

Drawing name: \\S00F001\CA-S001\SDG_MUN\052624\23 - Signal Backplates Replacement Project\Design\Plan Sheets\021123-Cv.dwg TITLE SHEET Jan 08, 2022 9:30am by: Madeline David

GENERAL NOTES:

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN MARCOS DOES NOT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.
- "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED BY CONTRACTOR DURING CONSTRUCTION.
- PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN MARCOS.
- CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
- CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD.
- CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- MANHOLES AND PULL BOX COVER SHALL BE LABELED WITH NAME OF COMPANY.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN MARCOS.
- CONTRACTOR SHALL PROVIDE RED-LINE DRAWINGS IN ACCORDANCE WITH 2-5.4 OF THE WHITEBOOK, "RED-LINES AND RECORD DOCUMENT."
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON PLANS.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.
- CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED, OR BECOME INEFFECTIVE DUE TO CONSTRUCTION ACTIVITIES FOR A PERIOD OF FIVE (5) OR MORE DAYS, SATISFACTORY TO THE CITY ENGINEER, THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION EQUIPMENT AND RESTORE/INSTALL A CITY APPROVED PERMANENT VEHICLE DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION, SATISFACTORY TO THE CITY ENGINEER.
- PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
- UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.

AT&T
SAN DIEGO GAS & ELECTRIC
VALLECITOS WATER DISTRICT
COX COMMUNICATIONS

TRAFFIC SIGNAL GENERAL NOTES:

- 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 DIGGING 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.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITIES AGENCIES, AND THE CITY OF SAN MARCOS (760) 752-7550 AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND FACILITIES OF THE FOLLOWING UTILITIES BY CONTACTING THE UNDERGROUND SERVICE ALERT AT 1-800-277-2600:
 - AT&T
 - PACIFIC BELL
 - SAN DIEGO GAS & ELECTRIC
 - VALLECITOS WATER DISTRICT
 - COX COMMUNICATIONS
- UTILITY MARK-OUTS SHALL BE CONDUCTED USING A TEMPORARY PAINT THAT CAN BE REMOVED BY POWER WASH, IF NECESSARY. THE CONTRACTOR SHALL REMOVE ALL MARK OUT PAINT UPON COMPLETION OF THE WORK."
- 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.
- POLE, DETECTOR AND EQUIPMENT LOCATIONS ARE APPROXIMATE. THE CITY OF SAN MARCOS' ENGINEERING DEPARTMENT INSPECTORS / TRAFFIC SIGNAL LIGHTING SUPERVISOR SHALL FIELD VERIFY AND APPROVE THE EXACT EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.
- 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.
- ALL TRAFFIC SIGNAL CONDUIT AND FITTINGS (AFTER THE ELECTRIC METER PEDESTAL) SHALL BE MINIMUM THREE INCH (3") SCHEDULE 80 PVC. STREET CROSSINGS SHALL BE FOUR INCHES (4") MINIMUM, ENCASED IN A MINIMUM OF TWELVE INCHES (12") OF 56-C-3250 PSI CONCRETE (8" MINIMUM CONCRETE COVER TO TOP OF PIPE). ALL CONDUITS SHALL BE BURIED WITH A MINIMUM OF THIRTY INCHES (30") 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.
- 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).
- CURB RAMPS SHALL BE INSTALLED AT ALL CURB RETURNS PER TITLE 24, PART 2, STATE CHAPTER 71, SITE DEVELOPMENT REQUIREMENTS FOR HANDICAPPED ACCESSIBILITY, SECTION 7103, CURB RAMPS OF THE CALIFORNIA BUILDING CODE, AND SHALL INCLUDE TRUNCATED DOMES (TYPE AND COLOR AS DIRECTED BY THE ENGINEER).
- ALL TRENCH EXCAVATION AND BACKFILL IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF SAN MARCOS' EXCAVATION ORDINANCE. MINIMUM 95% COMPACTION IS REQUIRED IN ALL ON-SITE FILL AREAS WITHIN ULTIMATE RIGHT-OF-WAY.
- A NEW SLURRY COAT OR OVERLAY SHALL BE APPLIED A MINIMUM OF 20 FEET EITHER SIDE OF PATCH WORK RESULTING FROM EXCAVATION WORK (TRENCHING AND POTHOLING) 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SERVICE COORDINATION WITH SDG&E. THE CONTRACTOR SHALL APPLY FOR A NEW SERVICE METER AND OBTAIN AN SDG&E SERVICE ORDER. THE CITY SHALL PROVIDE BUILDING ADDRESSES FOR THE NEW SERVICE METERS.
- 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.
- LUMINAIRES SHALL CONFORM TO THE LATEST CITY OF SAN MARCOS STREET LIGHTING STANDARDS WITH GE EVOLVE™ LED ROADWAY SCALABLE COBRAHEAD FIXTURES FOR SAFETY LIGHTING.
- 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.
- AN "AS-BUILT" DRAWING SHALL BE SUBMITTED FOR ALL PUBLIC IMPROVEMENTS PRIOR TO THE ACCEPTANCE OF SAID IMPROVEMENTS.

