

CITY OF HIGHLAND

Public Works Policies, Procedures and Standards

- 27. Show saw cut lines, limits of new paving, old paving, cold planing, overlay, and removal. Use appropriate shading to delineate areas. For new paving, an R-Value test to determine the paving section is required. Where match up paving is required specify a minimum 0.1' thick, 2' wide cold plane and inlay adjacent to newly saw cut edge of paving per City Standard Pavement Join Details.
- 28. Curb-type sidewalk standard. If property line sidewalk is existing within block, continue property line sidewalk to street intersection and transition through return to curb-type sidewalk. Minimum 4-foot clearance required around any obstacle (tree wells, power poles, fire hydrants, etc.).
- 29. Show detail of cross gutter if not standard. Cross gutter and aprons to show direction of flow with arrows. Show flow line elevations along flow line of cross gutter.
- 30. Show T.C. and flow line elevations on all BCR's and ECR's.
- 31. If cross gutter has upstream drainage area greater than 1,000 feet in length, then 10-foot cross gutter required. Otherwise, 6-foot width. Show width on plans.
- 32. No mid-block cross gutters. Cross gutters across major streets need prior approval from City Engineer.
- 13. Typical sections for all streets. Show existing, proposed and ultimate conditions. Show right and left sides of sections as they would appear looking upstation on the street even if only one side of the street is being improved. Identify property lines. Give level line offsets from centerline to quarter crown and T.C. New streets shall have a cross slope of 2 percent. Show range of slopes on existing and match-up paving. If difference in elevation between top of curb and existing ground at property line exceeds one foot, indicate what slopes are to be constructed outside the right-of-way, 2:1 maximum. Maximum 2:1 slope within street right-of-way.
- 34. Submit design cross sections at 50' intervals where match up paving is proposed. Sections shall be at a scale of not less than 1"= 20' horizontal and 1" = 2' vertical and labeled clearly with existing and proposed cross slopes, elevations, and dimensions. Cross slopes to be in the range of 1% to 2% for driving lanes and 2% to 4% for shoulders. 2% driving lane and 6% shoulder absolute maximums. Cross slopes to be computed from lip of gutter. Butterfly sections (where driving lane is steeper than shoulder) are not permitted.
- 35. If both driving lane and shoulder have variable cross slopes, the 1/4 crown elevations to be shown on plan. 1/4 crown located 8 feet from curb face on all streets.
- 36. Show traffic index (T.I.) under typical sections. Residential T.I. = 5, Collector T.I. = 6, Secondary T.I. = 7 (T.I. = 8 if truck route), Major T.I. = 8 (T.I. = 9 if truck route), Primary T.I. = 9 (T.I. = 10 if truck route). Minimum street section = 3"AC/4"AB. The structural section for all streets shall be designed for a service life of 20 years as outlined in Chapter 600 of the Caltrans Highway Design Manual.
- 37. Barricade needed at temporary dead end streets.

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- 38. Widening flare at 2:1, narrowing flare at rate to be determined by the City Engineer, each from the curb face. Install a minimum of three F-2 delineators with 8"x 24" target plates 25 feet (typical) on center along outgoing taper.
- 39. 2" x 4" headers required at edges of paving that are not adjacent to gutters or existing paving, except for the tapers.
- 40. Block walls connected with backup lot treatment will be placed at the top of any slopes adjacent to the street. Backup walls to be outside of City right-of-way. Details of other than standard walls required on plans. Show height of wall on plan.
- 41. Check for existing sewer lateral and show and label any proposed or existing laterals. (Applies to projects where there are existing sewers.) Laterals to be built before paving.
- 42. Slope letter is needed if cut or fill at end or side of subdivision street adjacent to subdivision boundary extends onto private property.
- 43. Alley approaches, which drain a portion of an alley with a valley gutter, will be depressed at the rear of the approach. Show flow line elevation on plans.
- 44. Minimum 20-foot long by 2-foot wide by 2.5-inch thick A.C. drainage aprons required at downstream end of stub streets.
- 45. On all major street intersections (two or more major streets) 88 feet wide and greater, traffic signal conduit and pullboxes shall be shown on the plans even if no signals are being built at this time.
- 46. If project conditions require fencing, construction limits of required chain link fence, etc., to be shown on plans.
- 47. Sign locations and arrangement on sign posts shall be per City standards.
- 48. Signs shall be placed on light poles or power poles when possible to minimize the number of sign post installations.
- 49. Check existing signage adjacent to new improvements to avoid conflicts.
- 50. Show flow around tract on index map on title sheet, if necessary.
- 51. If flow is diverted from its existing course onto private property, a recorded drainage release letter from the affected property owners will be required.
- 52. Private engineer to use San Bernardino County method for drainage calculations (hydrology and H.G.L.). Assume ultimate upstream development.
- 53. Check to see if new street section will carry same flow as existing street section (critical where there is an existing ditch along street) without diverting flow across centerline.
- 54. $n = 0.020$ on residential streets (streets with driveways, parked cars, etc.) $n = 0.015$ on major streets (no driveways, little or no parking, etc.)

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- 55. Check calculations on non-standard box culverts, etc.
- 56. Drainage structures checked for capacity. Check hydraulic calculations submitted by engineer.
- 57. Note size, length and "D" strength for pipe (1350-D minimum). Minimum diameter pipe 18 inches.
- 58. Storm Drain Pipe shall be RCP unless otherwise approved by the City Engineer.
- 59. Underground storm drain systems and open channels shall be designed for a 100-year storm. Sump conditions require a secondary overland freeflow to prevent flooding of buildings should catch basin or storm drain system become blocked. A flowage easement is required for overland freeflow conditions
- 60. Ten-year storm to be carried between curbs and 100-year storm between right-of-way lines on all streets. Secondary, major and primary streets must have one driving lane clear in each direction in 10-year storms.
- 61. Grate catch basins not permitted.
- 62. Construct catch basins to minimize the number of cross gutters if there is a storm drain in the vicinity of an intersection.
- 63. A recorded drainage release letter needed if streets drain onto adjacent property owner's land.
- 64. Any block walls, ditches, etc., needed along tract boundary to prevent flooding (overland, from canals, etc.)? Show on plans.
- 65. Check at subdivision boundaries for any possible problems such as blocking drainage from or discharging drainage to adjacent land or conflict with existing or proposed improvements.
- 66. Check for possible ponding on streets and cross gutters and aprons.
- 67. For storm drains show H.G.L. and elevation of HGL to nearest 0.1' in profile. Show "Q" in streets, into catch basins and into storm drain system and designate Q₁₀₀. Show any flowby at catch basins. Show "Q" to the nearest 1 CFS.
- 68. Water surface elevations in catch basins minimum 6 inches below gutter flow line.
- 69. Check for cutoff walls, energy dissipators, etc., at outlets of storm drain systems. Also, headwalls, etc., at inlets.
- 70. No storm drain easements centered on property line and no storm drains located on property line. Minimum width storm drain easement 15 feet. Supplemental access easements may be required.
- 71. An encroachment permit is needed from San Bernardino County Flood Control District if connecting to a District drainage system.

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- 72. Label private drainage system as such. Inlets of private drainage systems to be equal to or above H.G.L. of public storm drain they connect to or if tying into a catch basin, equal to or above the top of curb of the catch basin.
- 73. If proposed construction will affect adjacent driveways in any way, a written concurrence from adjacent property owners is required.
- 74. No "stick on" labels on plan originals. Duplicate mylars shall have a minimum thickness of 3 mil.
- 75. Any supporting calculations or pertinent data that would be required to allow complete checking of the entire design development package (including but not limited to closure calculations for maps; hydrology and hydraulic calculations for storm drain studies, etc.) must be submitted with first check.
- 76. Show all street lights and label "x,xxx lumen street light.
- 77. Check storm drain against WQMP requirements.
- 78. Check Engineer's registration expiration date.
- 79. Show existing survey monuments.

FOR INFORMATION ONLY: Balance due on plan check fee must be paid prior to plan approval by City Engineer. Also, if R/W is required for the project, plans will not be approved until deeds are in and sent for recording.

The following notes must appear on the first sheet of the plan set.

GENERAL NOTES FOR STREET PLANS

1. All work shall be done in accordance with these plans, the Standard Drawings of the City of Highland and the County of San Bernardino, and the Greenbook Standard Specifications for Public Works Construction, latest edition.
2. It shall be the responsibility of the Contractor to familiarize himself with the job site and the location of all underground facilities shown or not show on these plans. The City of Highland will not be responsible for any damage to underground facilities..
3. It shall be the Contractor's responsibility to obtain all necessary permits.
4. It shall be the Contractor's responsibility to call the City Engineer's Office at **(909) 864-8732, ext. 240**, for inspection 24 hours prior to performing any work. Work performed without calling for inspection shall be rejected and shall be removed solely at the Contractor's expense.
5. Utility Contractors shall be responsible for obtaining compaction tests of all trench backfill and street subgrades and submitting them to the City Engineer for approval. Notify City Engineer's Office at **(909) 864-8732, ext. 240**, 24 hours prior to tests.

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6. The structural sections shown on these plans are tentative. At the completion of rough grading, a material report and the proposed structural section shall be submitted by the design engineer to the City Engineer for review and evaluation. Approval will be given when all structural section requirements prevailing at time of submittal have been met. Current minimum structural section is 3" AC over 4" Class II AB. It shall be the design engineer's responsibility to contact the City Engineer's office to obtain the latest structural section requirements.
7. Locations of driveway approaches shall be added to the precise grading plan if not on original street plans. Any water or sewer laterals constructed within driveway approaches shall be relocated at the Contractor's expense. Note that 4' of sidewalk at a 2% slope shall be maintained around drive approaches in accordance with State and Federal requirements.
8. The Contractor shall satisfy himself that estimated quantities shown are correct before bidding on any item.
9. The Contractor shall maintain dust control at all times. Work site and exterior streets shall be in a neat, clean, hazard free, orderly state throughout construction. Site shall be cleaned upon request of the inspector.
10. All existing pavement to be removed shall be sawcut or wheelcut and removed to clean straight lines.
11. At all locations where new pavement joins existing, the existing pavement shall be coated with an asphaltic emulsion.
12. The Contractor is responsible for the protection of all utility valves, boxes and covers, and adjusting of all water valve boxes and covers to finish grade.
13. The Contractor shall reset manhole rings to surrounding A.C. pavement grade.
14. The Private Engineer signing these plans is responsible for the accuracy and acceptability of the work hereon. In the event of discrepancies arising during construction, the Private Engineer shall be responsible for determining an acceptable solution and revising the plans for approval of the City Engineer.
15. The Contractor shall call in a location request to Underground Service Alert (USA), phone number 811, two working days before digging. No inspection will be provided by the City Engineer's office, and no construction permit issued involving excavation for underground facilities will be valid unless the applicant has been provided an inquiry identification number by USA.
16. All irrigation lines encountered during construction shall be replaced with 12 gauge minimum dipped and wrapped-welded steel pipe.
17. Approval of these plans by the City or its agents does not relieve the developer from the responsibility for the correction of errors and omissions discovered during construction. Upon request, the required plan revisions shall be promptly submitted to the City Engineer for approval.
18. When improvements are to be placed on native soil which consists of a rocky material, the sub-grade shall be prepared by removing all rocks which protrude above the sub-grade and all voids or depressions shall be filled with a fine grade material of a quality better than the native material.

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19. No work shall commence within public right of way without obtaining a Public Improvements Permit and notifying the City Inspector to schedule a preconstruction meeting 24-hours prior to start of work.
20. Asphalt concrete shall be spread and compacted in at least two lifts, with each lift no thicker than **2"**. The City prefers that the final lift not be placed prior to the completion of construction of the residences/buildings within the development. Should the developer choose to pave the full depth of A.C. pavement prior to the completion of building construction, no final inspection of the pavement surface shall be performed. Upon the completion of building construction, a final inspection of the pavement surface shall be performed and any noted deficiencies shall be repaired in accordance with the City's Pavement Repair Policy.
21. After all houses are constructed, **if the final lift was placed prior to completion of construction**, all streets within the tract shall be slurry sealed prior to final bond release or a cash payment made in lieu of slurry seal.
22. Two coats of paint shall be used for pavement striping and markings on local and collector streets. Thermoplastic shall be used on secondary highways, major highways, and primary arterials.
23. It shall be the responsibility of the developer to comply with the provisions of Section 8771 of the Business and Professions Code as amended by Assembly Bill 1414, with respect to all monuments (refer to Section 3).

PROFILE CHECKLIST

1. Show datum elevation at both ends of each street. Benchmark reference on each sheet.
2. Show horizontal and vertical scales.
3. Names and stationing of intersecting streets.
4. Label and show stations and elevations at the beginning and end of all curb returns, vertical curves, horizontal curves, transition sections, grade breaks and beginning and end of improvements.
5. Indicate length of curb returns and length of horizontal curves. Draw curb returns full length, not twice tangent distance. 1/4 delta points to be shown on all returns and elevations.
6. Label all grade lines and profiles. Also show size of curb face.
7. Profile of existing centerline with elevations at least every 50 feet (except for projects involving mass grading).
8. Profile of existing ground at property line (except for projects involving mass grading).
9. Profile of existing E.P. with elevations at least every 50 feet.
10. Show connection with or future design to existing improvements along with existing elevations. Show grade on existing improvements.

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- 11. Check profile of 1/4 crown if required. Show grade.
- 12. Grades of major and secondary streets should not exceed 6%. Residential streets shall not exceed 12% or as required by the Fire Department.
- 13. Check elevations shown in profile against those shown in the plan view.
- 14. Check difference between T.C. and centerline against what typical section shows.
- 15. Minimum centerline and top of curb grade is 1%, show grades in profile. If profile on existing street is less than 0.5%, engineer to have prior approval from the City Engineer. No new streets to have grades less than 1%.
- 16. Use vertical curves for all grade breaks in excess of 0.5% (Parabolic V.C.'s only). Do not use portions of vertical curves. Design speeds are 30 miles per hour for local, 45 miles per hour for collectors, 50 miles per hour for secondary and 55 miles per hour for majors.
- 17. Show tangent grades at PRVC or PCVC.
- 18. Show P.I. elevations on vertical curves.
- 19. Elevations every 25 feet on vertical curves (or fractional part thereof).
- 20. Check sight distance: (both horizontal and vertical). Intersections shall be designed in accordance with Caltrans 7-1/2 second Corner Sight Distance criteria.
Design Speeds: 30 mph - local streets
45 mph - collector streets
50 mph - secondary streets
55 mph - major streets
- 21. Show transition between different types of curbs.
- 22. Extend profiles beyond end of improvements as necessary to justify grades.
- 23. If future curb is to go over canal, etc., check to see there will be adequate clearance between bottom of curb and top of canal cover.
- 24. Use straight grades for cross gutters unless there are unusual circumstances.
- 25. Maximum 2.5% grade coming into cross gutter. P.I. for vertical curve to be minimum of 50 feet back from flow line of cross gutter. On streets where the grade is 5% or greater, a grade of 4.5% into the cross gutter is acceptable.
- 26. Curb returns to be designed by plane method of top of curb. Show P.I. and elevations. Show tangent grades if different from T.C. grades.
- 27. Absolute minimum fall around or away from curb returns shall be 1%. Vary curb face if necessary. (Hold the T.C. elevations and vary the flow line.)
- 28. Show profile going into and out of return with grades.
- 29. Check shoulder around curb returns for excessive slope (maximum 6%).
- 30. Check through streets for driveability.
- 31. Show structures to scale (catch basins, etc.). Note critical flow line elevations.

