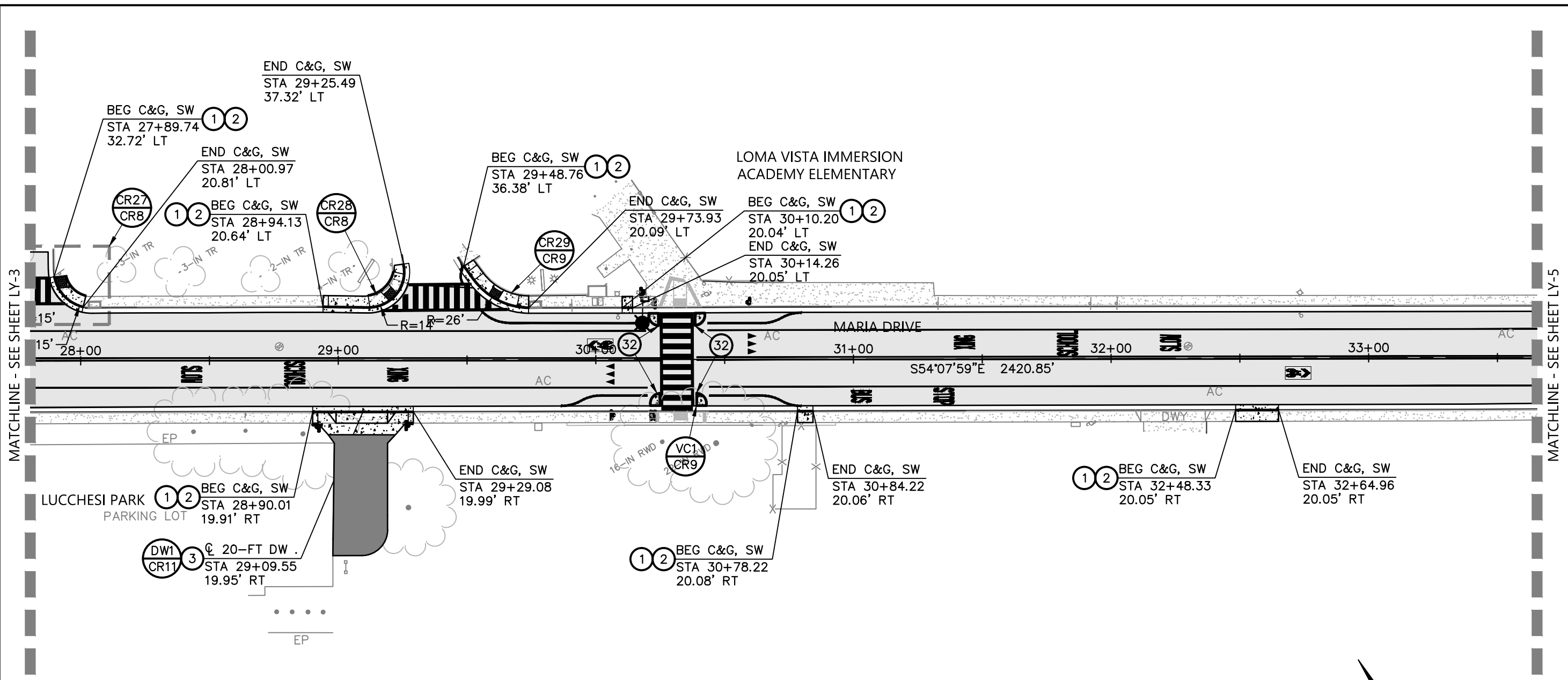
- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ③ COMMERCIAL DRIVEWAY IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



