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VALLECITOS WATER DISTRICT GENERAL NOTES

- ALL WATER AND SEWER LINES SHALL BE INSTALLED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS' DRAWINGS AND APPROVED MATERIAL LIST OF THE VALLECITOS WATER DISTRICT FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER AND VALLECITOS WATER DISTRICT ENGINEER PRIOR CONSTRUCTION.
- WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. SEWER LINES SHALL HAVE A MINIMUM COVER OF 5 FEET.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO CONSTRUCTION. A VALID UNDERGROUND SERVICE ALERT TICKET SHALL BE ON FILE.

VALLECITOS WATER DISTRICT 1-760-744-0460
COX COMMUNICATION 1-800-227-2600
S.D.G.& E. 1-800-227-2600
AT&T 1-800-227-2600
UNDERGROUND SERVICE ALERT 811
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND PROTECT THEM FROM DAMAGE. THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING WATER AND SEWER LINES IS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF WORK FOR CORRECTION AND THEN SUBMITTED TO THE DISTRICT FOR APPROVAL.
- NEITHER THE ENGINEER, OWNER NOR THE VALLECITOS WATER DISTRICT SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY STANDARDS.
- A PRE-CONSTRUCTION CONFERENCE MEETING WITH VALLECITOS WATER DISTRICT PERSONNEL SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- A SIGNED SET OF IMPROVEMENT PLANS DOES NOT IMPLY THAT CONSTRUCTION MAY BEGIN. THE CONTRACTOR MUST CONTACT THE VALLECITOS WATER DISTRICT ENGINEERING DEPARTMENT.
- ANY PROPOSED CHANGES IN THE APPROVED IMPROVEMENT PLANS MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO THE INSTALLATION OF SUCH CHANGES AND THE CHANGES SHALL BE SHOWN ON THE IMPROVEMENT PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MAINTAIN AT ALL TIMES ON THE JOB SITE, AN "AS-BUILT" RECORD OF ALL WATER AND SEWER MAINS AND APPURTENANCES INSTALLED UNDER HIS CONTRACT AND PROVIDE SAID RECORD TO THE ENGINEER AT THE COMPLETION OF THE CONTRACT. THE ENGINEER SHALL PROVIDE TWO (2) RED-LINED SETS OF "AS-BUILTS" TO THE DISTRICT PRIOR TO THE WATER AND SEWER SYSTEM BEING PLACED INTO SERVICE, AND A FINAL "AS-BUILT" MYLAR AS A CONDITION OF ACCEPTANCE OF THE WATER AND SEWER SYSTEM.
- ALL CONTRACTORS WORKING IN THE PUBLIC RIGHTS-OF-WAY SHALL OBTAIN A SEPARATE ENCROACHMENT PERMIT OR EXCAVATION PERMIT FROM THE APPROPRIATE AGENCY. INSPECTION OF ALL WORK IS REQUIRED. FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED FOR INSPECTION. (NO WORK SHALL BE PERFORMED IN THE PUBLIC RIGHT-OF-WAY OR DISTRICT EASEMENTS OR ON DISTRICT FACILITIES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS OBSERVED BY THE DISTRICT AND/OR THE CITY WITHOUT THE EXPRESS PERMISSION OF THE DISTRICT.
- CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION EXCAVATION CORRIDOR AS SHOWN ON PLANS OR IDENTIFIED BY USA MARK-OUT. THE POTHOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. POTHOLING SHALL NOT BE SCHEDULED FOR MONDAYS OR FRIDAYS. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. CONSEQUENCES OF CONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.
- A BLASTING PLAN SHALL BE SUBMITTED FOR DISTRICT APPROVAL PRIOR TO THE USE OF EXPLOSIVES NEAR DISTRICT FACILITIES.
- STREETS AND EASEMENTS SHALL BE CONSTRUCTED TO COMPACTED SUB GRADE PRIOR TO INSTALLATION OF THE PUBLIC WATER OR SEWER SYSTEM UNLESS APPROVED BY DISTRICT ENGINEER. ANY EXISTING WATER AND SEWER FACILITIES MUST REMAIN ACCESSIBLE AND AT GRADE AT ALL TIMES.
- ALL WATER LINES SHALL BE PVC, C900 DR14, OR AS NOTED. ALL FITTINGS ARE TO BE PUSH ON, UNLESS OTHERWISE SHOWN AND APPROVED BY THE DISTRICT ENGINEER. NO DEFLECTION WILL BE ALLOWED FOR PVC PIPE. THE USE OF HIGH DEFLECTION COUPLINGS MAY BE ALLOWED AT THE DISCRETION OF THE DISTRICT ENGINEER. ALL SEWER LINES SHALL BE BELL AND SPIGOT SDR35 PVC GREEN PIPE, OR AS NOTED. LATERALS MAY BE WHITE OR GREEN.
- A 10-GAUGE INSULATED TRACER WIRE (BLUE) WITH WARNING TAPE SHALL BE INSTALLED IN A CONTINUOUS RUN ALONG PVC WATER MAINS TO AND FROM SNAKE PIT CD-14 TRACER BOXES LOCATED IN FIRE HYDRANT PADS. NO SPLICES UNLESS APPROVED BY VALLECITOS WATER DISTRICT (VWD).
- THE CONTRACTOR SHALL TEST HIS LINES AGAINST HIS OWN BLOCKING AND NOT AGAINST DISTRICT VALVES.
- UPON CONNECTION OF THE NEW WATER SYSTEM TO THE EXISTING SYSTEM, ALL VALVES ON THE EXISTING AND NEW SYSTEM SHALL BE OPERATED ONLY BY DISTRICT PERSONNEL. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY DISTRICT INSPECTOR IN WRITING A MINIMUM OF 6 WORKING DAYS PRIOR TO A PLANNED SHUTDOWN. SHUTDOWNS SHALL NOT BE SCHEDULED FOR MONDAYS OR FRIDAYS. ALL SHUTDOWNS REQUIRE STATE CERTIFIED BACTERIA TEST.
- UNLESS OTHERWISE SHOWN, SEWER LATERALS AND WATER SERVICES SHALL BE RUN PERPENDICULAR TO THE MAIN.



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VALLECITOS WATER DISTRICT	
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE	
Date: _____	
JASON P. HUBBARD, P.E. DISTRICT ENGINEER _____, exp.: <u>6/30/2024</u> 60317	
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED	
VALLECITOS WATER DISTRICT	
PRESSURE ZONE: <u>815</u> HGL _____	

VWD AS-BUILT	
By: _____	Date: _____
NAME (ENGINEER OF WORK)	
R.C.E. NO. _____	exp.: <u>6/30/20XX</u>

- THE MINIMUM SIZE FOR WATER SERVICES SHALL BE ONE-INCH (1"). ALL WATER SERVICES SHALL BE MARKED WITH A "W" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS.
- ALL INSTALLATIONS WITH STATIC PRESSURE GREATER THAN 175 PSI FOR ¾" & 1" METERS OR 200 PSI FOR 1 ½" & 2" METERS WILL REQUIRE A PRESSURE REGULATING VALVE TO BE INSTALLED BEFORE THE WATER METER. 1" HIGH PRESSURE WATER SERVICES WILL REQUIRE A #6B METER BOX. AN ADDITIONAL PRESSURE REGULATING VALVE MAY BE INSTALLED AFTER THE METER AS DEEMED NECESSARY BY THE OWNER/DEVELOPER TO PROTECT ON-SITE FIXTURES.
- ALL MATERIALS SHALL BE UTILIZED ONLY WITHIN THE PRESSURE RATING OF THE DEVICE.
- SEWER MAINS SHALL BE CONSTRUCTED WITH A CONSISTENT GRADE BETWEEN MANHOLES. THE USE OF HORIZONTAL OR VERTICAL CURVES SHALL NOT BE ALLOWED.
- ALL SEWER LATERALS SHALL BE CONSTRUCTED TO A MINIMUM FIVE-FOOT (5') DEPTH (TO TOP OF PIPE) AT PROPERTY LINE AND SHALL BE CLEAR OF DRIVEWAYS. ALL LATERALS SHALL BE CLEARLY MARKED WITH AN "S" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS. SEWER SERVICE LATERALS ARE TO BE INSTALLED PERPENDICULAR TO THE MAIN WITH NO BENDS.
- ALL ABANDONED SEWER LATERALS SHALL BE CAPPED AT THE MAIN. ALL ABANDONED WATER SERVICES SHALL BE PLUGGED OFF AT THE MAIN, AND THE CONNECTION SEVERED. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL BE REPLACED PRIOR TO ABANDONMENT. RELOCATE EXISTING SERVICES AS DIRECTED BY THE DISTRICT ENGINEER. WATER MAIN STUBS WHICH ARE NOT USED SHALL BE ABANDONED AT THE MAIN BY REMOVING VALVE AND INSTALLING BLIND FLANGE AT TEE. SHUTDOWN OF WATER MAINS MAY BE REQUIRED DURING ABANDONMENT. ABANDONING EXISTING WATER OR SEWER MAINS SHALL CONSIST OF REMOVAL OR SLURRY FILL AS APPROVED BY DISTRICT.
- DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ACP PIPE WHICH SHALL BE PERFORMED BY A CONTRACTOR REGISTERED BY CAL/OSHA AND CERTIFIED BY THE STATE CONTRACTORS LICENSING BOARD FOR ASBESTOS REMOVAL.
- WATER SERVICES WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL WITH A COPPER SERVICE PER DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT. SEWER LATERALS OR WYES DAMAGED OR MODIFIED DURING CONSTRUCTION SHALL BE REPLACED IN FULL, AS DIRECTED BY THE DISTRICT.
- RELOCATION OR EXTENSION OF AN EXISTING WATER METER SHALL MEAN INSTALLATION OF THE METER AT A LOCATION IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT AND PERPENDICULAR TO THE MAINLINE CONNECTION, UNLESS OTHERWISE SERVICE LATERALS OTHER THAN COPPER SHALL BE REPLACED TO THE MAIN. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL ALSO BE REPLACED. SHUTDOWN OF MAIN MAY BE REQUIRED.
- PRIOR TO ACCEPTANCE OF ANY SEWER LINE BY THE DISTRICT, ALL MAINS SHALL BE AIR TESTED, FLUSHED CLEAN USING A VACTOR TRUCK, AND SHALL PASS A 5% MANDREL THROUGH THE PIPE. A VIDEO CAMERA INSPECTION OF THE SEWER MAIN SHALL BE CONDUCTED BY PRIVATE CONTRACTOR.
- THE DISTRICT WILL NOT SUPPLY WATER SERVICE, EXCEPT FOR FIRE PROTECTION, TO ANY PROJECT UNTIL ALL PROVISIONS OF THE DISTRICT STANDARDS AND IMPROVEMENT PLANS HAVE BEEN MET, AND FINAL ACCEPTANCE OF THE PROJECT HAS BEEN GRANTED BY THE DISTRICT BOARD OF DIRECTORS.
- ALL VWD EASEMENTS ARE EXCLUSIVE FOR VWD WATER AND SEWER FACILITIES ONLY. NO OTHER UTILITIES ARE ALLOWED WITHIN VWD EASEMENTS. CROSSING MAY BE ALLOWED PROVIDED THERE IS A MINIMUM OF 12-INCHES VERTICAL SEPARATION. CROSSINGS MUST BE PRE-APPROVED BY VWD AND PROCESSED THROUGH THE ENGINEERING DEPARTMENT WITH THE RECORDATION OF AN ENCROACHMENT AGREEMENT. THE VWD EASEMENT AND ENCROACHMENT AGREEMENT RECORDED DOCUMENT NUMBERS MUST BE NOTED ON PLANS.
- THE INTERIOR OF MANHOLES GREATER THAN 48-INCH IN DIAMETER SHALL BE COATED WITH A POLYURETHANE LINING SYSTEM.
- ALL FIRE HYDRANT TOPS SHALL BE PAINTED IN ACCORDANCE WITH NFPA 291, AS DIRECTED BY THE LOCAL FIRE PROTECTION AGENCY.

EROSION CONTROL NOTES

- IN CASE EMERGENCY WORK IS REQUIRED, CONTACT _____ AT _____, PHONE NO. _____, AVAILABLE 24-HR.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.
- EROSION CONTROL DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING INSPECTOR.
- THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER, INCLUDING SILT AND OTHER DEBRIS REMOVAL, TO THE SATISFACTION OF THE ENGINEERING INSPECTOR AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE ENGINEERING INSPECTOR DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN AND/OR SWPPP SHALL BE INCORPORATED HEREON.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
- ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4" INCH MINIMUM AGGREGATE.

- SHOULD GERMINATION OF HYDROSEEDED SLOPES FAIL TO PROVIDE EFFECTIVE COVERAGE (90%) OF GRADED SLOPES PRIOR TO NOVEMBER 15, THE SLOPES SHALL BE STABILIZED BY PUNCH STRAW.
- FOR PROJECTS COVERED BY STATE SWPPP/WDID, IN ACCORDANCE WITH THE CONSTRUCTIONS ORDER ISSUED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, THE CONTRACTOR'S QUALIFIES SWPPP PRACTITIONER (QSP) SHALL UPDATE AND MAINTAIN THE WATER POLLUTION CONTROL (WPC) PLAN TO ADDRESS UPDATED SITE CONDITIONS OF THE PROJECT.
- THE UPDATED WPC PLAN AND UPDATED SWPPP SHALL BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE TO THE CITY INSPECTOR.
- ADDITIONAL CONSTRUCTIONS BMP'S BEYOND THE ORIGINAL APPROVED SWPPP SHALL BE PROVIDED BY THE CONTRACTOR TO ADDRESS THE SITE CONDITIONS NOT ANTICIPATED. THE QSP SHALL REPORT BMP DEFICIENCIES TO THE CITY INSPECTOR.
- THE QSP SHALL OBTAIN APPROVAL FROM THE CONTRACTOR'S QUALIFIED SWPPP DESIGNER/DEVELOPER FOR ANY CHANGES TO THE WPC.

TRAFFIC STRIPING NOTES:

- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TRAFFIC STRIPING, PAVEMENT LEGENDS AND RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF THE CAMUTCD AND CALTRANS STANDARD PLANS.
- ALL ARROWS, WHETHER IN TURN LANES, BIKE LANES OR OTHERWISE, SHALL CONFORM TO CALTRANS STANDARD PLAN A24A.
- SYMBOLS AND NUMERALS: SYMBOLS AND NUMERALS SHALL CONFORM TO THE CALTRANS STANDARD PLAN A24C. THE CITY OF SAN MARCOS HAS DESIGNATED THE "BIKE LANE SYMBOL WITH PERSON" (FACING LEFT TO THE ROADWAY) TO BE USED IN ALL BIKE LANE APPLICATIONS. ALL OTHER BIKE LANE SYMBOLS SHALL BE EXCLUDED. ALL BIKE LANE SYMBOLS AND SPEED LIMIT LEGENDS SHALL BE THERMOPLASTIC.
- STRIPING ALIGNMENT AND LAYOUT, INCLUDING "CAT-TRACKS," SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER OR THEIR ASSIGNEE PRIOR TO FINAL INSTALLATION. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OR THEIR ASSIGNEE TO INSPECT "CAT-TRACKS" MINIMUM TWO WORKING DAYS PRIOR TO FINAL STRIPING.
- PAINT SHALL BE APPLIED UNDER SUITABLE WEATHER CONDITIONS AND PER THE PAINT MANUFACTURER LABEL RECOMMENDATIONS FOR PAVEMENT AND AMBIENT TEMPERATURE REQUIREMENTS. PAINT SHALL NOT BE APPLIED IF RAIN IS FORECASTED WITHIN 24 HOURS.
- THINNING OF PAINT IS NOT ALLOWED.
- ALL STRIPING MATERIALS SHALL CONFORM TO CALTRANS STANDARD SPECIFICATIONS SECTION 84-2.02 "MATERIALS".
- ALL STRIPING SHALL INCLUDE RAISED PAVEMENT MARKERS (RPMS) PER THE APPROPRIATE CAMUTCD DETAILS.
- RAISED PAVEMENT MARKERS (RPMS) AND PLACEMENT OF RPMS SHALL BE INSTALLED PER CALTRANS STANDARD SPECIFICATIONS SECTION 81-3 "PAVEMENT MARKERS"
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING PAINTED LINES, MARKINGS AND PAVEMENT LEGENDS BY SAND BLASTING WITHIN 24-HOURS OF CONFLICT. GRINDING MAY BE USED IF EQUIPMENT AND METHODOLOGY IS APPROVED BY THE CITY. SANDBLASTING OR GRINDING DEBRIS SHALL BE REMOVED AS SOON AS POSSIBLE BUT NO LATER THAN BEFORE THE END OF EACH WORKDAY. "BLACKING OUT" OF EXISTING STRIPING IS NOT ALLOWED. WHERE TRAFFIC STRIPING OR PAVEMENT MARKINGS ARE TO BE REMOVED BY SANDBLASTING OR GRINDING, THE PAVEMENT SHALL BE REPAIRED AND SLURRY SEALED (TYPE I OR II SLURRY) AT THE DISCRETION OF THE CITY INSPECTOR.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS, DEVELOPMENT SERVICES UPON COMPLETION OF STRIPING.
- TWO COATS OF PAINT SHALL BE APPLIED ON NEW SURFACES AND ONE ON EXISTING SURFACES. PAINT AND LEGENDS SHALL BE INSTALLED AFTER 7 DAYS AND NO MORE THAN 14 DAYS AFTER INSTALLATION OF NEW SURFACE.
- SIGNALIZED INTERSECTIONS SHALL HAVE MARKED PEDESTRIAN CROSSWALKS. ALL CROSSWALKS, LIMIT LINES, STOP BARS, PAVEMENT ARROWS, SCHOOL LEGENDS, AND STOP PAVEMENT LEGENDS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLAN.
- ALL NEW OR MODIFIED CROSSWALKS SHALL BE "CONTINENTAL" STYLE MARKED CROSSWALKS WITH A LIMIT BAR SETBACK OF 4-FEET MINIMUM.
- A MINIMUM OF 100-FEET DETAIL 22 (DOUBLE YELLOW) CENTERLINE STRIPING SHALL BE INSTALLED ALONG ALL KNUCKLES AND HORIZONTAL CURVATURES WITH THE RADIUS OF 100-FEET OR LESS. RED CURB OR R28(CA) "NO PARKING ANYTIME" SIGNS SHALL BE INSTALLED ON THE INSIDE OF THE ROADWAY CURVATURE.
- ALL DETAIL 40 AND DETAIL 41 LANE EXTENSION STRIPING THROUGH INTERSECTIONS SHALL BE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLANS.
- THE "BIKE LANE SYMBOL WITH PERSON" LEGEND AND ARROW COMBINATION PER THE CAMUTCD SHALL BE INSTALLED AS PART OF ON-STREET BIKE LANE STRIPING AT THE BEGINNING OF EACH BLOCK.
- THE DIAGONAL AND CHEVRON STRIPING WITHIN BUFFER BIKE LANES SHALL BE SIX-INCH WHITE INSTALLED WITH THERMOPLASTIC, UNLESS OTHERWISE NOTED ON THE PLANS. WHEN THE BUFFER IS LESS THAN FOUR FEET IN WIDTH, THE SINGLE DIAGONAL "/" MARKING SHALL BE USED; WHEN THE BUFFER IS EQUAL TO FOUR FEET IN WIDTH OR GREATER, THE CHEVRON "V" MARKING SHALL BE USED.
- GLASS BEADS SHALL NOT BE INSTALLED IN GREEN PAINTED BIKE LANES.

LEGEND

ITEM	QTY	VWD STD DWG	SYMBOL
ADJUST SEWER MANHOLE TO GRADE	13	S-1	☎
ADJUST GATE VALVE TO GRADE AND INSTALL NEW FRAME AND LID COVER	50	W-14	⊕
ADJUST METER BOX TO GRADE	1	W-6	WM
INSTALL NEW FRAME AND LID COVER FOR EX. BLOW OFF ASSEMBLY'S	5	W-1	⊕

CITY OF SAN MARCOS

GENERAL NOTES FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS

City Drawing No.

IP23-00018

Sheet 2 of 27

VWD WO# 284234

1. SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CITY OF SAN MARCOS, DEVELOPMENT SERVICES APPROVAL. ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD).

2. SIGN POSTS:
 - a. SHALL BE, TUBULAR BREAK-AWAY POSTS (TELSPAR OR UNISTRUT), 1-3/4" GALVANIZED STEEL OR EQUAL;
 - b. SHALL HAVE SEVEN FEET (7') VERTICAL CLEARANCE ABOVE FINISHED GRADE;
 - c. SHALL NOT HAVE MORE THAN A MAXIMUM OF TWO SIGNS (WITH DIFFERENT MEANINGS) ON EACH;
 - d. LOCATED IN THE MEDIAN, SHALL BE SET IN AN EIGHT-INCH DIAMETER (8") BY TWENTY-FOUR INCH (24") (8" X 24") DEEP PVC SLEEVE AND BACKFILLED WITH NATIVE SOIL, DECOMPOSED GRANITE, OR SAND TO THE TOP OF THE SLEEVE;
 - e. LOCATED IN THE SIDEWALK, A FOUR-INCH DIAMETER CORE (4") SHALL BE DRILLED. BACKFILL SHALL BE FOUR INCHES (4") OF CONCRETE ABOVE TWENTY INCHES (20") OF NATIVE SOIL, DECOMPOSED GRANITE OR SAND;
 - f. SHALL BE NEW;
 - g. SHALL BE REJECTED IF DAMAGED, BENT OR SPLINTERED;
 - h. LOCATIONS SHALL BE MARKED BY CONTRACTOR AND APPROVED BY THE CITY ENGINEER OR THEIR ASSIGNEE PRIOR TO FINAL PLACEMENT;
 - i. SHALL HAVE A MINIMUM OF FORTY-EIGHT INCHES (48") HORIZONTAL DISTANCE BETWEEN POST AND BACK EDGE OF SIDEWALK;
 - j. SHALL BE 2-7/8" ALUMINUM POSTS FOR STREET NAME SIGNS AND STOP (R1-1) SIGNS;
 - k. SHALL BE WRAPPED WITH 10-MIL POLYETHYLENE WRAPPING TAPE OR APPROVED EQUAL AROUND BASE OF BREAKAWAY POST BELOW SUBGRADE;
 - l. SHALL COMPLY WITH INSTALLATION DETAILS FOR BREAK-AWAY SIGN POST PER SAN DIEGO REGIONAL STANDARD DRAWING M-45;
 - m. WOOD POSTS USED FOR CLASS II OR III BARRICADES SHALL BE PAINTED WHITE.
3. SIGNS:

- a. SHALL BE ALUMINUM AND MEET CALTRANS STANDARD SPECIFICATIONS SECTION 82-2.02C "RETROREFLECTIVE SHEETING";
- b. SHALL HAVE A MINIMUM OF TWELVE-INCHES (12") HORIZONTAL CLEARANCE BEHIND THE CURB FACE;
- c. SIGNS THIRTY-SIX INCHES (36") WIDE SHALL BE STRAPPED ON THE BACK OF THE SIGN WITH SIGN STRAP HARDWARE;
- d. SIGNS LARGER THAN THIRTY SIX-INCHES (36") WIDE SHALL BE SET ON TWO POSTS;
- e. IF MOUNTED ON:
 - i. NEW OR EXISTING STREET LIGHT STANDARDS SHALL USE A 3/4" "BAND IT" STEEL STRAPPING WITH FASTENERS;
 - ii. ALUMINUM POSTS SHALL USE 2-7/8" POST CAPS FOR SINGLE SIGNS AND 2-7/8" CROSS SADDLE FOR TWO SIGNS;
- f. MOUNTING ON POWER/UTILITY POLES IS PROHIBITED.
- g. SIGN SIZES SHALL COMPLY WITH THE LATEST EDITION OF THE CAMUTCD, PART 2-SIGNS.

4. STREET NAME SIGNS SHALL HAVE 9-INCH EXTRUDED ALUMINUM BLADES, HIGH INTENSITY SHEETING WITH 3M BLUE ELECTRO CUT FILM, 6-INCH HIGHWAY GOTHIC LETTERING WITH FIRST LETTER IN CAPITALS AND THE REST LOWER CASE, BLOCK ADDRESS, AND ROAD DESIGNATIONS.

5. WHERE AN R4-7 SIGN AND OM1-3 OBJECT MARKER SIGN IS TO BE INSTALLED IN A MEDIAN WIDTH LESS THAN 42-INCHES, THE R4-7 SIGN SHALL BE MOUNTED 7-FEET VERTICALLY FROM THE EXISTING GROUND SURFACE. THE R4-7 SIGN SHALL BE 18" X 24" AND THE OM1-3 OBJECT MARKER SHALL BE 18" X 18".

6. WHERE AN R6-1 SIGN ("ONE WAY") SIGN IS TO BE INSTALLED IN A MEDIAN ISLAND, THE R6-1 SIGN SHALL BE MOUNTED 18-INCHES VERTICALLY FROM THE EXISTING GROUND. IF A LANDSCAPE PLANTER IS PRESENT AND VEGETATION INTERFERES WITH SIGN LOCATION, THE R6-1 SIGN SHALL BE MOUNTED FOUR-FEET VERTICALLY FROM THE EXISTING GROUND.

7. THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN MARCOS, DEVELOPMENT SERVICES UPON COMPLETION OF SIGN INSTALLATIONS.

8. EXISTING SIGNS SHALL BE SALVAGED AND DELIVERED TO THE PUBLIC WORKS DEPARTMENT LOCATED AT 201 MATA WAY.

9. STOP SIGN INSTALLATION SHALL INCLUDE THE SIGN, POST, LIMIT LINE, STOP LEGEND AND A MINIMUM OF 50- FEET OF DETAIL 22 (DOUBLE YELLOW) CENTERLINE STRIPING UNLESS ADJACENT TO MEDIAN. PLACEMENT OF STOP SIGN SHALL BE IN ACCORDANCE WITH THE CAMUTCD.

10. NO OUTLET SIGNS SHALL BE POSTED WHERE THERE IS NO LEGAL OUTLET WHEN THE STREET EXCEEDS 800- FEET OR WHEN THE TERMINUS OF THE ROADWAY IS NOT VISIBLE FROM THE INTERSECTION.

11. ALL SCHOOL AREA SIGNS SHALL BE FLUORESCENT YELLOW GREEN (FYG) BACKGROUND COLORED IN ACCORDANCE WITH THE LATEST EDITION OF THE CAMUTCD.

12. IF IT IS NECESSARY TO PROHIBIT CERTAIN PEDESTRIAN MOVEMENTS AT A TRAFFIC SIGNAL-CONTROLLED INTERSECTION CONTRACTOR SHALL INSTALL A TYPE I PEDESTRIAN BARRICADE PER CALTRANS STANDARD PLAN ES-70; IF SITE CONSTRAINTS PREVENT INSTALLATION OF PEDESTRIAN BARRICADE, CONTRACTOR SHALL INSTALL (R9-3) 'NO PEDESTRIAN CROSSING' SIGNS.

1. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES INCLUDING THOSE NOT SHOWN ON THESE PLANS VERIFICATION OF THE LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND LOGGING FOR FOUNDATIONS SHALL BE DONE BY HAND EXCAVATION METHODS UNTIL CLEAR OF ALL UNDERGROUND FACILITIES. ALL UNDERGROUND UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION AND EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.

2. ALL PROPERTY CORNER MONUMENTS SHALL BE UNDISTURBED BY CONSTRUCTION OR IMPROVEMENTS. DISTURBED MONUMENTS SHALL BE RESET OR REPLACED BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AUTHORIZED TO SET MONUMENTS.

3. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES DURING TRAFFIC SIGNAL INSTALLATION. A TRAFFIC CONTROL PLAN, INCLUDING THE LAYOUT OF CONSTRUCTION WARNING AND DETOUR SIGNS, WORKING HOURS, AND CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL A MINIMUM OF (14) CALENDAR DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. TRAFFIC CONTROL SHALL BE IMPLEMENTED BEFORE ANY WORK IS STARTED.

4. ALL TRAFFIC SIGNAL CONDUIT AND FITTINGS (AFTER THE ELECTRIC METER) PEDESTAL SHALL BE MINIMUM THREE INCH (3") SCHEDULE 80 P.V.C. STREET CROSSINGS SHALL BE FOUR INCHES (4") MINIMUM, ENCASED IN A MINIMUM OF TWELVE INCHES (12") OF 560-C-3250 PSI CONCRETE (8" MINIMUM CONCRETE COVER TO TOP OF PIPE). ALL CONDUITS SHALL BE BURIED WITH A MINIMUM OF THREE INCHES (3") OF TOTAL COVER FROM THE TOP OF PIPE TO FINISHED GRADE. ALL CONDUITS SHALL BE SEALED UPON COMPLETION. STREET CROSSINGS BY BORE METHOD SHALL BE APPROVED BY THE CITY ENGINEER. ALL DIRECTIONAL BORED RACEWAYS SHALL BE HDPE TYPICAL.

5. ALL SIGNAL CONDUCTORS, COMMUNICATION CABLES AND OTHER ASSOCIATED WIRING SHALL BE LABELED (WITH THE BROTHER P-TOUCH WATERPROOF LABELS OR CITY APPROVED EQUAL) IN THE CABINET WITH ASSOCIATED ASSIGNMENTS (LANE, PHASES, CHANNEL NUMBERS AND COMMUNICATION FUNCTIONS).

6. A NEW SLURRY COAT OR OVERLAY SHALL BE APPLIED A MINIMUM OF 20 FEET ON EITHER SIDE OF PATCH WORK RESULTING FROM EXCAVATION WORK (TRENCHING AND POTHOLES) ON NEW STREETS (SLURRY COATED WITHIN LAST THREE YEARS) OR STREET WITH CLEAN AND UNIFORM PAVEMENT. THE DETERMINATION OF EXISTING PAVEMENT CONDITION SHALL BE MADE BY THE ENGINEERING DIVISION INSPECTOR.

7. EXISTING TRAFFIC SIGNAL FACILITIES, SIGNALS AND COMMUNICATIONS SHALL REMAIN OPERATIONAL UNTIL NEW FACILITIES ARE CUTOVER OR CONNECTED OR AS LONG AS APPROVED BY THE PROJECT INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REMOVAL OF ANY TEMPORARY WIRING NECESSARY TO MAINTAIN SIGNAL OPERATIONAL DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL STRIPING AND SIGNING AS REQUIRED BY THE CITY TRAFFIC ENGINEER. ALL SIGNS AND TRAFFIC STRIPING SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) AND CITY OF SAN MARCOS SIGNING AND STRIPING STANDARDS.