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- 32. Show and label any existing or proposed underground construction that may conflict or enter into the design of the proposed improvements.
- 33. Show existing or proposed flow coming into and going out of new improvements.
- 34. Check for flat spots at high and low points of vertical curves. Vary curb face height to provide minimum flow line grade of 0.5% (vary the flow line, hold the T.C.).
- 35. Use variable curb face height on cul-de-sacs, knuckles, etc., to help alleviate flat slopes. Minimum flow line grade is 1%. Maximum street grade into gutter at back of cul-de-sac shall not exceed 3%. On flat cul-de-sacs with a 0.5% grade in cul-de-sac high-point, omit vertical curve at cul-de-sac high point.
- 36. If curbs are variable height, show T.C. and F.L. elevations and curb height. Show flow line profile with grade.
- 37. Check for car dragging going into driveway or alley. Grade for a residential driveway shall not exceed 12%. Submit a profile for each existing driveway showing existing and proposed elevations, grades, and dimensions of transition for match up. Clearly specify the limits and elevations of the transition on the plan.
- 38. On "grading to drain" situations, check for sufficient elevations and stations to allow grading to be done (critical where grading is to be done in flat area).
- 39. Propose grade checked against City plans, if any.
- 40. All plans must be complete within themselves and not contingent on future or adjacent construction.
- 41. On curb inlets or outlets, the top of the curb remains constant with the flow line varying up or down to allow for the facility. Minimum flow line grade is 1%.
- 42. Where the property being developed is below the level of the street, a driveway profile is required to show that 100-year street flows will not enter onto private property by way of the driveway.
- 43. A minimum velocity of 3 feet per second flowing half full shall be maintained in permanent closed conduit storm drains.
- 44. A minimum slope of 1% shall be used for permanent storm drains. If a 1% slope is not possible due to existing constraints, obtain prior approval from the City Engineer.
- 45. Check storm drain against WQMP requirements.

(Green Pages)

inserted here

NOT FOR BID

LIST OF STANDARD AND SPECIAL DRAWINGS (GREEN PAGES)

NOTICE TO RESIDENTS (ENGLISH/SPANISH)

LOCATION MAP

TYPICAL SECTIONS (Sheet 1 of 2)

TYPICAL SECTIONS (Sheet 2 of 2)

ROAD TABLE – PHASE I

ATTACHMENT 1 – SIDEWALK REPLACEMENT

STRIPING AND PAVEMENT MARKING LOCATIONS (TABLE) – 13 Sheet

CALTRANS STANDARD PLANS 2018

A20A	A20B	A20D	A24A
A24C	A24D	A24E	A24F
T9	T10	T11	T13

CALIFORNIA 2014 MUTCD (PROVISION 6)

FIGURE 3B-102(CA)	FIGURE 3F-101(CA)	FIGURE 3H-101(CA)
FIGURE 6H-28	FIGURE 6H-29	SECTION 6D.01
SECTION 6D.02		



NOTICE TO THE RESIDENTS OF Citrus Street and Other Roads

The County of San Bernardino Department of Public Works has contracted with (Company name) for the (type of work) of (name of road) in the (city) area. The construction shall include (detailed description of work).

This work will be performed between the dates of (start date) and (end date).

Normal working hours will be between the hours of _____ A.M. and _____ P.M. Monday through Friday.

There will be "No Parking Signs" posted on your street indicating the specific dates work will be performed on the street. During the time we are working, access to the public will be limited and we ask the following:

1. Do not park your vehicles on the roadway
2. Do not allow water to run on the roadway
3. Do not allow children to play in the roadway
4. Do not place trash cans or other debris on the roadway

We regret any inconvenience that this work may cause you and we thank you for your cooperation in assisting us in rebuilding your street.

Thank you.

(Company name)

(Company contact name)

(Company phone number)

If you need further assistance contact the Department of Public Works at (909) 387-7920



NOTIFICACIÓN A LOS RESIDENTES DE Citrus Street and Other Roads

El Condado de San Bernardino, Departamento de Obras Públicas, a contratado con (Company name) para (type of work) la calle llamada (name of road) en la ciudad de (city). La construcción va a incluir (detailed description of work).

Este trabajo será hecho entre la fecha de (start date) y (end date). Las horas elegidas para hacer este trabajo serán entre las _____ de la mañana y _____ de la tarde de lunes a viernes.

Habrà letreros indicando que "No Habrà Estacionamiento" en la calle y especificando el horario cuando el trabajo será hecho. Durante el tiempo que estaremos trabajando en la calle, la entrada para el público será limitada y por esta razón pedimos lo siguiente:

1. No estacionen sus vehículos en la calle.
2. No permita que corre el agua hacia la calle.
3. No permita que los niños jueguen en la calle.
4. No ponga los botes de basura o cualquier otra basura en la calle.

Lamentamos la inconveniencia que causara este trabajo y les agradecemos por su cooperación y asistencia en el mejoramiento de su calle.

Muchas Gracias.

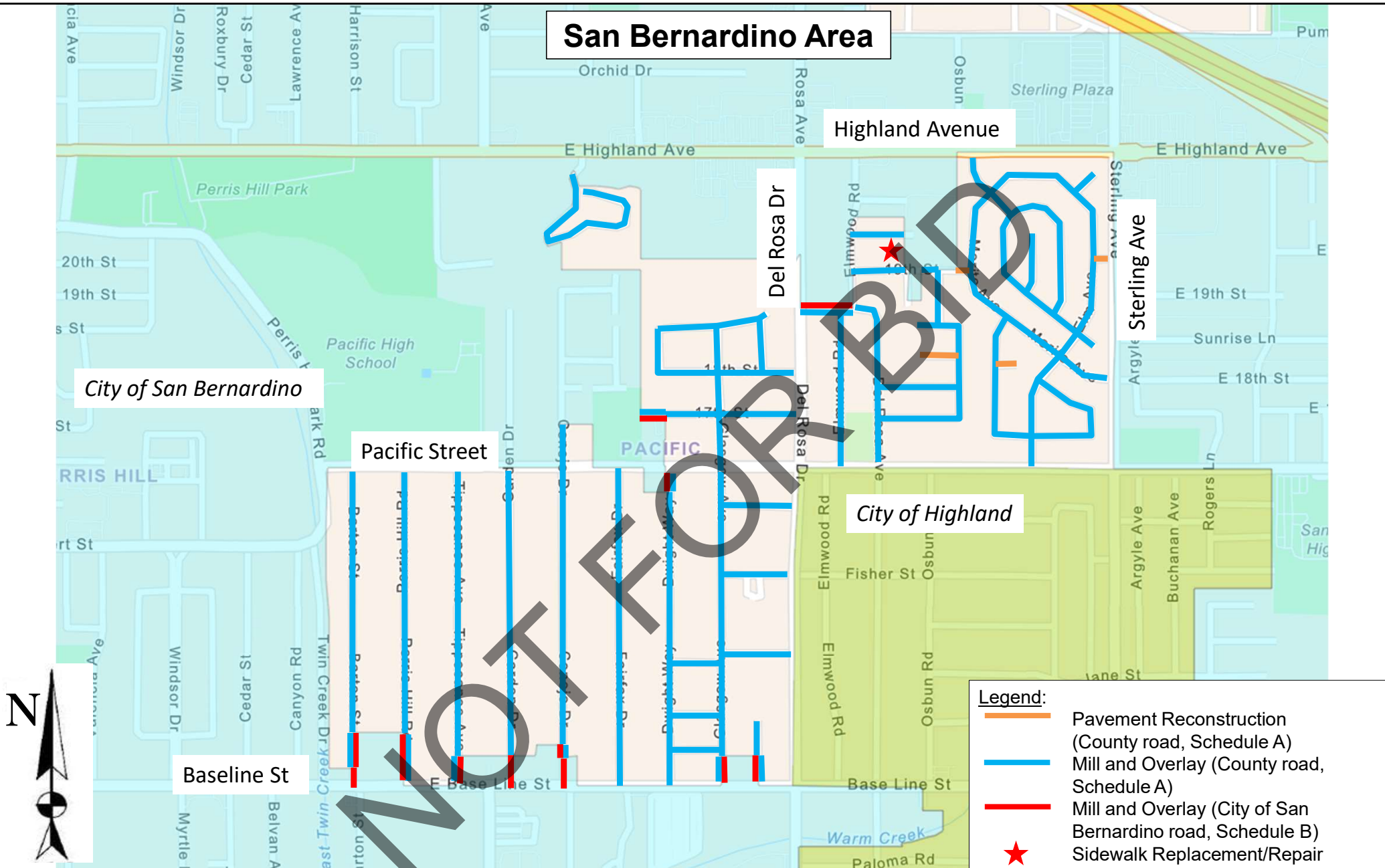
(Company name)

(Company contact name)

(Company phone number)

Si necesita asistencia favor de hablar al Departamento de Obras Publicas, (909) 387-7920.

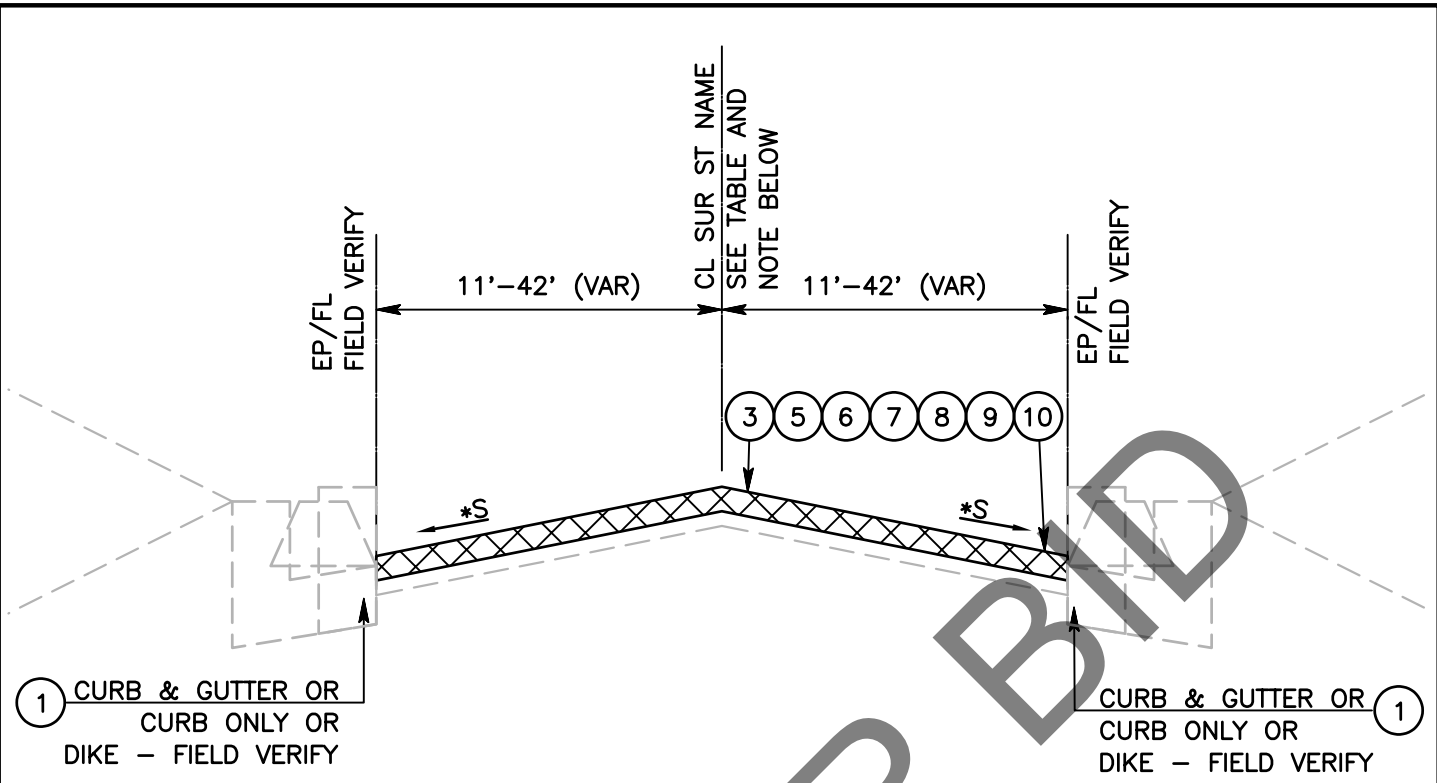
San Bernardino Area



SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
DISTRICT 5
Yard 5
W.O. H15161



LOCATION MAP
CITRUS STREET AND OTHER ROADS (PHASE I)
Various Roads/Limits
Pavement Reconstruction, Mill and Overlay, Sidewalk Replacement/Repair



TYPICAL SECTION

NOT TO SCALE

*S = SLOPE VARIES; MATCH EXISTING

○ CONSTRUCTION NOTES

- 1 PROTECT IN PLACE
- 3 PULVERIZE A DEPTH OF 0.42' OF EXISTING AC WITH AB AND NATIVE AND STACK PILE
- 5 EXCAVATE AND REMOVE ADDITIONAL 0.25' OF NATIVE
- 6 PLACE AND SPREAD 0.42' PULVERIZED MATERIAL AND ADD 2% CEMENT AND COMPACT AT 95% RC (AB)
- 7 APPLY PRIME COAT ON COMPACTED PULVERIZED MATERIAL
- 8 PLACE 0.13' TYPE A, 1/2" AGGREGATE GRADATION (AG), PG64-10 HMA
- 9 APPLY TACK COAT
- 10 PLACE 0.12' TYPE G, 1/2" AG, PG 64-16 RHMA-G

ROAD NAME	GROUP
4 NINETEENTH STREET	B
13 CROSS STREET	D
30 GOLONDRINA	D
40 NINETEENTH STREET	D

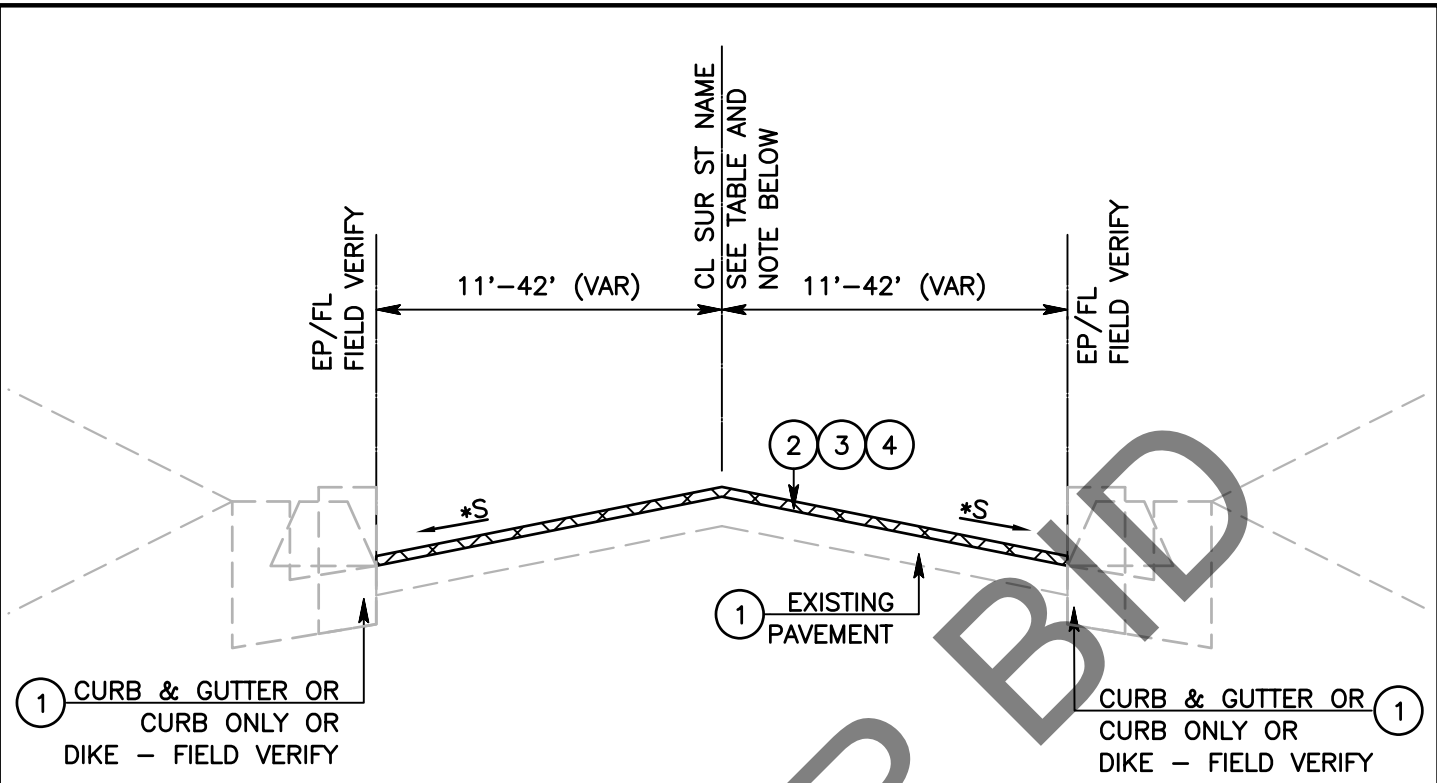
IMPORTANT NOTE:

CONTRACTOR'S ATTENTION IS DIRECTED TO ROAD TABLE (SHEET 5 OF 5) FOR ROAD GROUPS, NAMES, LIMITS, LENGTH, TREATMENT TYPE, WIDTH AND AREA

MANHOLES SHALL BE COLD PLANED AND FEATHERED FOR SMOOTH TRANSITION MEETING THE PROPOSED AC PAVEMENT SURFACE ABOUT 2 FEET FROM AND AROUND THE MANHOLE RIM AND AS DIRECTED BY THE ENGINEER

W.O. H15161

SAN BERNARDINO COUNTY TRANS. DEPT.	TYPICAL SECTION	SHEET 1 OF 2
DESIGN DIVISION		



TYPICAL SECTION

NOT TO SCALE

*S = SLOPE VARIES; MATCH EXISTING

CONSTRUCTION NOTES

- 1 PROTECT IN PLACE
- 2 MILL ROAD SURFACE FOR DEPTH OF 0.1' - 0.15' THK
- 3 APPLY TACK COAT
- 4 PLACE 0.10' - 0.15' THK (VARIES, SEE SHEET 5 OF 5) OF RHMA

ROAD NAME	GROUP	TREATMENT
SEE ROAD TABLE	D	4

IMPORTANT NOTE:

CONTRACTOR'S ATTENTION IS DIRECTED TO ROAD TABLE (SHEET 5 OF 5) FOR ROAD GROUPS, NAMES, LIMITS, LENGTH, TREATMENT TYPE, WIDTH AND AREA

MANHOLES SHALL BE COLD PLANED AND FEATHERED FOR SMOOTH TRANSITION MEETING THE PROPOSED AC PAVEMENT SURFACE ABOUT 2 FEET FROM AND AROUND THE MANHOLE RIM AND AS DIRECTED BY THE ENGINEER

W.O. H15161

SAN BERNARDINO COUNTY TRANS. DEPT.		TYPICAL SECTION	SHEET
DESIGN DIVISION			

ATTACHMENT 1 – SIDEWALK REPLACEMENT LOCATIONS

Address	Sidewalk Replacement (Y/N)	Tree Removal (Y/N)	Curb and Gutter Replacement (Y/N)
1775 20th St	Y, 63 Sq Ft	N	N

NOT FOR BID

Note: The contractor shall take all necessary measurements and photos of all existing traffic control devices including stripes, pavement markings, and channelizers prior to their removal. The purpose for measurements and photos is to establish a record of existing traffic control devices. The record shall be used for repainting and applying traffic stripes and pavement markings. The pavement markings and traffic striping shall be repainted and applied per as directed by the engineer and per the "Paint Pavement Markings sections of these Special Provisions.

Provide centerline and edge line breaks at all listed intersections as directed by Engineers.

**1. ANSON STREET – (GLASGOW AVE E .08M)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	GLASGOW AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.004	0.000	E, GLASGOW AVE
Pavement Marking	STOP	WB	0.007	0.000	E, GLASGOW AVE
0	END TCD INVENTORY RTE		0.080	0.000	END,MAINT

**2. BARTON STREET – (.03M N,BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Pavement Marking	STOP	NB	0.466	0.000	S,PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.469	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.477	0.000	PACIFIC ST-END

**3. BESSANT STREET – (DWIGHT WY E/GLASGOW AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DWIGHT WAY-BEG
Pavement Marking	12" White Limit Line	WB	0.004	0.000	E, DWIGHT WAY
Pavement Marking	STOP	WB	0.007	0.000	E, DWIGHT WAY
Pavement Marking	STOP	EB	0.077	0.000	W, GLASGOW AVE
Pavement Marking	12" White Limit Line	EB	0.078	0.000	W, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.080	0.000	GLASGOW AVE-END

**4. BESSANT STREET – (GLASGOW AVE E/DEL ROSA DR)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	GLASGOW AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.003	0.000	E, GLASGOW AVE
Pavement Marking	STOP	WB	0.005	0.000	E, GLASGOW AVE
Pavement Marking	STOP	EB	0.105	0.000	W, DEL ROSA DR
Pavement Marking	12" White Limit Line	EB	0.108	0.000	W, DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN	NS	0.116	0.000	DEL ROSA DR-END

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
TRAFFIC DIVISION	
PREP. BY: SL/JHC	DATE: 5/16/2023
AREA: DEL	YARD: 05
Phase I – TCD table - Page 1 of 13	

**5. CONEJO DRIVE – (ST .05M N,BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Pavement Marking	STOP	NB	0.449	0.000	S,PACIFIC ST-HIST 013
Pavement Marking	12" White Limit Line	NB	0.452	0.000	S,PACIFIC ST-HIST 013
Intersection	CO MAINT ROAD-ISECTN	EW	0.460	0.000	PACIFIC ST-END

**6. CONEJO DRIVE – (PACIFIC ST N .10M)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 013**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN	EW	0.000	0.000	PACIFIC ST-BEG
Pavement Marking	12" White Limit Line	SB	0.006	0.000	N,PACIFIC ST-HIST 013
Pavement Marking	STOP	SB	0.008	0.000	N,PACIFIC ST-HIST 013
0	END TCD INVENTORY RTE		0.100	0.000	END,MAINT-SBO CL

**7. CROSS STREET – (.04M W,OSBUN RD E/OSBUN RD)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN	NS	0.050	0.000	OSBUN RD-END

NOT FOR BIDDING

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**8. DEL ROSA AVENUE – (PACIFIC ST N/DEL ROSA DR)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 060**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PACIFIC ST-BEG
Pavement Marking	YEL X-WALK W HATCHES 90DEG-24" (LADDER)	PN	0.007	0.000	N, PACIFIC STREET
¹ Detail 21	NO PASSING DOUBLE YELLOW	NS	0.010	0.203	PACIFIC ST N/385FT N,18TH ST
Pavement Marking	STOP	SB	0.012	0.000	N,PACIFIC ST-SIGNAL
Pavement Marking	STOP AHEAD	SB	0.045	0.000	238FT N,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.079	0.000	17TH ST
¹ Detail 27B	6" WHITE RIGHT EDGE LINE	NB	0.084	0.288	17TH STREET N ELMWOOD N LEG
Intersection	CO MAINT ROAD-ISECTN		0.128	0.000	18TH ST
¹ Detail 22	NO PASSING DOUBLE YELLOW W/RPM	NS	0.203	0.368	385FT N,18TH ST N/DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.292	0.000	ELMWOOD RD-N LEG
Detail 12	6" WHITE LANE LINE 45MPH > W/RPMS	NS	0.296	0.339	W, ELMWOOD N LEG W 227FT
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.310	0.000	ELMWOOD RD-S LEG
Detail 38	8" WHITE CHANNELIZING LINE W/RPMS	NS	0.339	0.368	190FT E,DEL ROSA DR W 150FT
Pavement Marking	TYPE IV LEFT TURN ARROW	WB	0.339	0.000	190FT E,DEL ROSA DR
Pavement Marking	TYPE IV RIGHT TURN ARROW	WB	0.339	0.000	190FT E,DEL ROSA DR
Pavement Marking	TYPE IV LEFT TURN ARROW	WB	0.352	0.000	120FT E,DEL ROSA DR
Pavement Marking	TYPE IV RIGHT TURN ARROW	WB	0.352	0.000	120FT E,DEL ROSA DR
Pavement Marking	TYPE IV LEFT TURN ARROW	WB	0.365	0.000	E,DEL ROSA DR
Pavement Marking	TYPE IV RIGHT TURN ARROW	WB	0.365	0.000	E,DEL ROSA DR
Pavement Marking	WHITE CROSSWALK	PE	0.368	0.000	E,DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.375	0.000	DEL ROSA DR-END

¹ Provide centerline and edgeline breaks at listed intersections.

**9. DWIGHT WAY – (BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N,BASELINE
Pavement Marking	STOP	SB	0.009	0.000	N,BASELINE
Intersection	CO MAINT ROAD-ISECTN		0.056	0.000	ELMO DR
Intersection	CO MAINT ROAD-ISECTN		0.112	0.000	INDEPENDENT PL
Intersection	CO MAINT ROAD-ISECTN		0.194	0.000	BESSANT ST
Pavement Marking	STOP	NB	0.494	0.000	S,PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.496	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.500	0.000	PACIFIC ST-END

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**10. DWIGHT WAY – (18TH ST N/19TH ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	18TH ST-BEG
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.070	0.000	19TH ST-END

**11. EIGHTEENTH STREET – (DWIGHT WAY E/DEL ROSA DR DEL)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DWIGHT WAY-BEG
Pavement Marking	STOP	EB	0.088	0.000	W, GLASGOW AVE
Pavement Marking	12" White Limit Line	EB	0.091	0.000	W, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.095	0.000	GLASGOW AVE
Pavement Marking	12" White Limit Line	WB	0.099	0.000	E, GLASGOW AVE
Pavement Marking	STOP	WB	0.101	0.000	E, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.165	0.000	YATES AVE
Pavement Marking	STOP	EB	0.219	0.000	W, DEL ROSA DR
Pavement Marking	12" White Limit Line	EB	0.222	0.000	W, DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN		0.226	0.000	DEL ROSA DR-END

**12. EIGHTEENTH STREET – (DEL ROSA AVE E/OSBUN RD)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DEL ROSA AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.004	0.000	E, DEL ROSA AVE
Pavement Marking	STOP	WB	0.006	0.000	E, DEL ROSA AVE
Intersection	CO MAINT ROAD-ISECTN		0.130	0.000	OSBUN RD-END

**13. ELM COURT – (ELM NE/END)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ELM ST-BEG
Pavement Marking	12" White Limit Line	WB	0.006	0.000	E, ELM AVENUE
Pavement Marking	STOP	WB	0.007	0.000	E, ELM AVENUE
0	END TCD INVENTORY RTE		0.040	0.000	END, MAINT

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**14. ELM AVE – (PACIFIC ST NLY/MERITO PL)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 040**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PACIFIC ST-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N,PACIFIC ST
Pavement Marking	STOP	SB	0.009	0.000	N,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.052	0.000	PASITO ST
Intersection	CO MAINT ROAD-ISECTN		0.141	0.000	SERENA ST
Pavement Marking	STOP	NB	0.182	0.000	S,MERITO AVENUE
Pavement Marking	12" White Limit Line	NB	0.186	0.000	S,MERITO AVENUE
Intersection	CO MAINT ROAD-ISECTN		0.190	0.000	MERITO AVE
Pavement Marking	12" White Limit Line	SB	0.193	0.000	N,MERITO AVENUE
Pavement Marking	STOP	SB	0.195	0.000	N,MERITO AVENUE
Intersection	CO MAINT ROAD-ISECTN		0.238	0.000	ROCA CIR
Intersection	CO MAINT ROAD-ISECTN		0.363	0.000	19TH ST
Intersection	CO MAINT ROAD-ISECTN		0.479	0.000	ELM CT
Pavement Marking	STOP	WB	0.630	0.000	E,MERITO PLACE
Pavement Marking	12" White Limit Line	WB	0.632	0.000	E,MERITO PLACE
Intersection	CO MAINT ROAD-ISECTN		0.636	0.000	MERITO PL-END

**15. ELMO DRIVE – (DWIGHT WAY E/GLASGOW AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DWIGHT WAY-BEG
Pavement Marking	12" White Limit Line	WB	0.003	0.000	E, DWIGHT WAY
Pavement Marking	STOP	WB	0.007	0.000	E, DWIGHT WAY
Pavement Marking	STOP	EB	0.074	0.000	W, GLASGOW AVE
Pavement Marking	12" White Limit Line	EB	0.077	0.000	W, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.081	0.000	GLASGOW AVE-END

**16. ELMWOOD ROAD – (PACIFIC ST N/DEL ROSA AVE .03M)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 040**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PACIFIC ST-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N, PACIFIC ST
Pavement Marking	STOP	SB	0.009	0.000	N, PACIFIC ST
Pavement Marking	STOP	NB	0.243	0.000	S, DEL ROSA AVE
Pavement Marking	12" White Limit Line	NB	0.246	0.000	S, DEL ROSA AVE
Intersection	CO MAINT ROAD-ISECTN		0.251	0.000	DEL ROSA AVE-END

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**17. FAIRFAX DRIVE – (BASE LINE N .06)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.006	0.000	N,BASELINE
Pavement Marking	STOP	SB	0.008	0.000	N,BASELINE
0	END TCD INVENTORY RTE		0.060	0.000	316FT N,BASE LINE-END

**18. FAIRFAX DRIVE – (.06M N,BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 013**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	316FT N,BASE LINE-BEG
Pavement Marking	STOP	NB	0.433	0.000	S,PACIFIC ST
Pavement Marking	YELLOW CROSSWALK (BASIC)	NS	0.436	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.449	0.000	PACIFIC ST-END

**19. FISHER STREET – (GLASGOW AVE E/DEL ROSA DR)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	GLASGOW AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.003	0.000	E, GLASGOW AVE
Pavement Marking	STOP	WB	0.006	0.000	E, GLASGOW AVE
Pavement Marking	STOP	EB	0.105	0.000	W,DEL ROSA DR
Pavement Marking	12" White Limit Line	EB	0.108	0.000	W,DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN	NS	0.115	0.000	DEL ROSA DR-END

**20. GARDEN DRIVE – (.06M N,BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE	NS	0.000	0.000	245FT N,BASELINE ST-BEG
Pavement Marking	STOP	NB	0.430	0.000	S,PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.433	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.440	0.000	PACIFIC ST-END MAINT. SB CL

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**21. GLASGOW AVENUE – (BASE LINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N,BASELINE
Pavement Marking	STOP	SB	0.009	0.000	N,BASELINE
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.058	0.000	ELMO DR
Intersection	CO MAINT ROAD-ISECTN		0.113	0.000	INDEPENDENT PL
Intersection	CO MAINT ROAD-ISECTN		0.195	0.000	BESSANT ST-W LEG
Intersection	CO MAINT ROAD-ISECTN		0.211	0.000	BESSANT ST-E LEG
Intersection	CO MAINT ROAD-ISECTN		0.336	0.000	FISHER ST
Intersection	CO MAINT ROAD-ISECTN		0.446	0.000	ANSON ST
Pavement Marking	STOP	NB	0.493	0.000	S,PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.497	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN	EW	0.504	0.000	PACIFIC STREET-END