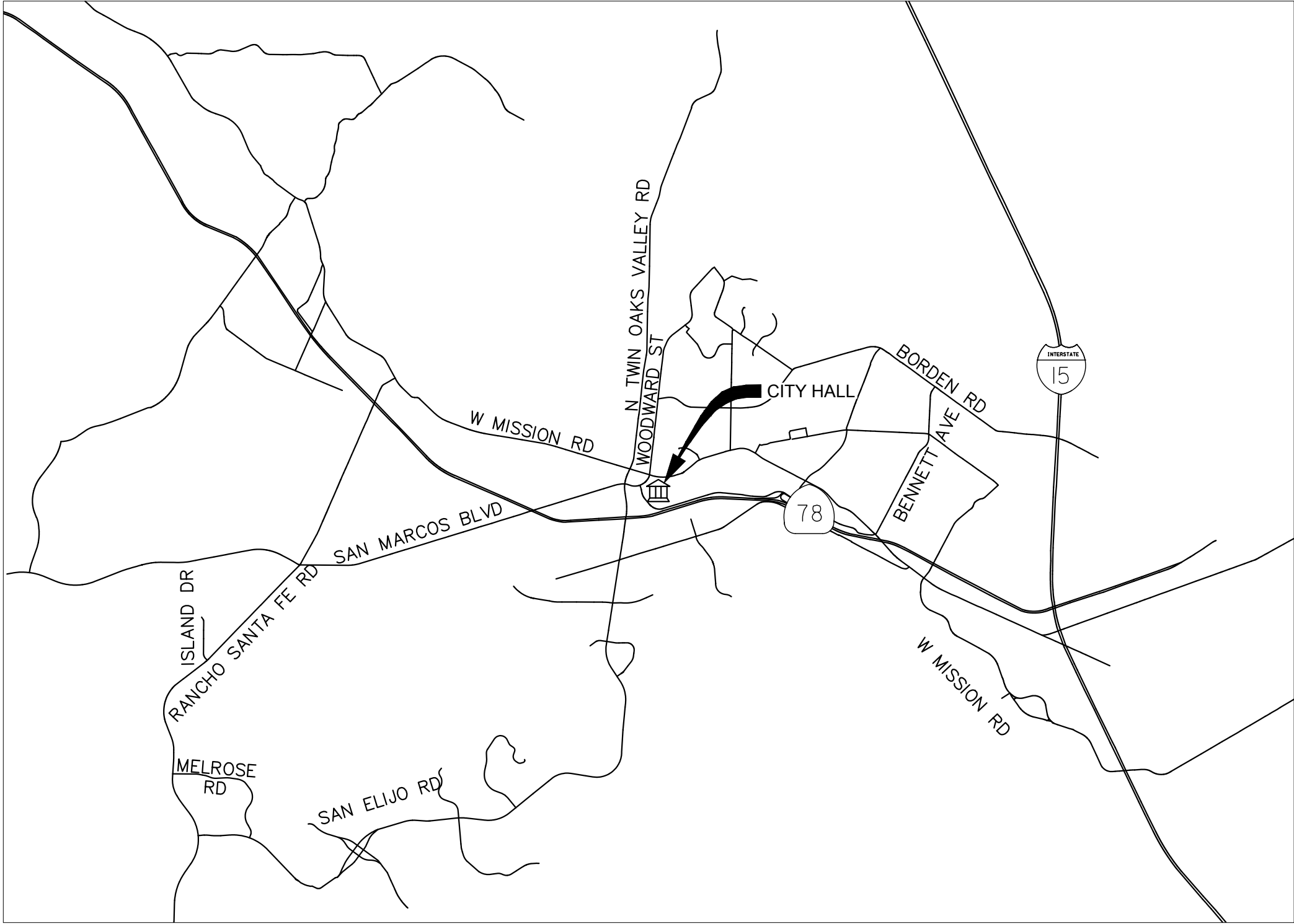


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Phone: 619.234.9411 / www.kimley-horn.com

SAN MARCOS FIRE DEPARTMENT		VALLECITOS WATER DISTRICT		ENGINEER OF WORK		CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SAN MARCOS		City Drawing No.	
By: Jason Nailon, Fire Marshal		By: _____		By: Leonardo Espelet, PE R.C.E.: 71532 exp: 12/31/2023		No. Description App'd By Date		By: Lewis Clapp, Principal Civil Engineer R.C.E.: 76583 exp: 12/31/2022		By: Issac Etchamendy, City Engineer R.C.E.: 81294 exp: 09/30/2023		Description: _____ Location: _____ Record From: N/A Elev.: _____ Datum: N/A		TITLE SHEET FOR: CIP NO. TR008 - RETROREFLECTIVE BACKPLATE PROJECT		IP21-00020	
Date: _____		Date: _____		Date: 06/08/2022				Date: _____		Date: _____						Sheet 1 of 5	

CITY OF SAN MARCOS

CIP NO. TR008 -
RETROREFLECTIVE BACKPLATE PROJECT



VICINITY MAP
NOT TO SCALE

TRAFFIC SIGNAL GENERAL NOTES (CONTINUED):

- 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.
- TRAFFIC SIGNAL CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL MATERIALS INCLUDING POLES, MAST ARMS AND CONTROLLER ARE ON-HAND UNLESS OTHERWISE APPROVED BY THE PROJECT INSPECTOR.
- 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. APPROVAL IS REQUIRED BY THE CITY'S TRAFFIC SIGNAL SUPERVISOR PRIOR TO OPERATION. THE CONTRACTOR SHALL REPAIR ASPHALT PAVING AND APPLY SLURRY SEAL COAT AFTER INSTALLATION OF LOOPS.
- 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.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS ANS PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN MARCOS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY REPONSIBILITIES FOR THE PROJECT DESIGN.