9. AN "AS-BUILT" DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO THE ACCEPTANCE OF SAID IMPROVEMENTS.

10. THESE PLANS HAVE BEEN EXAMINED BY THE CITY OF SAN MARCOS ENGINEERING DIVISION TO ENSURE COMPLIANCE WITH GENERAL ENGINEERING STANDARDS AND THE CITY'S DESIGN STANDARDS AND SPECIFICATIONS. THE ENGINEER-OF-WORK SHALL BEAR THE SOLE RESPONSIBILITY OF THE MATHEMATICAL DATA AND ACCURACY OF DESIGN SHOWN HEREON.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, RELOCATION OR REPLACEMENT OF ALL TRAFFIC LOOP DETECTORS AS REQUIRED BY THE TRAFFIC ENGINEER WITHIN 48 HOURS OF DIRECTION, OR INSTALL TEMPORARY VIDEO DETECTION UNTIL LOOP DETECTOR WORK IS COMPLETED. EXISTING TRAFFIC SIGNAL DETECTOR LOOPS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITHIN 48 HOURS OF DATE AND TIME DAMAGED OR TEMPORARY VIDEO DETECTION SHALL BE INSTALLED UNTIL THE DAMAGED LOOPS ARE REPLACED. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY VIDEO DETECTION CAMERAS, DETECTION CARDS, AND OTHER EQUIPMENT AS NECESSARY FOR FULL OPERATION. AFTER THE DETECTOR WORK IS COMPLETED, THE CONTRACTOR SHALL PRIOR TO OPERATION, THE CONTRACTOR SHALL REPAIR ASPHALT PAVING AND APPLY SLURRY SEAL COAT AFTER INSTALLATION OF LOOPS.

12. WHEN PERFORMING A TRAFFIC SIGNAL MODIFICATION WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING CONTINUED OPERATION OF THE TRAFFIC SIGNAL THROUGHOUT THE PROJECT. IF ANY DAMAGES OCCUR, THE CONTRACTOR SHALL RESPOND WITHIN 3 HOURS AND RESTORE THE OPERATION WITHIN 48 HOURS.

CONTRACTOR SHALL PROTECT-IN-PLACE ALL SURVEY MONUMENTS DURING THE COURSE OF CONSTRUCTION. IF ANY MONUMENT CANNOT BE PRESERVED IN PLACE OR REQUIRES ADJUSTMENT, IT MUST BE TIED OUT AND REPLACED AFTER CONSTRUCTION AT THE IDENTICAL LOCATION. CONTRACTOR'S LAND SURVEYOR SHALL INDEPENDENTLY VERIFY/DETERMINE ANY AND ALL SURVEY MONUMENTS THAT MAY BE REMOVED OR DESTROYED BY CONTRACTOR'S ACTIVITIES. CONTRACTOR SHALL MAINTAIN RECORDS AND PROFESSIONAL CODE SECTION 8771, ACCORDANCE WITH BUSINESS AND PROFESSIONS CODE SECTION 8771, CONTRACTOR'S LAND SURVEYOR SHALL FILE WITH THE OFFICE OF THE COUNTY SURVEYOR CORNER RECORDS AND/OR RECORD(S) OF SURVEY PRIOR TO SUCH DISTURBANCE OR DESTRUCTION AND UPON RE-ESTABLISHMENT OF SURVEY MONUMENTS SO DISTURBED OR DESTROYED.

CONTRACTOR SHALL PROTECT-IN-PLACE ALL BENCHMARK MONUMENTS DURING THE COURSE OF CONSTRUCTION. IF ANY BENCHMARK CANNOT BE PRESERVED IN PLACE OR REQUIRES ADJUSTMENT, IT MUST BE TIED OUT AND REPLACED AFTER CONSTRUCTION AT THE IDENTICAL LOCATION. CONTRACTOR'S LAND SURVEYOR SHALL INDEPENDENTLY VERIFY/DETERMINE ANY AND ALL BENCHMARK MONUMENTS THAT MAY OR WILL BE DISTURBED OR DESTROYED BY CONTRACTOR'S ACTIVITIES, IN ACCORDANCE WITH BUSINESS AND PROFESSIONS CODE SECTION 87. CONTRACTOR'S LAND SURVEYOR SHALL FILE WITH THE OFFICE OF THE COUNTY SURVEYOR VERTICAL CORNER RECORDS AND/OR RECORD(S) OF SURVEY PRIOR TO SUCH DISTURBANCE OR DESTRUCTION AND UPON RE-ESTABLISHMENT OF SURVEY MONUMENTS SO DISTURBED OR DESTROYED.

RIGHT-OF-WAY INFORMATION SHOWN IS BASED ON THE COMBINATION OF GEOGRAPHIC INFORMATION SYSTEM (GIS) AND RECORD INFORMATION. THE FULL LIMITS OF RIGHT-OF-WAY AND ROAD CENTERLINE HAVE NOT BEEN COMPLETELY TIED OR RESOLVED, AND ARE FOR REFERENCE ONLY.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, FIELD SURVEYMENTS. WHEN IN THE FIELD, THE CONTRACTOR IS NOT TO RELY ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST NOT CLAIM THE LOCATION OF UTILITIES AS BEING EXACT OR COMPLETE, THE CONTRACTOR MUST NOT CLAIM THE LOCATION OF UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHICH COINCIDE WITH THE PROPOSED IMPROVEMENTS ON THESE PLANS. THESE DRAWINGS DO NOT CLAIM TO SHOW ALL EXISTING UTILITIES.

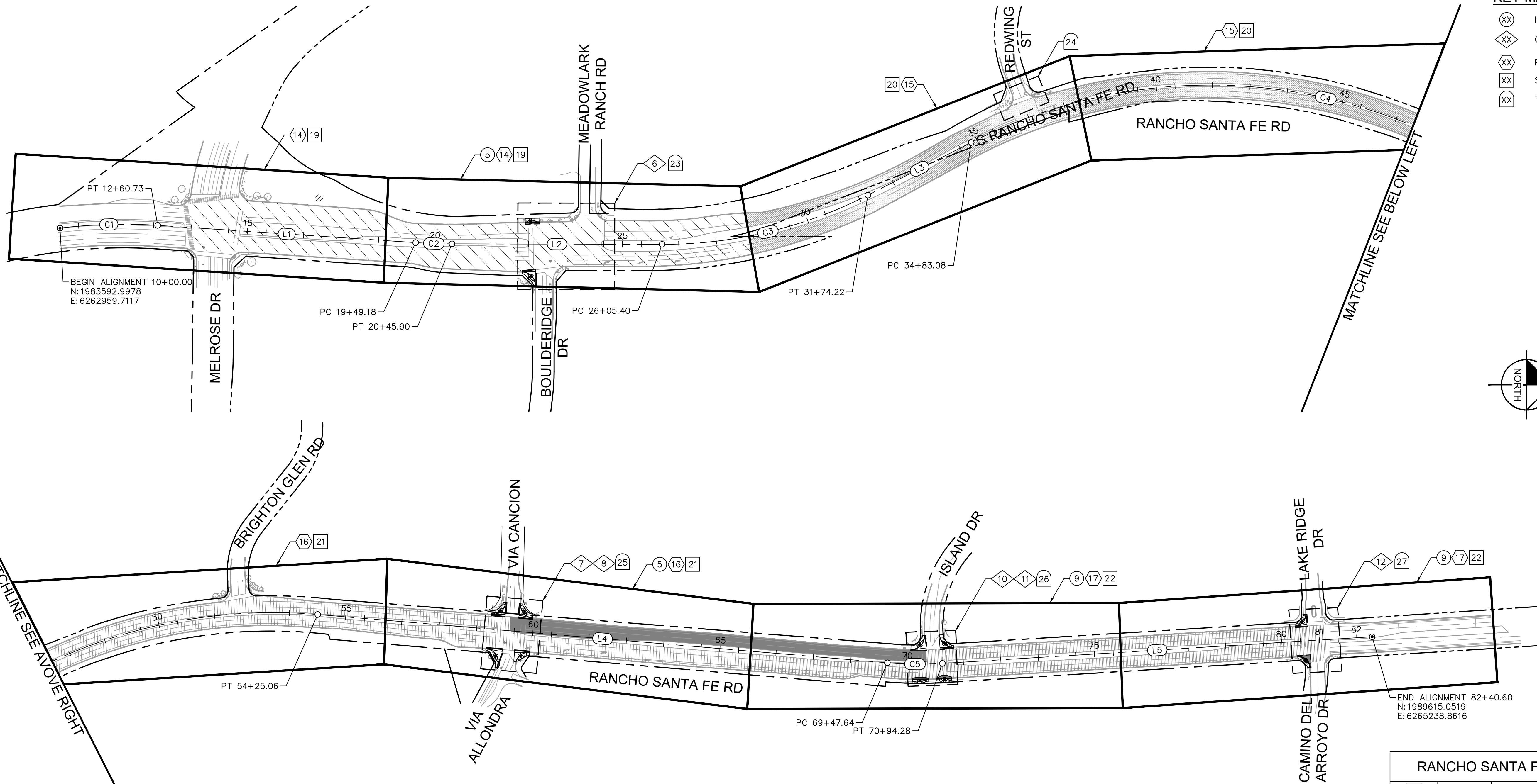
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VALLECITOS WATER DISTRICT APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE Date: _____ JASON P. HUBBARD, P.E. DISTRICT ENGINEER _____ 60317 _____ exp.: 6/30/2024 _____ APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED		_____	
VALLECITOS WATER DISTRICT PRESSURE ZONE: 815 HGL _____ _____		VMD AS-BUILT By: _____ Date: _____ NAME (ENGINEER OF WORK) R.C.E. NO. _____ exp.: 6/30/20XX _____	

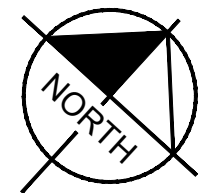
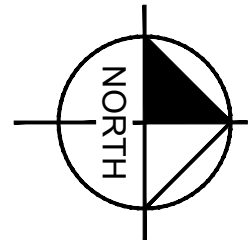
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RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: _____ EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024		By: _____ MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24		_____ Date _____		ENGINEER LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS GENERAL NOTES FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS			
By: _____ Isaac Etchemendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025		Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: _____ Record of Survey 23731 Elev: 604.89 [602.82] Datum: NAVD88 [NGVD29]		City Drawing No. _____ IP23-00018 Sheet 3 of 27			

Drawing name: K:\SD\JMH\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-KM.dwg KM Apr 18, 2024 11:29am by: Henry Reich



- KEY MAP LEGEND**
- (XX) IMPROVEMENT PLAN SHEET NUMBER
 - (XX) CURB RAMP ENLARGEMENTS SHEET NUMBER
 - (XX) PAVEMENT REHABILITATION PLAN SHEET NUMBER
 - (XX) SIGNING AND MARKING PLAN SHEET NUMBER
 - (XX) TRAFFIC SIGNAL MODIFICATION PLAN SHEET NUMBER



RANCHO SANTA FE ROAD CONSTRUCTION CL				
XX	LENGTH	LINE/CHORD DIRECTION	R	T
C1	260.73'	N1°36'51"W	1,400.00'	130.74'
L1	688.45'	N3°49'36"E		
C2	96.72'	N1°58'46"E	1,500.00'	48.38'
L2	559.50'	N0°07'57"E		
C3	568.82'	N13°26'50"W	1,200.00'	289.86'
L3	308.86'	N27°01'37"W		
C4	1,941.98'	N12°42'41"E	1,400.00'	1,163.88'
L4	1,522.59'	N52°26'59"E		
C5	146.63'	N48°14'56"E	1,000.00'	73.45'
L5	1,146.33'	N44°02'53"E		

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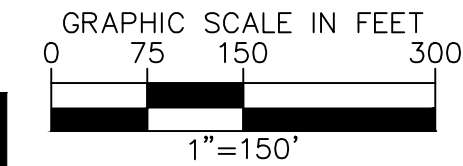


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM
DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

VWD AS-BUILT
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

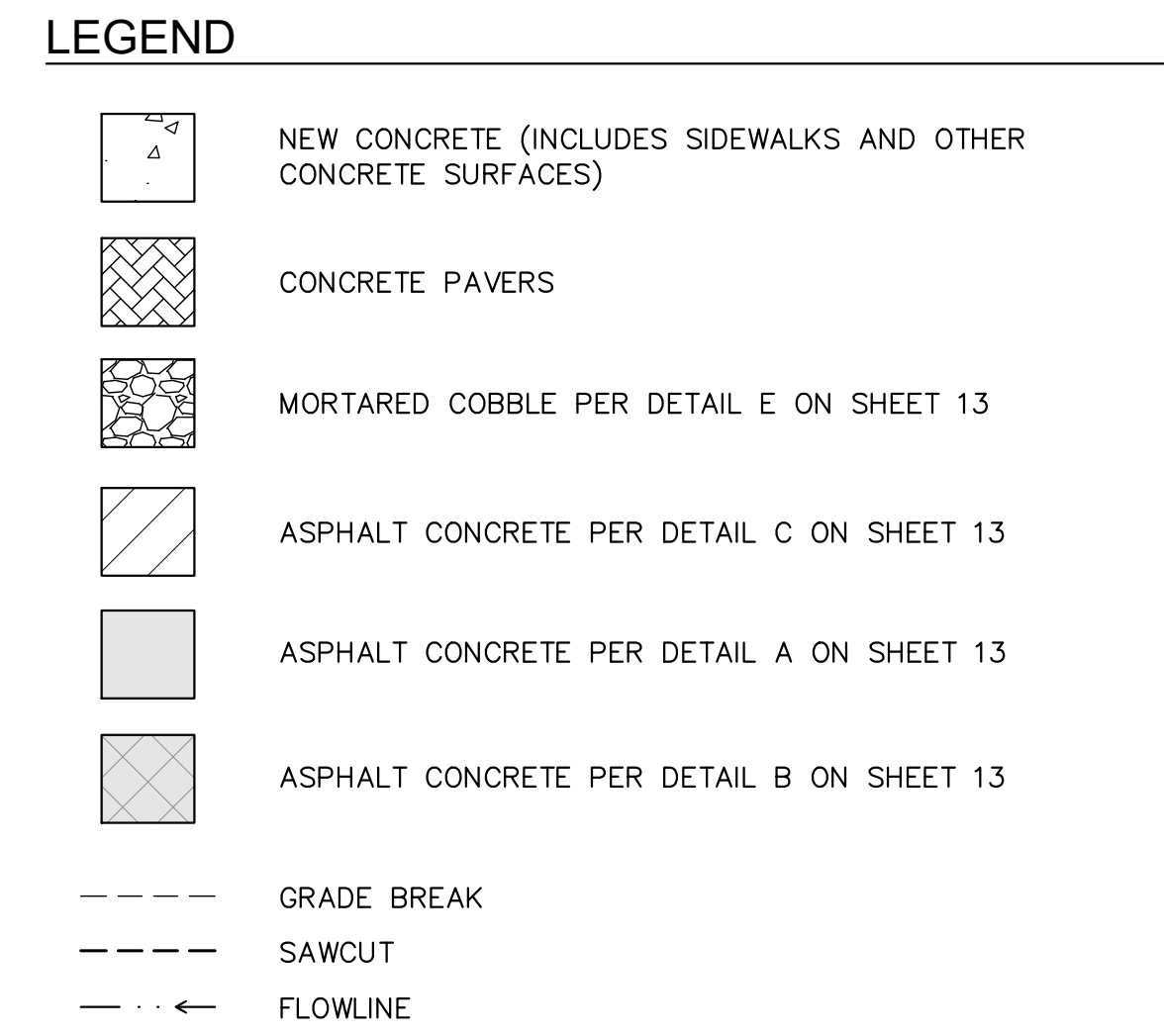
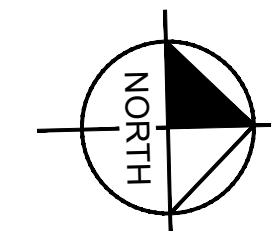
ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

CITY OF SAN MARCOS
KEY MAP FOR:
**RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS**
City Drawing No.
IP23-00018
Sheet 4 of 27

VWD WO# 284234

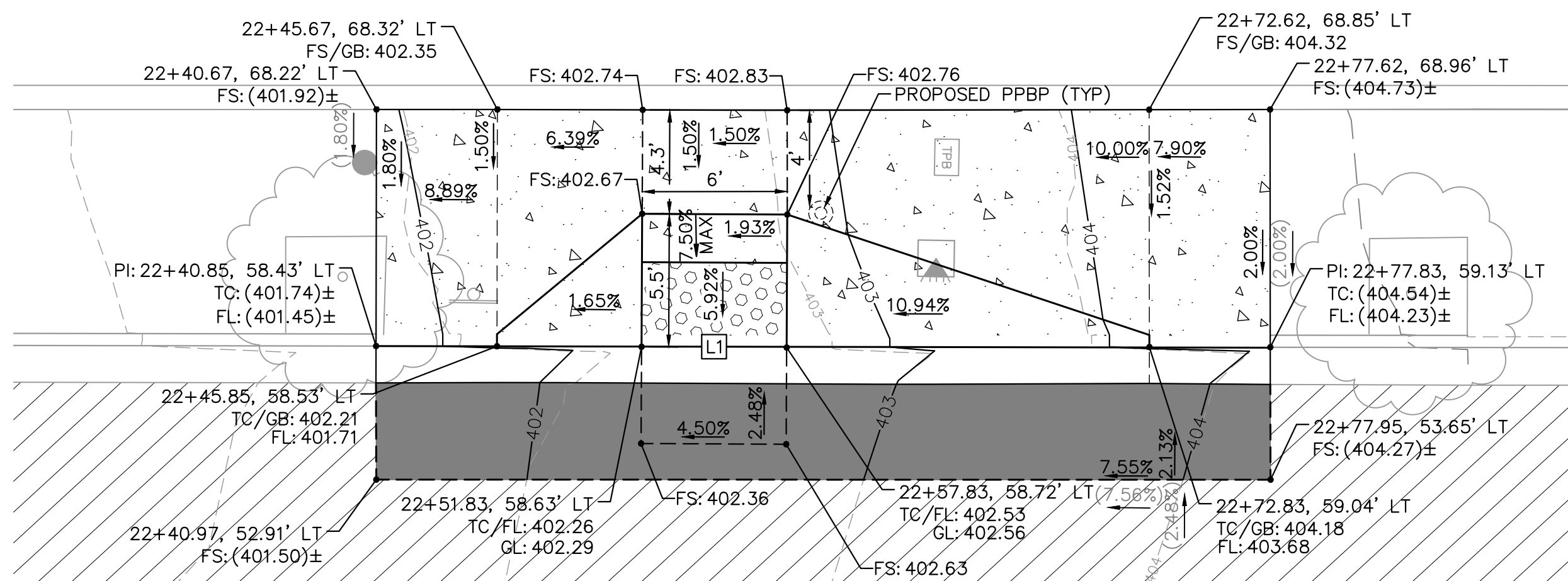


- (1) PROTECT IN PLACE.
- (2) ADJUST TO FINISHED GRADE.
- (3) REMOVE AND DISPOSE EXISTING FACILITIES IN CONFLICT WITH IMPROVEMENTS.
- (5) SAWCUT PER DETAIL A ON SHEET 13.
- (6) CONSTRUCT 6" TYPE G CURB AND GUTTER PER SDRSD G-02.
- (7) REMOVE EXISTING PAINTED CROSSWALK AND REFER TO SIGNING AND MARKING PLANS ON SHEETS 19-22 FOR NEW TRAFFIC SIGNING AND PAVEMENT MARKING INSTALLATIONS.
- (8) CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07 AND G-09.
- (9) CONSTRUCT ASPHALT CONCRETE (C2-PG 64-28PM) PER DETAIL C SHEET 13.
- (10) CONSTRUCT CROSS GUTTER SPANDREL PER SDRSD G-12.
- (11) REMOVE END LODGE POLE POST AND MOVE BACK 1'.
- (12) CONSTRUCT TYPE A-1 CURB RAMP PER SDRSD G-27 THROUGH G-32A. CONSTRUCT MONOLITHIC CURB AT BACK OF CURB RAMP IF GRADE CHANGE IS GREATER THAN 2". IF CURB HEIGHT EXCEEDS 6" CONSTRUCT MONOLITHIC CURB PER DETAIL D ON SHEET 13.
- (13) CONSTRUCT TYPE B-1 CURB RAMP PER SDRSD G-27 THROUGH G-32A. CONSTRUCT MONOLITHIC CURB AT BACK OF CURB RAMP IF GRADE CHANGE IS GREATER THAN 2". IF CURB HEIGHT EXCEEDS 6" CONSTRUCT MONOLITHIC CURB PER DETAIL D ON SHEET 13.
- (14) CONSTRUCT TYPE C CURB RAMP PER SDRSD G-27 THROUGH G-32 CONSTRUCT MONOLITHIC CURB AT BACK OF CURB RAMP IF GRADE CHANGE IS GREATER THAN 2". IF CURB HEIGHT EXCEEDS 6", CONSTRUCT MONOLITHIC CURB PER DETAIL D ON SHEET 13.
- (15) REFER TO SIGNING AND MARKING PLANS ON SHEETS 19-22 FOR NEW TRAFFIC SIGNING AND PAVEMENT MARKING INSTALLATIONS.
- (18) EXISTING SURVEY MONUMENT (CORNER, WELL, OR BENCHMARK). REFER TO NOTES ON SHEET 3.
- (22) REFER TO TRAFFIC SIGNAL PLANS ON SHEETS 23-27 FOR TRAFFIC SIGNAL REMOVALS, RELOCATIONS, AND NEW INSTALLATIONS.
- (24) ADJUST TO FINISHED GRADE. FURNISH AND INSTALL LID AND REUSE VALVE BOX FRAME PER VWD STD W-14. FIRE HYDRANTS ONLY.
- (25) ADJUST TO FINISHED GRADE. FURNISH AND INSTALL VALVE BOX FRAME AND LID PER VWD STD W-14 (1280N).
- (26) ADJUST TO FINISHED GRADE. FURNISH AND INSTALL NEW LID AND COVER FOR EXISTING BLOW OFF ASSEMBLY PER VWD STD W-1 (SBF1243).
- (27) CONSTRUCT ASPHALT CONCRETE (B2-PG 64-10) PER DETAIL A ON SHEET 13.

VALLECITOS WATER DISTRICT APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE Date: _____ JASON P. HUBBARD, P.E. DISTRICT ENGINEER _____ 60317 exp.: 6/30/2024 _____ APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED		_____	
VALLECITOS WATER DISTRICT PRESSURE ZONE: 815 HGL _____		VWD AS-BUILT By: _____ Date: _____ NAME (ENGINEER OF WORK) R.C.E. NO. _____ exp.: 6/30/20XX _____	

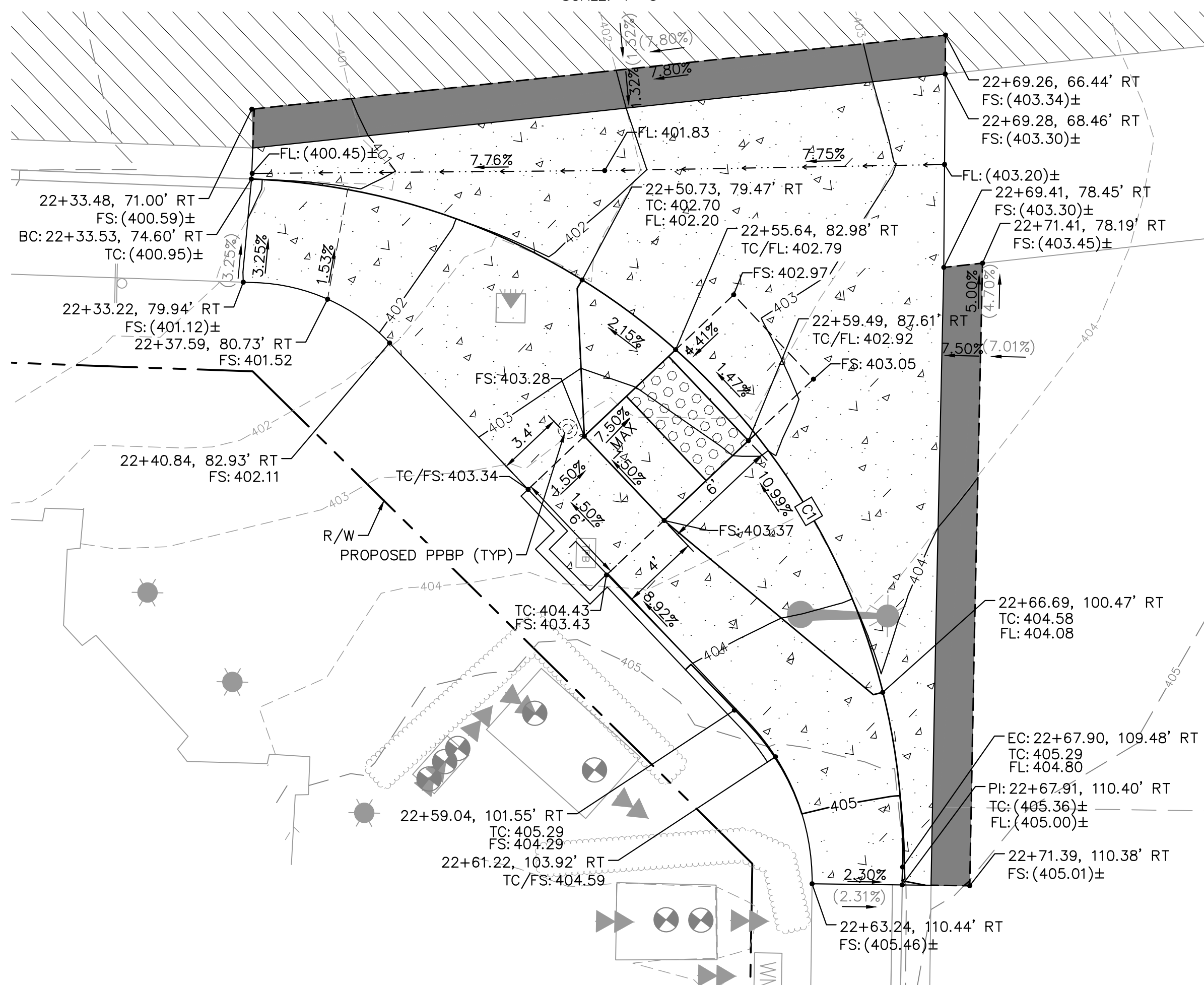
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RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024		By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24		Engineering Inspector _____ Date _____		FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS			
By: Isaac Etchamendi, City Engineer R.C.E.: 81294 exp.: 9/30/2025		Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "GP-032"		IMPROVEMENT PLANS FOR: RANCHO SANTA FE ROAD			
		Location: _____		PAVEMENT IMPROVEMENTS			
Date: _____		Record From: 604.89 Record of Survey 23731		City Drawing No. IP23-0001			
		File: 604.89 602.82 Datum: NAVD88 (NGVD29)		Sheet 5 of _____			



S RANCHO SANTA FE ROAD AT BOULDERIDGE DRIVE - SW CURB RETURN

SCALE: 1"=5'



S RANCHO SANTA FE ROAD AT BOULDERIDGE DRIVE - SE CURB RETURN

SCALE: 1"=5'

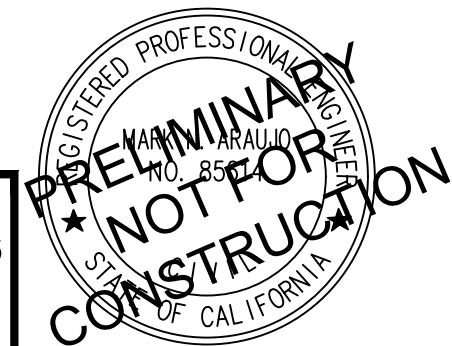
LEGEND

- NEW CONCRETE (INCLUDES SIDEWALKS AND OTHER CONCRETE SURFACES)
- CONCRETE PAVERS
- MORTARED COBBLE PER DETAIL E ON SHEET 13
- ASPHALT CONCRETE PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- ASPHALT CONCRETE PER DETAIL B ON SHEET 13
- GRADE BREAK
- SAWCUT
- FLOWLINE

CURB GEOMETRIC DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
C1	54.94'	N46°07'57"E	35.00'	34.96'	89°56'15"	6" C&G PER SDRSD G-02
L1	36.98'	N0°55'19"W				6" C&G PER SDRSD G-02

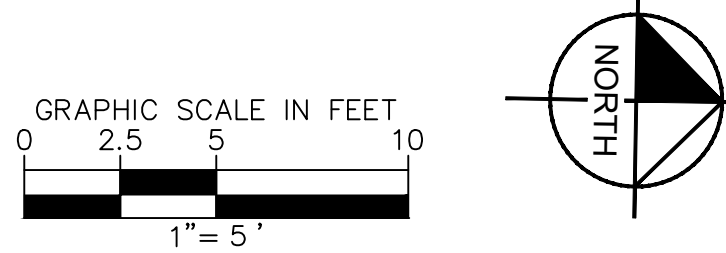
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Phone: 619.234.9411 / www.kimley-horn.com



VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: .815 HGL _____
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchemendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