**22. GLASGOW AVENUE – (PACIFIC ST N/NINETEENTH ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PACIFIC ST-BEG
Pavement Marking	12" White Limit Line	SB	0.012	0.000	N,PACIFIC ST
Pavement Marking	STOP	SB	0.014	0.000	N,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.088	0.000	17TH ST
Intersection	CO MAINT ROAD-ISECTN		0.159	0.000	18TH ST
Intersection	CO MAINT ROAD-ISECTN		0.228	0.000	NINETEENTH ST-END

**23. GOLONDRINA COURT – (GOLONDRINA DR E/END)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	GOLONDRINA DR-BEG
0	END TCD INVENTORY RTE		0.030	0.000	END,MAINT

**24. GOLONDRINA DRIVE – (PASITO ST N/MERITO AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 030**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PASITO ST-BEG
Intersection	CO MAINT ROAD-ISECTN		0.113	0.000	GOLONDRINA CT
Pavement Marking	STOP	NB	0.187	0.000	S,MERITO AVE
Pavement Marking	12" White Limit Line	NB	0.190	0.000	S,MERITO AVE
Intersection	CO MAINT ROAD-ISECTN		0.195	0.000	MERITO AVE-END

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**25. INDEPENDENT PLACE – (DWIGHT WAY E/GLASGOW AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DWIGHT WAY-BEG
Pavement Marking	12" White Limit Line	WB	0.003	0.000	E, DWIGHT WAY
Pavement Marking	STOP	WB	0.005	0.000	E, DWIGHT WAY
Pavement Marking	STOP	EB	0.074	0.000	W, GLASGOW AVE
Pavement Marking	12" White Limit Line	EB	0.078	0.000	W, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.081	0.000	GLASGOW AVE-END

**26. MERITO AVENUE – (STERLING NLY/MERITO PL)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	STERLING AVE-BEG
Pavement Marking	12" White Limit Line	EB	0.007	0.000	W,STERLING AVE
Pavement Marking	STOP	EB	0.009	0.000	W,STERLING AVE
Intersection	CO MAINT ROAD-ISECTN		0.096	0.000	ELM AVE
Intersection	CO MAINT ROAD-ISECTN		0.202	0.000	GOLONDRINA DR
Intersection	CO MAINT ROAD-ISECTN		0.296	0.000	NINETEENTH ST
Pavement Marking	STOP	NB	0.422	0.000	S, MERITO PLACE
Pavement Marking	12" White Limit Line	NB	0.425	0.000	S, MERITO PLACE
Intersection	CO MAINT ROAD-ISECTN		0.429	0.000	MERITO PL-END

**27. MERITO PLACE – (ROCA CIRCLE N/HIGHLND SH30)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ROCA CIRCLE-PRADERA AVE-BEG
Intersection	CO MAINT ROAD-ISECTN		0.048	0.000	MERITO AVE
Intersection	NON-MAINT ROAD-CO		0.108	0.000	HIGHLAND OHS
Pavement Marking	STOP	NB	0.108	0.000	S, HIGHLAND AVE
Pavement Marking	12" White Limit Line	NB	0.110	0.000	S, HIGHLAND AVENUE
Intersection	STATE HIGHWAY-ISECTN		0.120	0.000	HIGHLAND SH 30-END

**28. MITAD COURT – (ROCA CIRCLE N/END)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ROCA CIRCLE-BEG
0	END TCD INVENTORY RTE		0.090	0.000	END, MAINT

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**29. MONTE VISTA DRIVE – (END N/0004M S,HIGHLAND AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
0	END TCD INVENTORY RTE		0.360	0.000	END,MAINT

**30. NILES STREET – (END E/OSBUN)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Intersection	CO MAINT ROAD-ISECTN		0.036	0.000	OSBUN RD-N LEG
Intersection	CO MAINT ROAD-ISECTN		0.060	0.000	OSBUN RD-S LEG-END

**31. NINETEENTH STREET – (DWIGHT E/YATES)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DWIGHT WAY-BEG
Intersection	CO MAINT ROAD-ISECTN		0.098	0.000	GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.166	0.000	YATES AVE-END

**32. NINETEENTH STREET – (ELMWOOD RD E/SAN BDNO CL)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ELM WOOD RD
0	END TCD INVENTORY RTE		0.080	0.000	END,MAINT

**33. NINETEENTH STREET – (.03M W, OSBUN RD E/OSBUN RD)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 025**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Intersection	CO MAINT ROAD-ISECTN		0.030	0.000	OSBUN RD-END

**34. NINETEENTH STREET – (END E/MERITO)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 030**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Pavement Marking	STOP	EB	0.015	0.000	W,MERITO AVE
Pavement Marking	12" White Limit Line	EB	0.018	0.000	W,MERITO AVE
Intersection	CO MAINT ROAD-ISECTN		0.024	0.000	MERITO AVE-END

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**35. NINETEENTH STREET – (ELM E/STERLING)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 040**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ELM AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.005	0.000	E,ELM AVENUE
Pavement Marking	STOP	WB	0.007	0.000	E,ELM AVENUE
Pavement Marking	STOP	EB	0.023	0.000	W,STERLING AVE
Pavement Marking	12" White Limit Line	EB	0.027	0.000	W,STERLING AVE
Intersection	CO MAINT ROAD-ISECTN		0.030	0.000	STERLING AVE-END

**36. OSBUN ROAD – (SEVENTEENTH ST N/NILES ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	17TH ST-BEG
Intersection	CO MAINT ROAD-ISECTN		0.049	0.000	18TH ST
Intersection	CO MAINT ROAD-ISECTN		0.098	0.000	CROSS ST
Intersection	CO MAINT ROAD-ISECTN		0.147	0.000	NILES ST-END

**37. OSBUN ROAD – (NILES ST N .02M)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 030**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	NILES ST-BEG
0	END TCD INVENTORY RTE		0.020	0.000	END,MAINT

**38. OSBUN ROAD – (.02M N, NILES ST N/NINETEENTH ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 035**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Intersection	CO MAINT ROAD-ISECTN		0.060	0.000	19TH ST

**39. PASITO STREET – (GOLONDRINA E/SERENA)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	GOLONDRINA DR-BEG
Pavement Marking	STOP	EB	0.054	0.000	W, ELM AVE
Pavement Marking	12" White Limit Line	EB	0.057	0.000	W, ELM AVE
Intersection	CO MAINT ROAD-ISECTN		0.061	0.000	ELM AVE
Pavement Marking	12" White Limit Line	WB	0.063	0.000	E, ELM AVE
Pavement Marking	STOP	WB	0.065	0.000	E, ELM AVE
Intersection	CO MAINT ROAD-ISECTN		0.150	0.000	SERENA ST-END

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**40. PERRIS HILL ROAD – (BASELINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N, BASELINE ST
Pavement Marking	STOP	SB	0.009	0.000	N, BASELINE ST
Pavement Marking	STOP	NB	0.490	0.000	S,PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.493	0.000	S,PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.500	0.000	PACIFIC ST-END

**41. PRADERA AVENUE – (ROCA CIRCLE N/METRITO)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ROCA CIRCLE-BEG
Intersection	CO MAINT ROAD-ISECTN		0.240	0.000	MERITO PL-END

**42. ROCA CIRCLE – (END N/MERITO PL)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG,MAINT
Pavement Marking	STOP	WB	0.023	0.000	E,ELM AVENUE
Pavement Marking	12" White Limit Line	WB	0.026	0.000	S,ELM AVENUE
Intersection	CO MAINT ROAD-ISECTN		0.037	0.000	ELM AVE
Pavement Marking	12" White Limit Line	SB	0.042	0.000	N,ELM AVENUE
Pavement Marking	STOP	SB	0.044	0.000	N,ELM AVENUE
Intersection	CO MAINT ROAD-ISECTN		0.085	0.000	PRADERA AVE
Intersection	CO MAINT ROAD-ISECTN		0.141	0.000	MITAD COURT
Intersection	CO MAINT ROAD-ISECTN		0.280	0.000	MERITO PL-END

**43. SERENA STREET – (PASITO N&NW/ELM AVE)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	PASITO AVE-BEG
Pavement Marking	STOP	WB	0.133	0.000	E,ELM AVENUE
Pavement Marking	12" White Limit Line	WB	0.136	0.000	E,ELM AVENUE
Intersection	CO MAINT ROAD-ISECTN		0.140	0.000	ELM AVE-END

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**44. SEVENTEENTH STREET – (0013M W, GLASGOW AVE E/DEL ROSA D)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
0	BEGINNING OF TCD INVENTORY RTE		0.000	0.000	BEG, MAINT
Pavement Marking	STOP	EB	0.120	0.000	W, GLASGOW AVE
Pavement Marking	12" White Limit Line	EB	0.123	0.000	W, GLASGOW AVE
Intersection	CO MAINT ROAD-ISECTN		0.127	0.000	GLASGOW AVE
Pavement Marking	12" White Limit Line	WB	0.131	0.000	E, GLASGOW AVE
Pavement Marking	STOP	WB	0.133	0.000	E, GLASGOW AVE
Pavement Marking	STOP	EB	0.246	0.000	W, DEL ROSA DR
Pavement Marking	12" White Limit Line	EB	0.248	0.000	W, DEL ROSA DR
Intersection	CO MAINT ROAD-ISECTN		0.252	0.000	DEL ROSA DR-END

**45. SEVENTEENTH STREET – (DEL ROSA E/OSBUN)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 020**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	DEL ROSA AVE-BEG
Pavement Marking	12" White Limit Line	WB	0.004	0.000	E, DEL ROSA AVE
Pavement Marking	STOP	WB	0.008	0.000	E, DEL ROSA AVE
Intersection	CO MAINT ROAD-ISECTN		0.130	0.000	OSBUN RD-END

**46. TIPPECANOE AVENUE – (BASELINE N/PACIFIC ST)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 060**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N, BASELINE
Pavement Marking	STOP	SB	0.009	0.000	N, BASELINE
Pavement Marking	STOP	NB	0.499	0.000	S, PACIFIC ST
Pavement Marking	12" White Limit Line	NB	0.501	0.000	S, PACIFIC ST
Intersection	CO MAINT ROAD-ISECTN		0.508	0.000	PACIFIC ST-END

**47. TWENTIETH STREET – (ELMWOOD AVE E 0009M)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	ELMWOOD RD-BEG
0	END TCD INVENTORY RTE		0.090	0.000	END, MAINT-SBO CL

**48. YATES AVENUE – (EIGHTEENTH N/NINETEENTH)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN		0.000	0.000	18TH ST-BEG
Intersection	CO MAINT ROAD-ISECTN		0.087	0.000	19TH ST-END

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**49. YATES STREET – (BASELINE N/END)
STRIPING AND PAVEMENT MARKING LOCATIONS – SEQUENCE 010**

TCD TYPE	DESCRIPTION	DIR	START	END	REMARKS
Intersection	CO MAINT ROAD-ISECTN	ZZ	0.000	0.000	BASE LINE-BEG
Pavement Marking	12" White Limit Line	SB	0.007	0.000	N,BASELINE ST
Pavement Marking	STOP	SB	0.009	0.000	N, BASELINE ST
0	END TCD INVENTORY RTE		0.100	0.000	END,MAINT

NOT FOR BID

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
TRAFFIC DIVISION	
PREP. BY: SL/JHC	DATE: 5/16/2023
AREA: DEL	YARD: 05
Phase I – TCD table - Page 13 of 13	

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Alta Ezzou
REGISTERED CIVIL ENGINEER

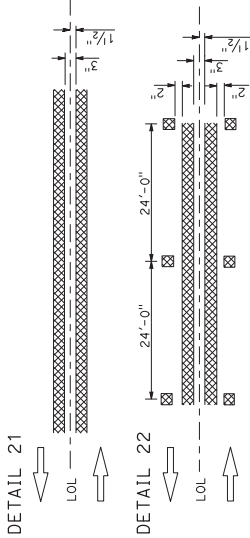
MAY 31, 2018
EXPIRES DATE

Alta Ezzou
No. CB0402
Exp. 3-31-19
CIVIL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER

THE STATE OF CALIFORNIA
BY APPOINTMENT
ON BEHALF OF THE BOARD OF CIVIL ENGINEERS
THIS SEAL SHALL NOT BE RESPONSIBLE FOR
THE CONTENTS OF THIS PLAN SHEET.

NO PASSING ZONES-TWO DIRECTION

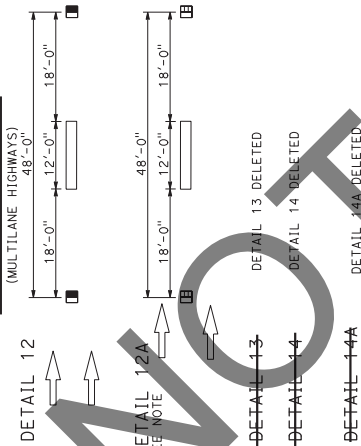


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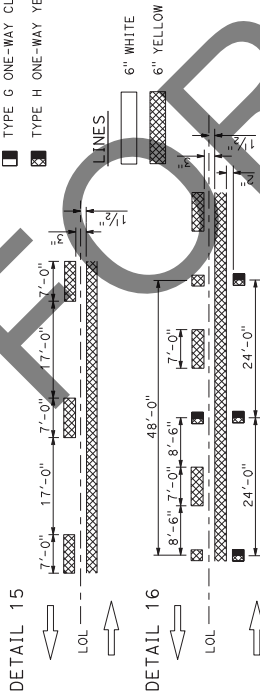
LEGEND
MARKERS

- TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE

LANELINES (Cont)

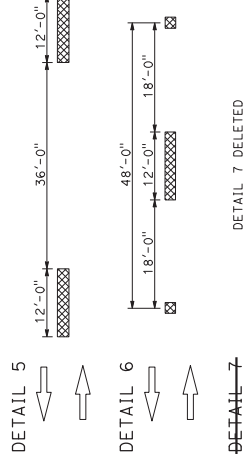
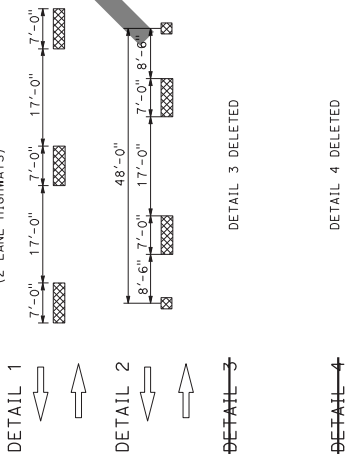


NO PASSING ZONES-ONE DIRECTION

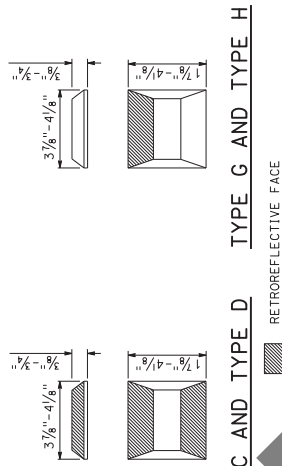
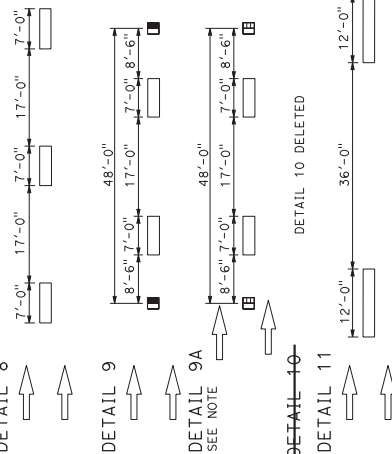


DETAIL 17 DELETED

CENTERLINES
(2 LANE HIGHWAYS)



LANELINES
(MULTILANE HIGHWAYS)



TYPE C AND TYPE D TYPE G AND TYPE H RETROREFLECTIVE FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS
AND TRAFFIC LINES
AND TYPICAL DETAILS

NO SCALE

A20A

NOTE:
FOR FREEWAY APPLICATION ONLY

DETAIL 20 DELETED

DIST#	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Alfio Efron
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

MAY 31, 2018
 DRAWN DATE
 THE STATE OF CALIFORNIA
 REGISTERED CIVIL ENGINEERS
 AND ARCHITECTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF ANY
 PORTION OF THIS PLAN SHEET.