KEY MAP
NOT TO SCALE

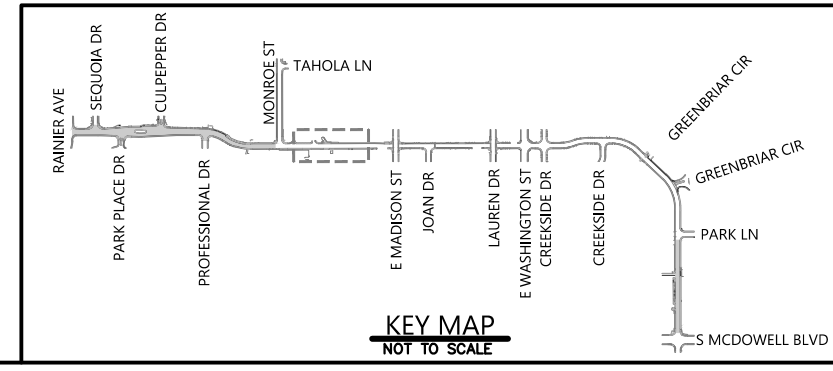
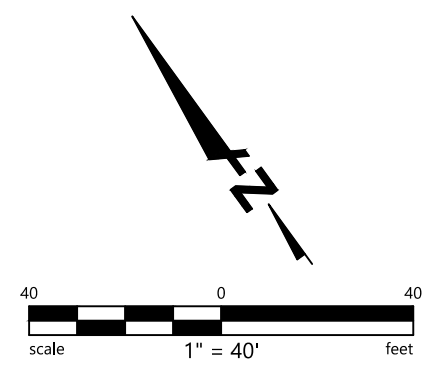
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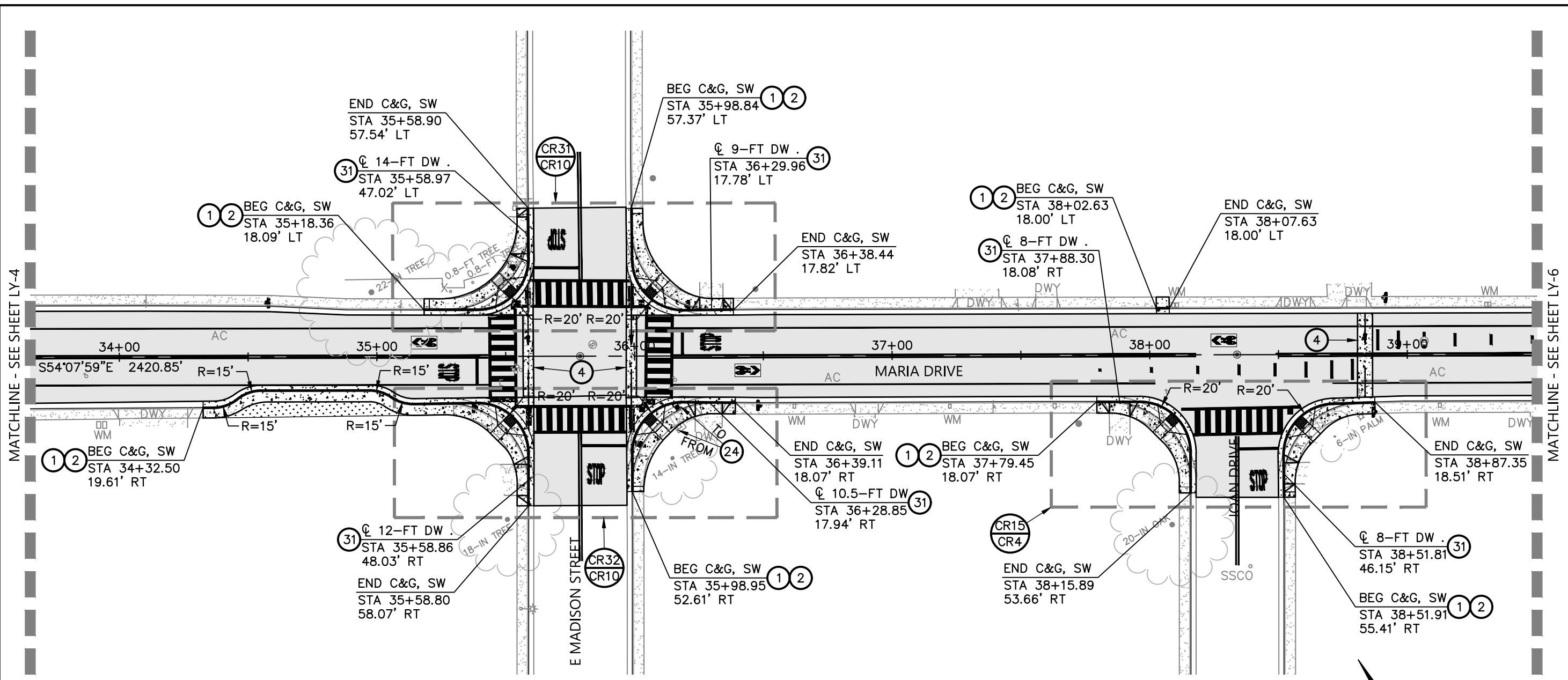


KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ③ COMMERCIAL DRIVEWAY IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ③2 VERTICAL CURB IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.2.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.





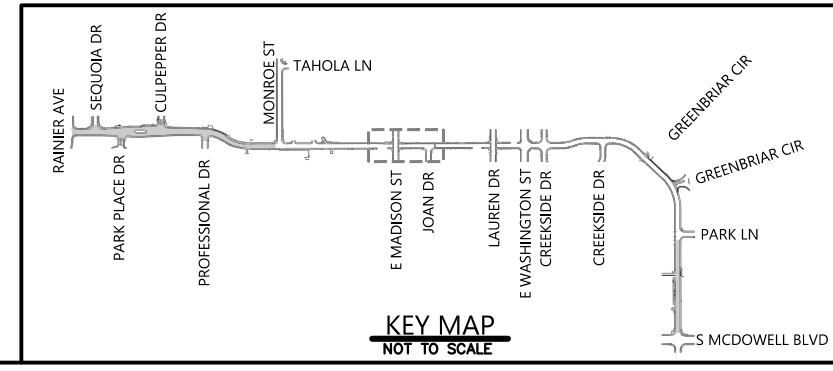
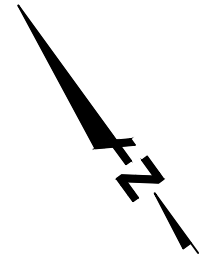
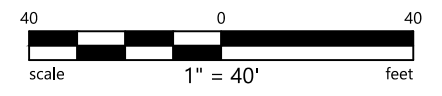
MATCHLINE - SEE SHEET LY-4