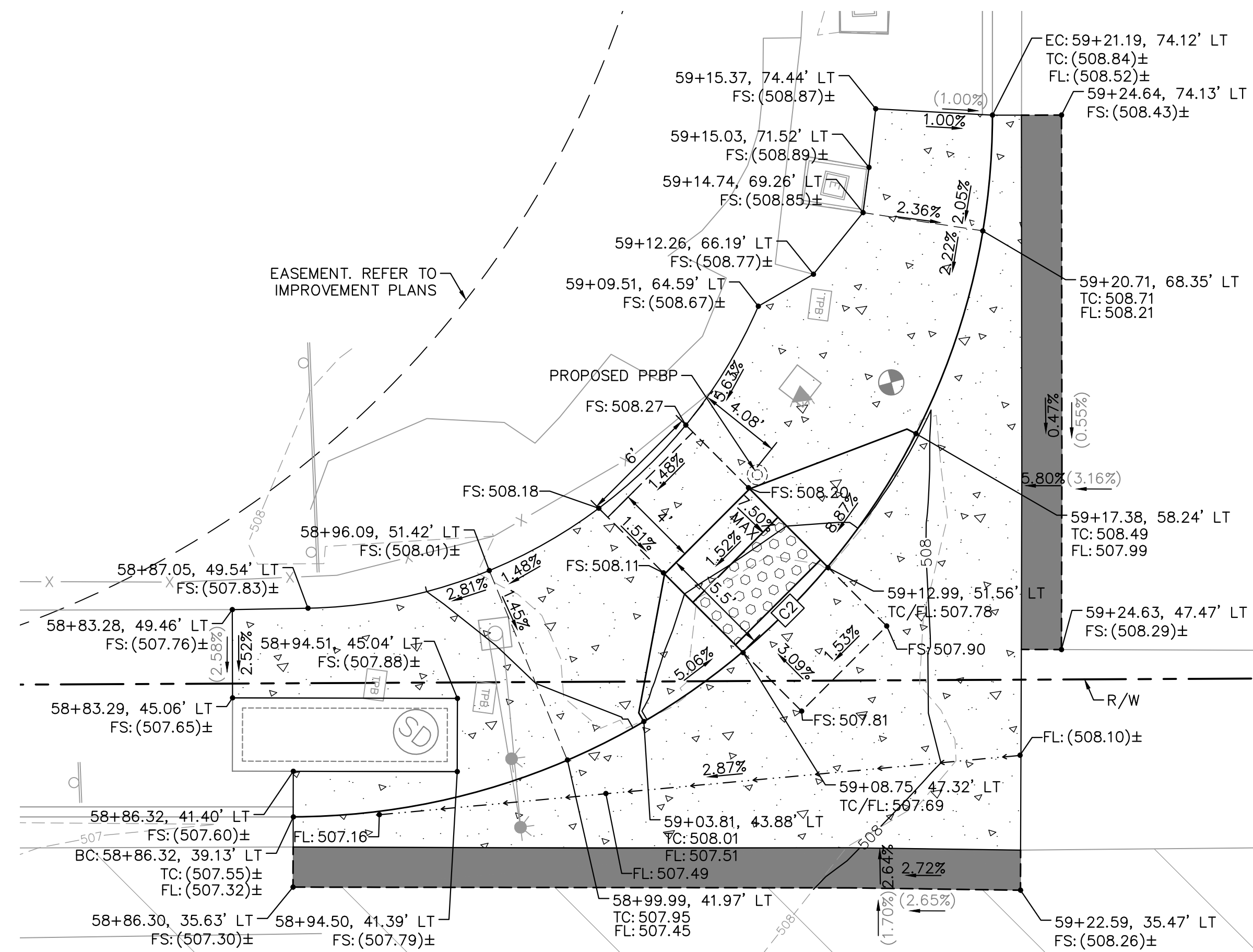
BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: _____ Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

CITY OF SAN MARCOS
CURB RAMP ENLARGEMENTS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS

City Drawing No.
IP23-00018
Sheet 6 of 27

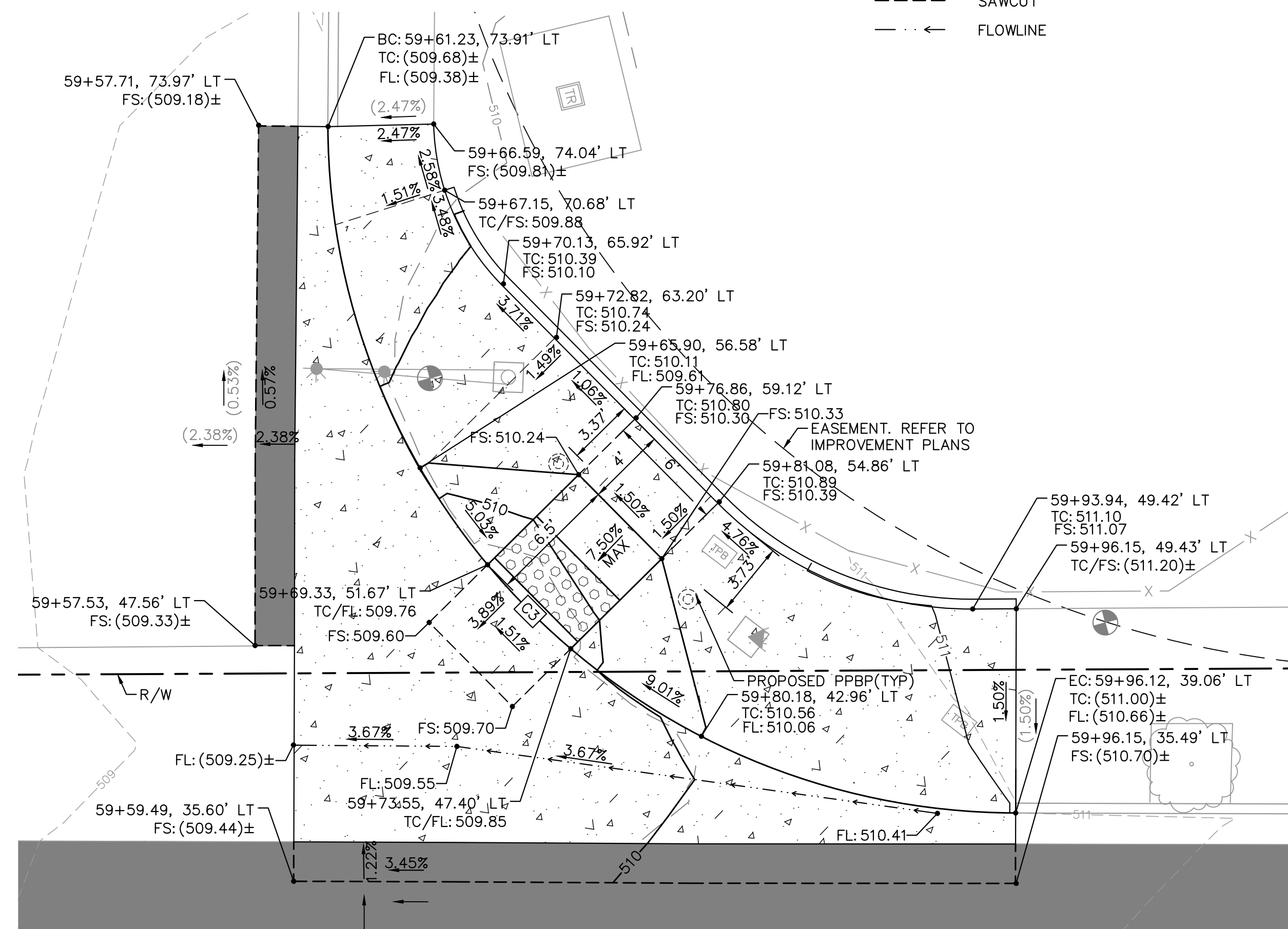
VWD WO# 284234

Drawing name: K:\SND_MJN\095824139 -- Roncho Santa Fe Road\Design\Plan Sheets\824139-DT01.dwg DT02 Apr 18, 2024 11:30am by: Henry Reich



S RANCHO SANTA FE ROAD AT VIA CANCION - SW CURB RETURN

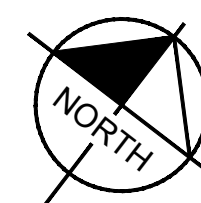
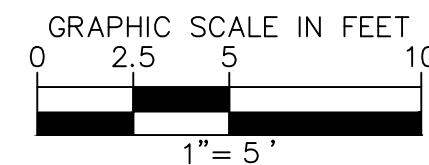
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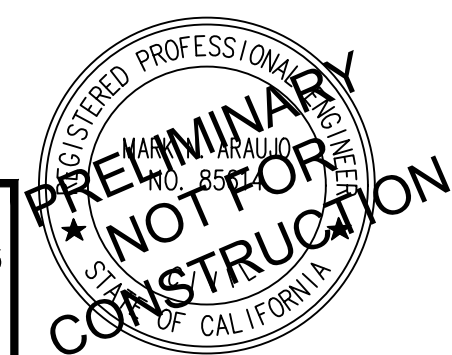
S RANCHO SANTA FE ROAD AT VIA CANCION - NW CURB RETURN

SCALE: 1"=5'

CURB GEOMETRIC DATA						
	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
C2	54.85'	N72°11'4"E	35.00'	34.87'	89°47'04"	6" C&G PER SDRSD G-02
C3	54.72'	S82°35'48"E	35.00'	34.75'	89°35'08"	6" C&G PER SDRSD G-02



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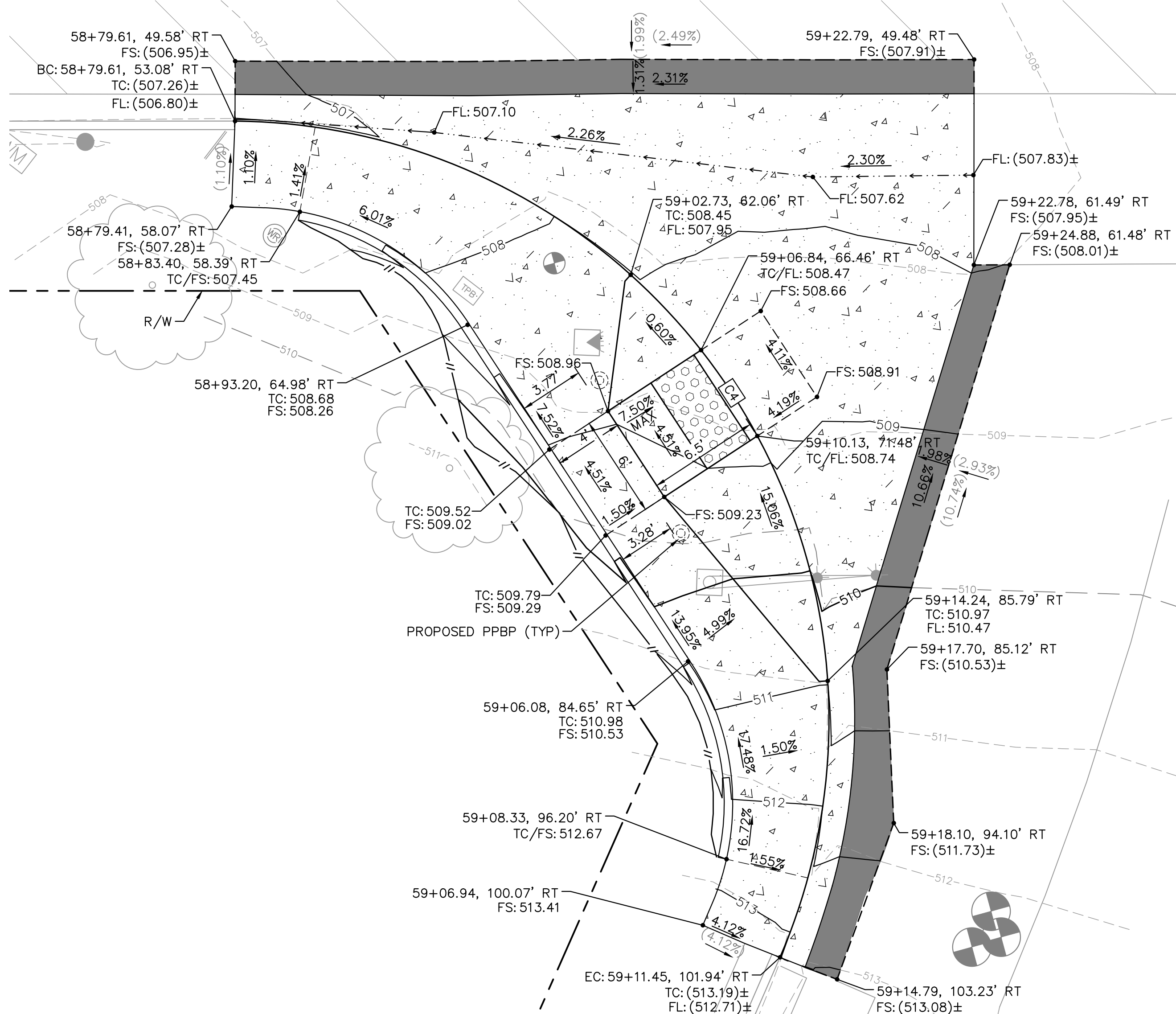
VALLECITOS WATER DISTRICT APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE Date: _____ JASON P. HUBBARD, P.E. DISTRICT ENGINEER <u>60317</u> exp.: <u>6/30/2024</u> APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED		_____	
VALLECITOS WATER DISTRICT PRESSURE ZONE: <u>815</u> HGL _____ _____		VWD AS-BUILT By: _____ Date: _____ NAME (ENGINEER OF WORK) R.C.E. NO. _____ exp.: <u>6/30/20XX</u>	

[illegible]

RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____		By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____		Engineering Inspector _____ Date _____		FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS CURB RAMP ENLARGEMENTS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS City Drawing No. IP23-00018 Sheet 7 of 27			
By: Isaac Elchamendi, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____		Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032"					
		Location: _____					
		Record From: Record of Survey 23731 Elev: 604.89 602.82 Datum: NAVD88 [NGVD29]					

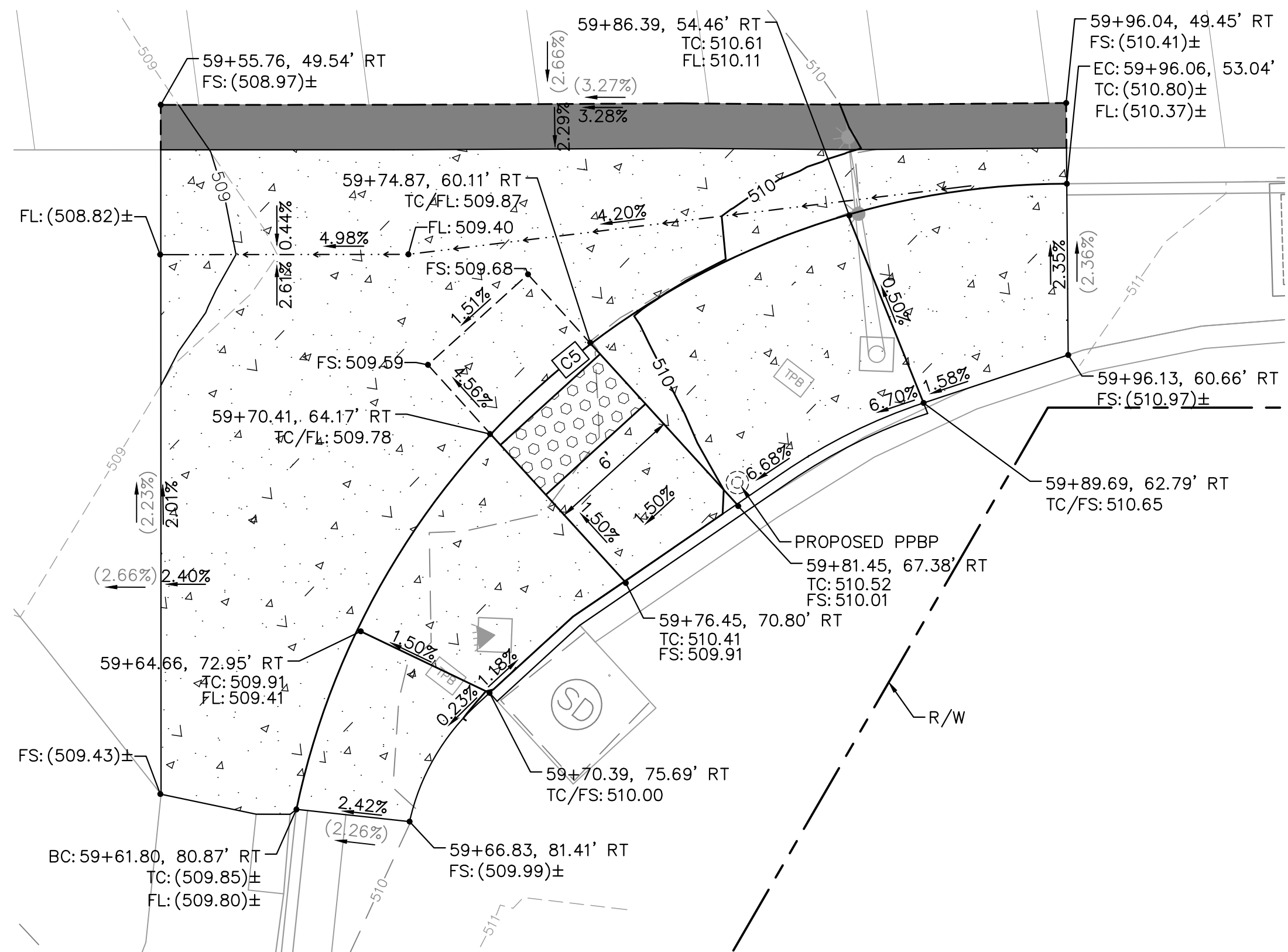
VWD WO#	284254
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Drawing name: K:\SD\JMN\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-DT01.dwg DT03 Apr 18, 2024 11:20am by: Henry Rich



S RANCHO SANTA FE ROAD AT VIA ALLONDRA - SE CURB RETURN

SCALE: 1"=5'



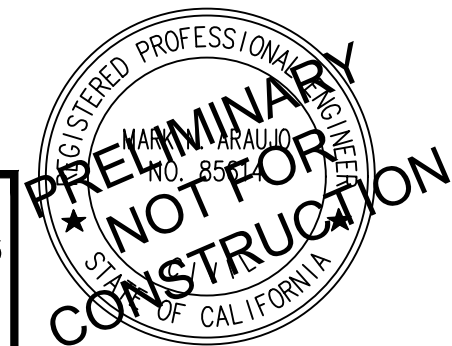
S RANCHO SANTA FE ROAD AT VIA ALLONDRA - NE CURB RETURN

SCALE: 1"=5'

LEGEND

- NEW CONCRETE (INCLUDES SIDEWALKS AND OTHER CONCRETE SURFACES)
- CONCRETE PAVERS
- MORTARED COBBLE PER DETAIL E ON SHEET 13
- ASPHALT CONCRETE PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- ASPHALT CONCRETE PER DETAIL B ON SHEET 13
- GRADE BREAK
- SAWCUT
- FLOWLINE

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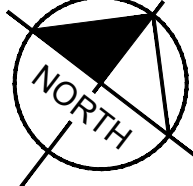
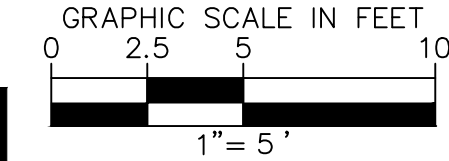


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM
DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

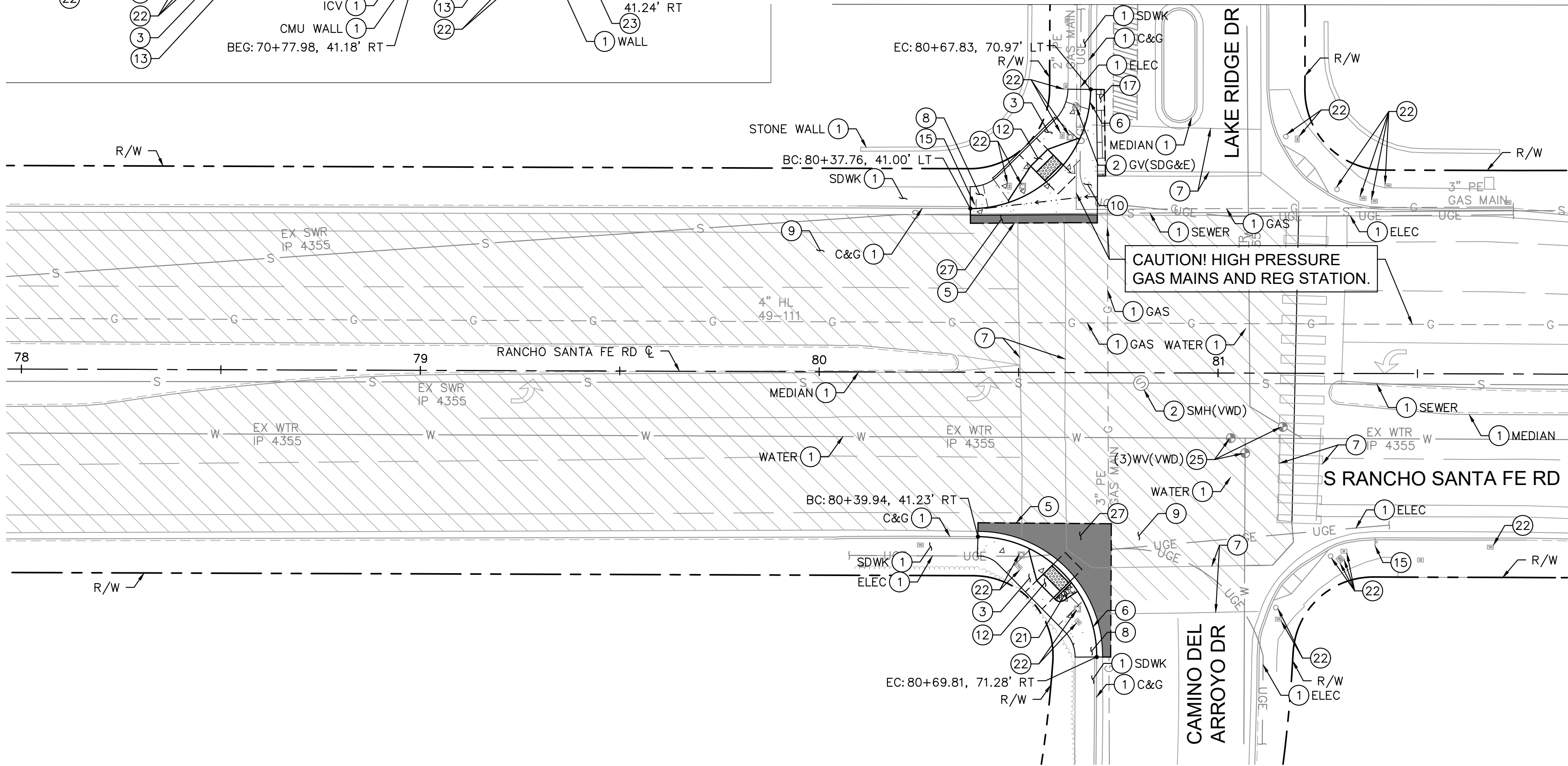
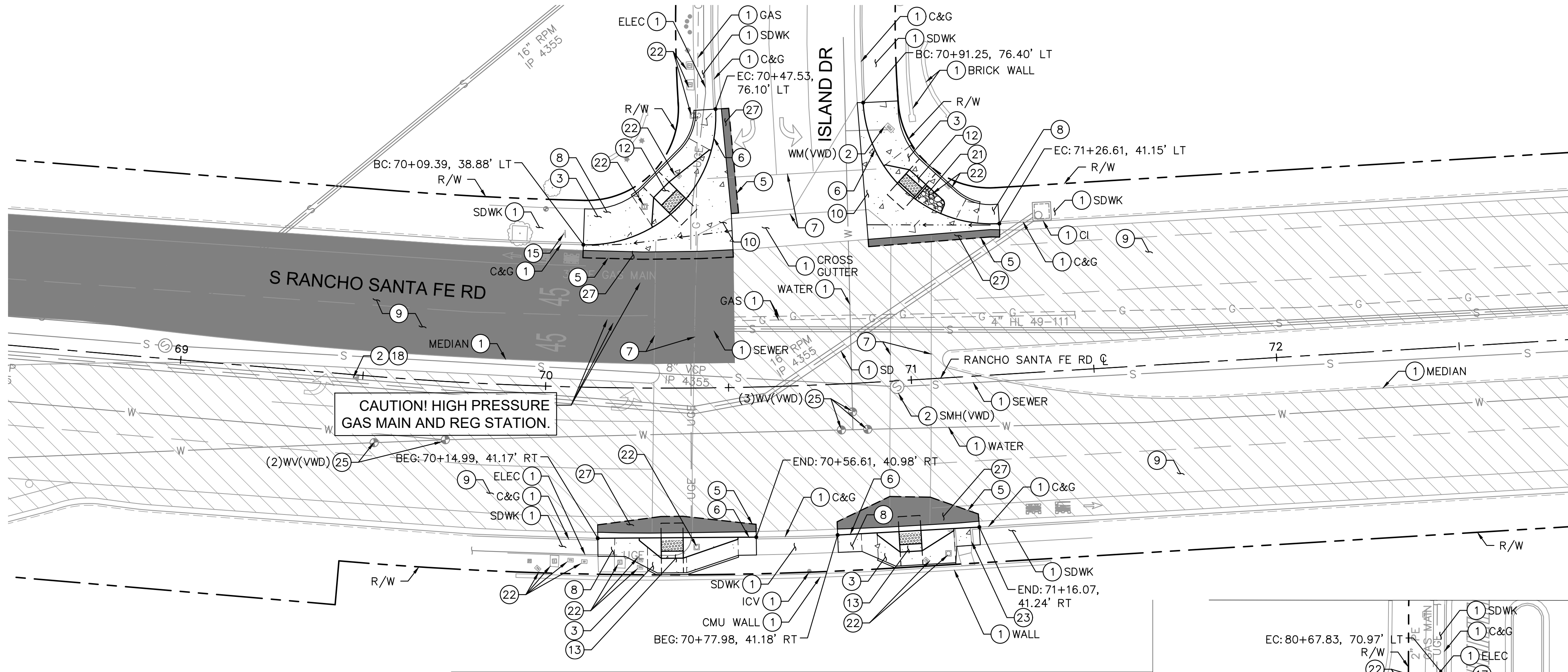
VMD AS-BUILT
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE	
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____		By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____		Engineering Inspector _____ Date _____		FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____	
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS		City Drawing No.	
By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____		Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: _____ Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]		CURB RAMP ENLARGEMENTS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS		IP23-00018 Sheet 8 of 27	
						VMD WO# 284234	

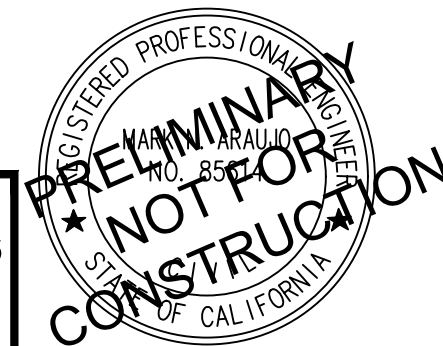
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SDG&E NOTES

- CITY CONTRACTOR TO CONTACT SDG&E FUS KIMBERLY STONE (KSTONE@SDGE.COM, 619-372-9607) MINIMUM 3 WEEKS PRIOR TO STREET RESTORATION TO COORDINATE RAISING GAS VALVE BOXES TO GRADE.
- WHEN EXCAVATING OR BREAKING OUT CONCRETE WITHIN 10 FEET OF HIGH PRESSURE GAS MAIN AND REG STATION, SDG&E STANDBY REQUIRED. HAND DIG ONLY. NO MECHANICAL DIGGING.

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VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

APPROVED FOR CONSTRUCTION
By: Isaac Elchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: _____ Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

CITY OF SAN MARCOS
IMPROVEMENT PLANS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No. **IP23-00018**
Sheet 9 of 27

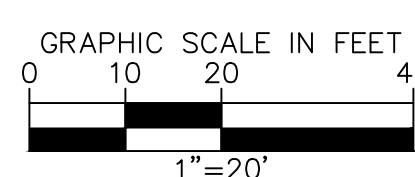
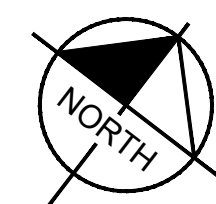
VMD WO# 284234

LEGEND

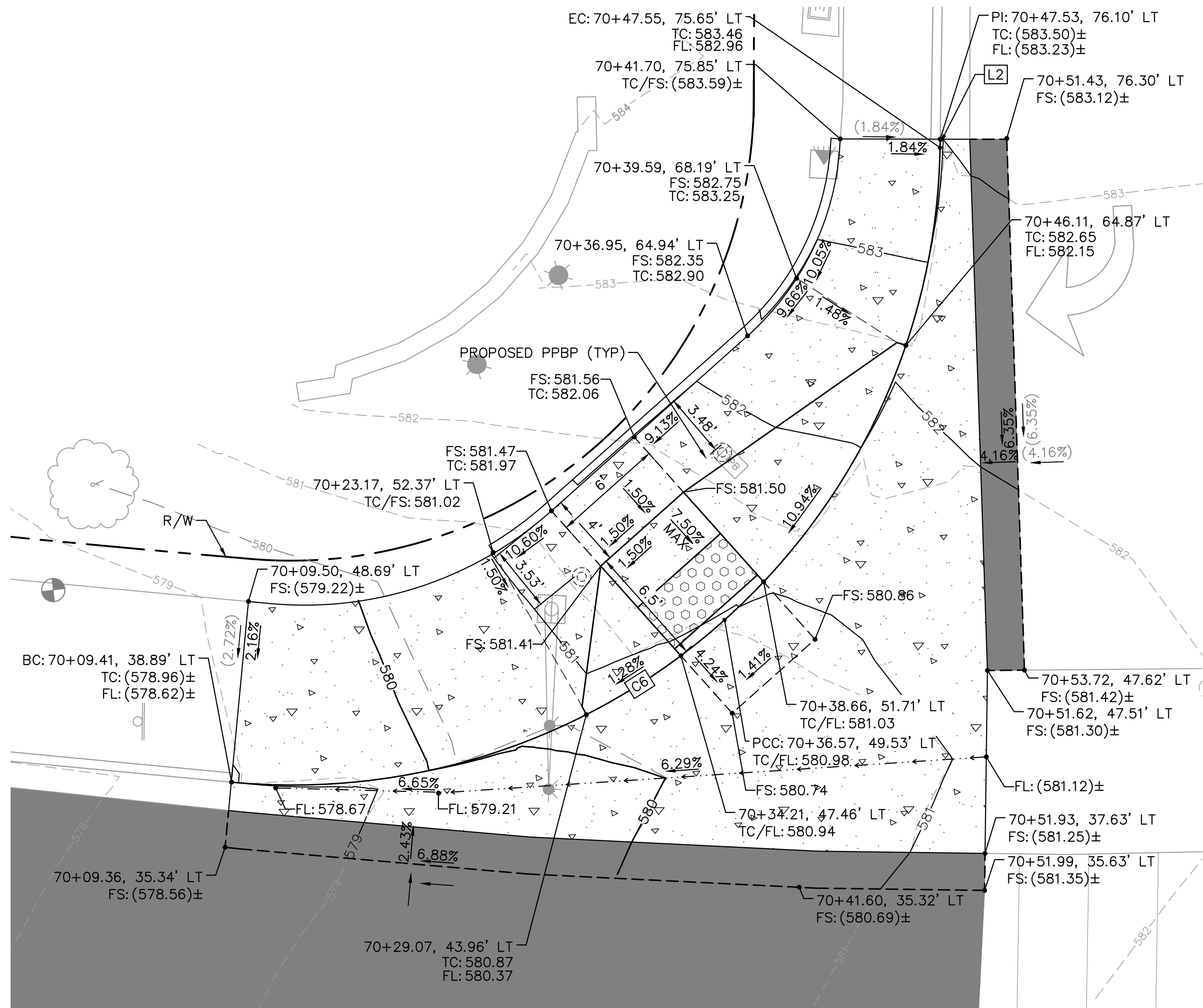
- NEW CONCRETE (INCLUDES SIDEWALKS AND OTHER CONCRETE SURFACES)
- CONCRETE PAVERS
- MORTARED COBBLE PER DETAIL E ON SHEET 13
- ASPHALT CONCRETE PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- ASPHALT CONCRETE PER DETAIL B ON SHEET 13
- GRADE BREAK
- SAWCUT
- FLOWLINE

CONSTRUCTION NOTES

- PROTECT IN PLACE.
- ADJUST TO FINISHED GRADE.
- REMOVE AND DISPOSE EXISTING FACILITIES IN CONFLICT WITH IMPROVEMENTS.
- SAWCUT PER DETAIL A ON SHEET 13.
- CONSTRUCT 6" TYPE G CURB AND GUTTER PER SDRSD G-02.
- REMOVE EXISTING PAINTED CROSSWALK AND REFER TO SIGNING AND MARKING PLANS ON SHEETS 19-22 FOR NEW TRAFFIC SIGNING AND PAVEMENT MARKING INSTALLATIONS.
- CONSTRUCT 4" PCC SIDEWALK PER SDRSD G-07 AND G-09.
- CONSTRUCT ASPHALT CONCRETE (C2-PG 64-28PM) PER DETAIL C ON SHEET 13.
- CONSTRUCT CROSS GUTTER SPANDREL PER SDRSD G-12.
- CONSTRUCT TYPE A-1 CURB RAMP PER SDRSD G-27 THROUGH G-32A. CONSTRUCT MONOLITHIC CURB AT BACK OF CURB RAMP IF GRADE CHANGE IS GREATER THAN 2". IF CURB HEIGHT EXCEEDS 6", CONSTRUCT MONOLITHIC CURB PER DETAIL D ON SHEET 13.
- CONSTRUCT TYPE B-1 CURB RAMP PER SDRSD G-27 THROUGH G-32A. CONSTRUCT MONOLITHIC CURB AT BACK OF CURB RAMP IF GRADE CHANGE IS GREATER THAN 2". IF CURB HEIGHT EXCEEDS 6", CONSTRUCT MONOLITHIC CURB PER DETAIL D ON SHEET 13.
- REFER TO SIGNING AND MARKING PLANS ON SHEETS 19-22 FOR NEW TRAFFIC SIGNING AND PAVEMENT MARKING INSTALLATIONS.
- REMOVE, SALVAGE, AND RE-INSTALL PAVERS. CONTRACTOR TO REPLACE ANY DAMAGED PAVERS AND RECOMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION.
- EXISTING SURVEY MONUMENT (CORNER, WELL, OR BENCHMARK). REFER TO NOTES ON SHEET 3.
- FURNISH AND INSTALL MORTARED COBBLE PER DETAIL E ON SHEET 13.
- REFER TO TRAFFIC SIGNAL PLANS ON SHEETS 23-27 FOR TRAFFIC SIGNAL REMOVALS, RELOCATIONS, AND NEW INSTALLATIONS.
- CONSTRUCT MODIFIED CURB OUTLET TYPE A PER SDRSD D-25A, MODIFIED WITH 4" WIDE OPENING. CONTRACTOR TO TIE OUTLET INTO EXISTING DRAINAGE SYSTEM.
- ADJUST TO FINISHED GRADE. FURNISH AND INSTALL VALVE BOX FRAME AND LID PER VMD STD W-14 (1280N).
- CONSTRUCT ASPHALT CONCRETE (B2-PG 64-10) PER DETAIL A ON SHEET 13.