LEGEND

MARKERS

- TYPE D
- TYPE H
- TYPE RY

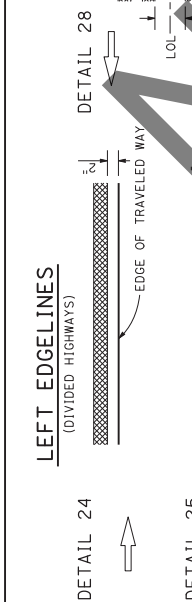
MARKERS

- 6" WHITE
- 6" YELLOW

LINE

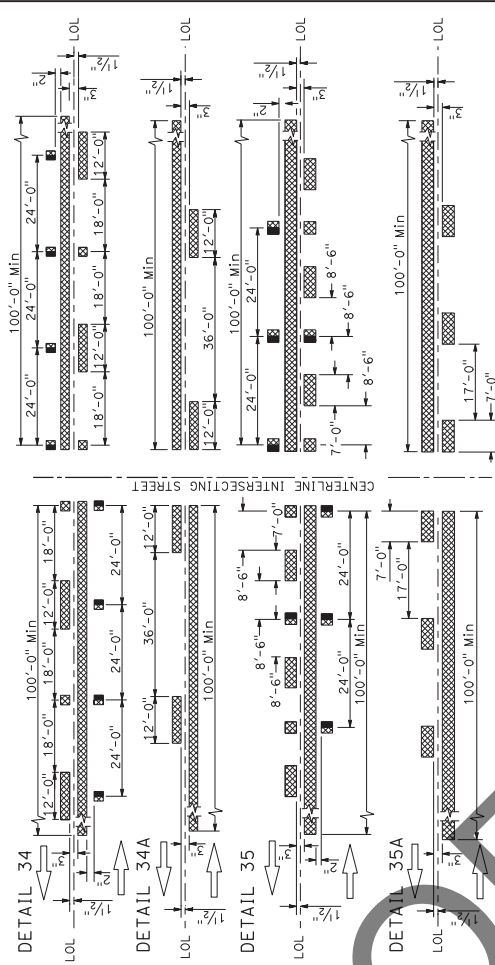
- TWO-WAY YELLOW RETROREFLECTIVE
- ONE-WAY YELLOW RETROREFLECTIVE
- RED-YELLOW RETROREFLECTIVE

MEDIAN ISLANDS

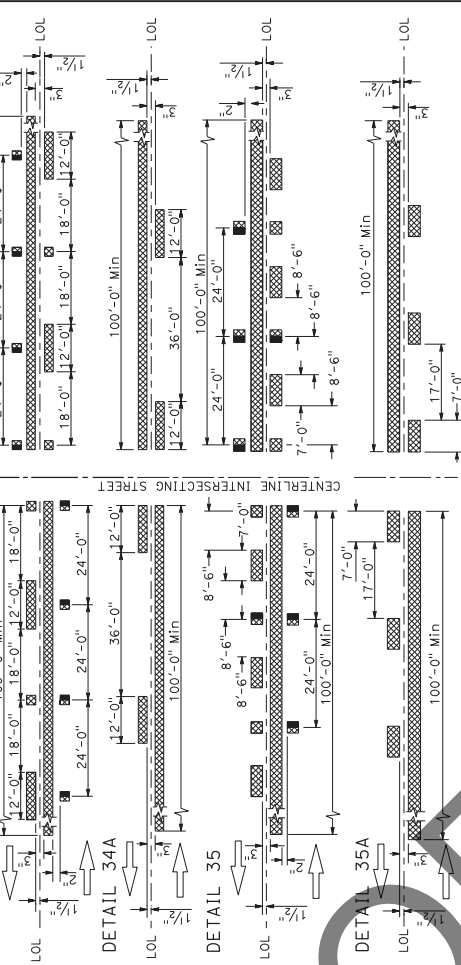


LEFT EDGELINES
(DIVIDED HIGHWAYS)

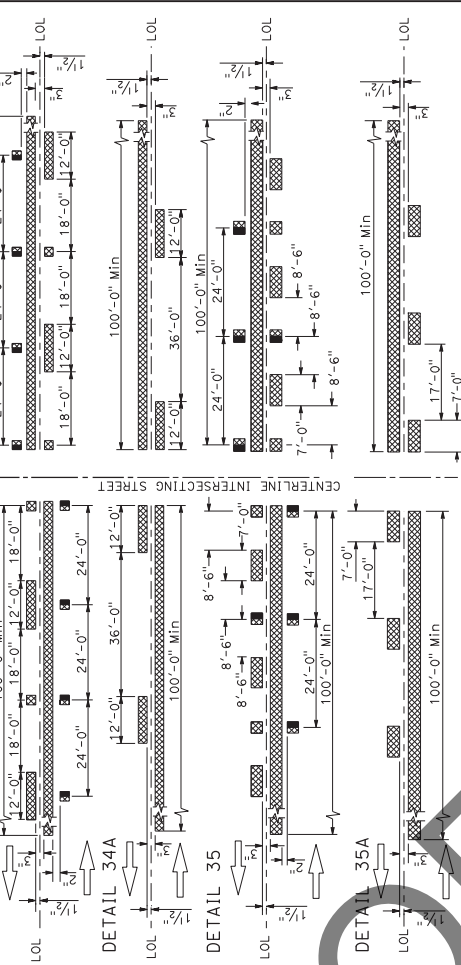
INTERSECTION TREATMENTS



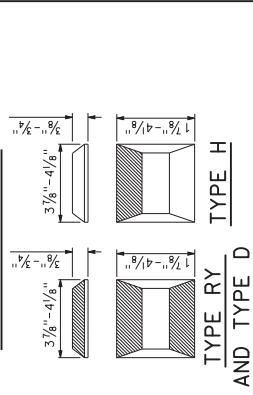
RIGHT EDGELINES



TWO-WAY LEFT TURN LANES



MARKER DETAILS



RETROREFLECTIVE FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

A 20B

DIST.	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Alta Eppouza
REGISTERED CIVIL ENGINEER

PROFESSIONAL ENGINEER
Alta Eppouza
No. CB0402
Exp. 3-31-19
STATE OF CALIFORNIA

MAY 31, 2018
DATE OF CONSTRUCTION PERMITS
THIS STATE OF CALIFORNIA PERMITTING OFFICER'S
OR AGENT'S SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

LEGEND

MARKERS

TYPE C RED-CLEAR RETROREFLECTIVE

TYPE G ONE-WAY CLEAR RETROREFLECTIVE

6" YELLOW LINE

MARKER DETAILS

TYPE C

TYPE G

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

CHANNELIZING LINE

DETAIL 38

8" WHITE LINE

24'-0"

THROUGH TRAFFIC

DETAIL 38A

8" WHITE LINE

24'-0"

DETAIL 38B

8" WHITE LINE

24'-0"

DETAIL 38C DELETED

BIKE LANE LINE

6" WHITE LINE

DETAIL 39

INTERSECTION LINE

BIKE LANE

200'-0"

INTERSECTION

8'-0"

4'-0"

6" WHITE LINE

DETAIL 39A

LANE LINE EXTENSIONS THROUGH INTERSECTIONS

DETAIL 40

1'-0"

6'-0"

6" WHITE LINE

CENTER LINE EXTENSIONS THROUGH INTERSECTIONS

DETAIL 41

1'-0"

6'-0"

6" YELLOW LINE

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

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RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

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RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

DETAIL FOR RECESSED THERMOPLASTIC TRAFFIC STRIPE

FINISHED ROADWAY SURFACE

6" TO 8"

0 TO 1/8"

THERMOPLASTIC MATERIAL

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER

RECESSIVE PAVEMENT MARKER AT EITHER END OF RECESS

SECTION A-A

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

SECTION B-B

RECESSIVE PAVEMENT MARKER AT DOWNSTREAM END OF RECESS

PLAN Two-way Traffic (Type 2)

PLAN One-way Traffic (Type 1)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS
AND TRAFFIC LINES
AND TYPICAL DETAILS

NO SCALE

A 20D

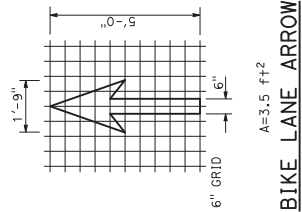
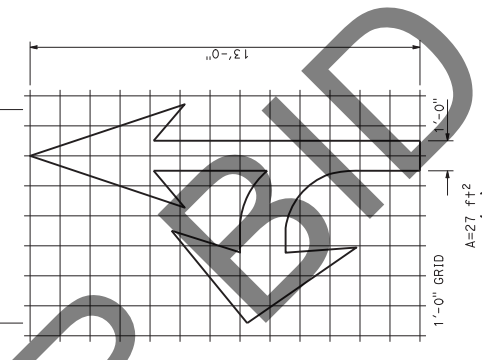
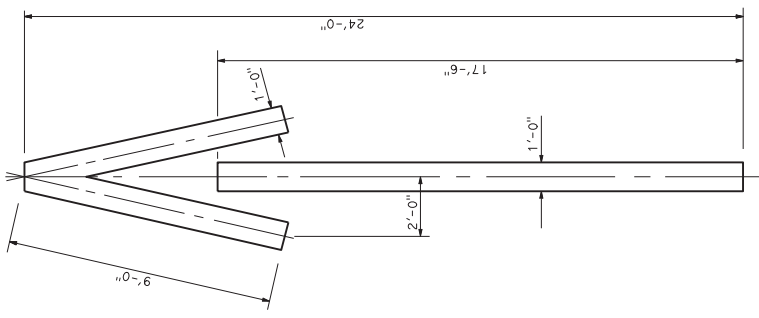
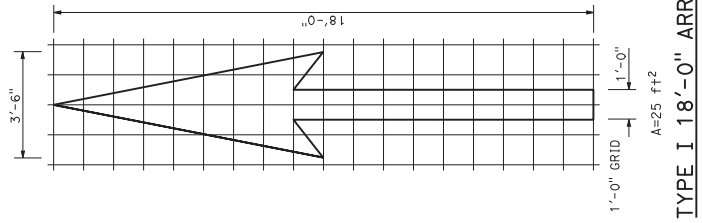
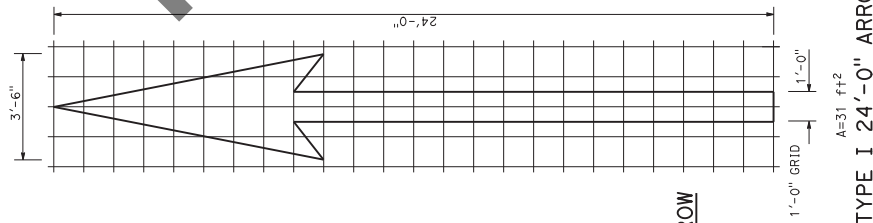
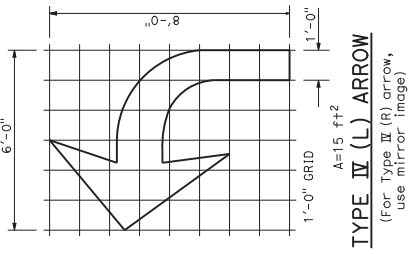
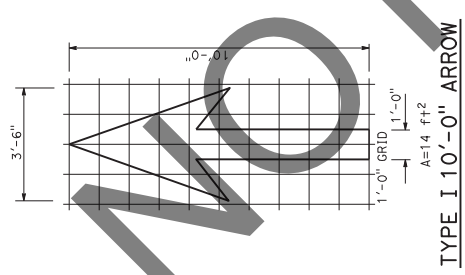
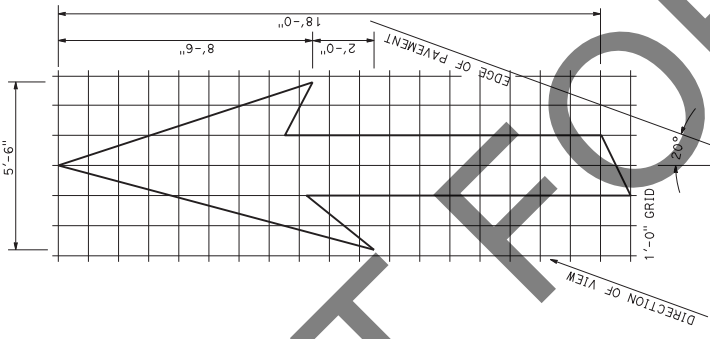
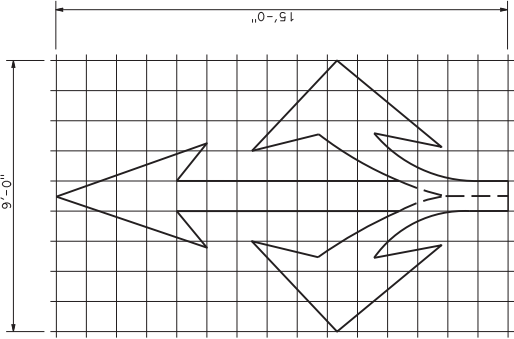
Return to Table of Contents

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Althea Jean
REGISTERED CIVIL ENGINEER

MAY 31, 2018
PLANS FOR THE PROJECT
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENCIES SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OR FOR THE CONSEQUENCES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
AILEG FEROUZ
No. CB0402
Exp. 3-31-19
CIVIL
STATE OF CALIFORNIA



NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
ARROWS
NO SCALE

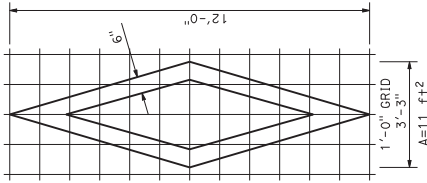
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

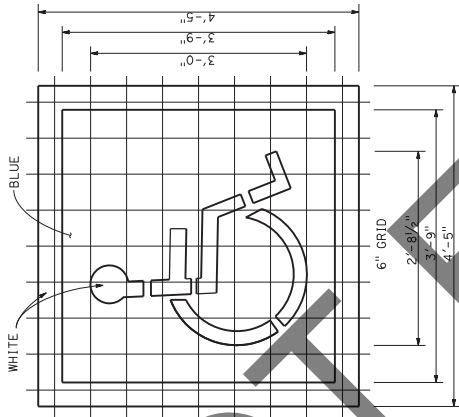
REGISTERED CIVIL ENGINEER
Alfego Erazo
 No. C80402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER & ARCHITECT

MAY 31, 2018
 PLANS FOR THE
 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
 OR ITS AGENCIES SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OF THE INFORMATION CONTAINED
 HEREON UNLESS INDICATED OTHERWISE ON THIS SHEET.

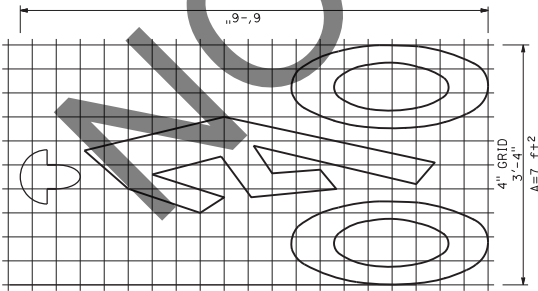
NOTE:
Minor variations in dimensions may be accepted by the Engineer.