LEONARDO E. ESPELET RCE 71532 EXP. 12/31/23

DATE: 05/24/2022

APPROVED AS RECORD PLAN

By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 Date: _____

INSPECTED AND RECOMMENDED FOR ACCEPTANCE

Public Works Inspector

Date: _____

AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET 1 THROUGH SHEET 5, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

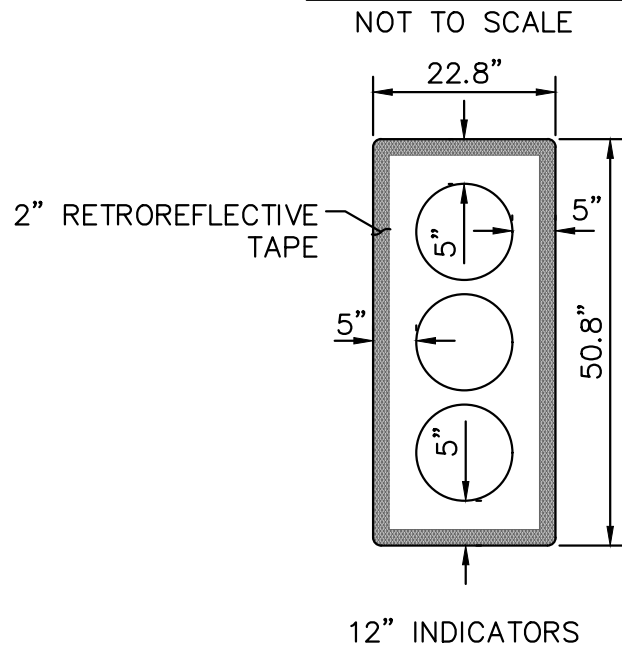
LEONARDO E. ESPELET RCE 71532 EXP. 12/31/2023

DATE: 06/08/2022

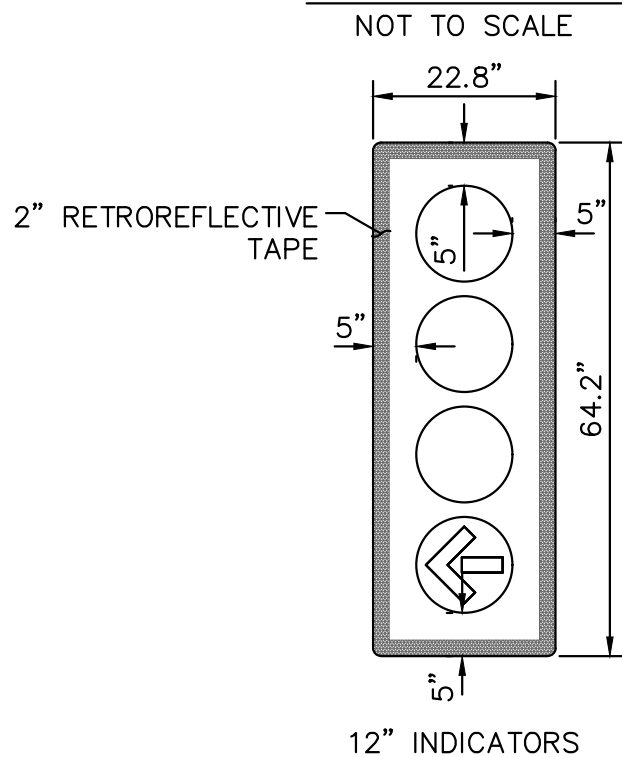
Drawing name: \\SDP01\CA_SMD\JUN\06824123 - Signal Backplates Replacement Project\Design\Plan Sheets\24123-MC.dwg MW-1 Jun 08, 2022 9:30am By: Madeline David

INTERSECTION ID	STREET INTERSECTION (* INDICATES INTERSECTION IN ADDITION TO TRAFFIC SIGNALIZED INTERSECTIONS MAP - UPDATED 1/2/20)	12" TRAFFIC SIGNALS									8" TRAFFIC SIGNALS		
		3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			4 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			5 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)		
		VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A
101	Twin Oaks Valley Rd/Deer Springs Rd	5	5	1									
102	Twin Oaks Valley Rd/Buena Creek Rd	3	4	3									
103	Twin Oaks Valley Rd/Olive St	4	4	7	1		1						
104	Twin Oaks Valley Rd/Cassou Rd	8	4			2							
105	Twin Oaks Valley Rd/La Cienega Rd	6	3	2									
106	Twin Oaks Valley Rd/Del Roy Rd	4	8	7									
107	Twin Oaks Valley Rd/Windy Way	6	4	1			1						
108	Twin Oaks Valley Rd/Borden Rd	3	8	6				1		1			
109	Twin Oaks Valley Rd/Richmar Ave	9	4	4		2							
110	Woodward St/Timberline Ln	7	4										
111	Woodward St/Borden Rd	4	8	7									
112	Woodward St/Vineyard Rd	6	4	2									
113	Vineyard Rd/Borden Rd	6	8	8									
114	Mulberry Dr/La Cienega Rd	6	4		2	1	1						
115	Mulberry Dr/Woodward St	5	4	2	2	1	1						
116	Mulberry Dr/Rose Ranch Rd	6	4	4									
117	Mulberry Dr/Borden Rd	4	8	4									
118	Rose Ranch Rd/Richland Rd/Borden Rd	9	6	7									
119	Woodland Parkway/Borden Rd/El Norte Parkway	7	8	7									
120	Woodland Parkway/Fulton Rd	4	8	6									
121	Woodland Parkway/Rock Springs Rd	7	8	1									
122	Avenida Ricardo/Center Dr	7	4	1		2							
123	Nordahl Rd/Knob Hill Rd/Avocado Way	7	4	4	1		1						
124	Nordahl Rd/Medical Center Way	4	4	2									
125	Nordahl Rd/Center Dr	5	4										
126	Nordahl Rd/Center Dr(Shopping Center)	4	3										
127	Nordahl Rd/Montiel Rd	3	10	4				2		2			
201	Mission Rd/Woodward St/San Marcos Blvd	8	11	8									
202	Mission Rd/Mulberry Dr	5	6	3		1							
203	Mission Rd/Mission Hills Court	6	6	3		2							
204	Mission Rd/(Liberty Entance)	6	4			1							
205	Mission Rd/(Mission Hills High School)/(Liberty)	5	4	2		1	2						
206	Mission Rd/Woodland Pkwy	5	9	3									
207	Mission Rd/Bennett Ave/Rancheros Dr	6	4	3	2	2	1						
208	Mission Rd/Barham Dr	10	4			3	2						
209	Rancheros Dr/San Marcos Blvd	6	2	6		2							
210	Rancheros Dr/Via Del Prado/Civic Center Dr	8	6										
211	Rancheros Dr/Santar Pl	6	3	1		1							
212	Rancheros Dr/Woodland Pkwy	2	8	5				2		2			
213	Barham Dr/June Way *	7	6			1							
214	Barham Dr/Campus Way	4	10	8									
215	Barham Dr/La Moree Rd	7	5	1		2							
216	Barham Dr/Woodland Pkwy	3	3	1		1		1		1			
217	Barham Dr/E. La Moree Rd	5	4	2									
218	Barham Dr/EB 78 on ramp	5	3										