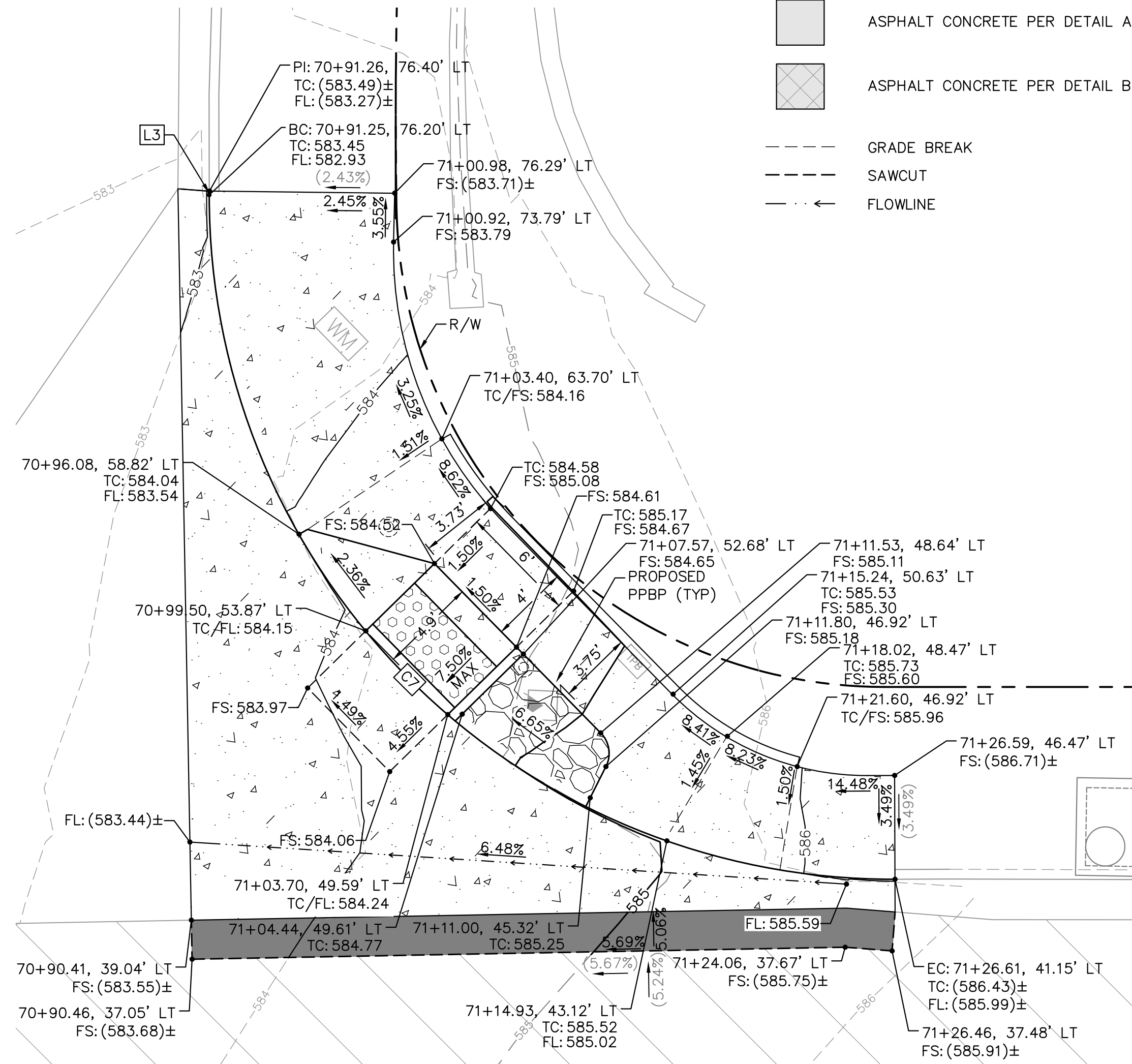


Drawing name: K:\SD\JMW\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-DT01.dwg DT04 Apr 18, 2024 11:31am by: Henry Rich



S RANCHO SANTA FE ROAD AT ISLAND DRIVE - SW CURB RETURN

SCALE: 1"=5'



S RANCHO SANTA FE ROAD AT ISLAND DRIVE - NW CURB RETURN

SCALE: 1"=5'

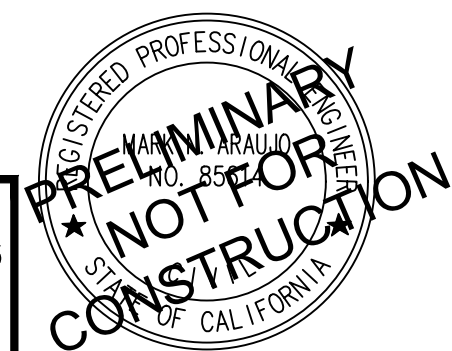
LEGEND

- NEW CONCRETE (INCLUDES SIDEWALKS AND OTHER CONCRETE SURFACES)
- CONCRETE PAVERS
- MORTARED COBBLE PER DETAIL E ON SHEET 13
- ASPHALT CONCRETE PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- ASPHALT CONCRETE PER DETAIL B ON SHEET 13
- GRADE BREAK
- SAWCUT
- FLOWLINE

CURB GEOMETRIC DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
C6	57.76'	N2°11'39"E	35.00'	37.90'	94°33'33"	6" C&G PER SDRSD G-02
C7	55.16'	N88°59'13"E	35.00'	35.18'	90°18'03"	6" C&G PER SDRSD G-02
L2	0.46'	N45°05'07"W				6" C&G PER SDRSD G-02
L3	0.20'	S45°51'46"E				6" C&G PER SDRSD G-02

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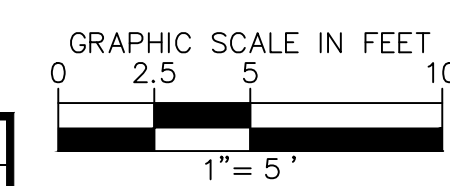


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

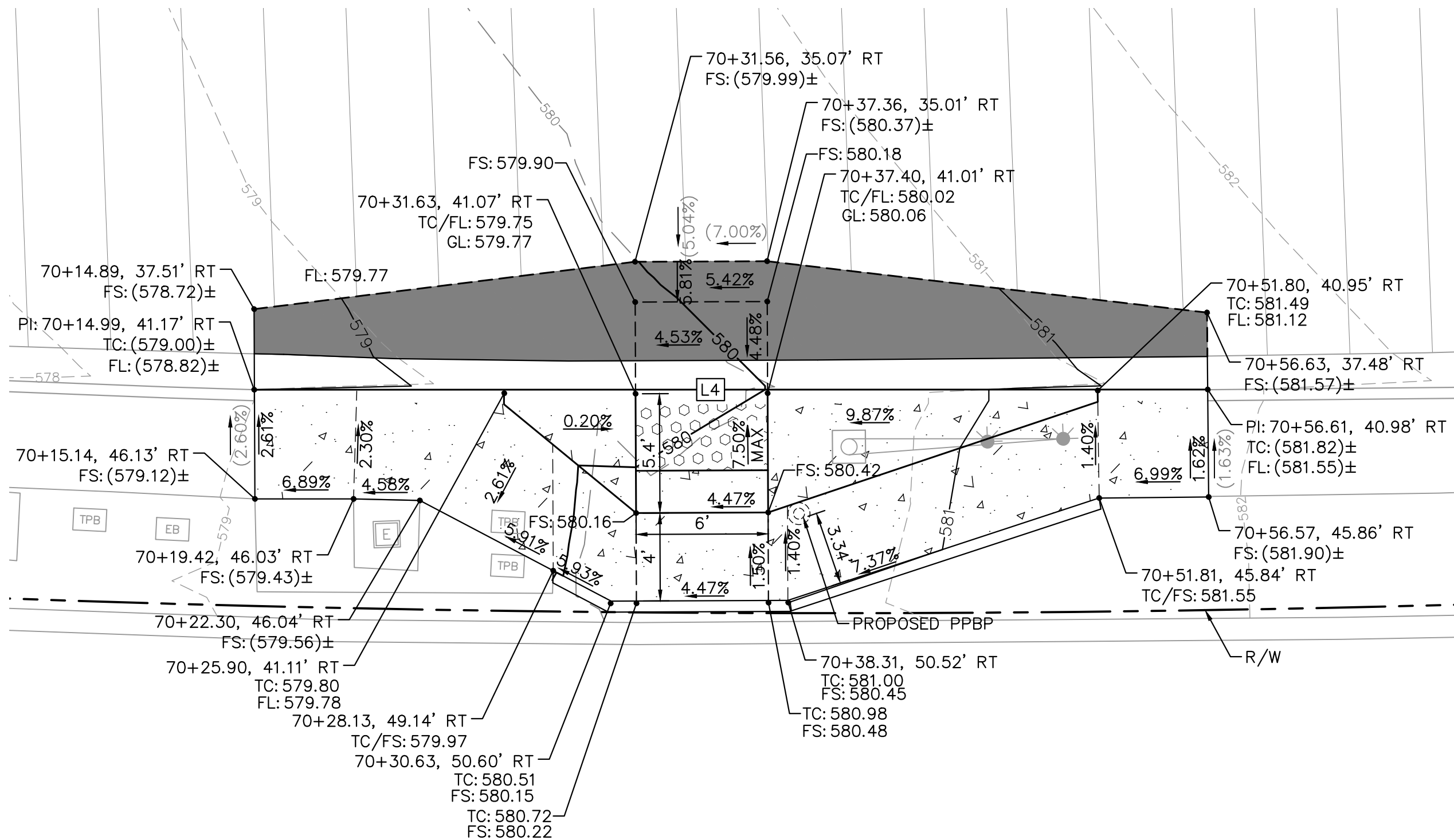
VMD AS-BUILT
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



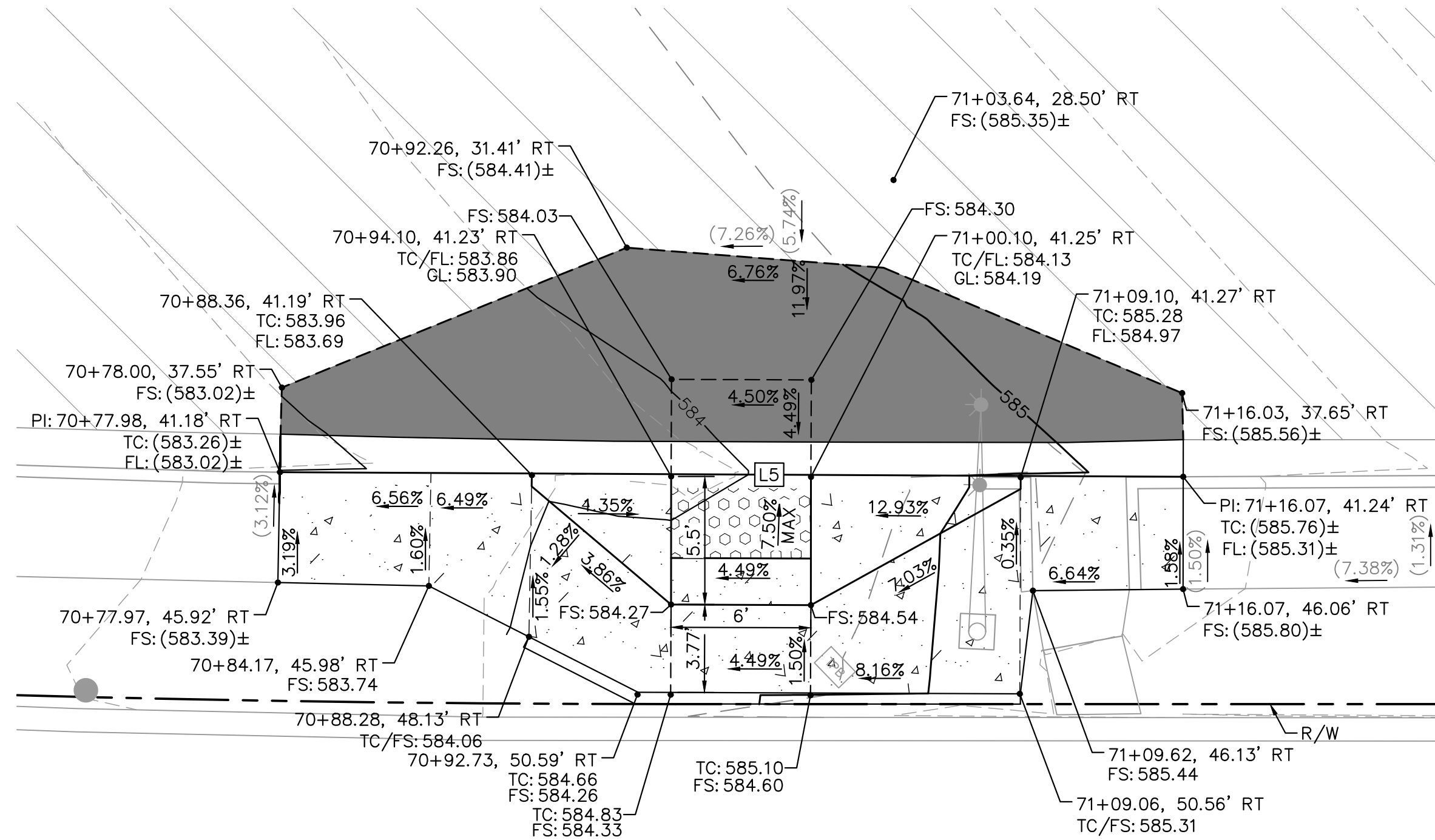
RECOMMENDED FOR APPROVAL		ENGINEER OF WORK		INSPECTED AND RECOMMENDED FOR ACCEPTANCE		ENGINEER OF WORK AS-BUILT CERTIFICATE			
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____		By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____		Engineering Inspector _____ Date _____		FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____			
APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS CURB RAMP ENLARGEMENTS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS		City Drawing No.			
By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____		Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: _____ Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]				IP23-00018			
						Sheet 10 of 27			
						VMD WO# 284234			

Drawing name: K:\SD\JMN\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-0701.dwg Date: 0705 Apr 18, 2024 11:32am by: Henry Rich



S RANCHO SANTA FE ROAD AT ISLAND DRIVE - SE CURB RETURN

SCALE: 1"=5'



S RANCHO SANTA FE ROAD AT ISLAND DRIVE - NE CURB RETURN

SCALE: 1"=5'

CURB GEOMETRIC DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
L4	43.31'	N47°08'19"E				6" C&G PER SDRSD G-02
L5	38.77'	N44°20'28"E				6" C&G PER SDRSD G-02

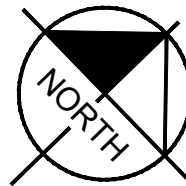
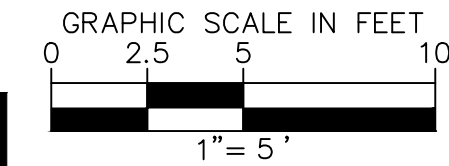
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VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

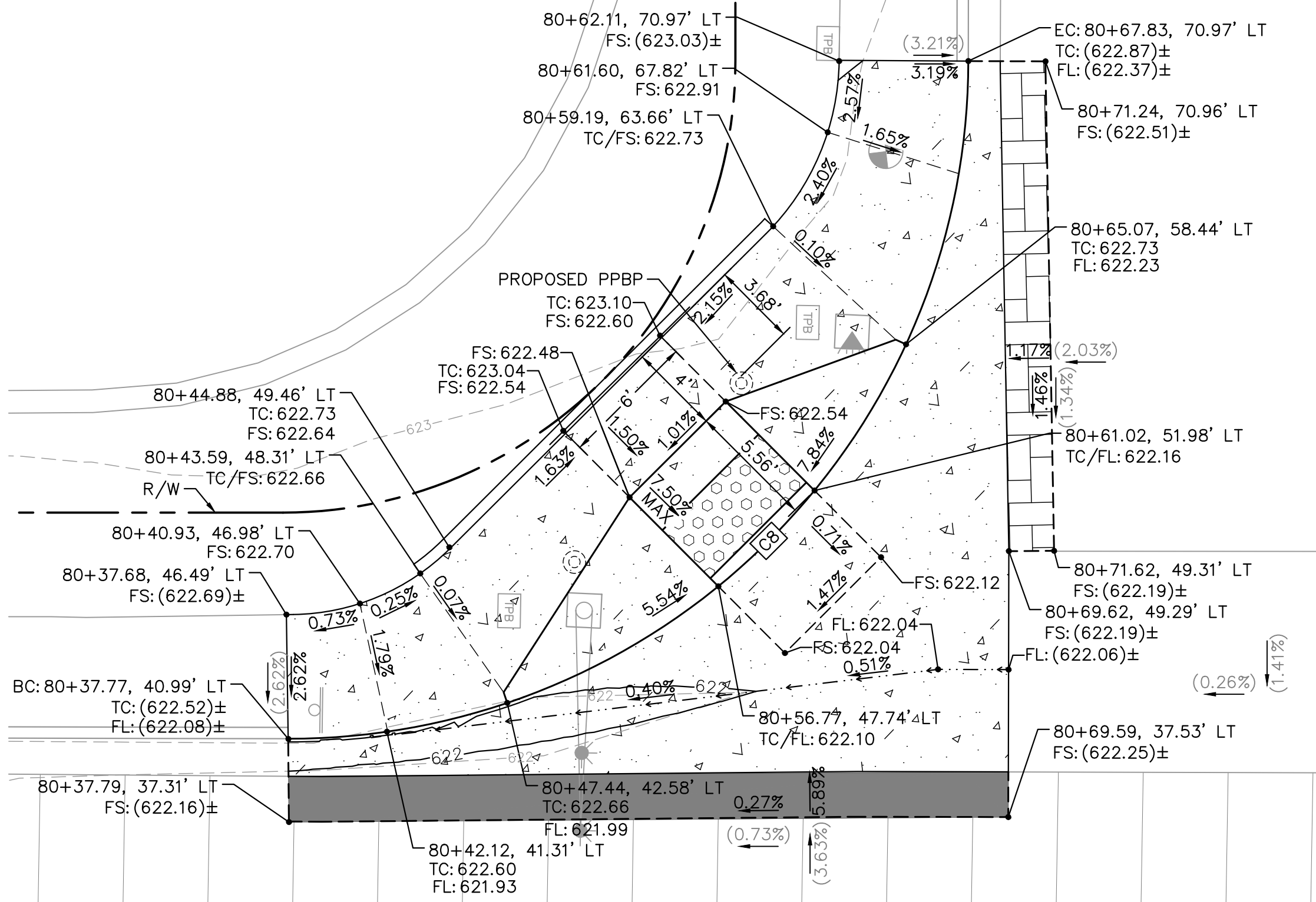
VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



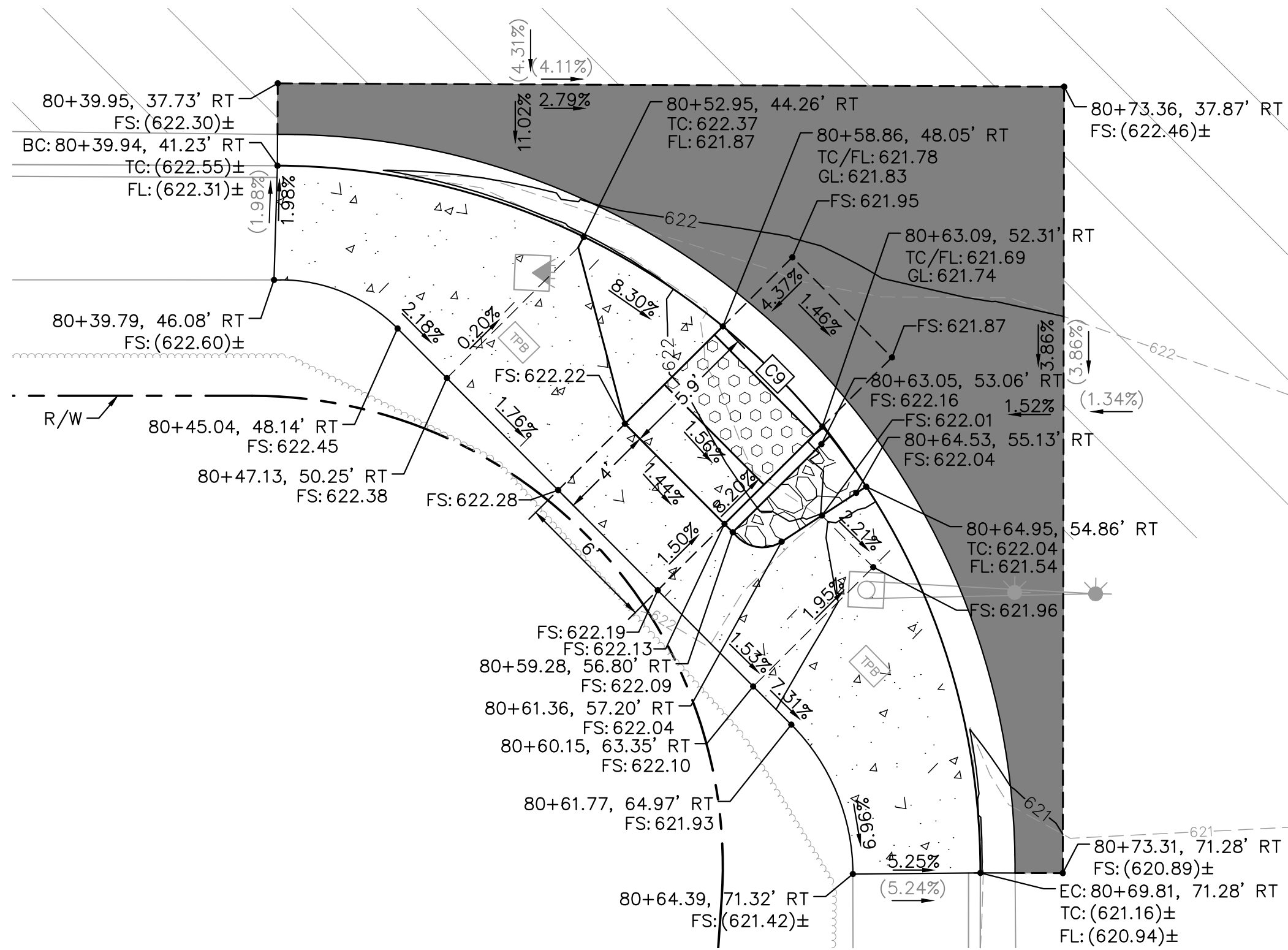
RECOMMENDED FOR APPROVAL By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____		ENGINEER OF WORK By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____		INSPECTED AND RECOMMENDED FOR ACCEPTANCE Engineering Inspector _____ Date _____		ENGINEER OF WORK AS-BUILT CERTIFICATE FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____		
APPROVED FOR CONSTRUCTION By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____		BENCH MARK Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: _____ Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]		CITY OF SAN MARCOS CURB RAMP ENLARGEMENTS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS				City Drawing No. IP23-00018 Sheet 11 of 27 VWD WO# 284234

Drawing name: K:\SD\JMN\095624139 - Rancho Santa Fe Road\Drawings\Plan Sheets\824139-D701.dwg Date: 0708 Apr 18, 2024 11:32am by: Henry Reich



S RANCHO SANTA FE ROAD AT LAKE RIDGE DRIVE - SW CURB RETURN

SCALE: 1"=5'



S RANCHO SANTA FE ROAD AT CAMINO DEL ARROYO - SE CURB RETURN

SCALE: 1"=5'

LEGEND

- NEW CONCRETE (INCLUDES SIDEWALKS AND OTHER CONCRETE SURFACES)
- CONCRETE PAVERS
- MORTARED COBBLE PER DETAIL E ON SHEET 13
- ASPHALT CONCRETE PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- ASPHALT CONCRETE PER DETAIL B ON SHEET 13
- GRADE BREAK
- SAWCUT
- FLOWLINE

CURB GEOMETRIC DATA

	LENGTH	LINE/CHORD DIRECTION	R	T	DELTA	REMARKS
C8	47.16'	N0°51'27"W	30.00'	30.04'	90°04'20"	6" C&G PER SDRSD G-02
C9	47.05'	N89°12'58"E	30.00'	29.92'	89°51'14"	6" C&G PER SDRSD G-02

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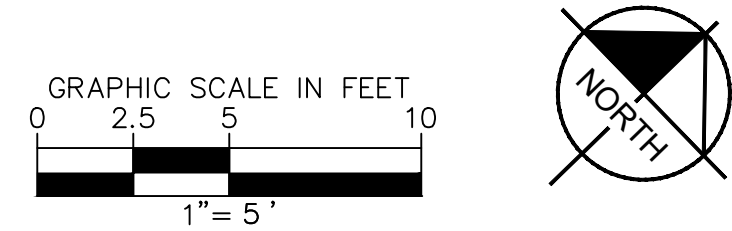


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____

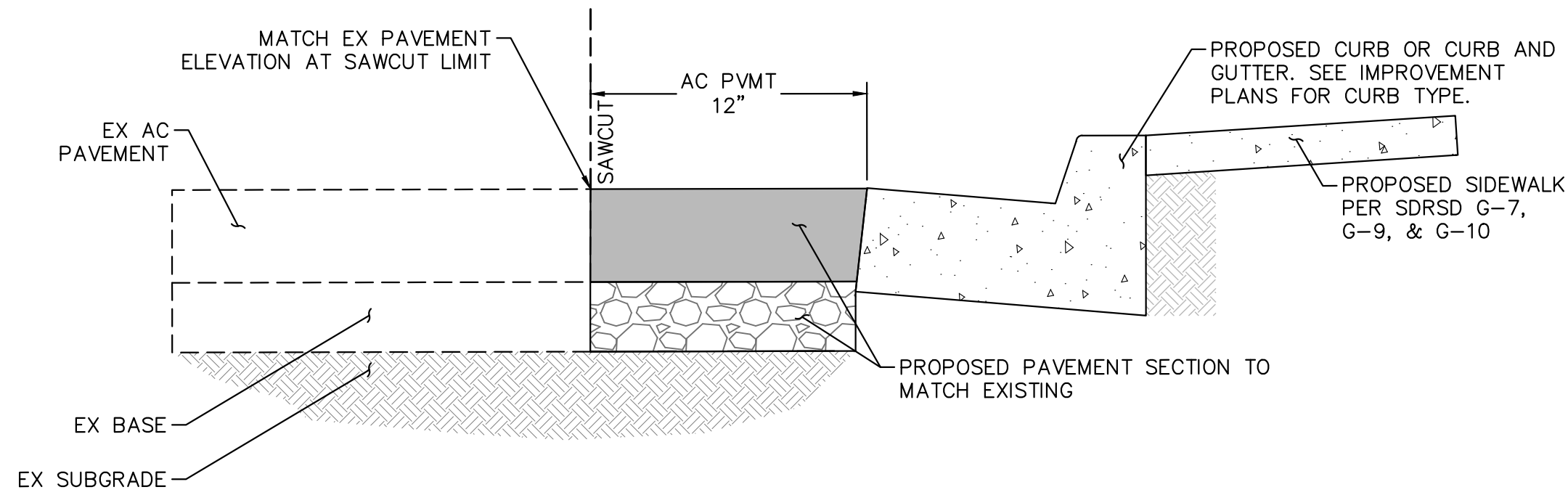
VMD AS-BUILT
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