MATCHLINE - SEE SHEET LY-6

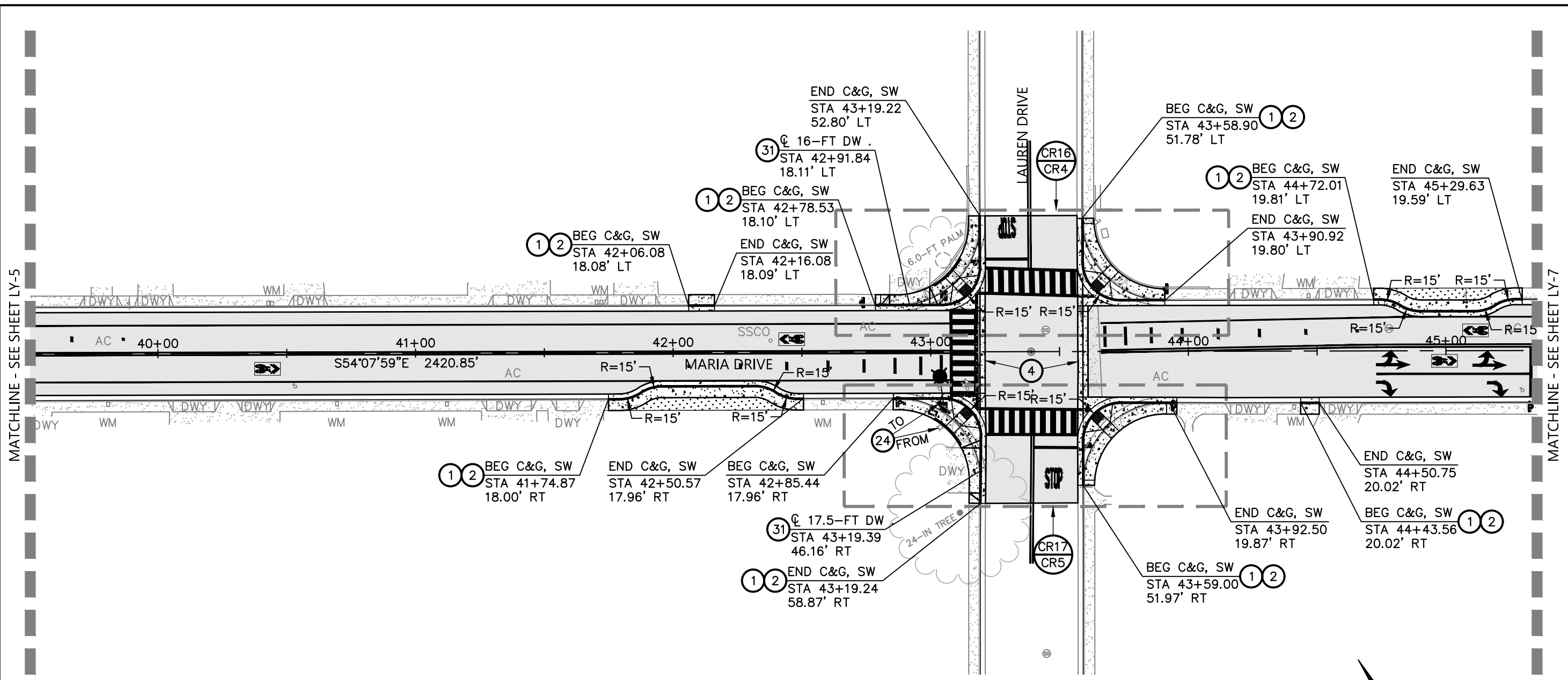
KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ④ VALLEY GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 205.
- ②④ RELOCATE EXISTING FIRE HYDRANT IN ACCORDANCE WITH CITY OF PETALUMA STD. 857.01
- ③① RESIDENTIAL DRIVEWAY IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