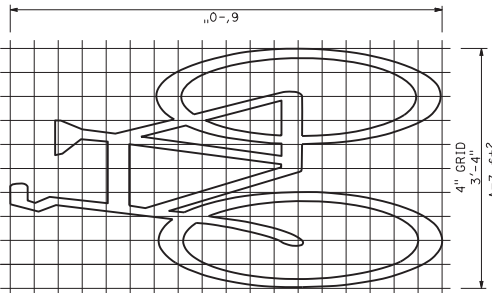
DIAMOND SYMBOL



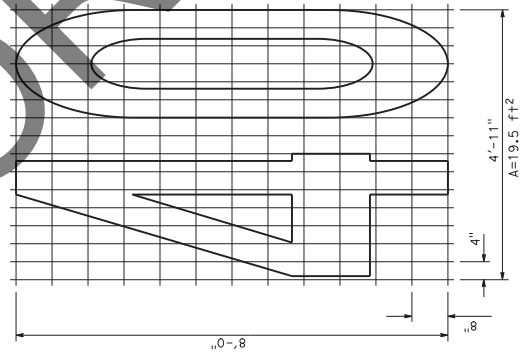
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



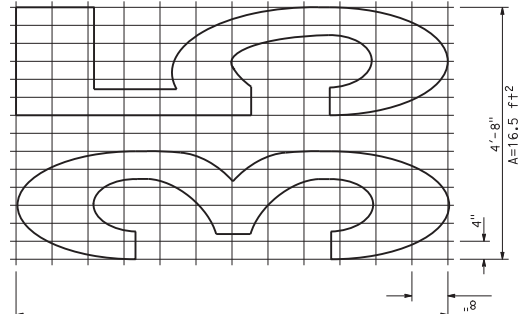
BIKE LANE SYMBOL WITH PERSON



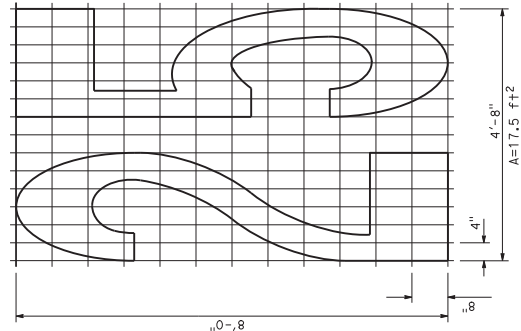
BIKE LANE SYMBOL WITHOUT PERSON



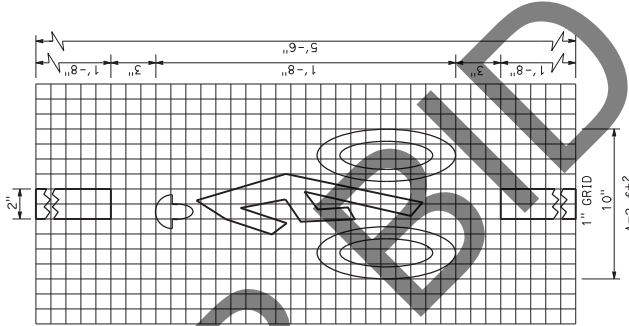
SHARED ROADWAY BICYCLE MARKING



NUMERALS



NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

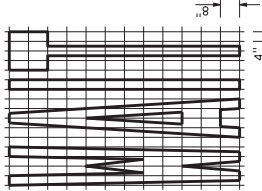
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

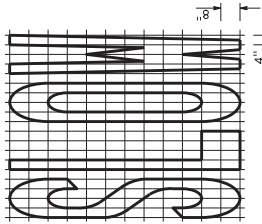
A 24C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

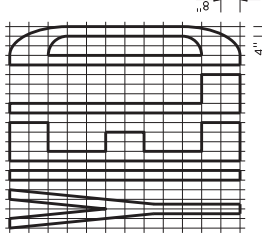
REGISTERED CIVIL ENGINEER
Oliver Jean
 No. 31, 2018
 PLANS APPROVAL DATE
 May 31, 2018
 THE STATE OF CALIFORNIA OFFICE OF REGISTERED PROFESSIONAL ENGINEERS
 No. CB0402 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA
 THIS DESIGN SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OF THIS PLAN SHEET.



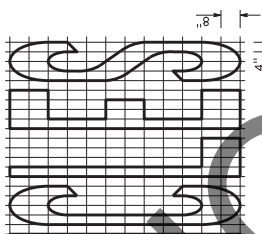
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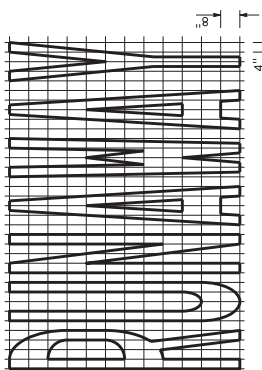
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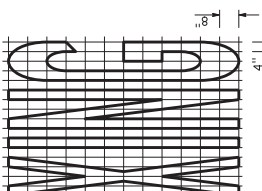
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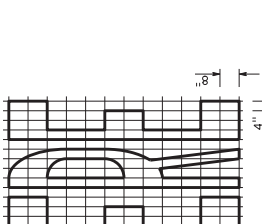
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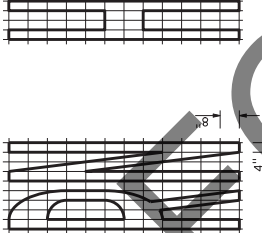
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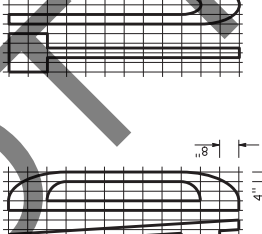
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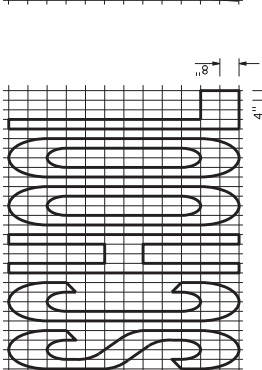
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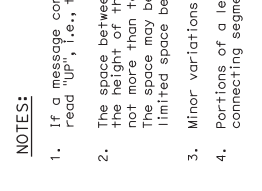
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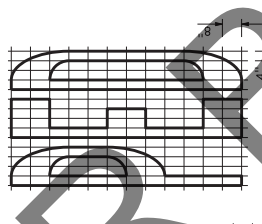
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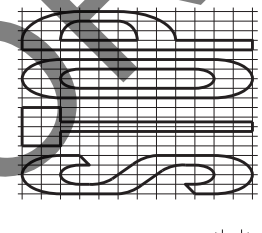
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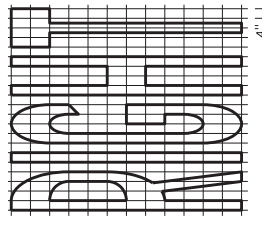
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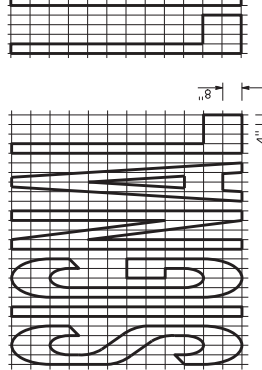
A=22 f+2



A=26 f+2



A=19 f+2



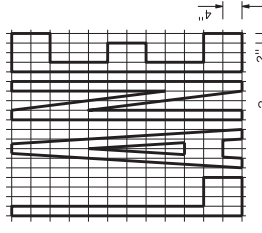
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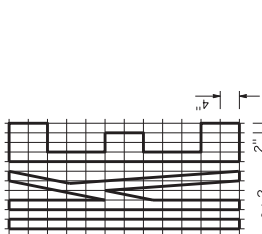
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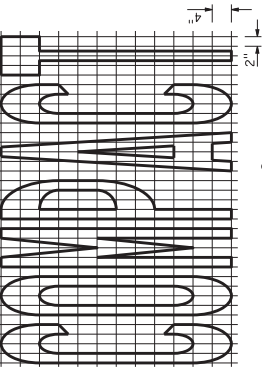
A=5 f+2



A=10 f+2



A=10 f+2



A=10 f+2

NOTES:

- If a message consists of more than one word, it must read "up", i.e., the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

WORD MARKINGS					
ITEM	f+2	ITEM	f+2	ITEM	f+2
XING	21	YIELD	24	BIKE	5
HEAD	31	SCHOOL	35	SLOW	23
WAIT	19	SIGNAL	32	STOP	22
LANE	6	TURN	24	LEFT	19
RIGHT	26	HERE	26	VEHICLES	42

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS**

NO SCALE

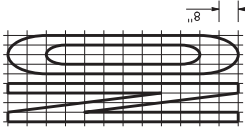
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

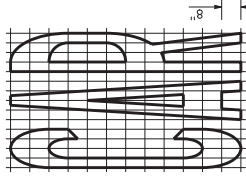
Oliver Jean
 REGISTERED CIVIL ENGINEER
 No. 31,2018
 May 31, 2018
 PLANS APPROVED BY THE OFFICERS OF THE STATE OF CALIFORNIA FOR ITS OFFICERS ON BEHALF OF THE STATE OF CALIFORNIA. THE STATE OF CALIFORNIA DOES NOT GUARANTEE THE ACCURACY OF THESE PLANS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE PLANS. THESE PLANS ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR COPIED WITHOUT HIS WRITTEN CONSENT.

REGISTERED PROFESSIONAL ENGINEER
 No. CB0402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

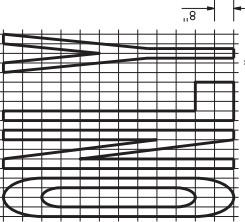
ITEM	ft+2	ITEM	ft+2
LANE	24	NO.	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



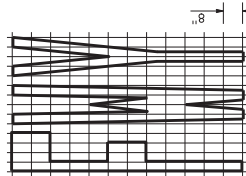
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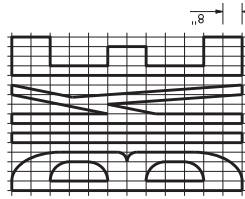
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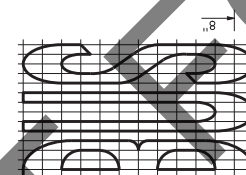
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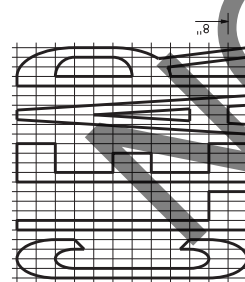
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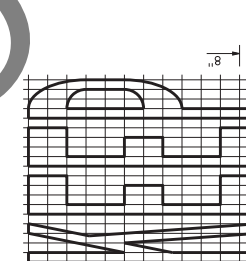
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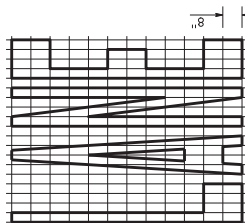
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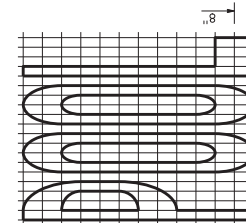
A=27 ft+2



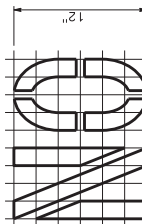
A=24 ft+2



A=24 ft+2

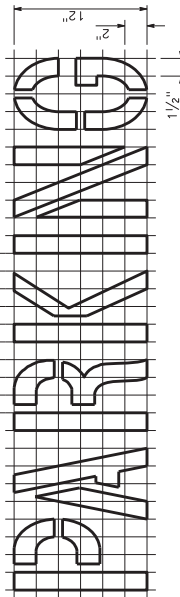


A=23 ft+2



A=2 ft+2

See Notes 6 and 7

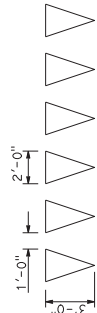


NOTES:

- If a message consists of more than one word, it must read "up", i.e., the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A30A and A30B.
- The words "NO PARKING" shall be painted in white letters no less than 1/2" high on a contrasting background and located so that it is visible to traffic enforcement officials.



LIMIT LINE (STOP LINE)



YIELD LINE

WHITE SERIES OF ISOSCELES TRIANGLES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**

NO SCALE

A 24E

Return to Table of Contents

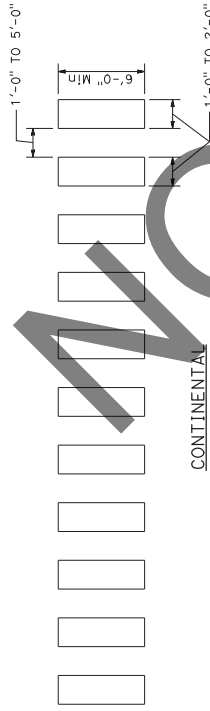
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

Alfego Jeano
 REGISTERED CIVIL ENGINEER
 No. CB0402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

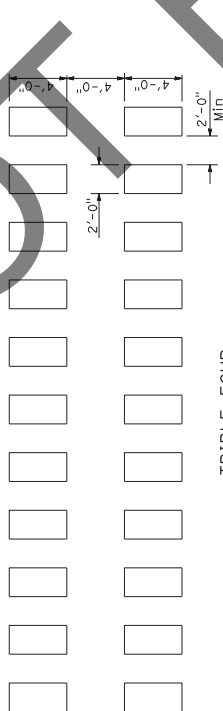
PROFESSIONAL ENGINEER & ARCHITECT
 REGISTERED IN THE STATE OF CALIFORNIA
 ALL FEES PAID
 THIS STATE OF CALIFORNIA OFFICE OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF ANY
 COPIES OF THIS PLAN SHEET.

NOTES:

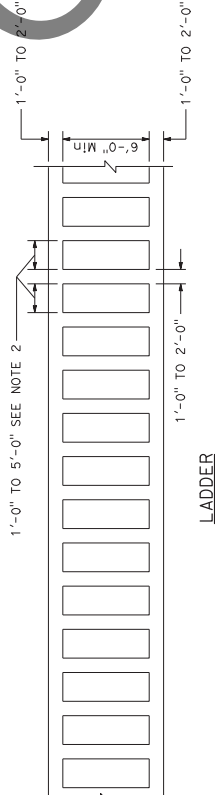
1. Spaces between markings must be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except those near schools must be yellow.



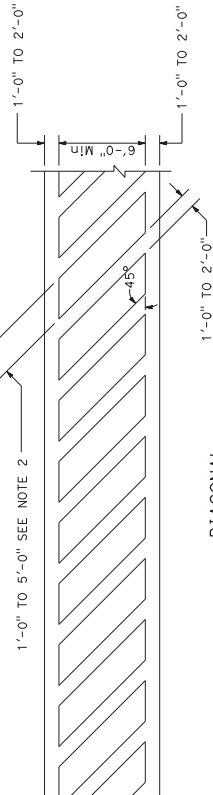
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1

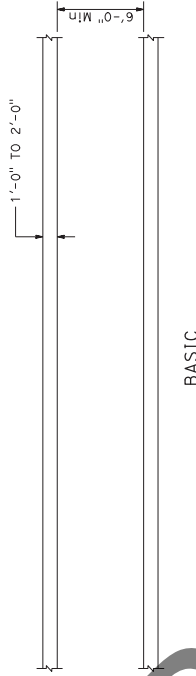


LADDER



DIAGONAL

HIGHER VISIBILITY CROSSWALKS



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE

A 24F

NOT FOR BID

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER
Alta Eforou
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

MAY 31, 2018
 DATE OF FINAL DATE
 THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

TABLE 2

SPEED * mph	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	777	825	891
75	820	866	927	1003

* - Speed is posted speed limit, or peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing and longer than 1 mile.