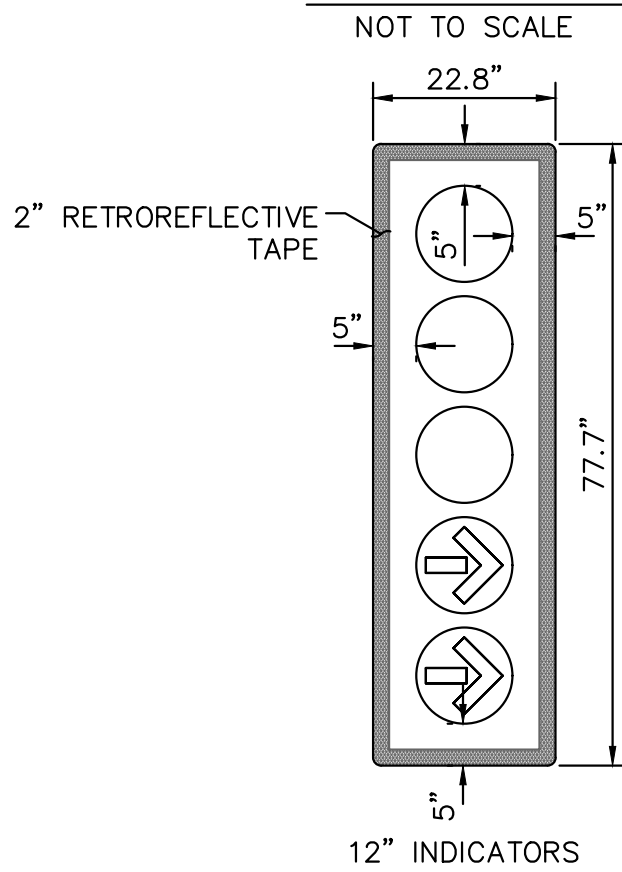
3-SECTION TRAFFIC
SIGNAL HEAD



4-SECTION TRAFFIC
SIGNAL HEAD



5-SECTION TRAFFIC
SIGNAL HEAD



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Phone: 619.234.9411 / www.kimley-horn.com

APPROVED AS RECORD PLAN

By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 Date:

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE

Public Works Inspector Date

AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE
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THROUGH SHEET 5, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL
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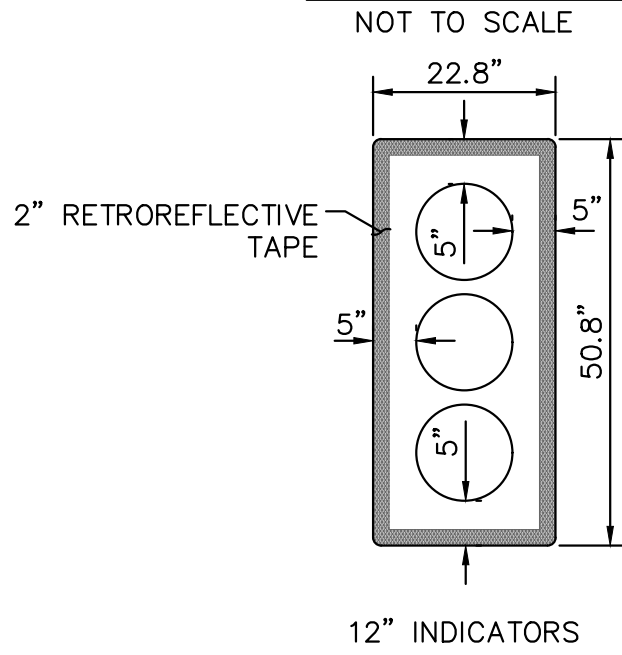
LEONARDO E. ESPELET RCE 71532 EXP. 12/31/2023 DATE: 06/08/2022