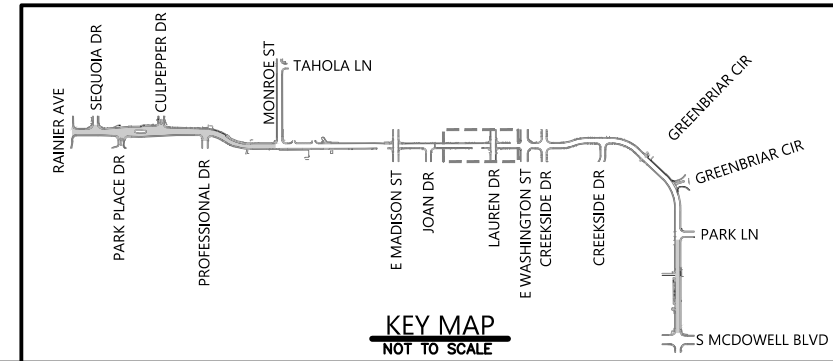
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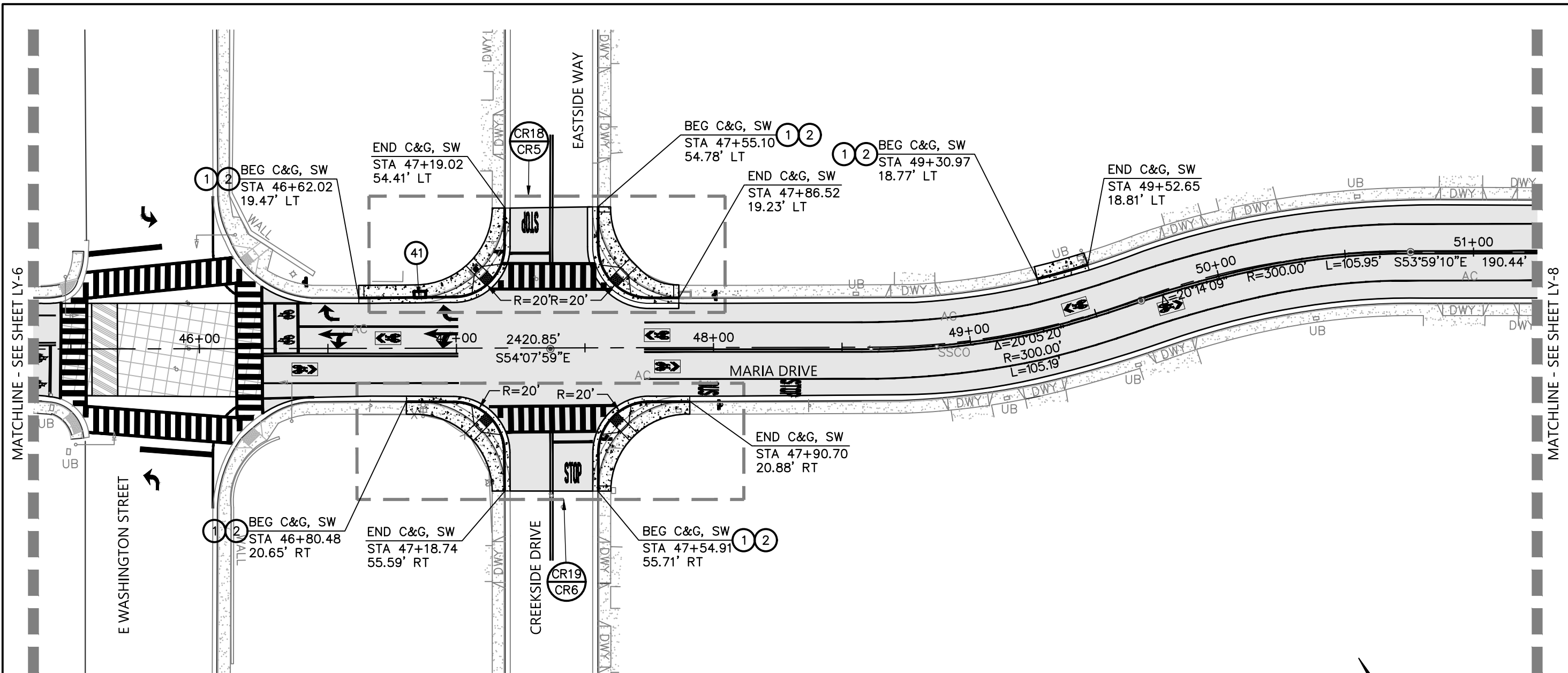


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- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ④ VALLEY GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 205.
- ②④ RELOCATE EXISTING FIRE HYDRANT IN ACCORDANCE WITH CITY OF PETALUMA STD. 857.01
- ③① RESIDENTIAL DRIVEWAY IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.

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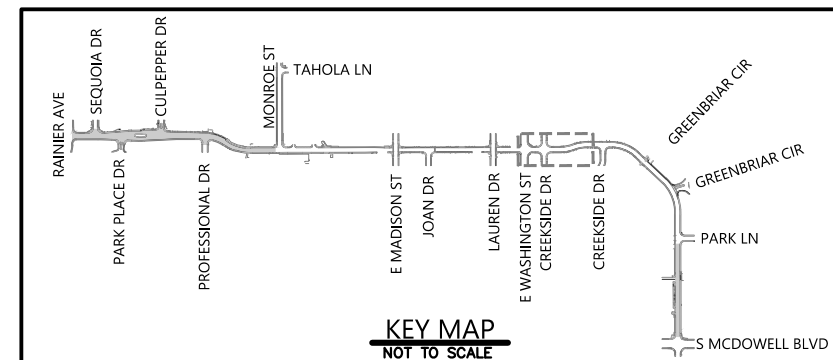
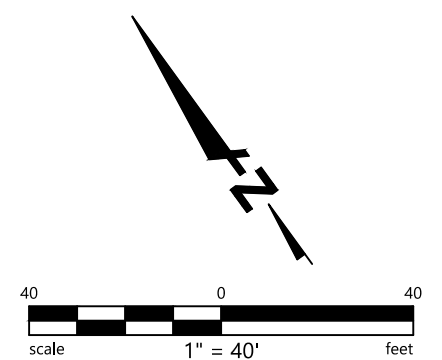