*** - Use on sustained downgrade steeper than -3 percent

TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING				
	TANGENT		SHIFTING		TAPER		TANGENT		CONFLICT
	2L	L	L/2	L/3	X	Y	Z		
20	160	80	40	27	20	40	10	10	10
25	250	125	63	42	25	50	12	12	12
30	360	180	90	60	30	60	15	15	15
35	490	245	123	82	35	70	17	17	17
40	640	320	160	107	40	80	20	20	20
45	1080	540	270	180	45	90	22	22	22
50	1200	600	300	200	50	100	25	25	25
55	1320	660	330	220	50	100	25	25	25
60	1440	720	360	240	50	100	25	25	25
65	1560	780	390	260	50	100	25	25	25
70	1680	840	420	280	50	100	25	25	25
75	1800	900	450	300	50	100	25	25	25

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**
 NO SCALE

T9

DI+ COUNTY ROUTE TOTAL PROJECT SHEET NO. SHEETS

REGISTERED CIVIL ENGINEER
 May 31, 2018
 PROFESSIONAL ENGINEER
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 CIVIL

Alfa Ferouzi

REGISTERED CIVIL ENGINEER
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 CIVIL

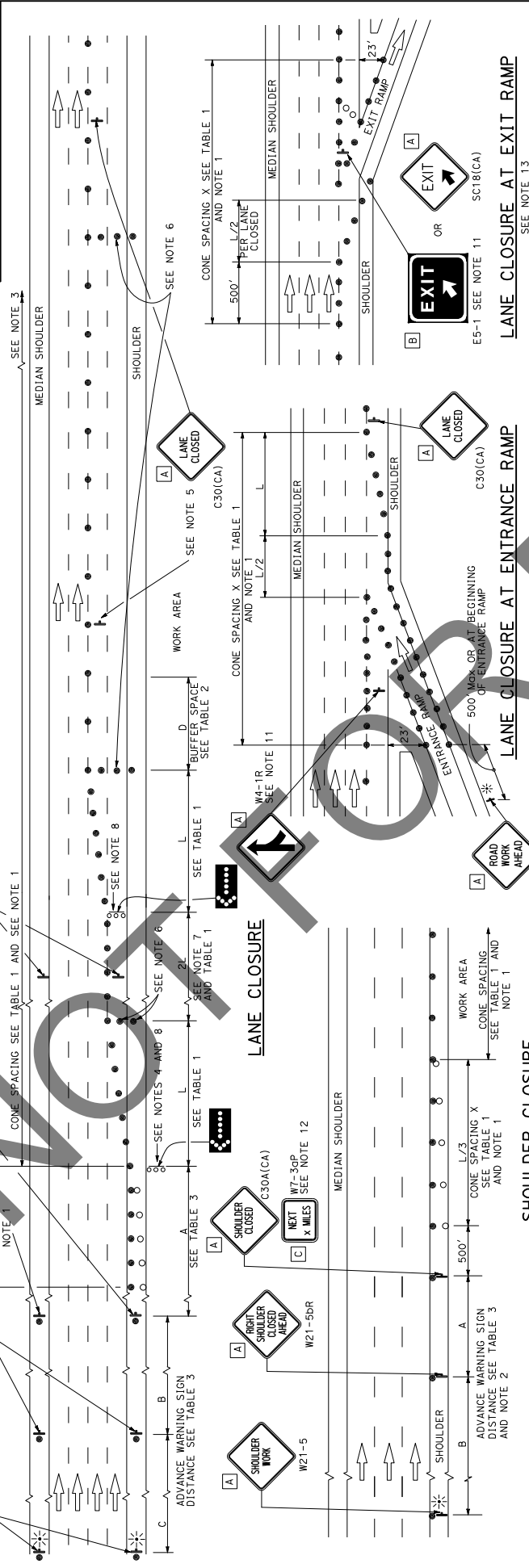
THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THIS PLAN SHEET.

NOTES:

See Standard Plan T9 for Tables.

Use cone spacing X for taper segment, Y for tangent segment, Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.



LANE CLOSURE AT ENTRANCE RAMP
 SEE NOTE 2

LANE CLOSURE AT EXIT RAMP
 SEE NOTE 13

SHOULDER CLOSURE

LEGEND

●	TRAFFIC CONE	A	48" x 48"
○	TRAFFIC CONE (OPTIONAL TAPER)	B	72" x 60"
+	TEMPORARY TRAFFIC CONTROL SIGN	C	36" x 30"
⬆	FLASHING ARROW SIGN (FAS)		
⬆	FAS SUPPORT OR TRAILER		
⬆	PORTABLE FLASHING BEACON		

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS
 NO SCALE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

T10

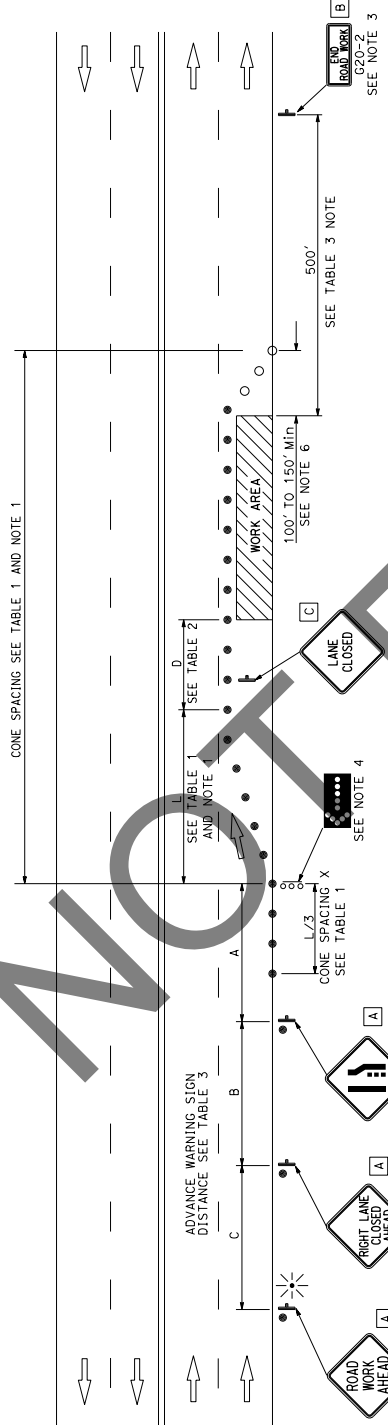
- NOTES:**
1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 2. Each advance warning sign shall be equipped with reflective prisms. Each sign shall be at least 48" x 72" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the top of the sign. Advance warning signs shall be placed for lane closure during hours of darkness.
 3. A C30-2 "END ROAD WORK" sign with minimum size of 48" x 72" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
 4. A minimum 1500' sight distance shall be provided for advance warning signs. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
 5. Place a C30(CA) sign every 1000' throughout length of lane closure.
 6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a lane closure ends, and every type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades shall be perpendicular to the transverse alignment to provide access to the work.
 7. The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be type I.
 9. Median lane closures shall conform to the details as shown except that C20(CAL) and W4-2L signs shall be used.
 10. Duplicate sign installations are not required:
 - a) on opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) in the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 11. The E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 12. A W7-30P "NEXT MILES" plaque must be used if the shoulder closure extends beyond the ramp when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.
 13. For the warning sign requirements at the Exit Ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER
Alta Feroza
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
 ALTA FEROUZA
 No. CB0402
 Exp. 3-31-19
 CIVIL
 STATE OF CALIFORNIA

MAY 31, 2018
 EXPIRES ON: MAY 31, 2019
 THIS STATE OF CALIFORNIA DATE
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.



TYPICAL LANE CLOSURE

NOTES:
 See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	36" x 18"
C	30" x 30"

- LEGEND**
- TRAFFIC CONE
 - TRAFFIC CONE (OPTIONAL TAPER)
 - ⊥ TEMPORARY TRAFFIC CONTROL SIGN
 - ⊥ FLASHING ARROW SIGN (FAS)
 - ⊥ FAS SUPPORT OR TRAILER
 - ⊥ PORTABLE FLASHING BEACON

- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Each advance warning sign shall be equipped with at least two flags on any closure. Each flag shall be at least 16" x 16" in size and shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that C20(CA) and W4-2L signs shall be used.
- For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 NO SCALE

T11

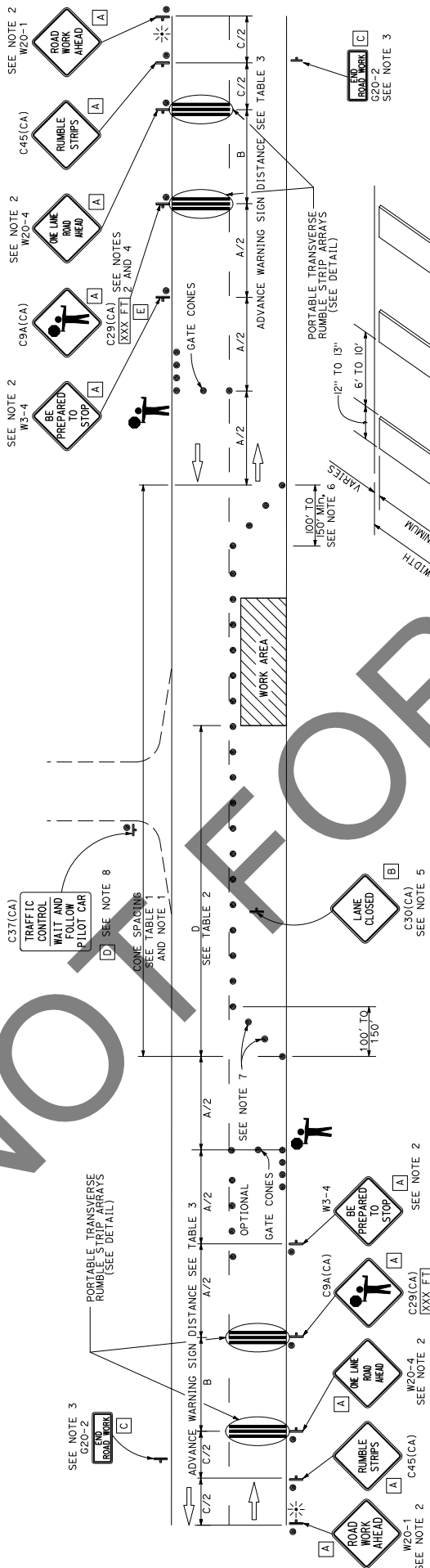
DIST#	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Alta Ebrahimi
 No. CB0402
 Exp. 3-31-19
 STATE OF CALIFORNIA
 PROFESSIONAL ENGINEER

MAY 31, 2018
 PLANS APPROVAL DATE
 THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY INFORMATION OR DATA OBTAINED FROM ANY SOURCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS PLAN SHEET.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

NOTES:
 See Standard Plan T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conical sections, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Provide at least one person to continuously maintain traffic control devices for lane closures.



- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A C20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
 - An optional C29(CA) sign may be placed below the C9A(CA) sign.
 - Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area. They are optional if the work area is visible from the flagger station.
 - Length may be reduced by the Engineer to address site conditions.
 - Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
 - When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within the traffic control area.

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ✱ PORTABLE FLASHING BEACON
- ⚠ FLAGGER

SIGN PANEL SIZE (MIN)

A	48" x 48"
B	30" x 50"
C	36" x 18"
D	36" x 42"
E	20" x 7"

PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

12" TO 13"
 6" TO 10"
 5" TO 7"
 10' MINIMUM
 LANE WIDTH
 100' TO 150' TO 180' TO 200' TO 250' TO 300' TO 350' TO 400' TO 450' TO 500' TO 550' TO 600' TO 650' TO 700' TO 750' TO 800' TO 850' TO 900' TO 950' TO 1000' TO 1050' TO 1100' TO 1150' TO 1200' TO 1250' TO 1300' TO 1350' TO 1400' TO 1450' TO 1500' TO 1550' TO 1600' TO 1650' TO 1700' TO 1750' TO 1800' TO 1850' TO 1900' TO 1950' TO 2000'

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

NO SCALE

T13

Figure 3B-102 (CA). Examples of Fire Hydrant Location Pavement Markers

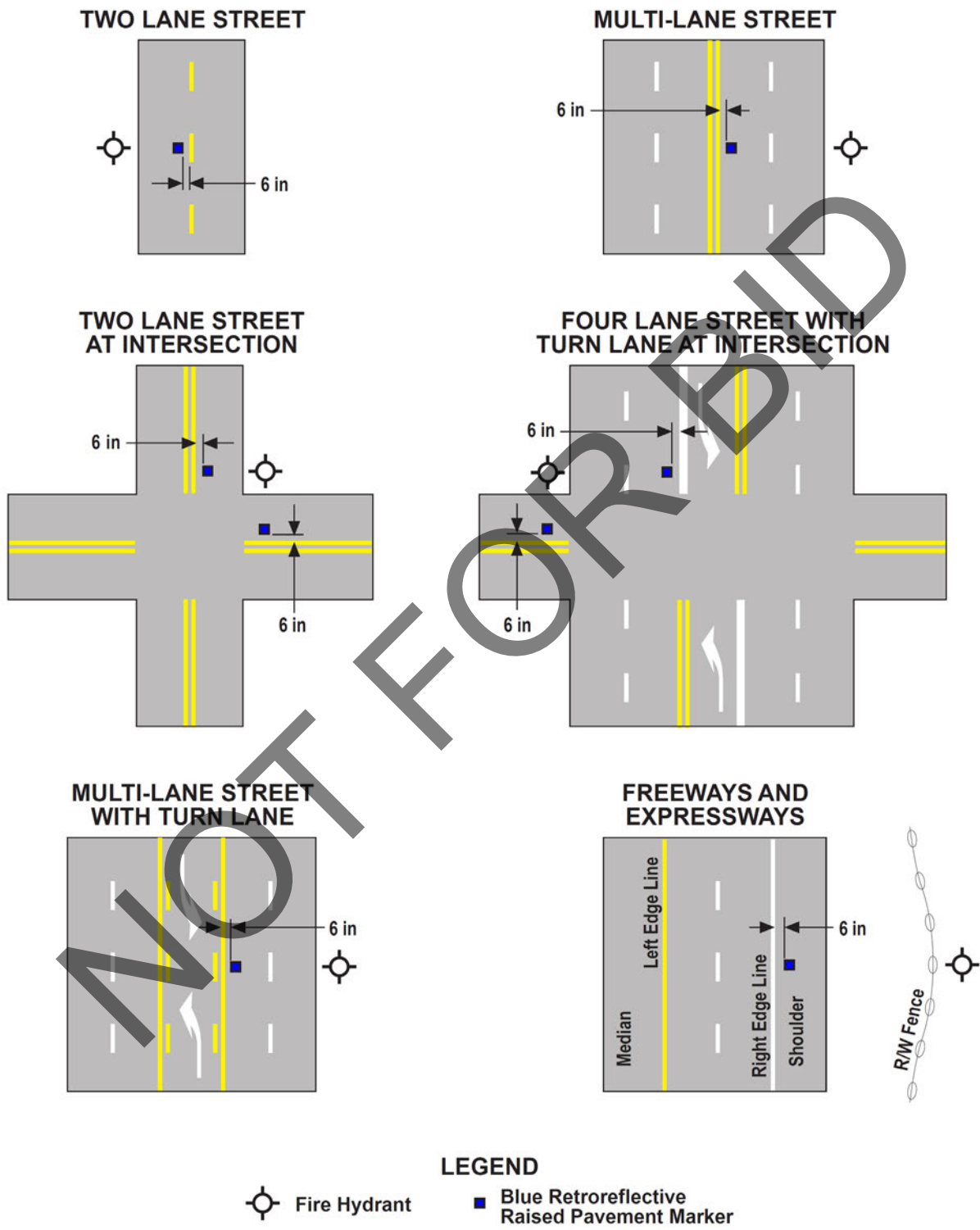
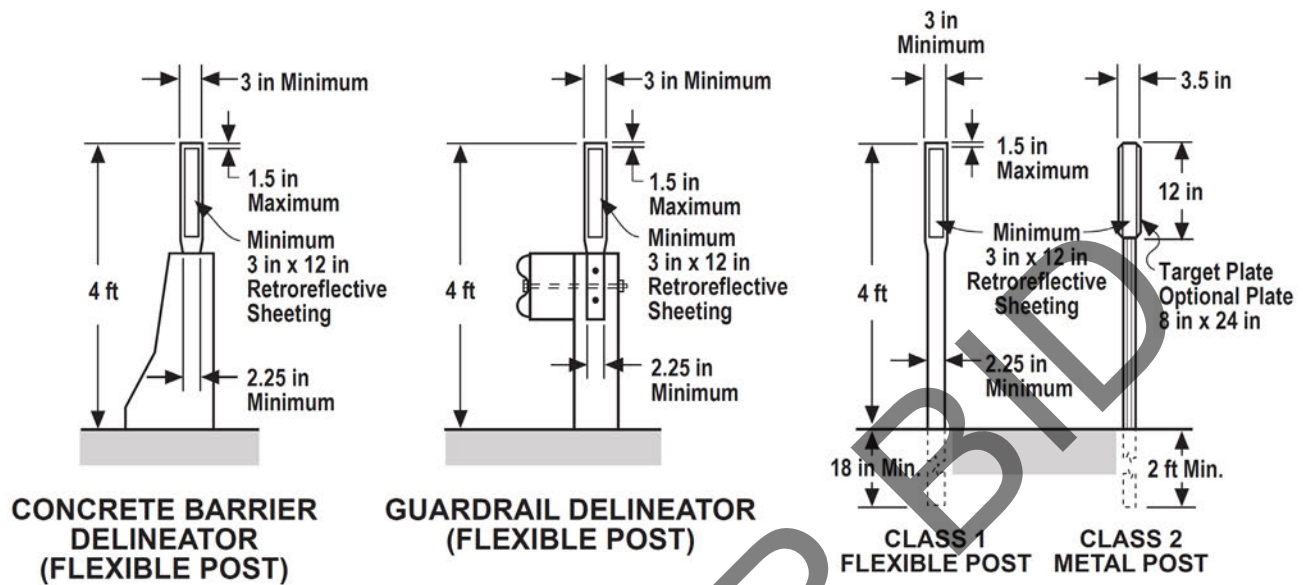
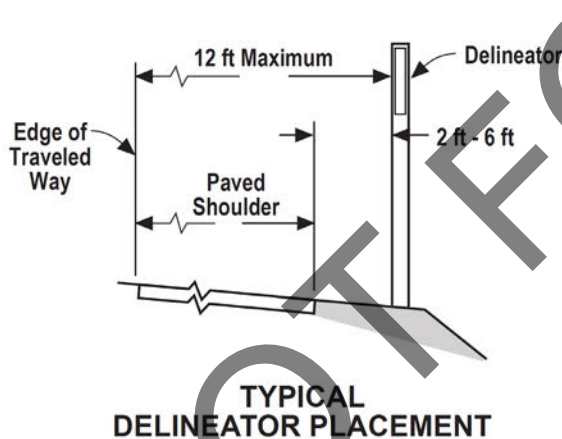