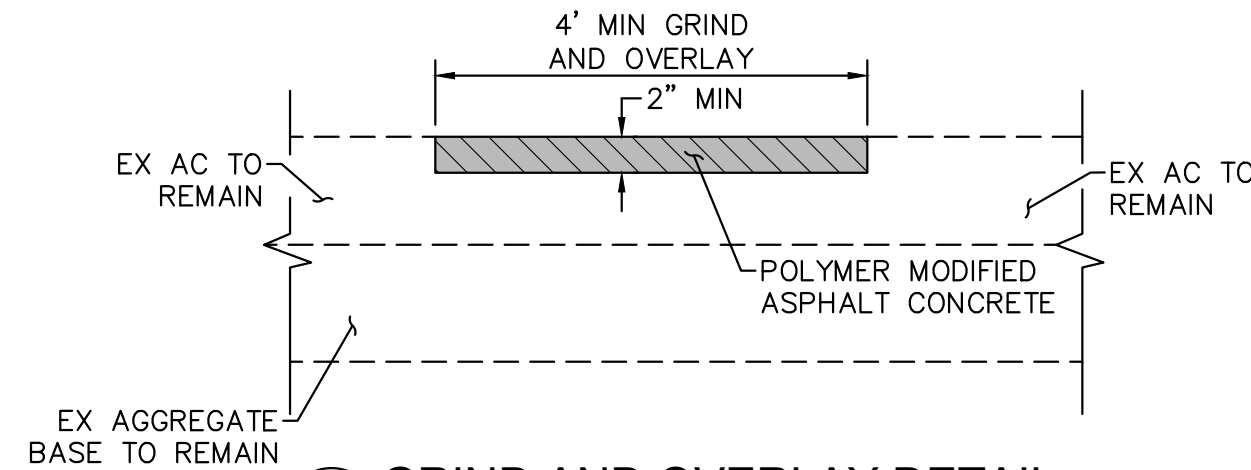
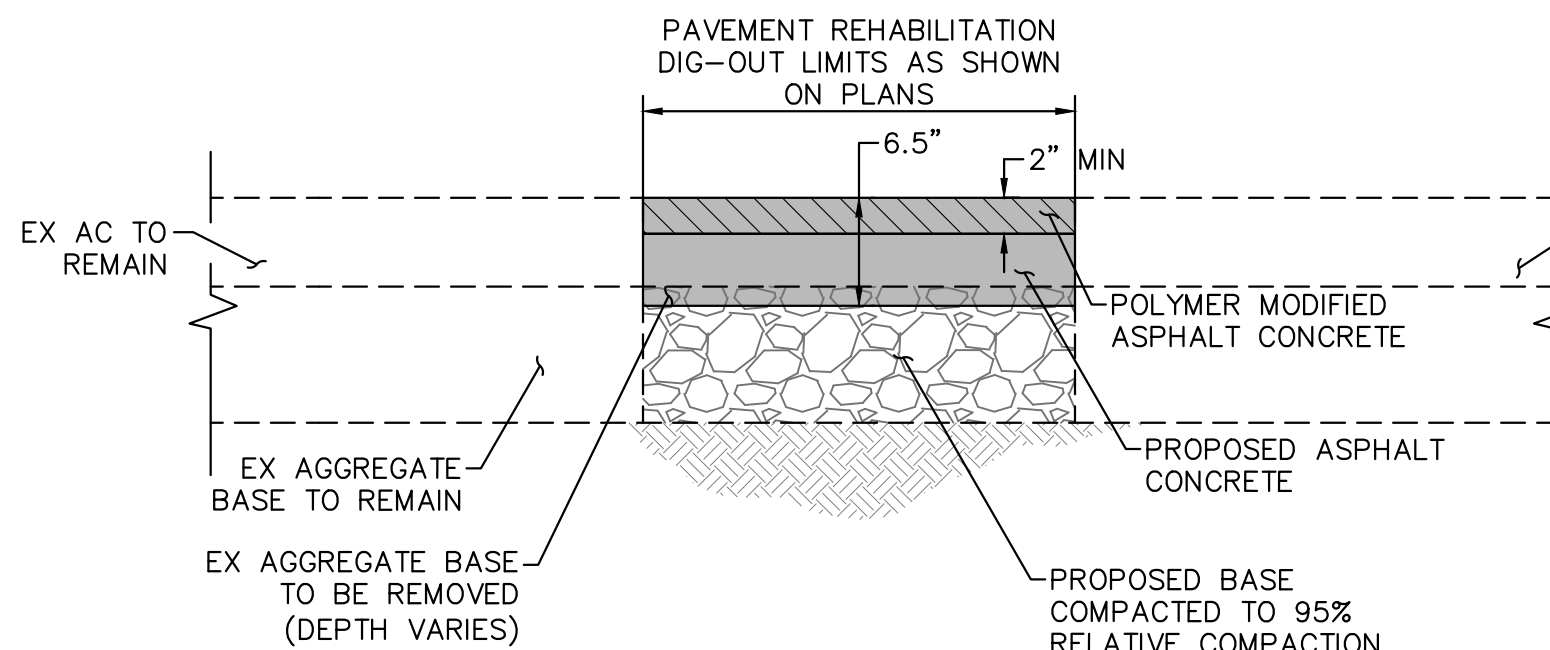


RECOMMENDED FOR APPROVAL By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____	ENGINEER OF WORK By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____	INSPECTED AND RECOMMENDED FOR ACCEPTANCE Engineering Inspector _____ Date: _____	ENGINEER OF WORK AS-BUILT CERTIFICATE FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____
APPROVED FOR CONSTRUCTION By: Isaac Etchemendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____	BENCH MARK Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: _____ Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]	CITY OF SAN MARCOS CURB RAMP ENLARGEMENTS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS	
		City Drawing No. IP23-00018	Sheet 12 of 27

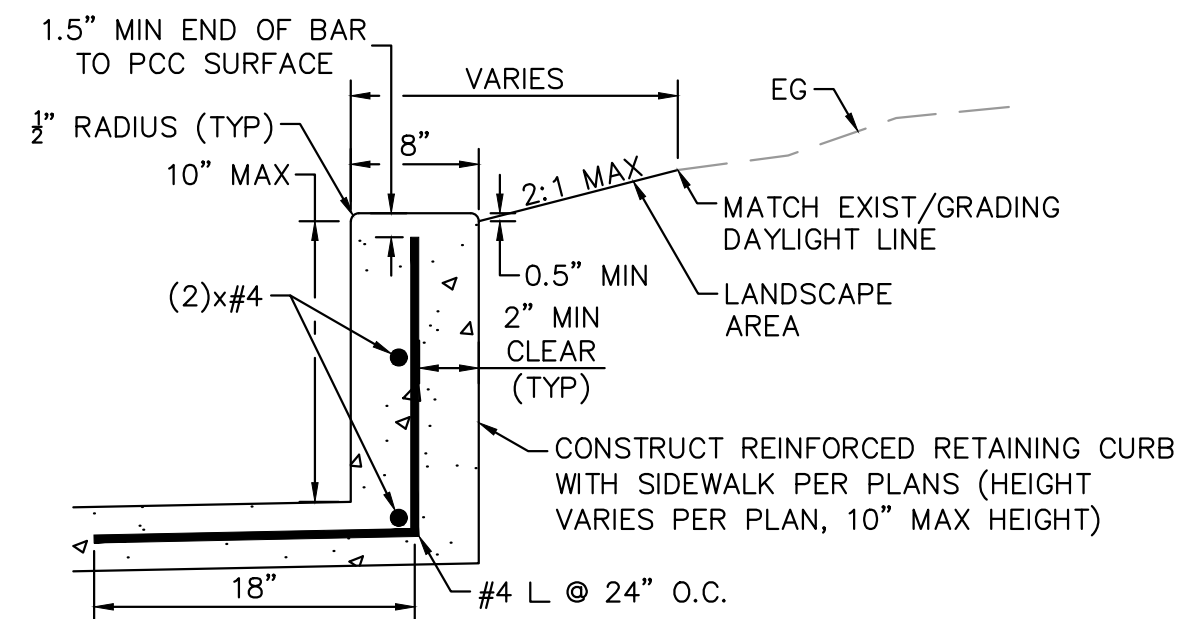
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A ROADWAY SAWCUT AND SLOT PATCH DETAIL
NOT TO SCALE



B GRIND AND OVERLAY DETAIL
NOT TO SCALE

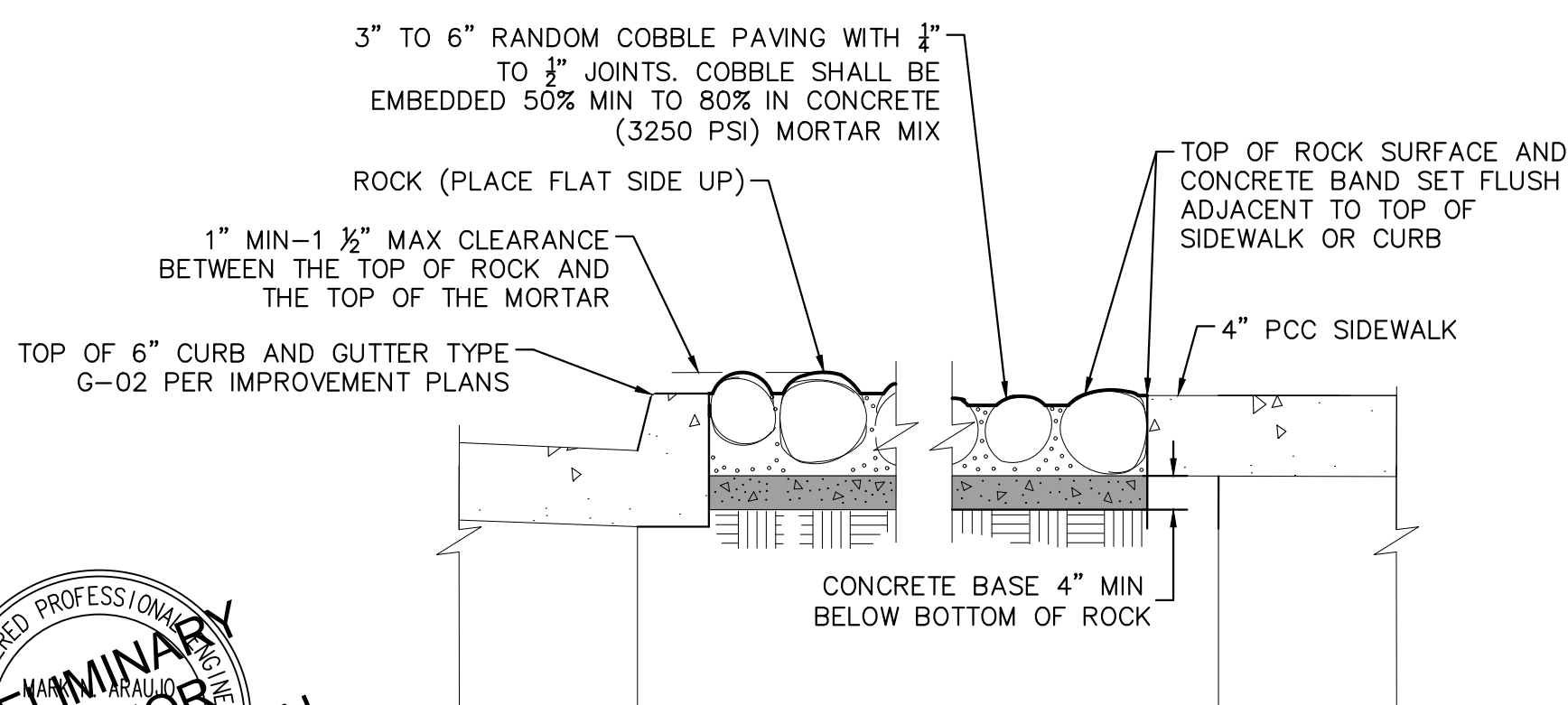


D RETAINING CURB DETAIL
NOT TO SCALE

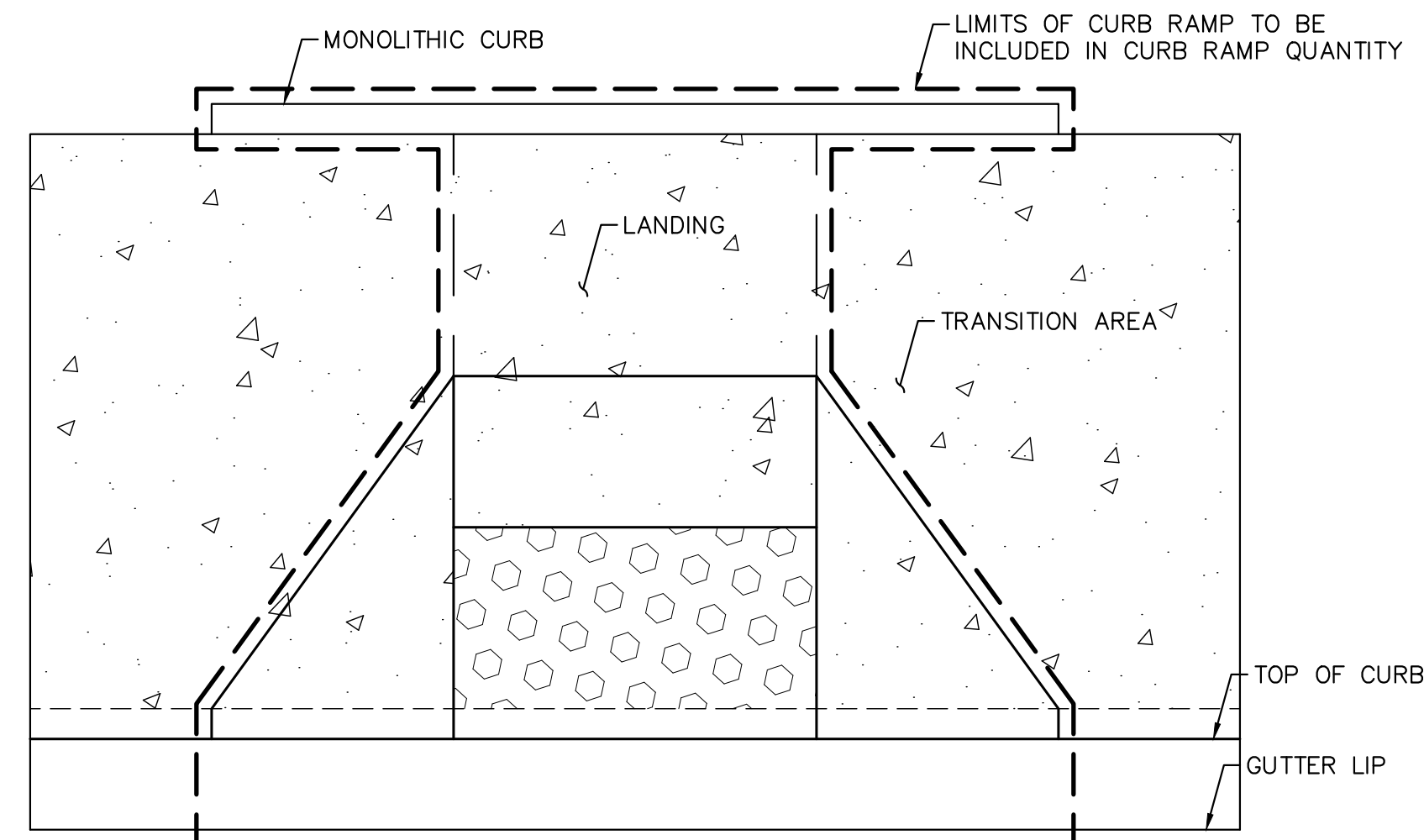
CASE I

CASE II

C COLD IN-PLACE RECYCLING DETAILS
NOT TO SCALE

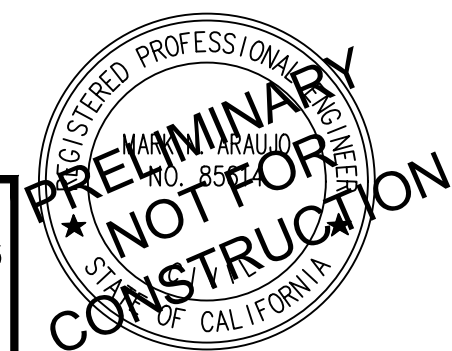


E MORTARED COBBLE DETAIL
NOT TO SCALE



F LIMITS OF CURB RAMP DETAIL
NOT TO SCALE

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VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL

VMD AS-BUILT
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

BENCH MARK
Description: FOUND 2.5\"/>

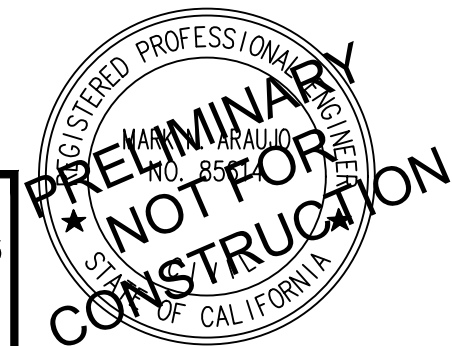
CITY OF SAN MARCOS
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No. **IP23-00018**
Sheet 13 of 27
VMD WO# 284234

Drawing name: K:\SD\JMK\095624139 - Rancho Santa Fe Road\Drawings\Plan Sheets\824139-PWMD1.dwg PWMD1 Apr 16, 2024 1:13:26m by: Henry Reich

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APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM
DATE SIGNED

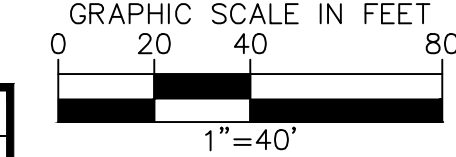
VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____



GENERAL NOTES

1. WORK WITHIN INTERSECTIONS 500 FEET IN EITHER DIRECTION
WILL BE LIMITED TO NIGHT WORK AS AGREED UPON WITH
THE CITY OF SAN MARCOS.

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

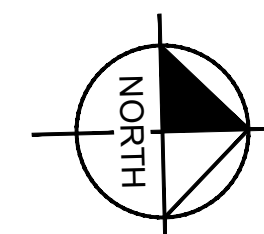
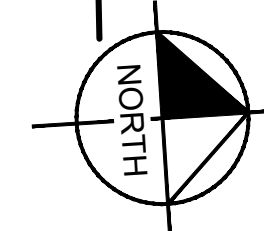
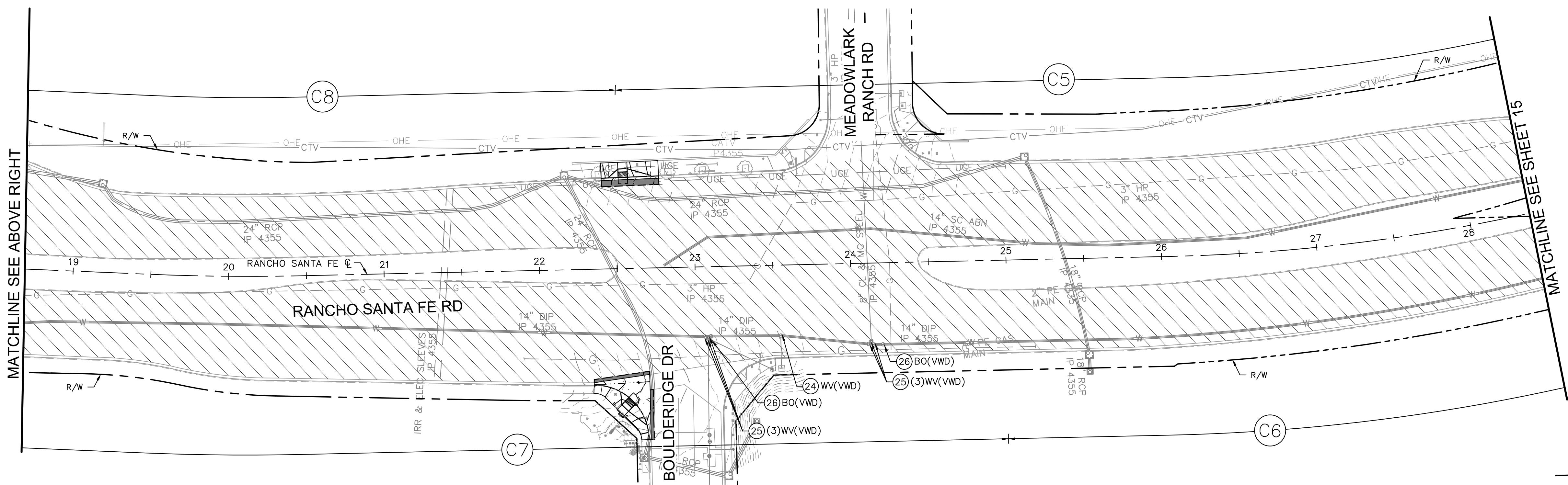
CITY OF SAN MARCOS
PAVEMENT REHABILITATION PLANS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No.
IP23-00018
Sheet 14 of 27
VWD WO# 284234

LEGEND

- COLD IN-PLACE RECYCLING (CASE I) PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- COLD IN-PLACE RECYCLING (CASE II) PER DETAIL C ON SHEET 13
- BORING ID
- PAVEMENT CORE ID

CONSTRUCTION NOTES

- 24 ADJUST TO FINISHED GRADE. FURNISH AND INSTALL LID AND REUSE VALVE BOX FRAME PER VWD STD W-14. FIRE HYDRANTS ONLY.
- 25 ADJUST TO FINISHED GRADE. FURNISH AND INSTALL VALVE BOX FRAME AND LID PER VWD STD W-14 (1280N).
- 26 ADJUST TO FINISHED GRADE. FURNISH AND INSTALL NEW LID AND COVER FOR EXISTING BLOW OFF ASSEMBLY PER VWD STD W-1 (SBF1243).

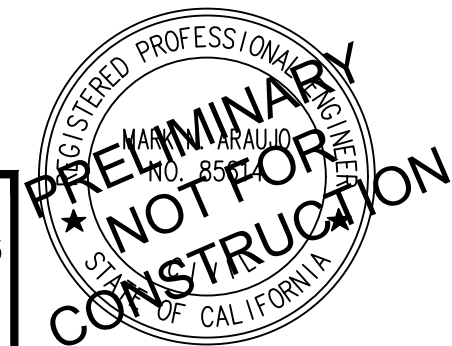


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Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date:
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM
DATE SIGNED

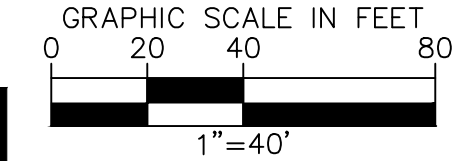
VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL
By: NAME (ENGINEER OF WORK) Date:
R.C.E. NO. exp.: 6/30/20XX



GENERAL NOTES

1. WORK WITHIN INTERSECTIONS 500 FEET IN EITHER DIRECTION
WILL BE LIMITED TO NIGHT WORK AS AGREED UPON WITH
THE CITY OF SAN MARCOS.

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

ENGINEER OF WORK
By: MARK ARAJAO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

CITY OF SAN MARCOS
PAVEMENT REHABILITATION PLANS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No.
IP23-00018
Sheet 16 of 27
VMD WO# 284234

LEGEND

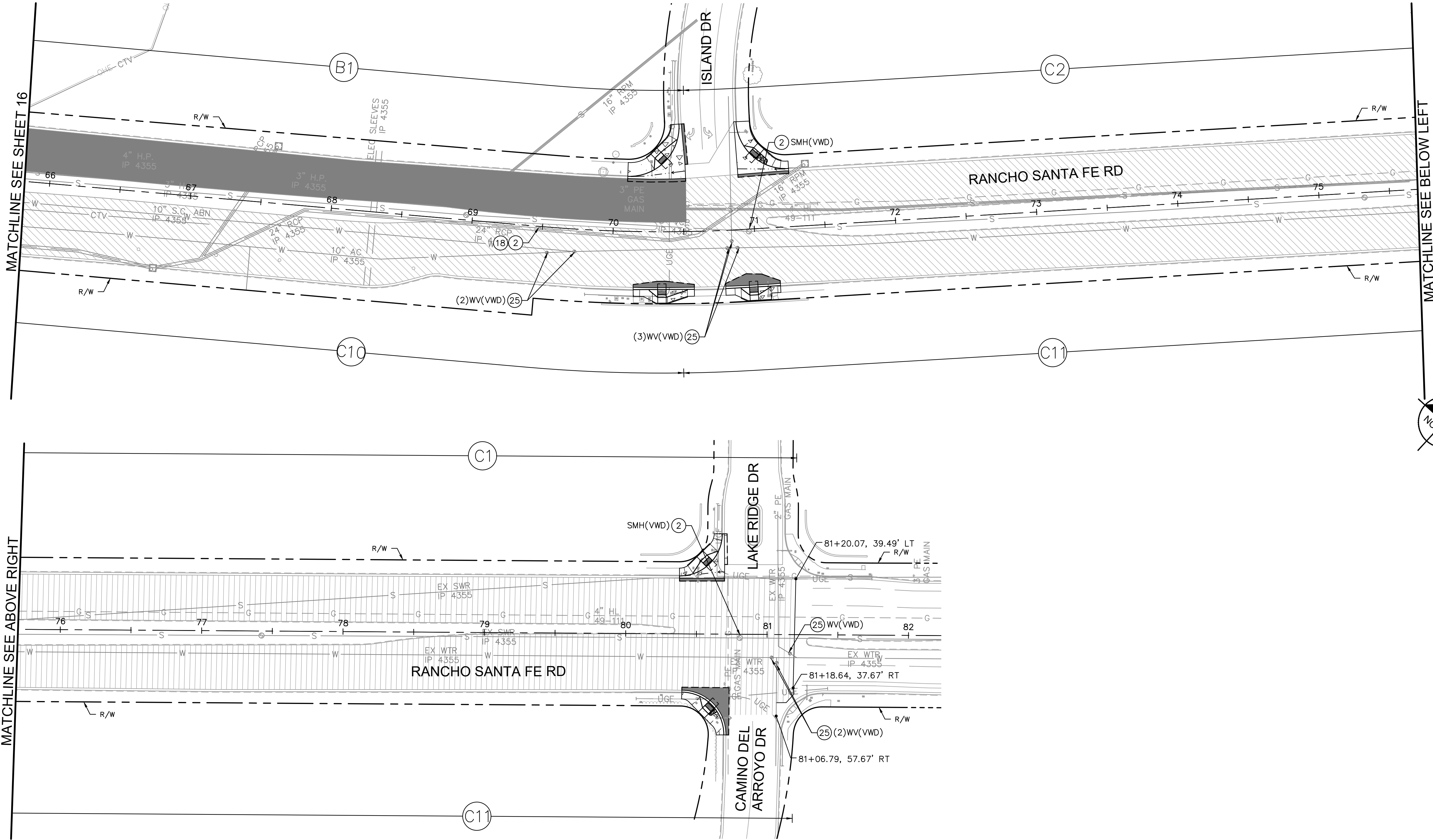
- COLD IN-PLACE RECYCLING (CASE I) PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- COLD IN-PLACE RECYCLING (CASE II) PER DETAIL C ON SHEET 13
- BORING ID
- PAVEMENT CORE ID

CONSTRUCTION NOTES

- 1 PROTECT IN PLACE.
- 2 ADJUST TO FINISHED GRADE.
- 18 EXISTING SURVEY MONUMENT (CORNER, WELL, OR BENCHMARK). REFER TO NOTES ON SHEET 3.
- 25 ADJUST TO FINISHED GRADE. FURNISH AND INSTALL VALVE BOX FRAME AND LID PER VWD STD W-14 (1280N).
- 26 ADJUST TO FINISHED GRADE. FURNISH AND INSTALL NEW LID AND COVER FOR EXISTING BLOW OFF ASSEMBLY PER VWD STD W-1 (SBF1243).

PAVEMENT CORES			
CORE ID	DEPTH OF EXISTING AC PAVEMENT	DEPTH OF EXISTING BASE MATERIAL	REMARKS
B1	4"	6"	• 2 LAYERS OF PAVEMENT • R-VALUE: 63
B2	5"	6"	2 LAYERS OF PAVEMENT
B3	6"	6"	• 2 LAYERS OF PAVEMENT • R-VALUE: 45
B4	5"	6"	2 LAYERS OF PAVEMENT
C1	6.5"	14"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C2	7.5"	4"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C3	4.5"	8"	
C4	5"	8"	2 LAYERS OF PAVEMENT
C5	7"	6"	• 2 LAYERS OF PAVEMENT • BOTTOM LAYER MAY BE CEMENT TREATED BASE
C6	4.5"	8"	• 2 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C7	5"	4"	• 2 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C8	7.5"	6"	• 4 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C9	6"	18"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C10	5"	8"	2 LAYERS OF PAVEMENT
C11	6.5"	6"	4 LAYERS OF PAVEMENT
C12	6.5"	NO BASE	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS

Drawing name: K:\SD\JMW\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-PVMT02.dwg P:\MT04 Apr 16, 2024 11:13am by: Henry.Riech



LEGEND

- COLD IN-PLACE RECYCLING (CASE I) PER DETAIL C ON SHEET 13
- ASPHALT CONCRETE PER DETAIL A ON SHEET 13
- COLD IN-PLACE RECYCLING (CASE II) PER DETAIL C ON SHEET 13
- BORING ID
- PAVEMENT CORE ID

CONSTRUCTION NOTES

- (2) ADJUST TO FINISHED GRADE.
- (18) EXISTING SURVEY MONUMENT (CORNER, WELL, OR BENCHMARK). REFER TO NOTES ON SHEET 3.
- (25) ADJUST TO FINISHED GRADE. FURNISH AND INSTALL VALVE BOX FRAME AND LID PER VWD STD W-14 (1280N).

PAVEMENT CORES

CORE ID	DEPTH OF EXISTING AC PAVEMENT	DEPTH OF EXISTING BASE MATERIAL	REMARKS
B1	4"	6"	• 2 LAYERS OF PAVEMENT • R-VALUE: 63
B2	5"	6"	2 LAYERS OF PAVEMENT
B3	6"	6"	• 2 LAYERS OF PAVEMENT • R-VALUE: 45
B4	5"	6"	2 LAYERS OF PAVEMENT
C1	6.5"	14"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C2	7.5"	4"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C3	4.5"	8"	
C4	5"	8"	2 LAYERS OF PAVEMENT
C5	7"	6"	• 2 LAYERS OF PAVEMENT • BOTTOM LAYER MAY BE CEMENT TREATED BASE
C6	4.5"	8"	• 2 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C7	5"	4"	• 2 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C8	7.5"	6"	• 4 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C9	6"	18"	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS
C10	5"	8"	2 LAYERS OF PAVEMENT
C11	6.5"	6"	4 LAYERS OF PAVEMENT
C12	6.5"	NO BASE	• 3 LAYERS OF PAVEMENT • FABRIC OBSERVED BETWEEN LAYERS

GENERAL NOTES

- WORK WITHIN INTERSECTIONS 500 FEET IN EITHER DIRECTION WILL BE LIMITED TO NIGHT WORK AS AGREED UPON WITH THE CITY OF SAN MARCOS.