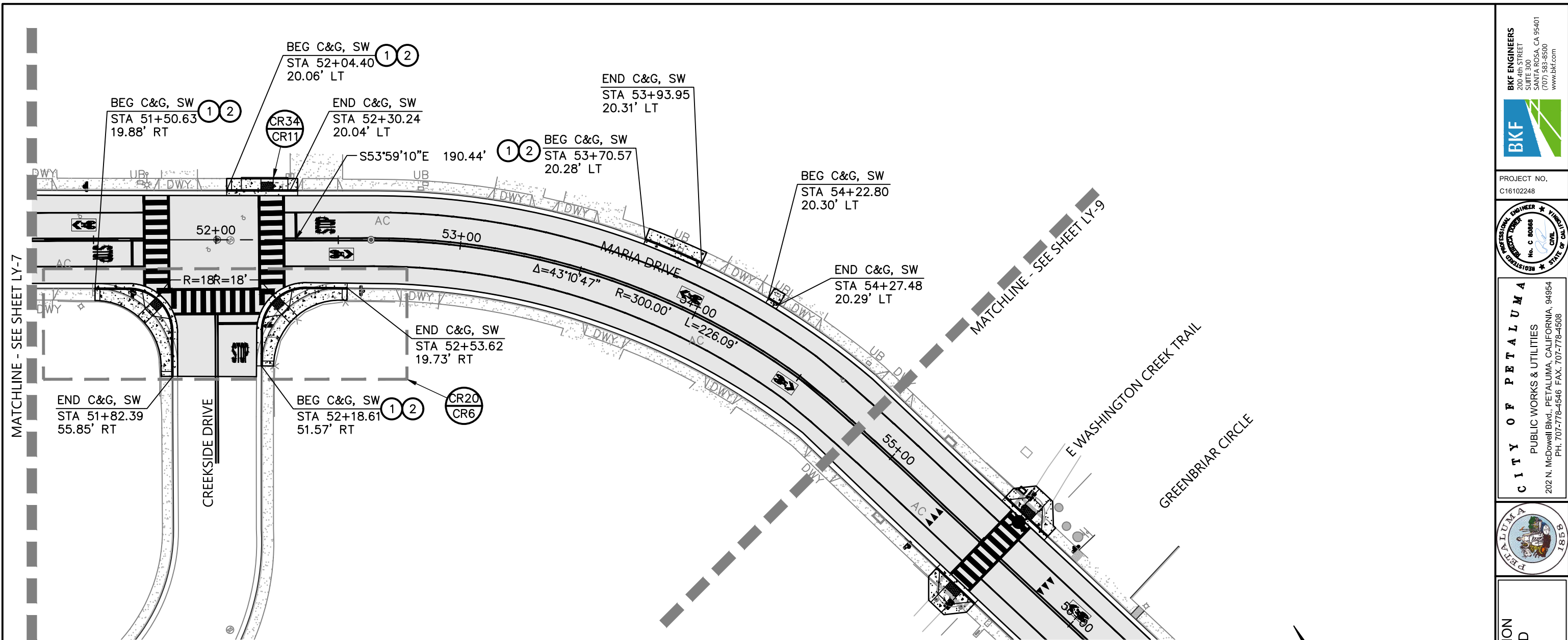
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- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
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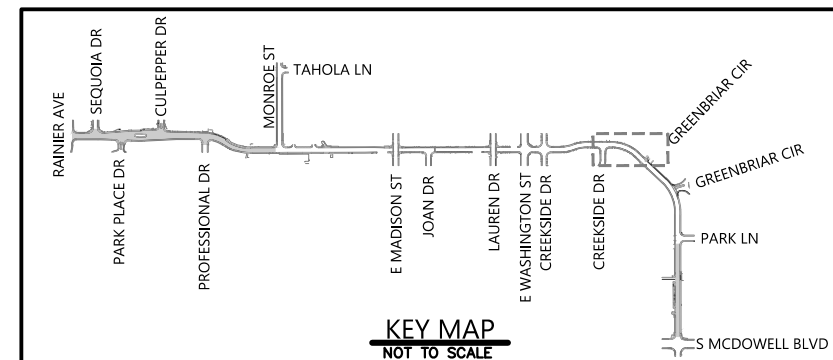
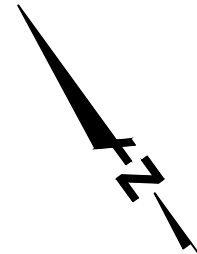
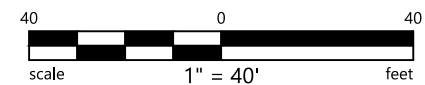
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KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.