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS		City Drawing No.
By: Jason Nailon, Fire Marshal	By:	By: Leonardo Espelet, PE R.C.E.: 71532 exp.: 12/31/2023 Date: 06/08/2022	No. Description App'd By Date	By: Lewis Clapp, Principal Civil Engineer R.C.E.: 76583 exp.: 12/31/2022 Date:	By: Issac Etchamendy, City Engineer R.C.E.: 81294 exp.: 09/30/2023 Date:	Description: Location: Record From: N/A Elev.: Datum: N/A	INTERSECTION SUMMARY MATRIX AND DETAILS FOR: CIP NO. TR008 - RETROREFLECTIVE BACKPLATE PROJECT		IP21-00020
									Sheet 2 of 5

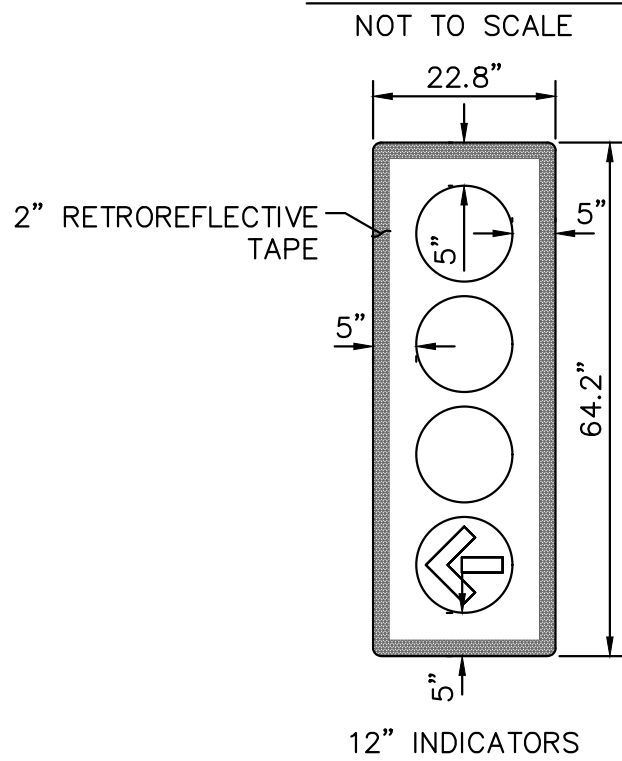
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		3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			4 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			5 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)		
		VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A
301	Twin Oaks Valley Rd/(Civic Center Plaza)/(Anden) *	4	9	4									
302	Twin Oaks Valley Rd/North City Dr *	4	8	4									
303	Twin Oaks Valley Rd/Discovery St/Barham Dr	4	12	8									
304	Twin Oaks Valley Rd/Campus Market Pl	8	6			2							
305	Twin Oaks Valley Rd/Craven Rd	2	10	6				2		2			
306	Twin Oaks Valley Rd/Village Dr	6	10	6									
307	Twin Oaks Valley Rd/Santa Barbara Dr/S. Village Drive	5	8	5		2							
308	Twin Oaks Valley Rd/Sunstone Dr *	5	4	3		1							
309	Twin Oaks Valley Rd/San Elijo Rd	6	7	3		2		1		1			
310	San Elijo Rd/Fire Station No. 4	3	1	3									
311	San Elijo Rd/Ledge St	9	3	1			1						
312	San Elijo Rd/Double Peak Dr	6	4	1									
313	San Elijo Rd/Wild Canyon Dr/Questhaven Rd	4	8	4									
314	San Elijo Rd/Stephanie Ct/Hope St	6	8	4									
315	San Elijo Rd/Schoolhouse Way	8	4	2		2		1		1			
316	San Elijo Rd/Elfin Forest Rd (Northwest)	2	4										
317	San Elijo Rd/Elfin Forest Rd (Northeast)	2	4										
318	San Elijo Rd/Elfin Forest Rd (Southwest)	2	4										
319	San Elijo Rd/Elfin Forest Rd (Southeast)	2	4										
320	San Elijo Rd/Cooke St	3	4										
321	San Elijo Rd/Baker St	3	4										
322	Grand Ave/(Creekside Market Place)/(shopping center) *	9	7										
323	Grand Ave/Creekside Dr/Creekside Pl	4	4	4		2							
324	Craven Rd/Foxhall Dr/Foxhall Ct	9	4			2							
325	Craven Rd/Echo Ln	4	6	5		2							
326	Craven Rd/Rush Dr	8	6			2							
327	Discovery St/Via Vera Cruz	5	2	6		2							
328	Rancho Santa Fe Rd/Lake San Marcos Dr	4	5								3		
329	Rancho Santa Fe Rd/Fire Station No. 2	3	5	2									
330	Rancho Santa Fe Rd/Lake Ridge Dr/Cam Del Arroyo	4	6	6									
331	Rancho Santa Fe Rd/Island Dr	5	3	1		1							
332	Rancho Santa Fe Rd/Via Cancion/Via Allondra	4	5	8		2							
333	Rancho Santa Fe Rd/Redwing St	6	4			1							
334	Rancho Santa Fe Rd/Meadowlark Ranch Rd/Boulderidge Dr	7	6	1		2		3		1			
335	Rancho Santa Fe Rd/Melrose Dr	5	10	9									
336	Melrose Dr/Sparrow Ln/Boulderidge Dr	4	8	5				1		1			
337	Melrose Dr/Diamond St	5	4	1									
338	Melrose Dr/Dove Tail Dr/San Elijo Rd	4	8	6				2		2			