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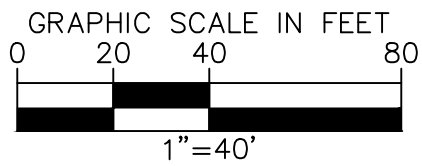


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____

VWD AS-BUILT
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

CITY OF SAN MARCOS
PAVEMENT REHABILITATION PLANS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS

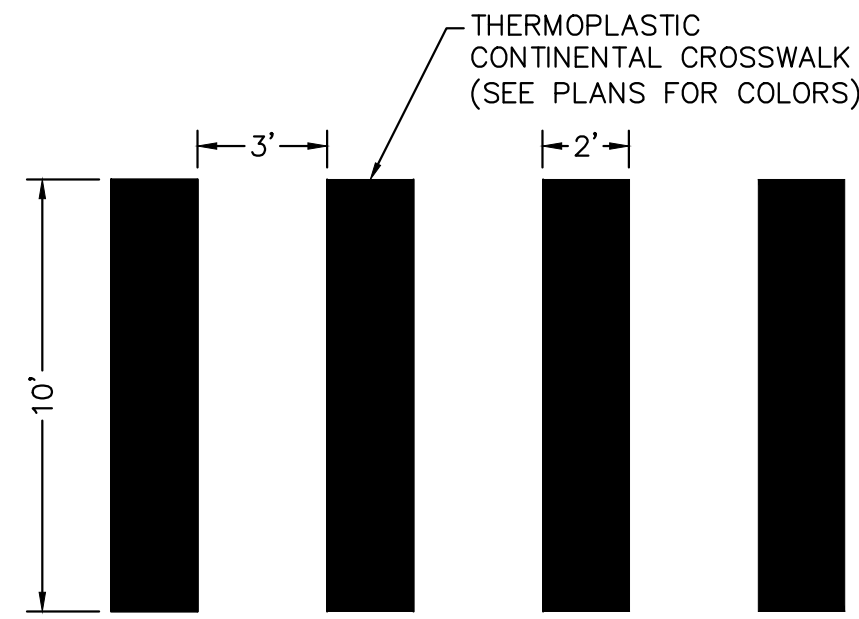
City Drawing No.

IP23-00018

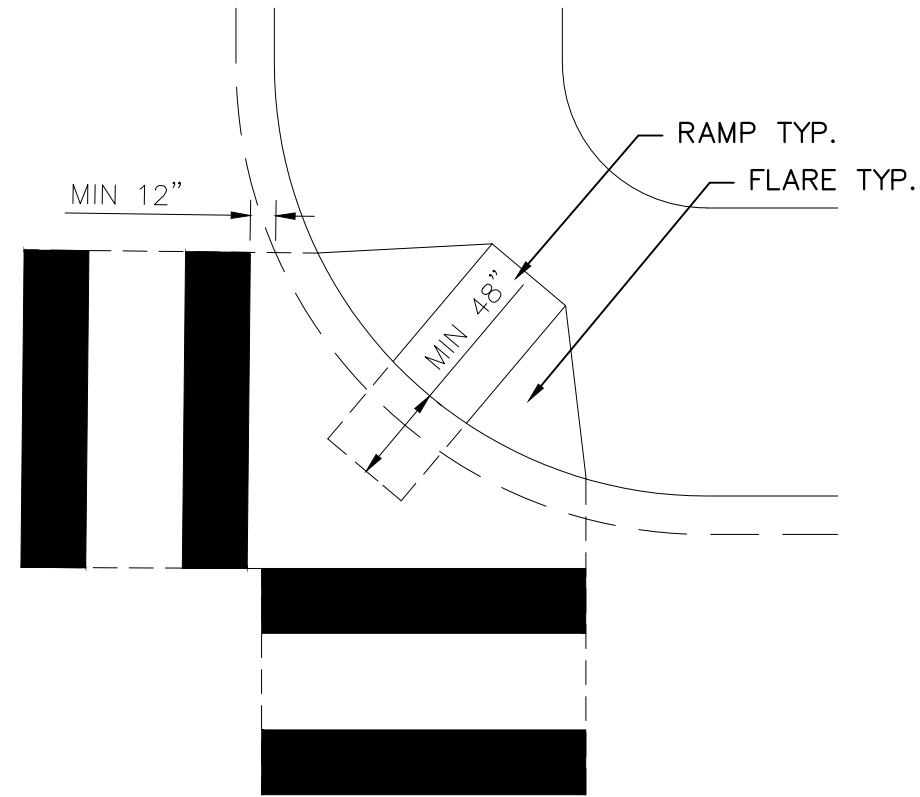
Sheet 17 of 27

VWD WO# 284234

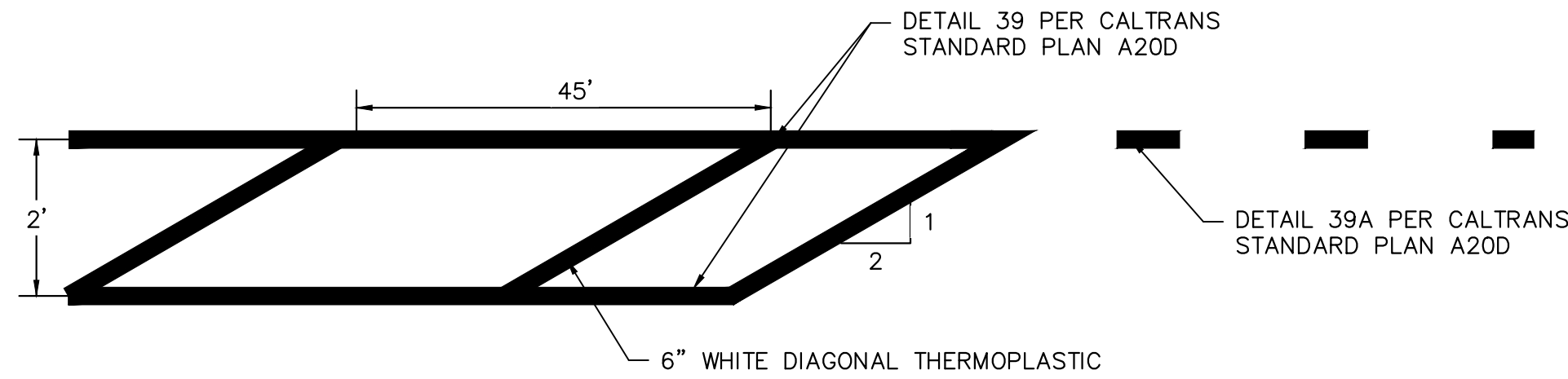
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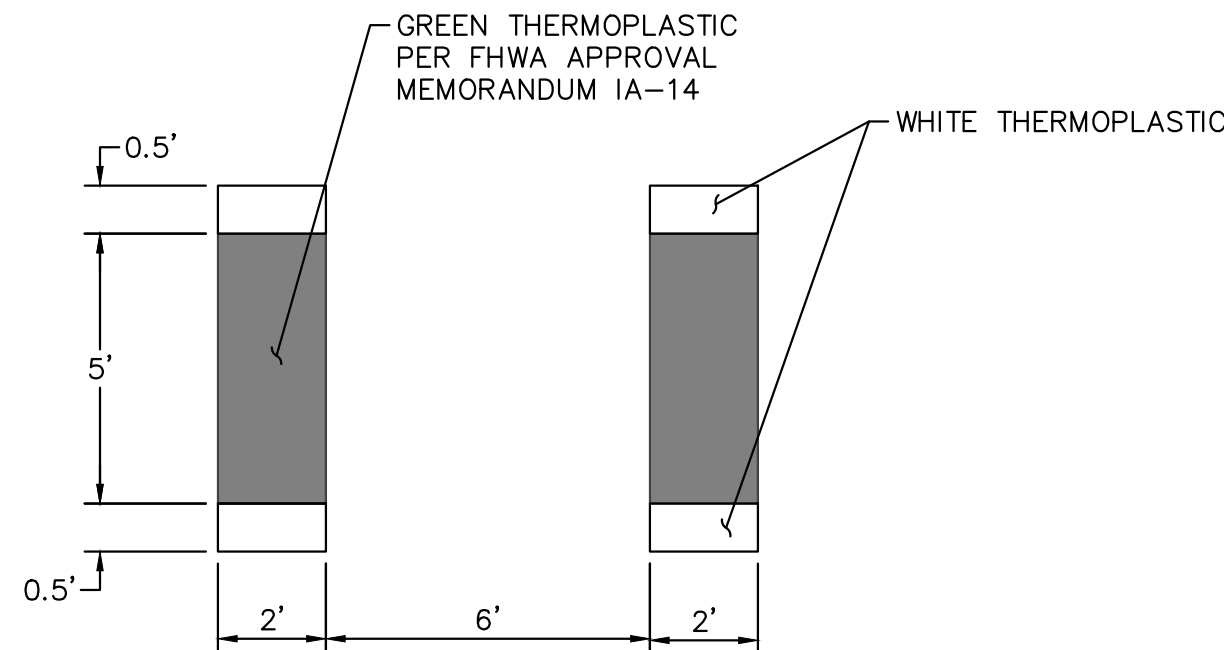
CONTINENTAL CROSSWALK DETAIL
NOT TO SCALE



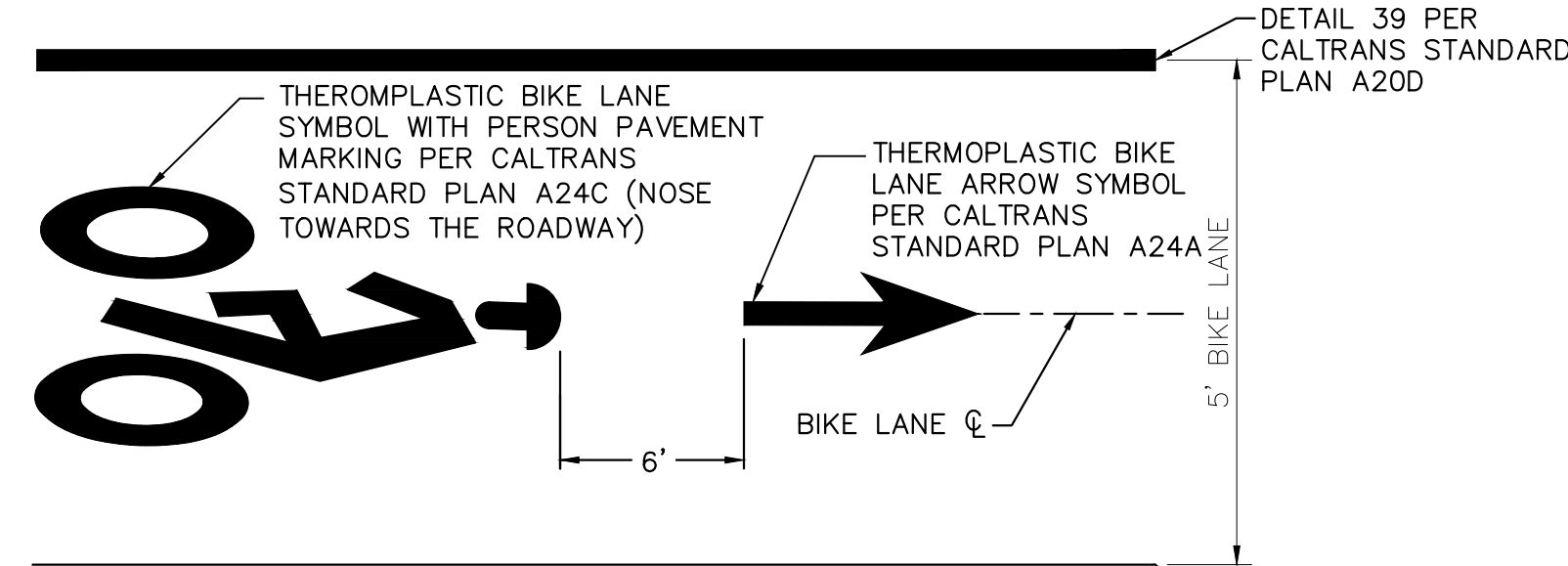
CONTINENTAL CROSSWALK LAYOUT DETAIL
NOT TO SCALE



45 MPH
TYPICAL DIAGONAL BUFFER HATCHING AND END MARKING DETAIL
NOT TO SCALE

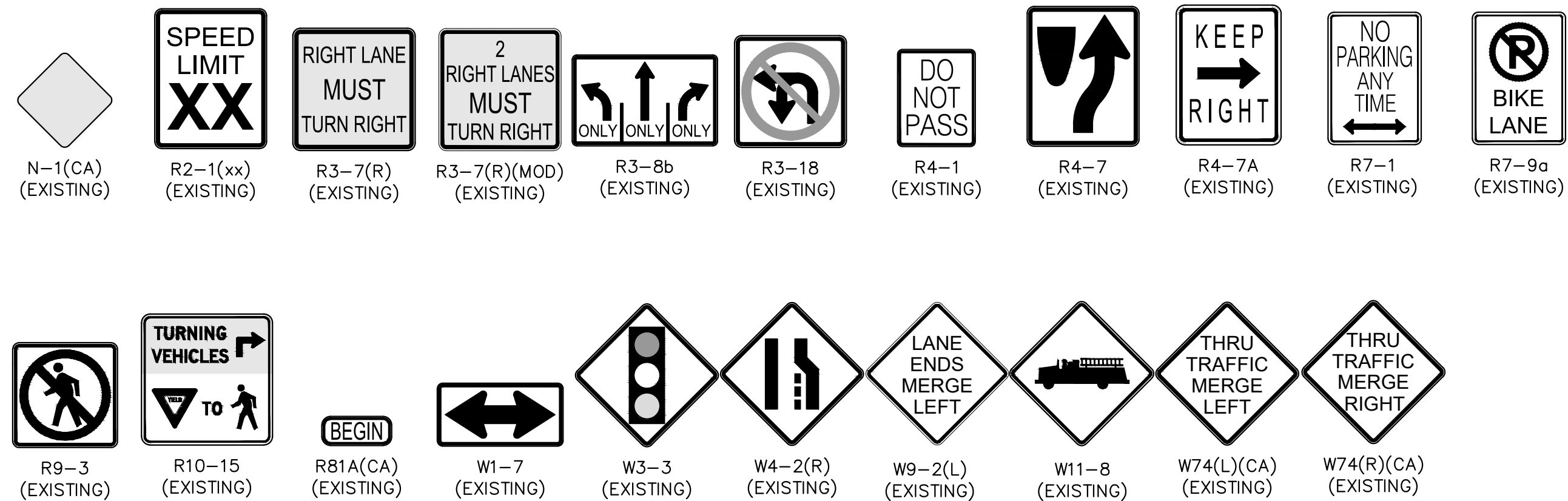


GREEN BIKE LANE CONFLICT
MARKING DETAIL
NOT TO SCALE



THERMOPLASTIC BIKE LANE WITH ARROW
PAVEMENT MARKING DETAIL
NOT TO SCALE

SIGN LEGEND
NOT TO SCALE



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Phone: 619.234.9411 / www.kimley-horn.com



VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT
DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS
PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM
DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL

VWD AS-BUILT
By: _____ NAME (ENGINEER OF WORK) Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

ENGINEER OF WORK
By: MARK ARAUJO
R.C.E.: 85614 exp.: 9/30/24
Date: _____

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE

Engineering Inspector Date

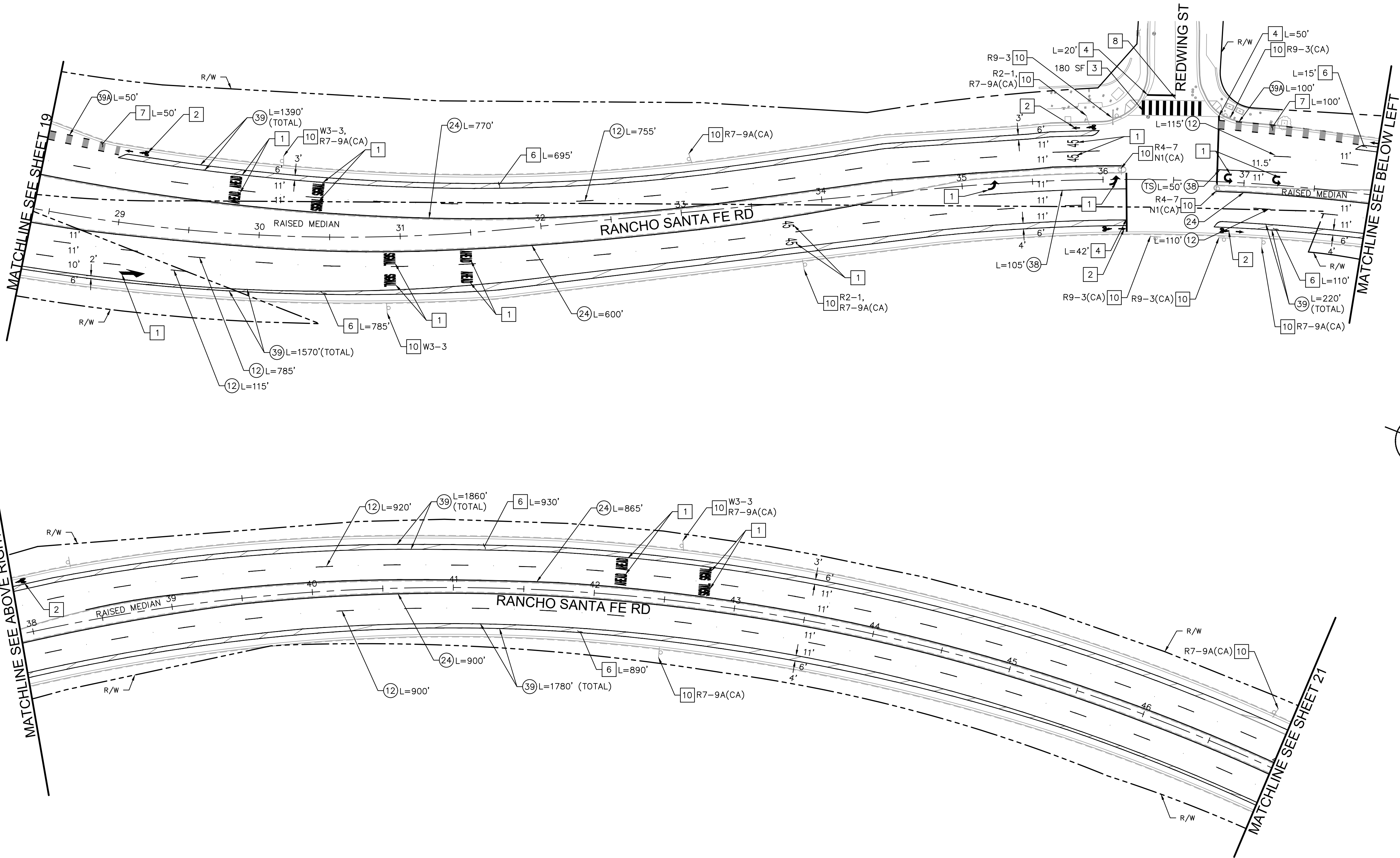
ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: _____ Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

CITY OF SAN MARCOS
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No. **IP23-00018**
Sheet 18 of 27

Drawing name: K:\SD\JMN\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-SM01.dwg SM02 Apr 18, 2024 11:53am By: Henry Reich



LEGEND	
XX'	NEW LANE WIDTH OR LENGTH OF NEW STRIPING
(XX')	EXISTING LANE WIDTH
(X)	STRIPING DETAIL PER LATEST CALTRANS STANDARD PLANS
(TS)	TRAFFIC SIGNAL
	TYPE IV ARROW PER CALTRANS STANDARD PLAN A24A (THERMOPLASTIC)
	TYPE VI ARROW PER CALTRANS STANDARD PLAN A24A (THERMOPLASTIC)
	TYPE IX ARROW PER CALTRANS STANDARD PLAN A24H (THERMOPLASTIC)
	"SIGNAL" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
	"AHEAD" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
	"STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
	BIKE LANE WITH PERSON SYMBOL PAVEMENT MARKING PER SHEET 18
45	NUMERAL PAVEMENT MARKINGS PER CALTRANS STANDARD PLAN A24C (THERMOPLASTIC)

- MARKING NOTES**
- FURNISH AND INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN. SEE LEGEND ON THIS SHEET FOR MATERIAL.
 - FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING PER DETAIL ON SHEET 18.
 - INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER DETAIL ON SHEET 18.
 - INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE/CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E. LIMIT LINE PARALLEL TO CROSSWALK SHALL BE 4' AWAY.
 - FURNISH AND INSTALL DIAGONAL BUFFER HATCHING SPACED AT 45' PER DETAIL ON SHEET 18.
 - FURNISH AND INSTALL GREEN BIKE LANE CONFLICT MARKING PER DETAIL ON SHEET 18.
 - REMOVE CONFLICTING STRIPING OR PAVEMENT MARKING BY SANDBLASTING AND/OR GRINDING.
 - EXISTING SIGN AND POST TO REMAIN.

- STRIPING DETAILS**
- INSTALL LANE LINE PATTERN (DETAIL 12) PER CALTRANS STANDARD PLAN A20A.
 - INSTALL LEFT EDGELINE PATTERN (DETAIL 24) PER CALTRANS STANDARD PLAN A20B.
 - INSTALL WHITE CHANNELIZING LINE PATTERN (DETAIL 38) PER CALTRANS STANDARD PLAN A20D.
 - INSTALL BIKE LANE LINE PATTERN (DETAIL 39) PER CALTRANS STANDARD PLAN A20D.
 - INSTALL INTERSECTION LINE BIKE LANE PATTERN (DETAIL 39A) PER CALTRANS STANDARD PLAN A20D.

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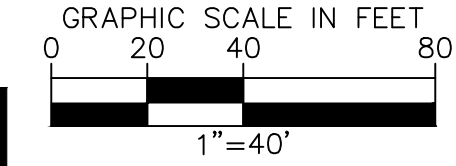


VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

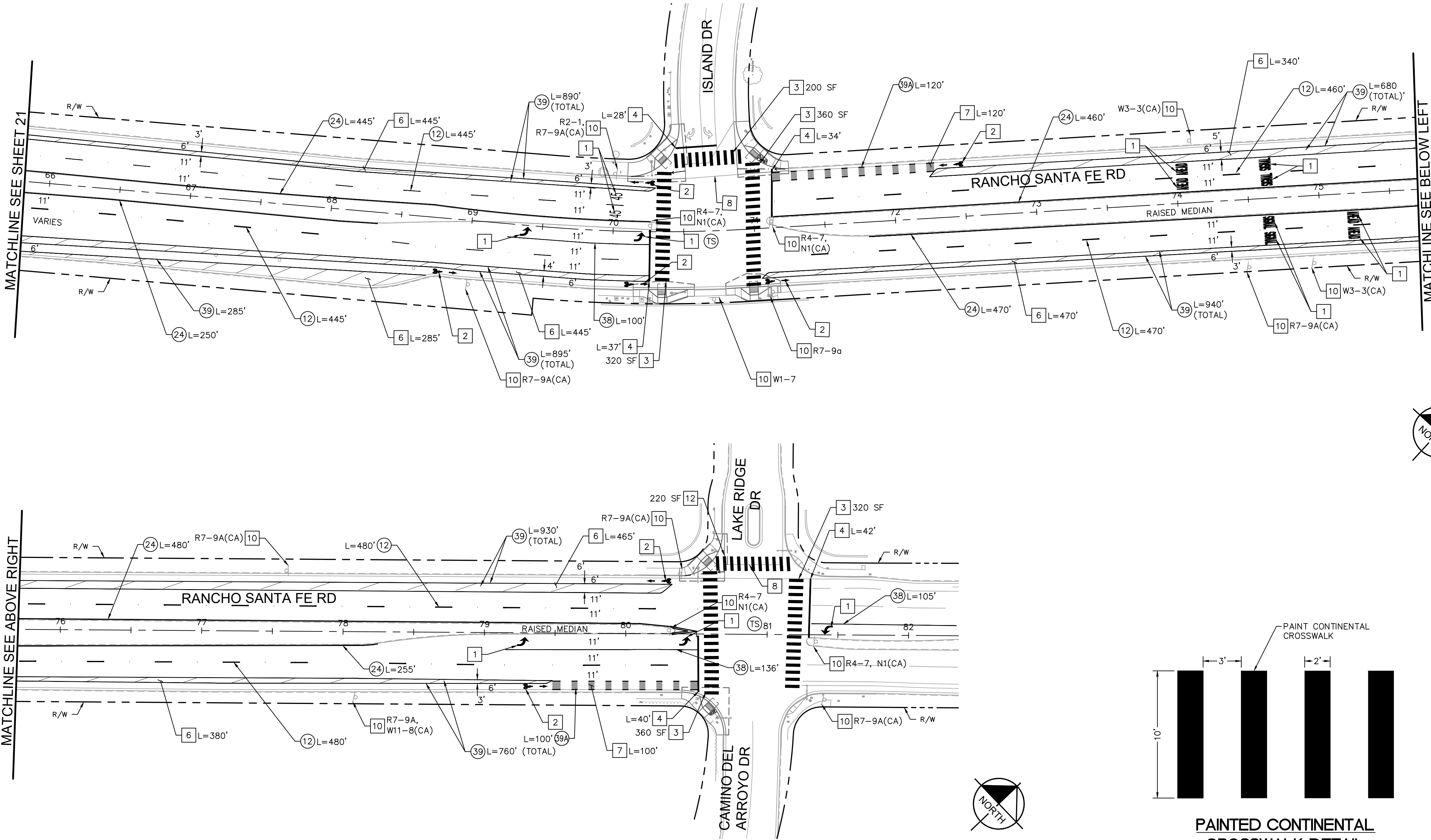
VMD AS-BUILT
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE



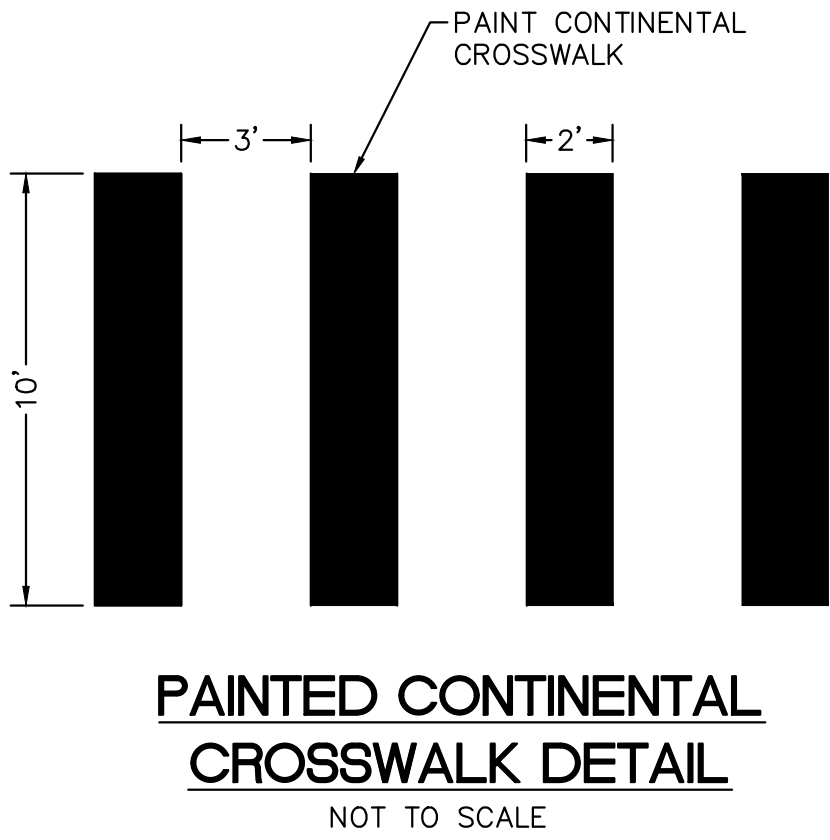
RECOMMENDED FOR APPROVAL By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____	ENGINEER OF WORK By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____	INSPECTED AND RECOMMENDED FOR ACCEPTANCE Engineering Inspector _____ Date: _____	ENGINEER OF WORK AS-BUILT CERTIFICATE FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____
APPROVED FOR CONSTRUCTION By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____	BENCH MARK Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]	CITY OF SAN MARCOS SIGNING AND MARKING PLANS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS	City Drawing No. IP23-00018 Sheet 20 of 27 VMD WO# 284234

Drawing name: K:\SD\JWH\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-SM02.dwg 5M04 Apr 18, 2024 11:35am By: Henry Reich



- LEGEND**
- XX' NEW LANE WIDTH OR LENGTH OF NEW STRIPING
 - (XX') EXISTING LANE WIDTH
 - (X) STRIPING DETAIL PER LATEST CALTRANS STANDARD PLANS
 - (TS) TRAFFIC SIGNAL
 - TYPE IV ARROW PER CALTRANS STANDARD PLAN A24A (THERMOPLASTIC)
 - TYPE VI ARROW PER CALTRANS STANDARD PLAN A24A (THERMOPLASTIC)
 - TYPE IX ARROW PER CALTRANS STANDARD PLAN A24H (THERMOPLASTIC)
 - "SIGNAL" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
 - "AHEAD" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
 - "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24D (THERMOPLASTIC)
 - BIKE LANE WITH PERSON SYMBOL PAVEMENT MARKING PER SHEET 18
 - NUMERAL PAVEMENT MARKINGS PER CALTRANS STANDARD PLAN A24C (THERMOPLASTIC)

- MARKING NOTES**
- FURNISH AND INSTALL PAVEMENT MARKING PER CALTRANS STANDARD PLAN. SEE LEGEND ON THIS SHEET FOR MATERIAL.
 - FURNISH AND INSTALL THERMOPLASTIC PAVEMENT MARKING PER DETAIL ON SHEET 18.
 - INSTALL WHITE THERMOPLASTIC CONTINENTAL CROSSWALK PER DETAIL ON SHEET 18.
 - INSTALL 12" WHITE THERMOPLASTIC LIMIT LINE/CROSSWALK LINE PER CALTRANS STANDARD PLAN A24E. LIMIT LINE PARALLEL TO CROSSWALK SHALL BE 4' AWAY.
 - FURNISH AND INSTALL DIAGONAL BUFFER HATCHING SPACED AT 45' PER DETAIL ON SHEET 18.
 - FURNISH AND INSTALL GREEN BIKE LANE CONFLICT MARKING PER DETAIL ON SHEET 18.
 - REMOVE CONFLICTING STRIPING OR PAVEMENT MARKING BY SANDBLASTING AND/OR GRINDING.
 - EXISTING SIGN AND POST TO REMAIN.
 - INSTALL PAINTED WHITE CONTINENTAL CROSSWALK PER DETAIL ON THIS SHEET.