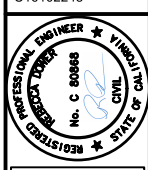


KEY MAP
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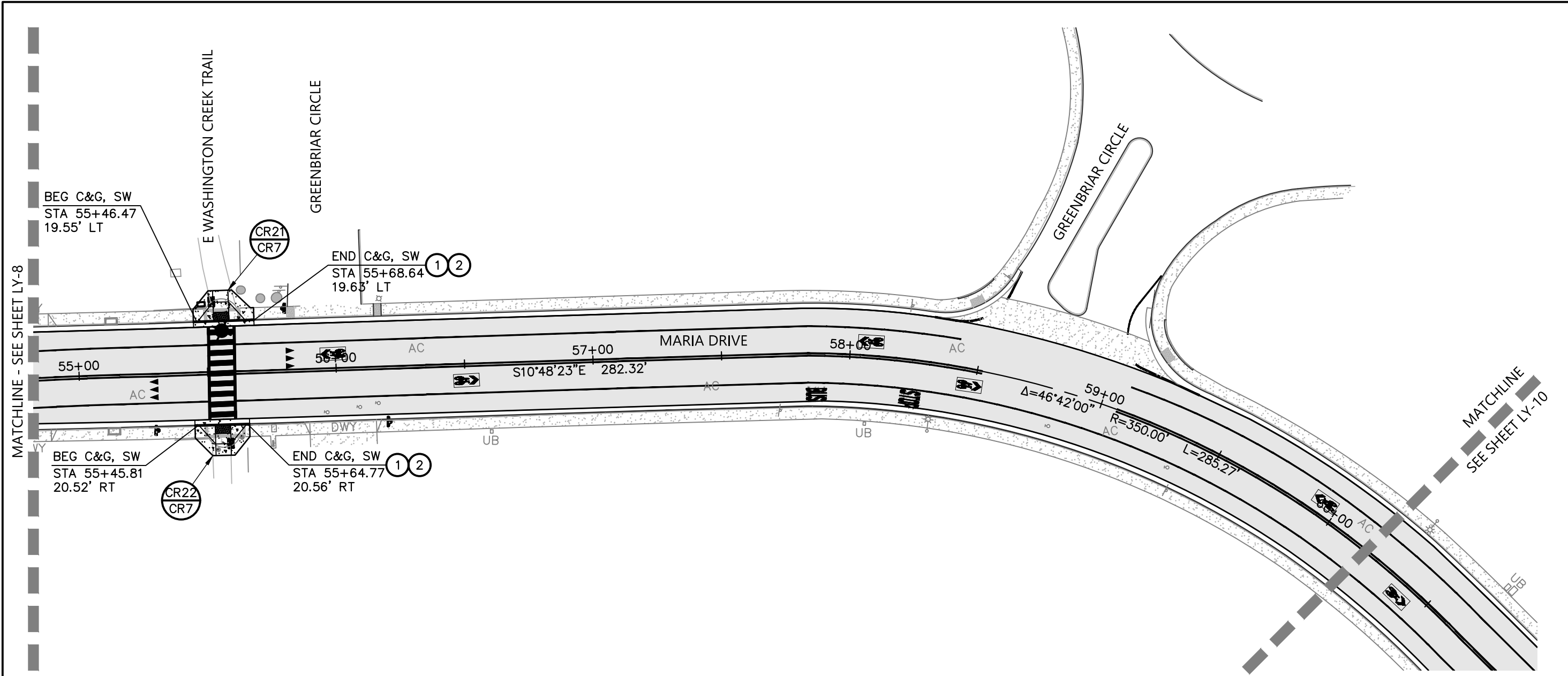
MARIA DRIVE - STREET REHABILITATION
RAINIER AVE TO S MCDOWELL BLVD
LAYOUT PLAN
STA 51+00 TO STA 54+75

SHEET

LY-8

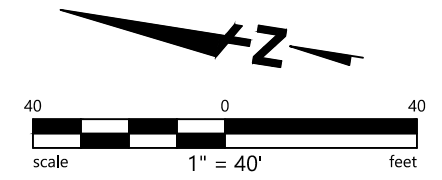
14 OF 83

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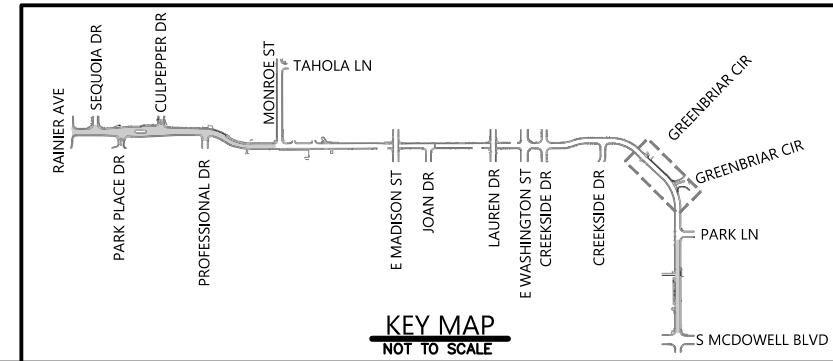