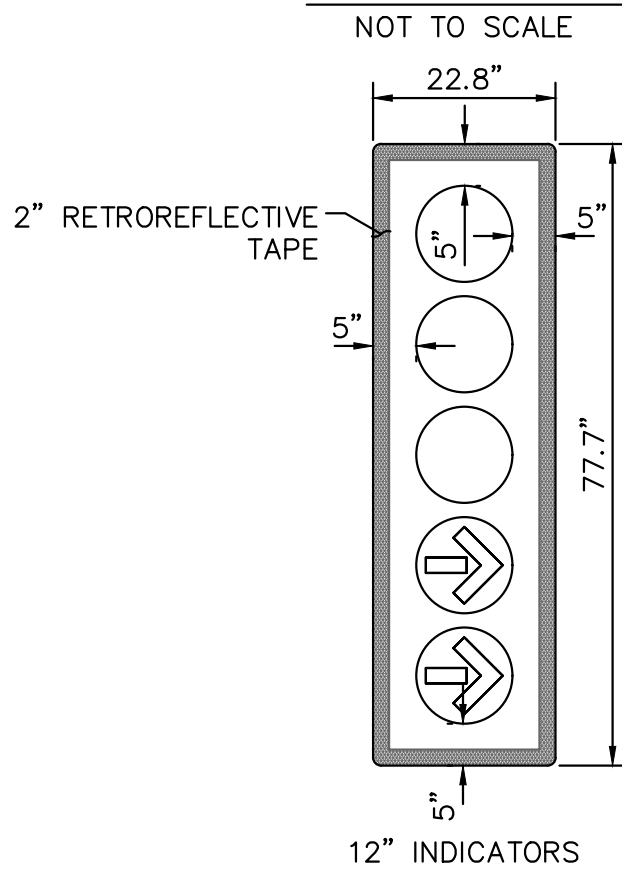
3-SECTION TRAFFIC
SIGNAL HEAD



4-SECTION TRAFFIC
SIGNAL HEAD



5-SECTION TRAFFIC
SIGNAL HEAD



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and Associates, Inc. ©2019
401 B Street, Suite 600, San Diego, California 92101
Phone: 619.234.9411 / www.kimley-horn.com

APPROVED AS RECORD PLAN

By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 Date: _____

INSPECTED AND RECOMMENDED
FOR ACCEPTANCE

Public Works Inspector _____ Date: _____

AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET 1 THROUGH SHEET 5, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

LEONARDO E. ESPELET RCE 71532 EXP. 12/31/2023 DATE: 06/08/2022

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK	CITY APPROVED CHANGES		RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SAN MARCOS INTERSECTION SUMMARY MATRIX AND DETAILS FOR: CIP NO. TR008 - RETROREFLECTIVE BACKPLATE PROJECT	City Drawing No.
By: <u>Jason Nailon, Fire Marshal</u>	By: _____	By: <u>Leonardo Espelet, PE</u>	No.	Description	App'd By	Date	Description: _____		IP21-00020 Sheet 3 of 5
Date: _____	Date: _____	R.C.E.: <u>71532</u> exp.: <u>12/31/2023</u> Date: <u>06/08/2022</u>					Location: _____		
							Record From: <u>N/A</u>		
							Elev.: _____ Datum: <u>N/A</u>		

Drawing name: \\SDP01\CA_SMD\JUN01\06824123 - Signal Backplates Replacement Project\Design\Plan Sheets\24123-MC.dwg MC-3 Jun 08, 2022 9:30am by: Madeline David