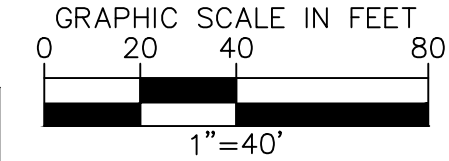
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Phone: 619.234.9411 / www.kimley-horn.com



VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL
Date: _____
By: NAME (ENGINEER OF WORK)
R.C.E. NO. exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

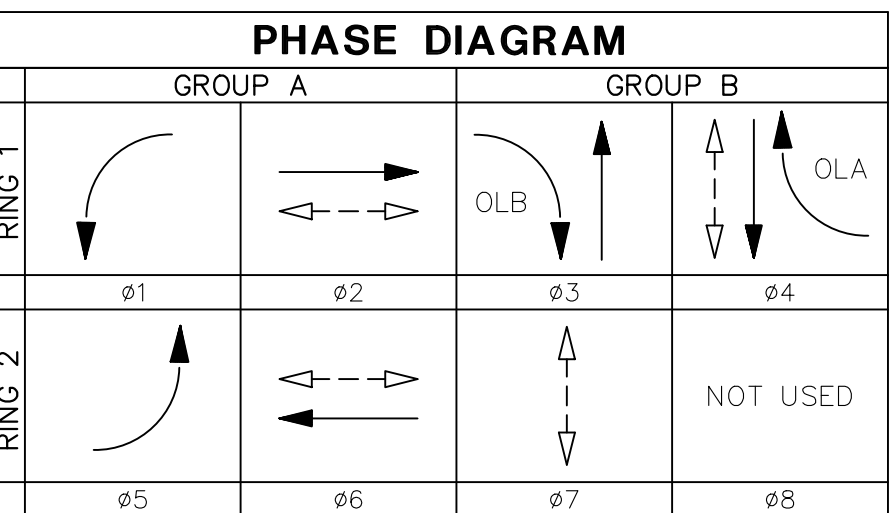
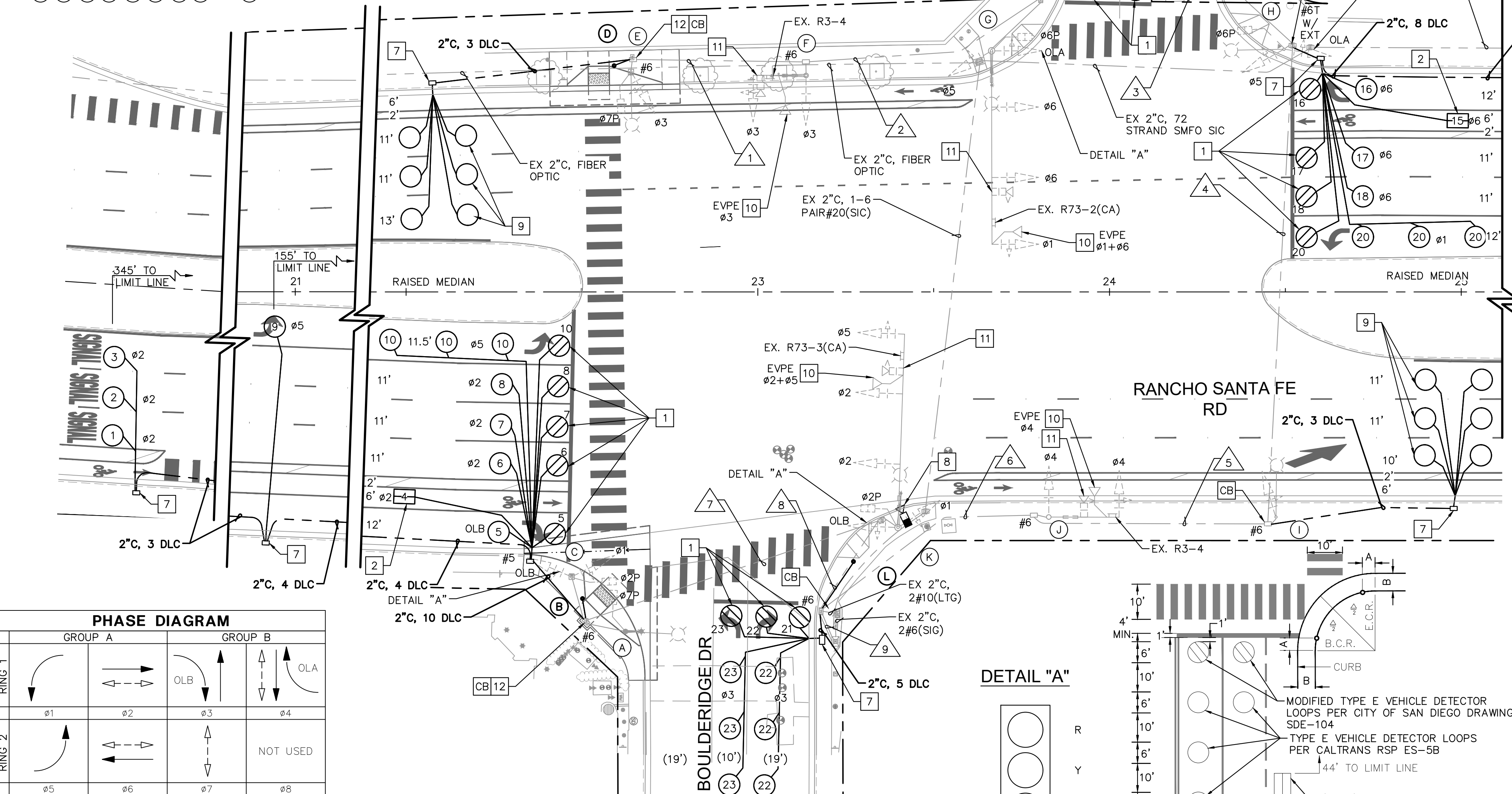


RECOMMENDED FOR APPROVAL By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date: _____		ENGINEER OF WORK By: MARK ARAUJO R.C.E.: 85614 exp.: 9/30/24 Date: _____		INSPECTED AND RECOMMENDED FOR ACCEPTANCE Engineering Inspector _____ Date _____		ENGINEER OF WORK AS-BUILT CERTIFICATE FIRST LAST NAME RCE 12345 EXP. 6/30/XX DATE: _____		
APPROVED FOR CONSTRUCTION By: Isaac Etchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date: _____		BENCH MARK Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location: _____ Record From: Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]		CITY OF SAN MARCOS SIGNING AND MARKING PLANS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS				City Drawing No. IP23-00018 Sheet 22 of 27 VMD WO# 284234

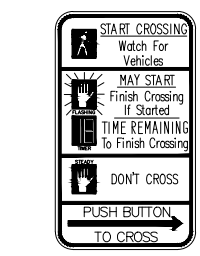
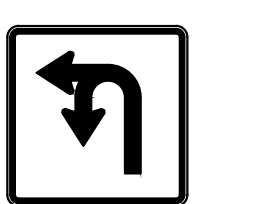
POLE SCHEDULE													
NO.	TYPE	STANDARD			LUMINAIRE	PLACEMENT		VEH SIGNAL	MTG	PED SIGNAL	PEDESTRIAN	STREET NAME SIGN	REMARKS
		HGT	SIG. M.A.	F. DIST.		A	B						
A	TYPE 15	30'	-	-	15'	180W	EX. EX.	-	-	SP-1-T	-	-	3
B	PPBA	4'7"	-	-	-	17'	12'	-	-	-	-	-	5 5
C	1-A	10'	-	-	-	EX.	EX.	-	-	TV-2-T	SP-1-T	-	3
D	PPBA	4'7"	-	-	-	17'	12'	-	-	-	-	-	5
E	TYPE 15	30'	-	-	15'	180W	EX. EX.	-	-	SV-1-T	SP-1-T	-	3
F	18-3-80	17'	15'	-	-	EX.	EX.	1-MAS	SV-1-T	-	-	-	-
G	29-5-80	30'	55'	-	15'	180W	EX. EX.	3-MAS	SV-2-T	SP-1-T	Ø6 7	-	-
H	TYPE 15	30'	15'	-	15'	180W	EX. EX.	-	SV-2-T	SP-1-T	Ø6 7	-	-
I	TYPE 15	30'	15'	-	15'	180W	EX. EX.	-	SV-1-T	-	-	-	-
J	18-3-80	17'	-	-	-	EX.	EX.	1-MAS	SV-1-T	-	-	-	-
K	29-5-80	30'	15'	-	15'	180W	EX. EX.	3-MAS	SV-2-T	SP-1-T	-	-	3
L	PPBA	4'7"	-	-	-	17.5'	10.5'	-	-	-	Ø2 7	-	5

BOLD INDICATES NEW EQUIPMENT.

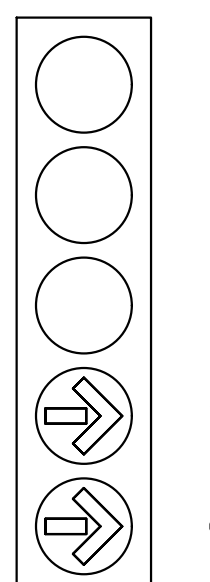
POLES (A), (C), (E), (F), (G), (H), (I), (J), AND (K) AND ALL ATTACHED EQUIPMENT ARE EXISTING AND SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.



SIGN LEGEND



DETAIL "A"



LOOP PLACEMENT DETAIL

NOT TO SCALE

PER PLAN

TYPE E VEHICLE DETECTOR LOOPS PER CALTRANS RSP ES-5B

4' x 6' TYPE Q BIKE DETECTOR LOOP PER CALTRANS RSP ES-5B

MODIFIED TYPE E VEHICLE DETECTOR LOOPS PER CITY OF SAN DIEGO DRAWING SDE-104

TYPE E VEHICLE DETECTOR LOOPS PER CALTRANS RSP ES-5B

44' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

14' TO LIMIT LINE

CONDUCTOR TABLE															
AWG SIZE OR CABLE TYPE	P H A S E	LOA	POLE OR CIRCUIT	CONDUIT SIZE & RUN											
				EX 3"	EX 3"	EX 3"	EX 3"	EX 4"	EX 4"	EX 4"	EX 4"	EX 4"	EX 4"		
3	CONDUCTORS	12	POLE - A	-	-	-	-	-	-	-	-	-	-	-	
			POLE - B	-	-	-	-	-	-	-	-	-	-	-	
			POLE - C	-	-	-	-	-	-	-	-	-	-	-	
			POLE - D	1	1	1	1	1	1	1	1	1	1	1	
			POLE - E	-	-	-	-	-	-	-	-	-	-	-	
			POLE - F	-	-	-	-	-	-	-	-	-	-	-	
			POLE - G	-	-	-	-	-	-	-	-	-	-	-	
			POLE - H	-	-	-	-	-	-	-	-	-	-	-	
			POLE - I	-	-	-	-	-	-	-	-	-	-	-	
			POLE - J	-	-	-	-	-	-	-	-	-	-	-	
			POLE - K	-	-	-	-	-	-	-	-	-	-	-	
			POLE - L	-	-	-	-	-	-	-	-	-	-	-	
TOTAL CABLES 3 CONDUCTOR/12 CONDUCTOR				1	1	2	3	4	5	6	2	2	3	6	9
NO 8		SAFETY LIGHTING		2	2	2	2	2	2	2	2	2	2	2	2
NO 8		GROUND		1	1	1	1	1	1	1	1	1	1	1	1
NO 6		120V SERVICE		-	-	-	-	-	-	-	-	-	-	-	-
NO 10		VIDEO SERVICE		-	-	-	-	-	-	-	-	-	-	-	-
TYPE "B" DLC	1	LOOP DETECTOR		-	-	-	-	2	2	2	-	-	-	2	-
	2	"	"	-	-	-	-	-	-	-	8	8	8	-	-
	3	"	"	-	-	-	-	-	-	-	-	-	-	3	-
	4	"	"	-	-	-	2	2	2	2	-	-	-	2	-
	5	"	"	-	-	-	-	-	-	-	2	2	2	-	-
	6	"	"	-	-	-	-	6	6	6	-	-	-	-	6
	7	"	"	-	-	-	-	-	-	-	-	-	-	-	-
	8	"	"	-	-	-	-	-	-	-	-	-	-	-	-
		SPEED & COUNT LOOP		3	3	3	3	3	6	6	-	-	-	-	6
TOTAL DLC				3	3	5	13	16	16	10	10	10	29	-	
VIDEO DETECTION COAXIAL AND 3#14 CABLES				-	-	-	-	-	-	-	-	-	-	-	
CCTV CAMERA POWER CABLE				-	-	-	-	-	-	-	-	-	1	1	
EMERGENCY VEHICLE DETECTOR				-	1	2	2	2	3	-	-	4	4	-	
PERCENT FILL				12%	17%	27%	23%	28%	27%	25%	35%	25%	25%	-	
BOLD INDICATES NEW EQUIPMENT. INSTALL ALL NEW WIRE/CABLE AS INDICATED.															

BOLD INDICATES NEW EQUIPMENT. INSTALL ALL NEW WIRE/CABLE AS INDICATED.

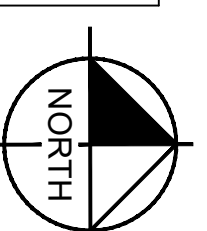
DETECTOR ASSIGNMENT				
DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	2	12U	T2-5&6	
2	2	12L	T2-7&8	
3	2	13U	T2-9&10	
4	2	13L	T2-11&12	
5	2	14U	T4-1&2	
6	2	14L	T4-3&4	
7	2	18U	T7-5&6	
8	2	18L	T7-7&8	
9	5	11U	T3-1&2	
10	5	11L	T3-3&4	
11	4	18U	T6-5&6	
12	4	18L	T6-7&8	
13	6	12U	T3-7&8	
14	6	12L	T3-9&10	
15	6	13U	T3-11&12	
16	6	13L	T3-1&2	
17	6	14U	T5-1&2	
18	6	14L	T5-3&4	
19	1	11U	T2-1&2	
20	1	11L	T2-1&2	
21	3	19L	T6-11&12	
22	3	17U	T7-1&2	
23	3	17L	T7-3&4	
PPB	2	112U	T8-4 & COM 6	
PPB	7	112L	T8-5 & COM 6	
PPB	6	113U	T8-7 & COM 9	
EVA	2+5	112U	T9-4 & COM 6	
EVB	4	113U	T9-7 & COM 9	
EVC	1+6	112L	T9-5 & COM 6	
EVC	3	113L	T9-8 & COM 9	
FLASH SENSE	114U	T8-10 & COM 12		

BOLD INDICATES NEW EQUIPMENT.

GRAPHIC SCALE IN FEET

0 10 20 40

1"=20'



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Kimley-Horn and Associates, Inc. 02/23
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

VALLECITOS WATER DISTRICT

APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE

Date:

JASON P. HUBBARD, P.E.
DISTRICT ENGINEER

60317 exp.: 6/30/2024

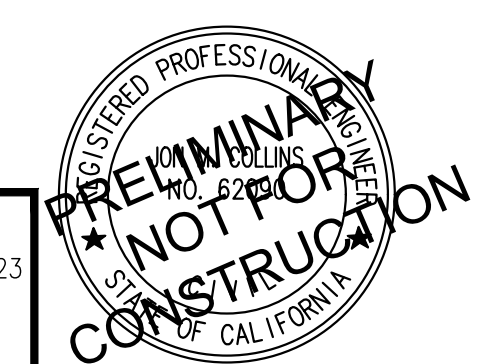
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT

PRESSURE ZONE: 815 HGL

By: NAME (ENGINEER OF WORK) Date:

R.C.E. NO. exp.: 6/30/20XX



CITY APPROVED CHANGES

Δ NO. DESCRIPTION AFFECTED SHEETS EOW APP'D APP'D BY DATE

RECOMMENDED FOR APPROVAL

By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER

R.C.E.: 85528 exp.: 9/30/2024

Date:

ENGINEER OF WORK

By: JON COLLINS

R.C.E.: 62090 exp.: 9/30/25

Date:

INSPECTED AND RECOMMENDED FOR ACCEPTANCE

Engineering Inspector Date

ENGINEER OF WORK AS-BUILT CERTIFICATE

FIRST LAST NAME RCE 12345 EXP. 6/30/XX

Date:

Drawing name: K:\SD\JMW\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-TS02.dwg TS02 Apr 18, 2024 11:36am by: Henry Reich

POLE SCHEDULE														
STANDARD					LUMINAIRE	PLACEMENT		VEH SIGNAL	MTG	PED SIGNAL	PEDESTRIAN	STREET NAME SIGN		REMARKS
NO.	TYPE	HGT	SIG. M.A.	F DIST.	LUM. M.A.	LED	A	B	MAST ARM	POLE	MOUNTING	Ø	QUAD	
A	TYPE 15	30'	—	—	15'	180W	EX.	EX.	—	SV-1-T	SP-1-T	—	—	3
B	29-5-80	30'	40'	—	15'	180W	EX.	EX.	2-MAS	SV-2-T	—	—	—	Redwing Street
C	19-4-80	30'	20'	—	15'	180W	EX.	EX.	1-MAS-4B	SV-2-T	—	—	—	Rancho Santa Fe Rd
D	29-5-80	30'	45'	—	15'	180W	EX.	EX.	2-MAS	SV-1-T	SP-1-T	Ø6	3	Redwing Street
E	PPBA	4'7"	—	—	—	—	17.7'	11.1'	—	—	—	Ø6	3	5

BOLD INDICATES NEW EQUIPMENT.

POLES (A), (B), (C), AND (D) AND ALL ATTACHED EQUIPMENT ARE EXISTING AND SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.

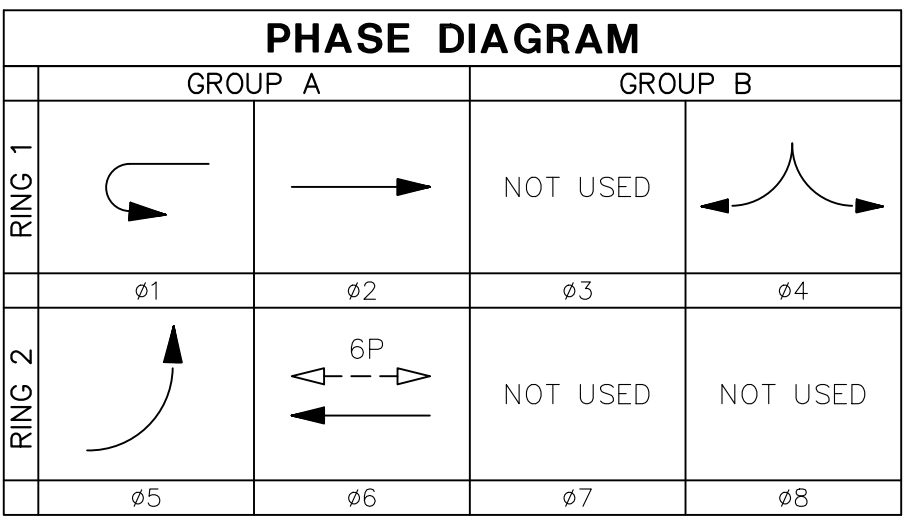
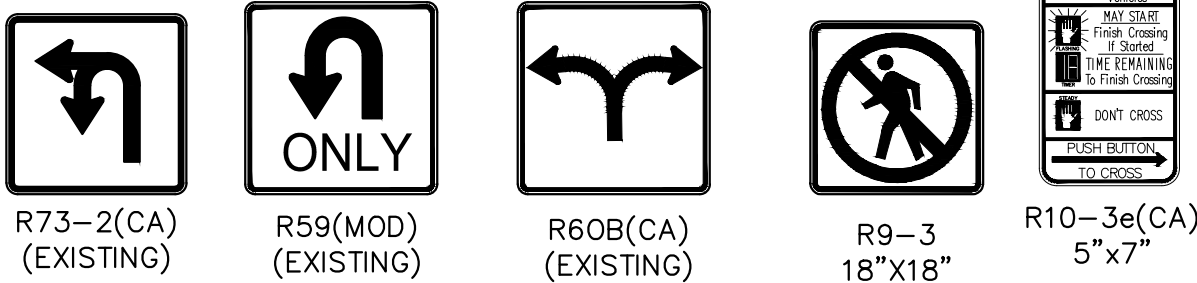
CONDUCTOR TABLE										
AWG SIZE OR CABLE TYPE		PHASE	POLE OR CIRCUIT	CONDUIT SIZE & RUN						
				EX 2-3"	EX 3"	EX 3"	EX 3"	EX 3"		
				1	2	3	4			
CONDUCTOR	3	CONDUCTORS	POLE - A	-	1	-	-	-		
			POLE - B	-	1	-	-	-		
			POLE - C	-	1	-	-	-		
			POLE - D	1	-	-	1	-		
			POLE - E	1	1	-	-	-		
	12			-	-	-	-	-		
				-	-	-	-	-		
				-	-	-	-	-		
				-	-	-	-	-		
				-	-	-	-	-		
TOTAL CABLES		3 CONDUCTOR/12 CONDUCTOR		2	4	1	1	2	1	
NO 10		SAFETY LIGHTING		-	2	2	2	2		
NO 10		GROUND		2	1	1	1	1		
NO 6		120V SERVICE		-	-	-	-	-		
TYPE "B" DLC	1	LOOP DETECTOR		1	1	-	-	-		
	2	"	"	5	-	5	-	-		
	3	"	"	-	-	-	-	-		
	4	"	"	2	-	-	-	-		
	5	"	"	2	-	2	-	-		
	6	"	"	4	4	-	-	-		
	7	"	"	-	-	-	-	-		
	8	"	"	-	-	-	-	-		
		SPEED & COUNTS LOOP		4	-	2	2	-		
		TOTAL DLC		18	5	9	2	-		
		VIDEO CAMERA POWER AND COAXIAL CABLE		-	-	-	-	-		
		EMERGENCY VEHICLE DETECTOR		3	-	2	1	-		
		PERCENT FILL		22%	13%	22%	9%	-		

BOLD INDICATES NEW EQUIPMENT. INSTALL ALL NEW WIRE/CABLE AS INDICATED.

DETECTOR ASSIGNMENT			
DETECTOR	PHASE	SLOT	FIELD TERMINAL
1	2	I2U	T2-5&6
2	2	I2L	T2-7&8
3	2	I3U	T2-9&10
4	2	I3L	T2-11&12
5	2	I4U	T4-1&2
6	5	J1U	T3-1&2
7	5	J1L	T3-3&4
8	4	I6U	T4-9&10
9	4	I8U	T6-5&6
10	4	I8L	T6-7&8
11	6	J2U	T3-5&6
12	6	J2L	T3-7&8
13	6	J3U	T3-9&10
14	6	J3L	T3-11&12
15	6	J4U	T5-1&2
16	1	I1U	T2-1&2
PPB	6	I13U	T8-7 & COM 9
EVP	2+5	I12U	T9-4 & COM 6
EVP	4	J13U	T9-7 & COM 9
EVP	6	J12L	T9-5 & COM 6
FLASH SENSE	11&14	T8-10 & COM 9	

BOLD INDICATES NEW EQUIPMENT.

SIGN LEGEND

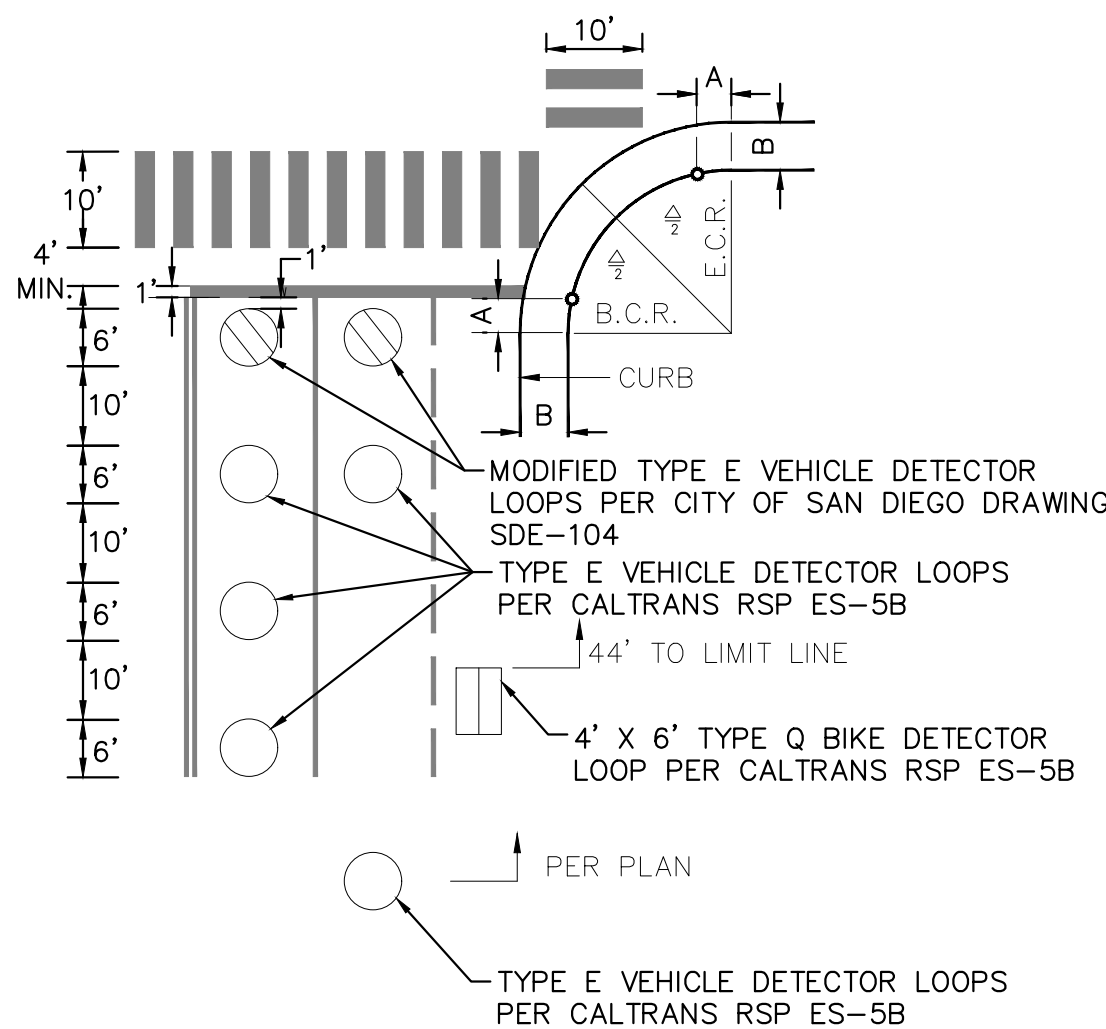


TRAFFIC SIGNAL CONSTRUCTION NOTES

- FURNISH AND INSTALL 6" DIAMETER TYPE E VEHICLE DETECTOR LOOP PER CALTRANS RSP ES-5B. LIMIT LINE LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER CITY OF SAN DIEGO DRAWING SDE-104. SEE DETAIL ON THIS SHEET.
- FURNISH AND INSTALL 4' X 6' TYPE Q BIKE DETECTOR LOOP CENTERED IN BIKE LANE PER CALTRANS RSP ES-5B. SEE DETAIL ON THIS SHEET.
- REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON(S). FILL/WELD ANY HOLES LEFT IN STANDARD WITH CENTRAL GALVANIZED STEEL FASTENER, IF NECESSARY.
- FURNISH AND INSTALL NEW POLARIS 2-WIRE AUDIBLE ADA TYPE PEDESTRIAN PUSH BUTTON(S) WITH R10-3e(CA) SIGN.
- FURNISH AND INSTALL TYPE 5 PULLBOX. CONTRACTOR TO CONNECT TO EXISTING PULLBOX WITH CONDUIT SIZE AS INDICATED BY PLANS AND TO REPLACE IMPACTED SIDEWALK PANELS FROM END TO END.
- FURNISH AND INSTALL 6" DIAMETER TYPE E VEHICLE DETECTOR LOOP PER CALTRANS RSP ES-5B. LOOPS SHALL BE USED FOR SPEED AND VEHICLE COUNTS.
- PROTECT IN PLACE EVPE.
- CONTRACTOR TO REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA.
- INSTALL CONDUIT INTO EXISTING PULL BOX.