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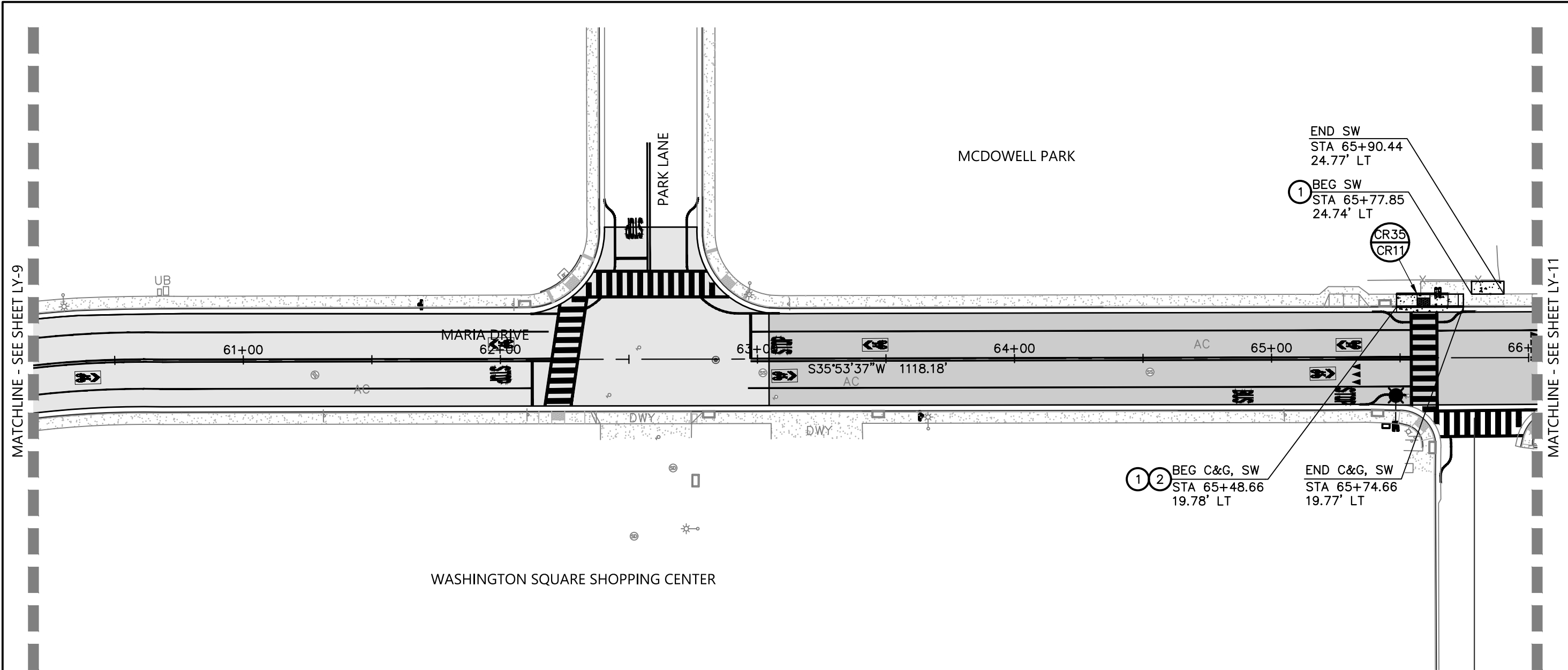
- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
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LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



Plot Date: 06/20/2023 at 1:09pm
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END SW
STA 65+90.44
24.77' LT

1 BEG SW
STA 65+77.85
24.74' LT

CR35
CR11

1 2 BEG C&G, SW
STA 65+48.66
19.78' LT

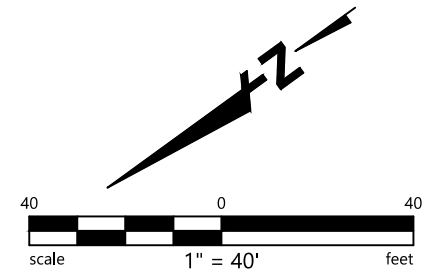
END C&G, SW
STA 65+74.66
19.77' LT

MATCHLINE - SEE SHEET LY-9

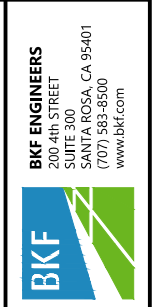
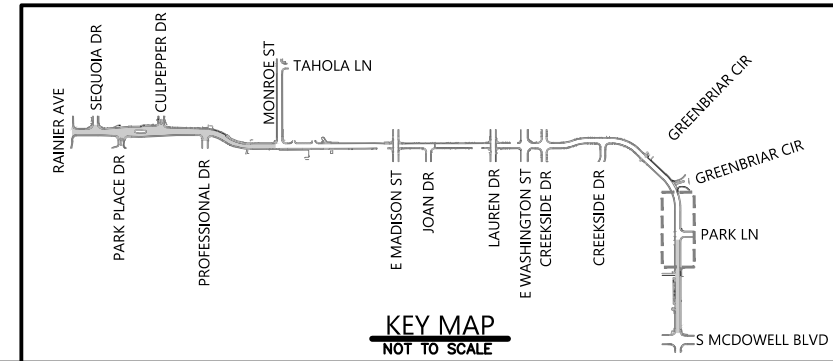
MATCHLINE - SEE SHEET LY-11

KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.



LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



PROJECT NO.
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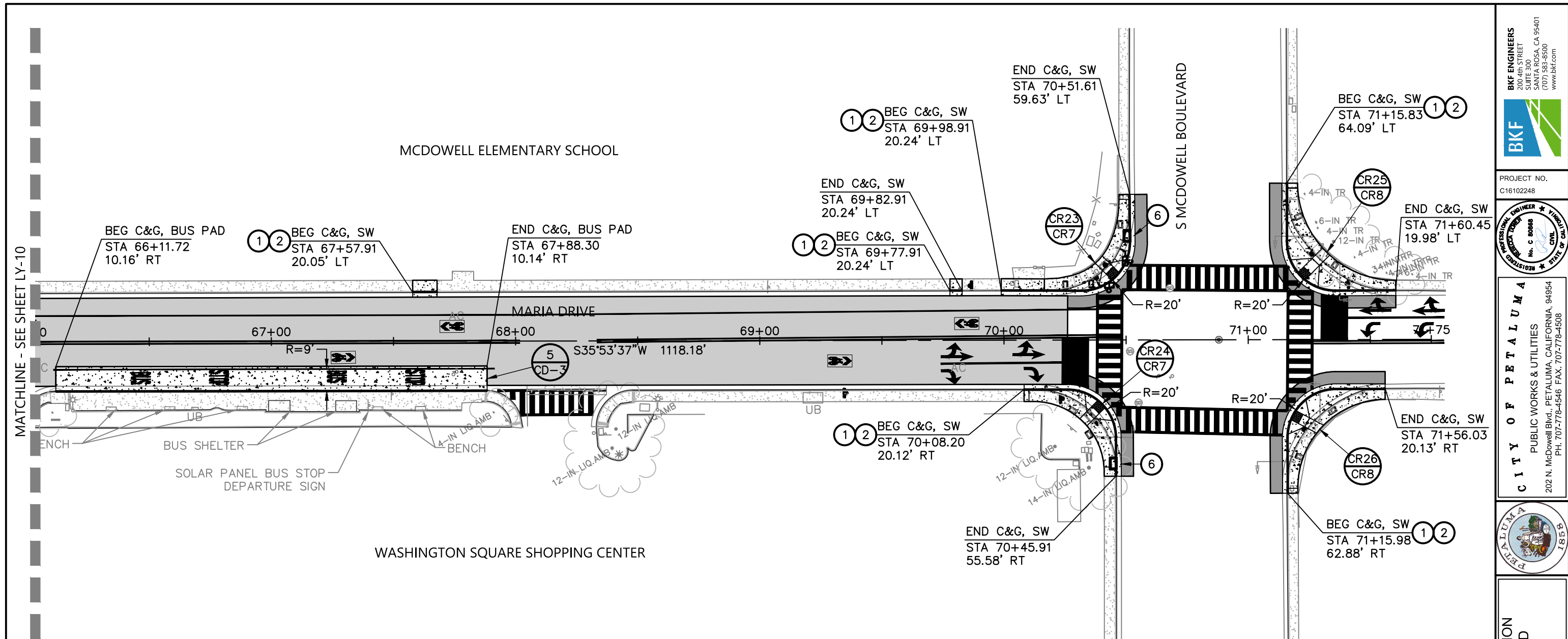
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MARIA DRIVE - STREET REHABILITATION
RAINIER AVE TO S MCDOWELL BLVD
LAYOUT PLAN
STA 60+00 TO STA 66+00

SHEET
LY-10
16 OF 83

BID SET

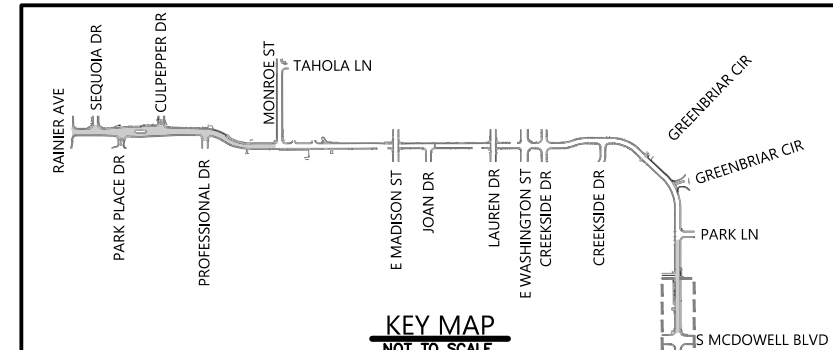
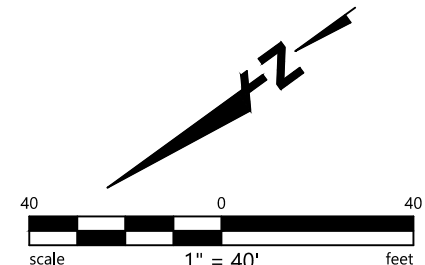


MATCHLINE - SEE SHEET LY-10

KEYNOTES:

- ① CONCRETE SIDEWALK IN ACCORDANCE WITH CITY OF PETALUMA STD. 203.1.
- ② CURB AND GUTTER IN ACCORDANCE WITH CITY OF PETALUMA STD. 204.1.
- ⑥ TYPE "B" STORM DRAIN CATCH BASIN IN ACCORDANCE WITH CITY OF PETALUMA STD. 408.1.

LAYOUT PLAN ILLUSTRATES GENERAL ABOVE-GROUND PROJECT IMPROVEMENTS AND HARDSCAPE IMPROVEMENT LAYOUT. REFER TO SHEETS UT-1 TO UT-8 FOR DETAILED UNDERGROUND UTILITY IMPROVEMENTS, SHEETS PV-1 TO PV-11 FOR PAVING IMPROVEMENTS, SHEETS ST-1 TO ST-11 FOR STRIPING AND SIGNAGE IMPROVEMENTS, AND SHEETS CR-1 TO CR-11 FOR CURB RAMP GRADING INFORMATION.



Plot Sep 26, 2023 at 4:02pm
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