INTERSECTION ID	STREET INTERSECTION (* INDICATES INTERSECTION IN ADDITION TO TRAFFIC SIGNALIZED INTERSECTIONS MAP - UPDATED 1/2/20)	12" TRAFFIC SIGNALS									8" TRAFFIC SIGNALS		
		3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			4 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			5 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)		
		VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A	VERTICAL POLE	MAST ARM	TYPE 1-A
401	San Marcos Blvd/Twin Oaks Valley Rd	2	8	6				2		2			
402	San Marcos Blvd/Pico Ave	4	7	7		2							
403	San Marcos Blvd/Tiger Way	6	5										
404	San Marcos Blvd/Travelers Way (Home Depot shopping center)	4	6	4									
405	San Marcos Blvd/Grand Ave	2	10	5				3		3			
406	San Marcos Blvd/Bent Ave	3	10	4				1					
407	San Marcos Blvd/Via Vera Cruz	4	8	4									
408	San Marcos Blvd/Las Posas Rd	3	6	4				1		1			
409	San Marcos Blvd/Pacific St	3	4	5	1	1	1						
410	San Marcos Blvd/Discovery St	10	8	4									
411	San Marcos Blvd/Knights Realm	4	9	7									
412	San Marcos Blvd/Rancho Santa Fe Rd	3	10	5	1		1	1		1			
413	San Marcos Blvd/Viewpoint Drive	7	7	3									
414	San Marcos Blvd/Ave De Las Rosas/Acacia Dr	8	8	2									
415	San Marcos Blvd/Business Park Dr/White Sands Dr	6	8	3		2		3		1			
416	Pico Ave/Positive Pl	6	6	4		2							
417	Knoll Rd/(La-Z-Boy shopping center)/(Home Depot shopping center)	4	4	4		2							
418	Knoll Rd/Furniture Row/Los Vallecitos Blvd	5	8	4									
419	Bent Ave/Grand Ave	7	5			1							
420	Bingham Dr/Los Vallecitos Blvd	5	4	1									
421	Via Vera Cruz/Linda Vista Dr	4	8	6									
422	Via Vera Cruz/(Grand Plaza shopping center)/(NEOTech)	4	4	6		2							
423	Las Posas Rd/Linda Vista Dr	6	8	4									
424	Las Posas Rd/La Mirada Dr	4	8	6									
425	Las Posas Rd/Grand Ave	2	9	6				2		2			
426	Las Posas Rd/Descanso Ave/Los Vallecitos Blvd/Furniture Row	4	6	6		2							
427	Las Posas Rd/Armorlite Dr	4	10	8									
428	Rancho Santa Fe Rd/Grandon Ave	4	4	4		2							
429	Rancho Santa Fe Rd/Linda Vista Dr	4	8	4									
430	Rancho Santa Fe Rd/8th St/Cherokee St	8	9										
431	Rancho Santa Fe Rd/Grand Ave	4	8	4									
432	Rancho Santa Fe Rd/Descanso Ave	4	6	6		2							
433	Rancho Santa Fe Rd/Capalina Rd	4	8	4									
434	Linda Vista Dr/Las Flores Dr	4	4	6		2							
435	Linda Vista Dr/West Linda Vista Dr/Tilley Lane	4	4	8		2							
436	West Linda Vista Dr/Puesta Del Sol	6	4	2									
501	Mission Rd/Firebird Ln/Fire Station No. 1	3	4	5									
502	Mission Rd/Pico Ave	5	4	4		2							
503	Mission Rd/Marcos St	4	4	1									
504	W. Mission Rd/Knoll Rd	6	7	4		2							
505	Mission Rd/Crusaders Way	8	5			1							
506	Mission Rd/Aberdeen Ave	4	5	2									
507	Mission Rd/Comet Circle East	5	4										
508	Mission Rd/Palomar College	4	5	1									
509	Mission Rd/Comet Circle West *	3	4	1									
510	Mission Rd/Las Posas Rd	3	11	5				2		2			
511	Mission Rd/Pacific St	2	4	4	1								
512	Mission Rd/S. Santa Fe Ave/Rancho Santa Fe Rd	6	7	2									
513	S. Santa Fe Ave/Las Flores Dr	6	8	4									
514	S. Santa Fe Ave/Bosstick Blvd	6	4	4		2							
515	N. Las Posas Rd/Mission Pointe Ln/Palm Rd	8	6	3		2							
516	Las Posas Rd/Avenida Azul	4	6	6		2					4		2
517	Las Posas Rd/Borden Rd	4	4	4		2					2		
518	Borden Rd/Camino Magnifico	4	6	4									
519	Borden Rd/Comet Circle	8	4										
520	Borden Rd/Windy Point Dr/Azalea Court	6	4	2		2							
TOTALS		702	819	456	11	87	13	31	0	26	9	0	2

8" SIGNAL HEAD REPLACEMENT INVENTORY										
INTERSECTION ID	STREET INTERSECTION (* INDICATES INTERSECTION IN ADDITION TO TRAFFIC SIGNALIZED INTERSECTIONS MAP – UPDATED 1/2/20)	3 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			4 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)			5 SECTION TRAFFIC SIGNAL HEAD (QUANTITY)		
		VERTICAL POLE	MAST ARM	TYPE 1–A	VERTICAL POLE	MAST ARM	TYPE 1–A	VERTICAL POLE	MAST ARM	TYPE 1–A
328	Rancho Santa Fe Rd/Lake San Marcos Dr	3								
516	Las Posas Rd/Avenida Azul	4		2						
517	Las Posas Rd/Borden Rd	2								



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By: Isaac Etchamendy, City Engineer
R.C.E.: 81294 Date:

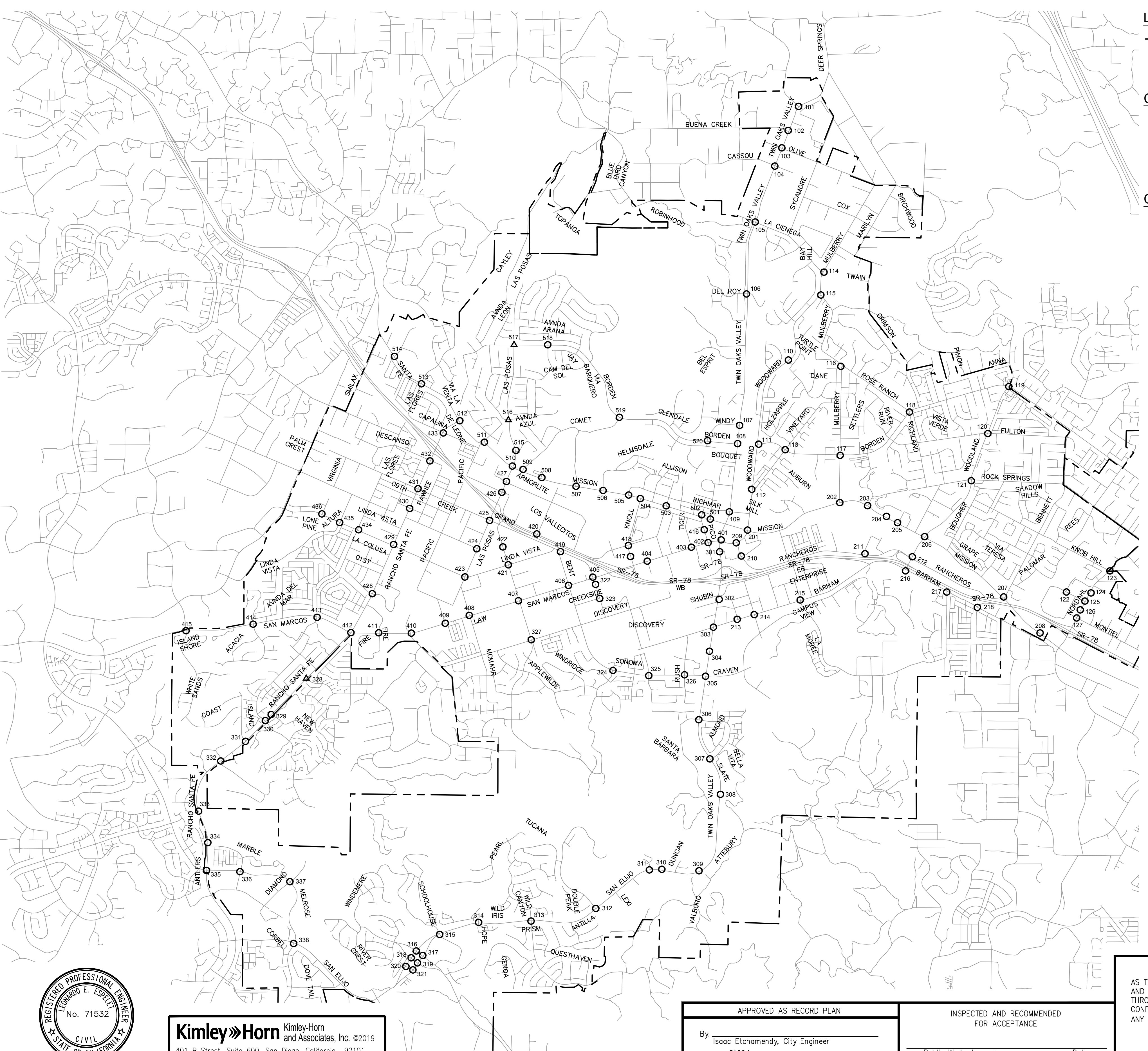
INSPECTED AND RECOMMENDED FOR ACCEPTANCE
Public Works Inspector Date