LEGEND

- (XX') EXISTING LANE WIDTH
XX' PROPOSED LANE WIDTH
SNS STREET NAME SIGN
○ EXISTING DETECTOR LOOP
○ PROPOSED TYPE E DETECTOR LOOP
⊗ PROPOSED TYPE E MODIFIED DETECTOR LOOP
≡ PROPOSED TYPE Q BICYCLE DETECTOR LOOP
▨ VIDEO DETECTION ZONE



LOOP PLACEMENT DETAIL

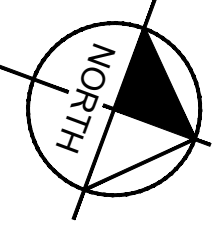
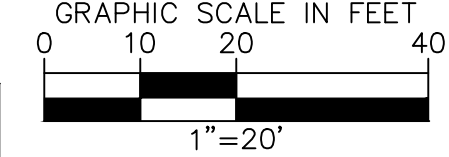
NOT TO SCALE

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401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com



VALLEJCITOS WATER DISTRICT	APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE.
Date:	
JASON P. HUBBARD, P.E. DISTRICT ENGINEER	60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED	
VALLEJCITOS WATER DISTRICT	VMD AS-BUILT
PRESSURE ZONE: 815 HGL	By: NAME (ENGINEER OF WORK) Date:
	R.C.E. NO. exp.: 6/30/20XX

CITY APPROVED CHANGES					
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY	DATE

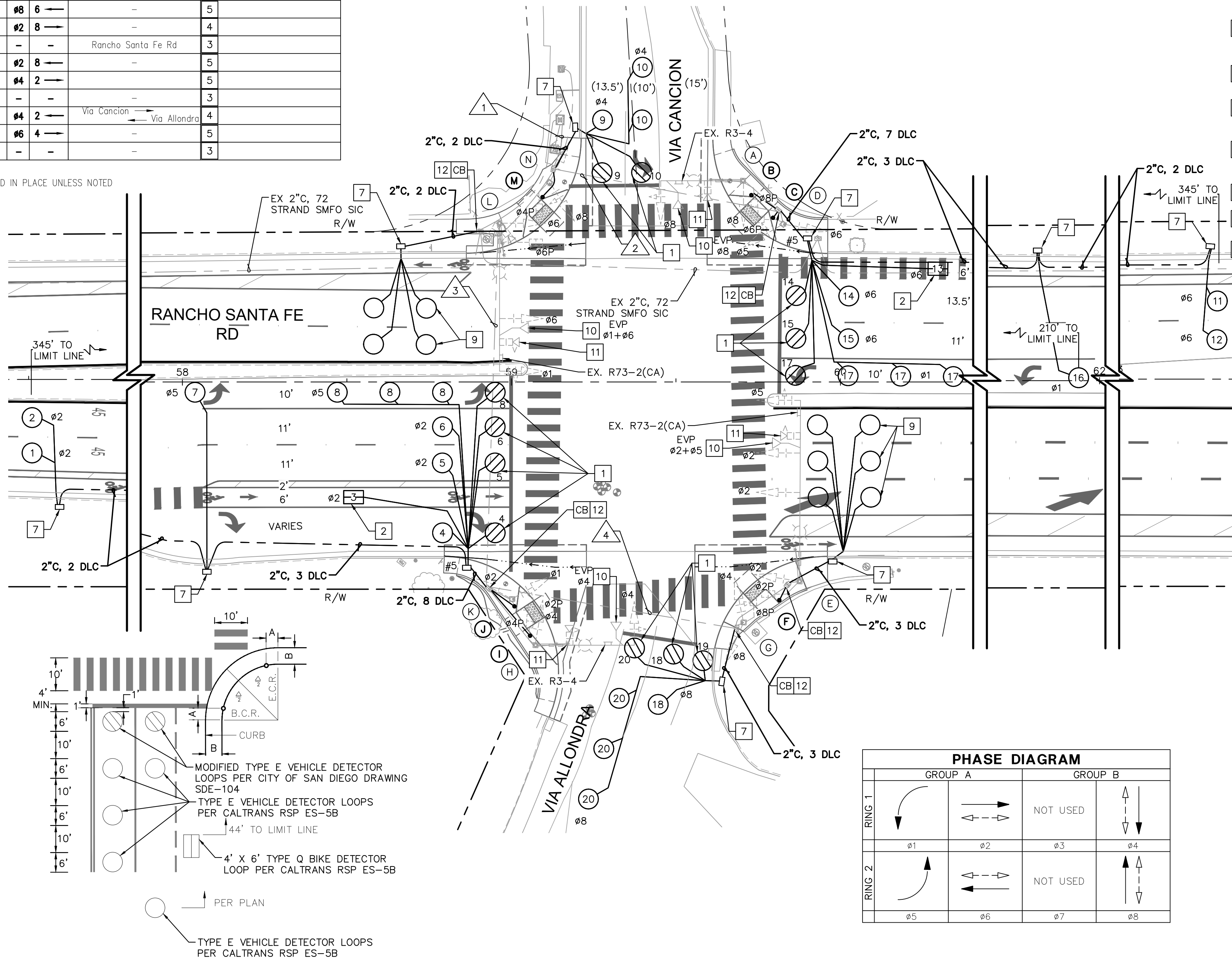


RECOMMENDED FOR APPROVAL	ENGINEER OF WORK	INSPECTED AND RECOMMENDED FOR ACCEPTANCE	ENGINEER OF WORK AS-BUILT CERTIFICATE
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER R.C.E.: 85528 exp.: 9/30/2024 Date:	By: JON COLLINS R.C.E.: 62090 exp.: 9/30/25 Date:	Engineering Inspector	First Last Name RCE 12345 EXP. 6/30/XX DATE:
APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS	
By: Isaac Elchamendy, City Engineer R.C.E.: 81294 exp.: 9/30/2025 Date:	Description: FOUND 2.5" CITY OF SAN MARCOS BRASS DISC STAMPED "CP-032" Location:	TRAFFIC SIGNAL MODIFICATION PLANS FOR: RANCHO SANTA FE ROAD PAVEMENT IMPROVEMENTS	
Record From: Record of Survey 23731 Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]		City Drawing No. IP23-00018 Sheet 24 of 27 VMD WO# 284234	

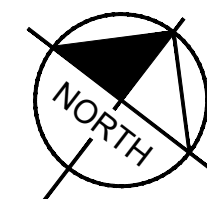
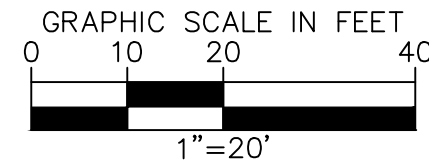
BOLD INDICATES NEW EQUIPMENT.
POLES **(A)**, **(D)**, **(E)**, **(G)**, **(H)**, **(K)**, **(L)** AND **(N)** AND ALL ATTACHED EQUIPMENT ARE EXISTING AND SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.

QUADRANT DETAIL

PEDESTRIAN PUSH
BUTTON LOCATION (TOP VIEW)



NOT TO SCALE



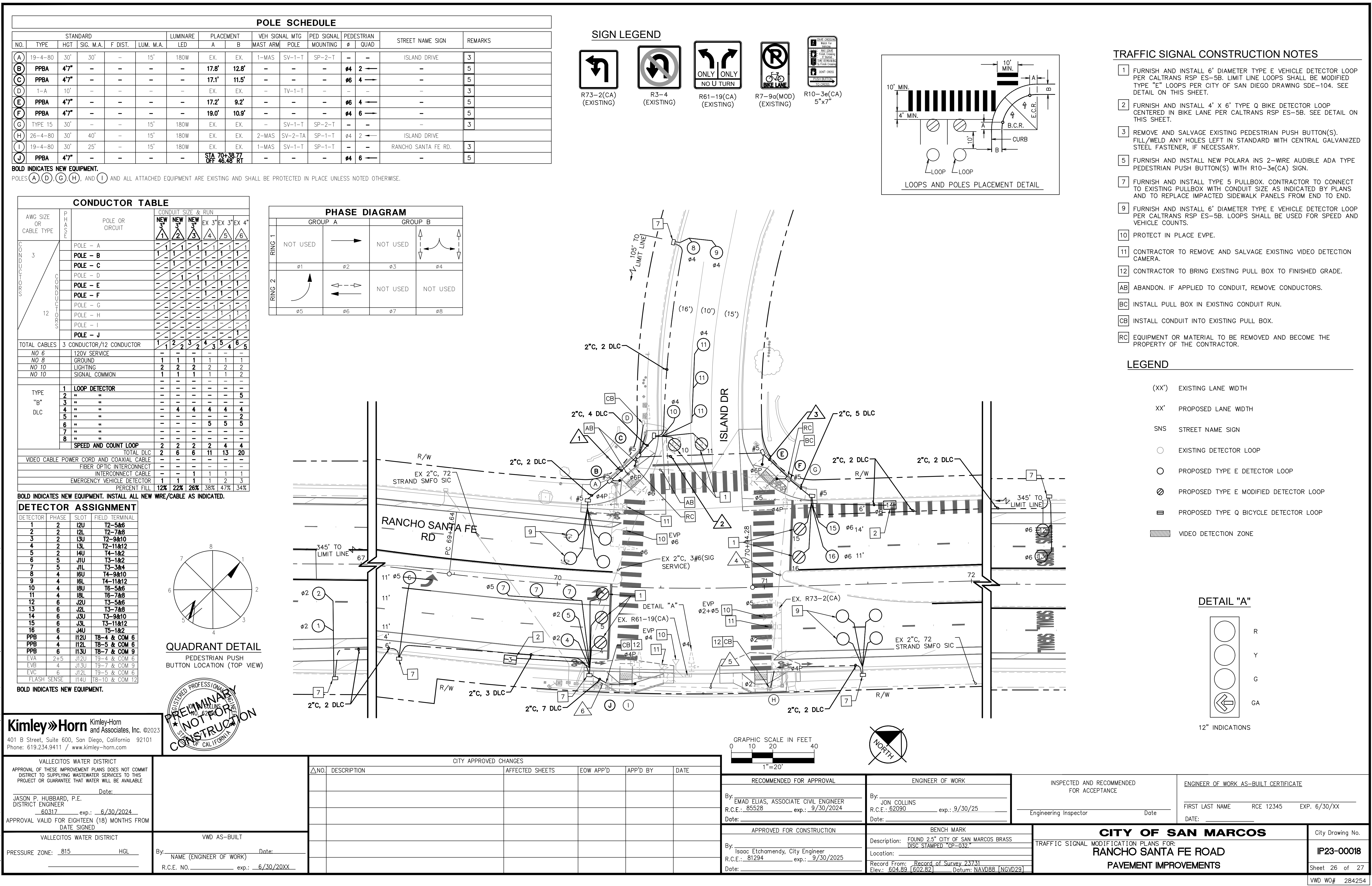
R10-3e(CA)
5"x7"

- 1 FURNISH AND INSTALL 6" DIAMETER TYPE E VEHICLE DETECTOR LOOP PER CALTRANS RSP ES-5B. LIMIT LINE LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER CITY OF SAN DIEGO DRAWING SDE-104. SEE DETAIL ON THIS SHEET.
- 2 FURNISH AND INSTALL 4' X 6' TYPE Q BIKE DETECTOR LOOP CENTERED IN BIKE LANE PER CALTRANS RSP ES-5B. SEE DETAIL ON THIS SHEET.
- 3 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON(S). FILL/WELD ANY HOLES LEFT IN STANDARD WITH CENTRAL GALVANIZED STEEL FASTENER, IF NECESSARY.
- 4 REMOVE AND RELOCATE EXISTING PEDESTRIAN PUSH BUTTON(S). FILL/WELD ANY HOLES LEFT IN STANDARD WITH CENTRAL GALVANIZED STEEL FASTENER, IF NECESSARY.
- 5 FURNISH AND INSTALL NEW POLARA IN'S 2-WIRE AUDIBLE ADA TYPE PEDESTRIAN PUSH BUTTON(S) WITH R10-3e(CA) SIGN.
- 7 FURNISH AND INSTALL TYPE 5 PULLBOX. CONTRACTOR TO CONNECT TO EXISTING PULLBOX WITH CONDUIT SIZE AS INDICATED BY PLANS AND TO REPLACE IMPACTED SIDEWALK PANELS FROM END TO END.
- 9 FURNISH AND INSTALL 6" DIAMETER TYPE E VEHICLE DETECTOR LOOP PER CALTRANS RSP ES-5B. LOOPS SHALL BE USED FOR SPEED AND VEHICLE COUNTS.
- 10 PROTECT IN PLACE EVPE.
- 11 CONTRACTOR TO REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.

(XX')	EXISTING LANE WIDTH
XX'	PROPOSED LANE WIDTH
SNS	STREET NAME SIGN
	EXISTING DETECTOR LOOP
	PROPOSED TYPE E DETECTOR LOOP
	PROPOSED TYPE E MODIFIED DETECTOR LOOP
	PROPOSED TYPE Q BICYCLE DETECTOR LOOP
	VIDEO DETECTION ZONE

BOLD INDICATES NEW EQUIPMENT

City Drawing No.
IP23-00018
Sheet 25 of 27



Drawing name: K:\SD\JMW\095624139 - Rancho Santa Fe Road\Design\Plan Sheets\824139-12505.dwg TSD: Apr 18, 2024 11:37am by: Henry Reich

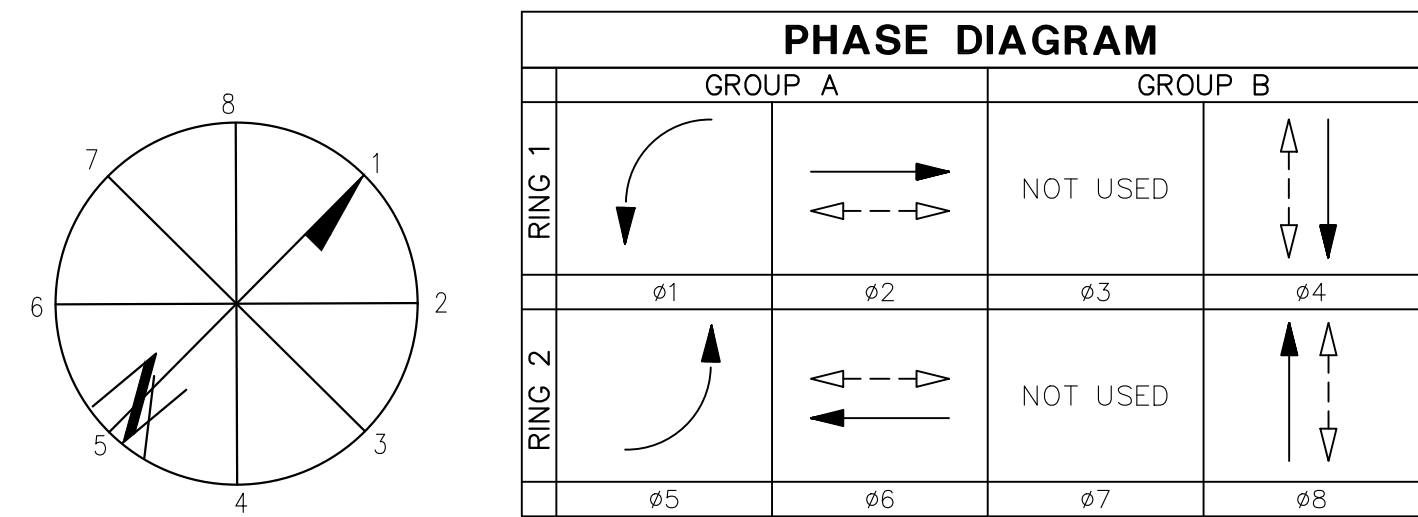
POLE SCHEDULE														
STANDARD						LUMINAIRE	PLACEMENT	VEH SIGNAL MTG	PED SIGNAL	PEDESTRIAN	STREET NAME SIGN		REMARKS	
NO.	TYPE	HGT	SIG. M.A.	F. DIST.	LUM. M.A.	LED	A	B	MAST ARM	POLE	Ø	QUAD		
(A)	26-4-70	30'	40'	-	15'	180W	EX.	EX.	1-MAS	SV-1-T	SP-1-T	Ø8	6	Cam del Arroyo → Lake Ridge Dr
(B)	1-A	10'	-	-	-	-	EX.	EX.	-	TV-2-T	SP-1-T	Ø2	8	-
(C)	17B-2-70	30'	15'	-	12'	180W	EX.	EX.	1-MAS	SV-1-T	SP-1-T	Ø2	8	Rancho Santa Fe Rd
(D)	1-A	10'	-	-	-	-	EX.	EX.	-	TV-1-T	SP-1-T	Ø4	2	-
(E)	26-4-70	30'	40'	-	15'	180W	EX.	EX.	1-MAS	SV-1-T	SP-1-T	-	-	Lake Ridge Dr ← Cam del Arroyo
(F)	PPBA	4'7"	-	-	-	12.7'	7.7'	-	-	-	Ø4	2	5	-
(G)	PPBA	4'7"	-	-	-	14.3'	10.0'	-	-	-	Ø6	4	5	-
(H)	1-A	10'	-	-	-	-	EX.	EX.	-	TV-2-T	SP-1-T	-	4	-
(I)	17B-2-70	30'	40'	-	12'	180W	EX.	EX.	1-MAS	SV-1-T	SP-1-T	Ø6	4	Rancho Santa Fe Rd
(J)	1-A	10'	-	-	-	-	EX.	EX.	-	TV-1-T	SP-1-T	Ø8	6	-
(K)	19-3-70	30'	25'	-	15'	180W	EX.	EX.	1-MAS	SV-2-T	-	-	-	-

BOLD INDICATES NEW EQUIPMENT.

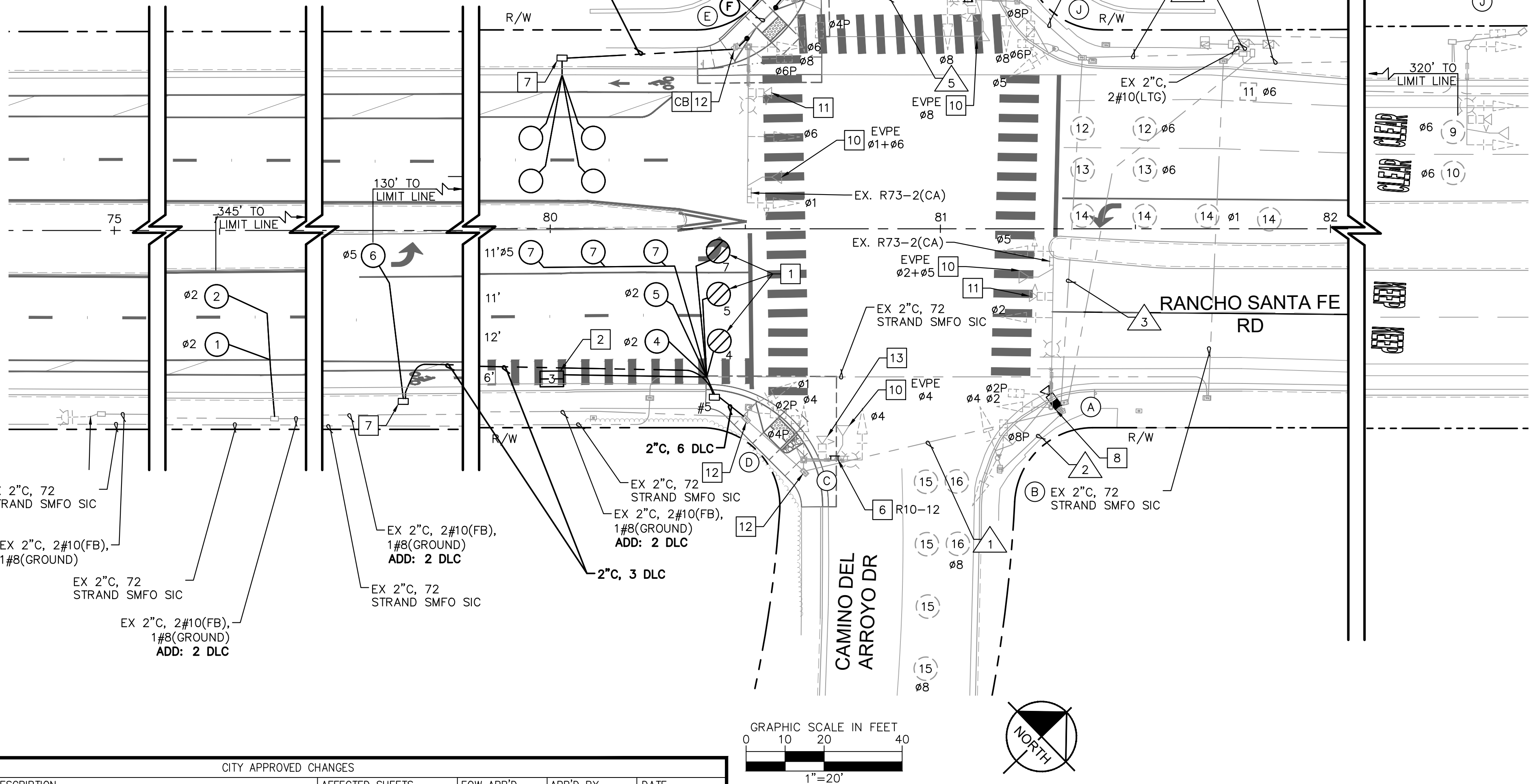
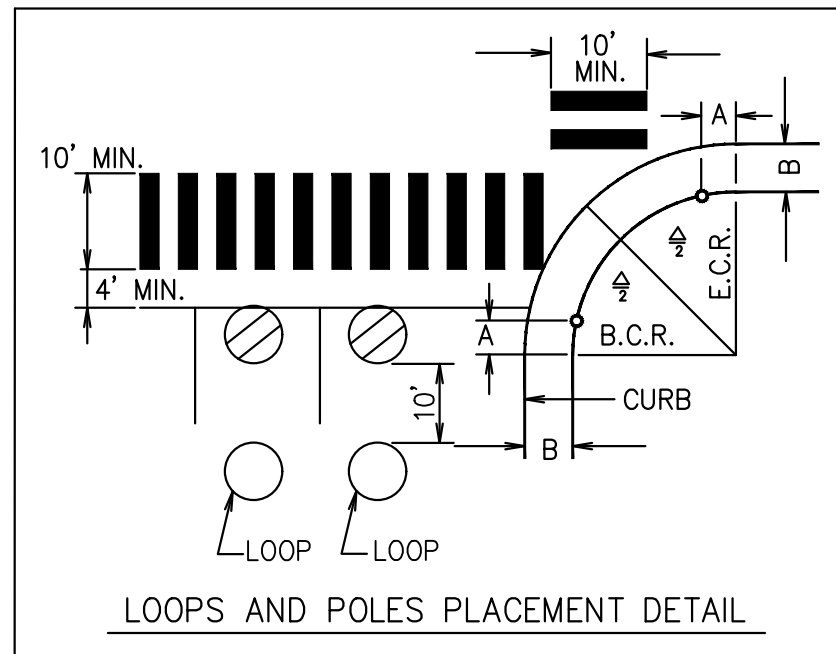
POLES (A), (B), (C), (D), (E), (H), (I), (J), and (K) AND ALL ATTACHED EQUIPMENT ARE EXISTING AND SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.

CONDUCTOR TABLE														
AWG SIZE OR CABLE TYPE	P H A S E	POLE OR CIRCUIT	CONDUIT SIZE & RUN											
			EX 3" 1	EX 3" 2	EX 3" 3	EX 3" 4	EX 3" 5	EX 3" 6	EX 2-3" 7	EX 2-3" 8				
3	CONDUCTOR	POLE - A	-	-	-	-	-	-	-	-	-	-	-	-
		POLE - B	-	-	-	-	-	-	-	-	-	-	-	-
		POLE - C	1	1	1	1	1	1	1	1	1	1	1	1
		POLE - D	1	1	1	1	1	1	1	1	1	1	1	1
		POLE - E	-	-	-	-	-	-	-	-	-	-	-	-
		POLE - F	-	-	-	1	1	1	1	1	1	1	1	1
		POLE - G	-	-	-	-	1	1	1	1	1	1	1	1
		POLE - H	-	-	-	-	-	1	1	1	1	1	1	1
		POLE - I	-	-	-	-	-	-	1	1	1	1	1	1
		POLE - J	-	-	-	-	-	-	-	1	1	1	1	1
TOTAL CABLES	3	CONDUCTOR/12 CONDUCTOR		2	2	1	4	1	2	3	8	8	8	
NO 6	120V SERVICE		-	-	-	-	-	-	-	-	-	-	-	
NO 8	GROUND		1	1	1	1	1	1	1	1	1	1	1	
NO 10	LIGHTING		2	-	2	2	2	2	2	2	2	2	2	
NO 10	FLASHING BEACON		2	-	2	-	-	-	-	-	-	-	-	
NO 10	STREET NAME SIGN		2	-	2	2	2	2	2	2	2	2	2	
TYPE "B" DLC	1	LOOP DETECTOR		-	-	-	-	-	-	-	-	1	1	
	2	"	"	5	5	5	-	-	-	5	5	-	-	
	3	"	"	-	-	-	-	-	-	-	-	-	-	
	4	"	"	-	-	-	-	-	-	-	-	-	-	
	5	"	"	2	2	2	-	-	-	2	2	-	-	
	6	"	"	-	-	-	-	-	-	3	5	-	-	
	7	"	"	-	-	-	-	-	-	-	-	-	-	
	8	"	"	-	2	2	-	-	-	2	2	-	-	
SPEED AND COUNT LOOPS		-	-	-	2	2	2	2	2	2	2	2	2	
TOTAL DLC		7	9	9	2	2	2	2	14	16	16	16	16	
CCTV CAMERA VIDEO POWER CABLE		-	-	-	1	-	-	-	1	1	1	1	1	
FIBER OPTIC INTERCONNECT		-	-	-	-	-	-	-	-	-	-	-	-	
INTERCONNECT CABLE		-	-	-	-	-	-	-	-	-	-	-	-	
EMERGENCY VEHICLE DETECTOR		-	-	2	1	2	2	2	4	5	5	5	5	
PERCENT FILL		23%	16%	41%	12%	19%	25%	36%	37%	37%	37%	37%	37%	

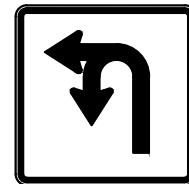
BOLD INDICATES NEW EQUIPMENT. INSTALL ALL NEW WIRE/CABLE AS INDICATED.



QUADRANT DETAIL
PEDESTRIAN PUSH
BUTTON LOCATION (TOP VIEW)



SIGN LEGEND



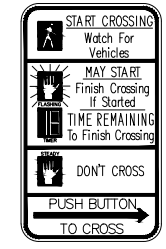
R73-2(CA)
(EXISTING)



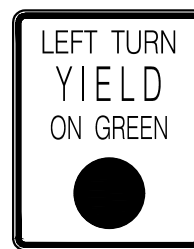
R3-4
(EXISTING)



R3-1
BLANKOUT
(EXISTING)



R10-3e(CA)
5'x7'



R10-12
30'x36'

LEGEND

(XX') EXISTING LANE WIDTH

XX' PROPOSED LANE WIDTH

SNS STREET NAME SIGN

○ EXISTING DETECTOR LOOP

○ PROPOSED TYPE E DETECTOR LOOP

⊗ PROPOSED TYPE E MODIFIED DETECTOR LOOP

▬ PROPOSED TYPE Q BICYCLE DETECTOR LOOP

▨ VIDEO DETECTION ZONE

TRAFFIC SIGNAL CONSTRUCTION NOTES

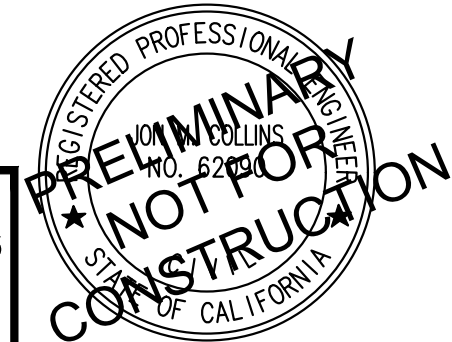
- FURNISH AND INSTALL 6" DIAMETER TYPE E VEHICLE DETECTOR LOOP PER CALTRANS RSP ES-5B. LIMIT LINE LOOPS SHALL BE MODIFIED TYPE "E" LOOPS PER CITY OF SAN DIEGO DRAWING SDE-104. SEE DETAIL ON THIS SHEET.
- FURNISH AND INSTALL 4' X 6' TYPE Q BIKE DETECTOR LOOP CENTERED IN BIKE LANE PER CALTRANS RSP ES-5B. SEE DETAIL ON THIS SHEET.
- REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON(S). FILL/WELD ANY HOLES LEFT IN STANDARD WITH CENTRAL GALVANIZED STEEL FASTENER, IF NECESSARY.
- FURNISH AND INSTALL NEW POLARA INS 2-WIRE AUDIBLE ADA TYPE PEDESTRIAN PUSH BUTTON(S) WITH R10-3e(CA) SIGN.
- FURNISH AND INSTALL SIGN ON SIGNAL MAST ARM PER CALTRANS REVISED STANDARD PLAN ES-7N, DETAIL U.
- FURNISH AND INSTALL TYPE 5 PULLBOX. CONTRACTOR TO CONNECT TO EXISTING PULLBOX WITH CONDUIT SIZE AS INDICATED BY PLANS AND TO REPLACE IMPACTED SIDEWALK PANELS FROM END TO END.
- FURNISH AND INSTALL NEW BOSCH MIC INTEOX 7100I PAN-TILT-ZOOM CCTV CAMERA MIC-7602-Z30WR-0C PTZ 2MP 30X.
- PROTECT IN PLACE EVPE.
- CONTRACTOR TO REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA.
- CONTRACTOR TO BRING EXISTING PULL BOX TO FINISHED GRADE.
- PROTECT IN PLACE VIDEO DETECTION CAMERA.
- INSTALL CONDUIT INTO EXISTING PULL BOX.

DETECTOR ASSIGNMENT

DETECTOR	PHASE	SLOT	FIELD	TERMINAL
1	2	I2U	T2	5&6
2	2	I2L	T2	7&8
3	5	J1U	T3	1&2
4	2	I3U	T2	9&10
5	2	I3L	T2	11&12
6	2	I4U	T4	1&2
7	5	J1L	T3	3&4
8	4	I8U	VIDEO DETECTION	
9	6	J2U	T3	5&6
10	6	J2L	T3	7&8
11	6	J3U	T3	9&10
12	6	J3L	T3	11&12
13	6	J4U	T5	1&2
14	1	I1L	T2	1&2
15	8	J6U	T5	9&10
16	8	J6L	T5	11&12
PPB	2	I12U	T8-4 & COM 6	
PPB	4	I12L	T8-5 & COM 6	
PPB	6	I13U	T8-7 & COM 9	
EVA	2+5	J12U	T9-4 & COM 6	
EVb	4	J13U	T9-7 & COM 9	
EVC	6	J12L	T9-5 & COM 6	
EVC	8	J13L	T9-8 & COM 9	
FLASH SENSE	11+14	I14U	T8-10 & COM 12	

BOLD INDICATES NEW EQUIPMENT.

Kimley»Horn Kimley-Horn
and Associates, Inc. ©2023
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com



VALLECITOS WATER DISTRICT
APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT COMMIT DISTRICT TO SUPPLYING WASTEWATER SERVICES TO THIS PROJECT OR GUARANTEE THAT WATER WILL BE AVAILABLE.
Date: _____
JASON P. HUBBARD, P.E.
DISTRICT ENGINEER
60317 exp.: 6/30/2024
APPROVAL VALID FOR EIGHTEEN (18) MONTHS FROM DATE SIGNED

VALLECITOS WATER DISTRICT
PRESSURE ZONE: 815 HGL _____
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

VMD AS-BUILT
By: _____ Date: _____
R.C.E. NO. _____ exp.: 6/30/20XX

CITY APPROVED CHANGES				
Δ NO.	DESCRIPTION	AFFECTED SHEETS	EOW APP'D	APP'D BY

RECOMMENDED FOR APPROVAL
By: EMAD ELIAS, ASSOCIATE CIVIL ENGINEER
R.C.E.: 85528 exp.: 9/30/2024
Date: _____

ENGINEER OF WORK
By: JON COLLINS
R.C.E.: 62090 exp.: 9/30/25
Date: _____

INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Engineering Inspector _____ Date: _____

ENGINEER OF WORK AS-BUILT CERTIFICATE
FIRST LAST NAME RCE 12345 EXP. 6/30/XX
DATE: _____

APPROVED FOR CONSTRUCTION
By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 exp.: 9/30/2025
Date: _____

BENCH MARK
Description: FOUND 2.5" CITY OF SAN MARCOS BRASS
DISC STAMPED "CP-032"
Location: _____
Record From: _____ Record of Survey 23731
Elev.: 604.89 [602.82] Datum: NAVD88 [NGVD29]

CITY OF SAN MARCOS
TRAFFIC SIGNAL MODIFICATION PLANS FOR:
RANCHO SANTA FE ROAD
PAVEMENT IMPROVEMENTS
City Drawing No. **IP23-00018**
Sheet 27 of 27
VMD WQ# 284234