AS THE ENGINEER OF WORK, I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF CONSTRUCTION PLANS, SHEET 1 THROUGH SHEET 5, HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THESE AS-BUILT PLANS, INCLUDING ALL APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

LEONARDO E. ESPELET RCE 71532 EXP. 12/31/2023 DATE: 06/08/2022

SAN MARCOS FIRE DEPARTMENT	VALLECITOS WATER DISTRICT	ENGINEER OF WORK By: Leonardo Espelet, PE R.C.E.: 71532 exp: 12/31/2023 Date: 06/08/2022	CITY APPROVED CHANGES No. Description App'd By Date	RECOMMENDED FOR APPROVAL By: Lewis Clapp, Principal Civil Engineer R.C.E.: 76583 exp: 12/31/2022 Date:	APPROVED FOR CONSTRUCTION By: Issac Etchamendy, City Engineer R.C.E.: 81294 exp: 09/30/2023 Date:	BENCH MARK Description: _____ Location: _____ Record From: N/A Elev.: _____ Datum: N/A	CITY OF SAN MARCOS INTERSECTION SUMMARY MATRIX AND DETAILS FOR: CIP NO. TR008 - RETROREFLECTIVE BACKPLATE PROJECT	City Drawing No. IP21-00020 Sheet 4 of 5
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Drawing name: \\SDP01\CA_SMD\JUN\06824123 - Signal Backplates Replacement Project\Design\Plan Sheets\24123-HUAWg KM-1 Jun 08, 2022 9:30am by: Madeline David



LEGEND

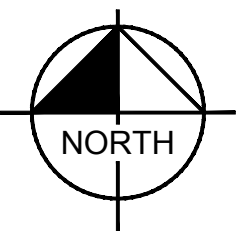
- CITY BOUNDARY
- ▲ 8" SIGNAL HEAD
- 12" SIGNAL HEAD

CONSTRUCTION NOTES (BASE BID)

- CONTRACTOR TO REMOVE EXISTING TRAFFIC SIGNAL BACKPLATES AT ALL LOCATIONS LISTED ON SHEETS 2, 3 AND 4.
- CONTRACTOR TO FURNISH AND INSTALL CA-MUTCD COMPLIANT AND CALTRANS MATERIALS APPROVED ALUMINUM (POWDER COATED) BACKPLATE WITH 2" RETROREFLECTIVE TAPE (3M 4081 FLUORESCENT YELLOW DIAMOND GRADE TYPE XI) AT ALL LOCATIONS LISTED ON SHEET 2, 3 AND 4.

CONSTRUCTION NOTES (ADDED ALTERNATIVE)

- CONTRACTOR TO REPLACE EXISTING 8" SIGNAL HEAD WITH NEW 12" SIGNAL HEAD. NEW SIGNAL HEAD MUST HAVE CA-MUTCD COMPLIANT AND CALTRANS MATERIAL APPROVED ALUMINUM (POWDER COATED) BACKPLATE WITH 2" RETROREFLECTIVE TAPE (3M 4081 FLUORESCENT YELLOW DIAMOND GRADE TYPE XI).



NOT TO SCALE



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By: Jason Nailon, Fire Marshal		By: _____		By: Leonardo Espelet, PE		No. Description App'd By Date		By: Lewis Clapp, Principal Civil Engineer		By: Isaac Etchamendy, City Engineer		Description: _____		RCE.: 71532 exp.: 12/31/2023		RCE.: 81294 exp.: 09/30/2023		Location: _____		IP21-00020	
Date: 06/08/2022		Date: 06/08/2022		Date: 06/08/2022		Date: _____		Date: _____		Date: _____		Record From: N/A		Date: 06/08/2022		Date: _____		Datum: N/A		Sheet 5 of 5	