Figure 3F-101 (CA). Examples of Delineators



NOT TO SCALE



TYPES OF DELINEATORS

TYPE	RETROREFLECTOR COLOR	
	FRONT	BACK*
E	WHITE	WHITE
F	WHITE	NONE
G	YELLOW	NONE
J	RED	NONE

*Back Retroreflector:
 Class 1 Delineator - 3 in ± square of retroreflective sheeting.
 Class 2 Delineator - 3 in ± acrylic cube-corner retroreflective element.

Notes:

1. Class 1 (Flexible Post) Delineators are standard on State highways, except for certain locations, e.g., snow or protected areas behind guardrail, etc. The color of the post is white.
2. Class 1 (Flexible Post) Delineators used in construction or maintenance zones shall be orange with white retroreflective sheeting. However, if the delineators are to remain in place as a permanent roadway feature after the construction or maintenance period, the color of the post shall be white with the appropriate color of retroreflective sheeting as specified in Section 3F.03.
3. The Type of Retroreflective Element and Class of Post is designated as E-1, F-2, etc.

Support:

14 Since channelizers require closer spacing, their post size requirements differ from those of delineators.

15 There are two basic types of channelizers: one attaches to the pavement and the other attaches to an anchoring device imbedded in the pavement. Both the base and anchor systems are designed to permit replacement of the channelizer post. See Figure 3H-101(CA).

Guidance:

16 Channelizers should be placed a minimum of 2 feet from the traffic line, away from traffic, to allow for future maintenance of the line.

Option:

17 Space limitations may dictate exceptions to this criterion. At certain locations, placement directly on the traffic line may be required.

Support:

18 Spacing of the channelizers depends on the type of facility where they are to be used, the speed and volume of traffic, and the alignment to be channelized. Spacing which results in a visual fence/barrier effect is a key factor in channelizer installation.

Guidance:

19 The maximum post spacing should be 100 feet on carpool lanes where channelizers are used primarily to delineate the separation between the carpool lane and the main facility.

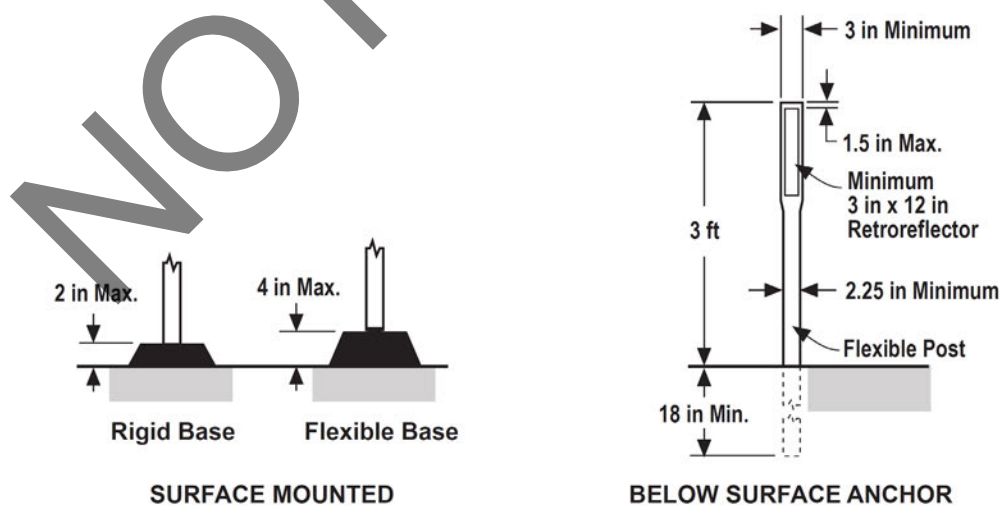
20 In locations where a relatively high number of violations occur, the post spacing should be 25 feet.

Option:

21 Where barrier violations are relatively minimal, a post spacing of 50 feet may be adequate. However, spacing in excess of 50 feet is of negligible value as a deterrent to intentional barrier violations.

22 Post spacing closer than 25 feet may be considered on lower speed roads, urban streets and at specific locations such as traffic islands.

Figure 3H-101 (CA). Example of Channelizers



NOT TO SCALE

Notes for Figure 6H-28—Typical Application 28 Sidewalk Detour or Diversion

Standard:

- 1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**

Guidance:

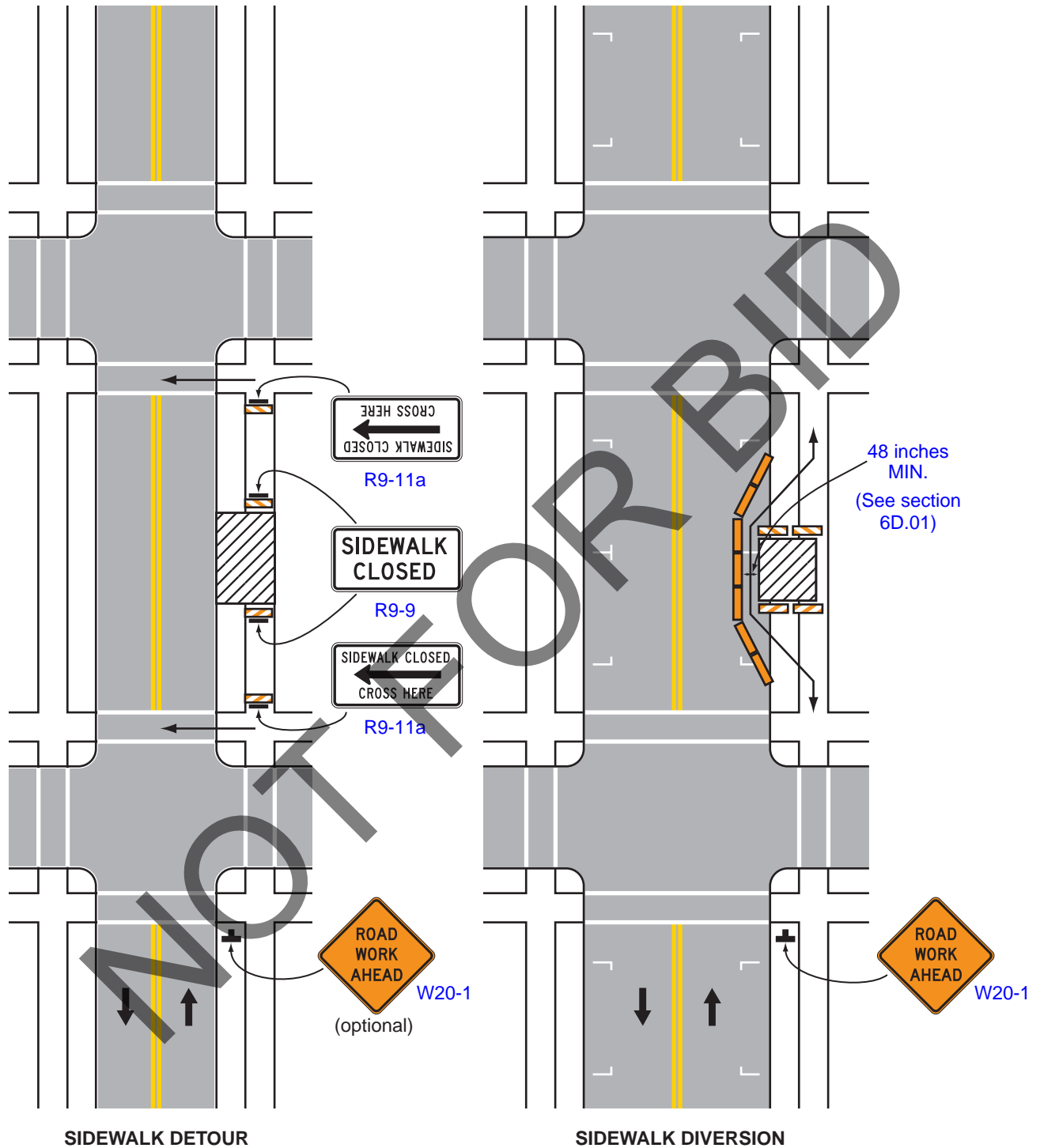
- 2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.*
- 3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*

Option:

4. Street lighting may be considered.
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
7. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the temporary sidewalks from vehicular traffic flow.
8. Signs, such as KEEP RIGHT (LEFT), may be placed along a temporary sidewalk to guide or direct pedestrians.

NOT FOR BID

Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Notes for Figure 6H-29—Typical Application 29 Crosswalk Closures and Pedestrian Detours

Standard:

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
2. ~~Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.~~

Guidance:

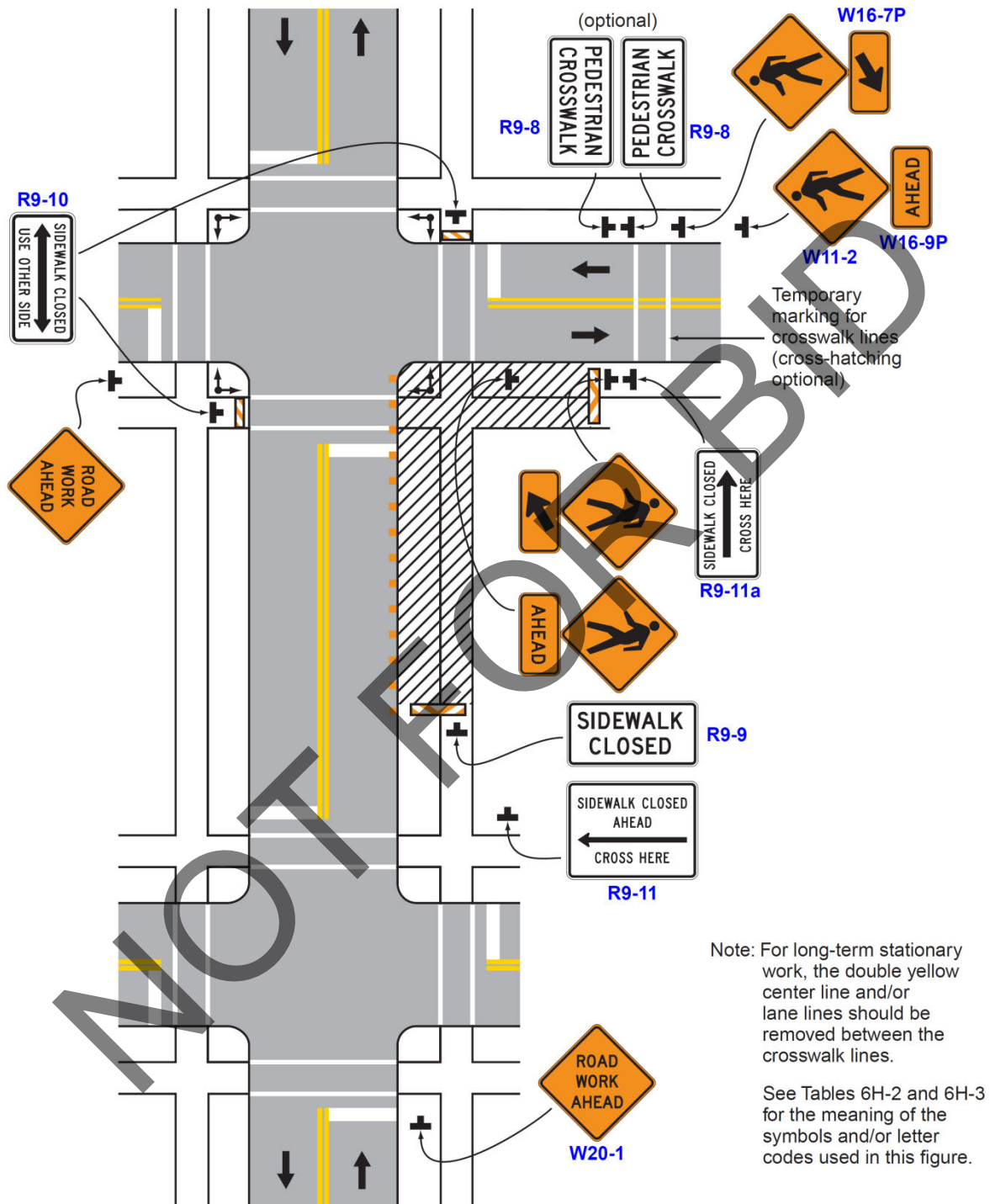
2. *Parking should be prohibited in advance of mid-block crosswalks. Mid-block crosswalks should be avoided, when possible. See Section 3B.18.*
3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.*

Option:

5. Street lighting may be considered.
6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS signs, may be used to control vehicular traffic.
7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
8. Type C Steady-Burn or Type D 360-degree Steady-Burn warning lights may be used on channelizing devices separating the work space from vehicular traffic.
9. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs may be used in TTC zones.

NOT FOR BIDDING

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



Note: For long-term stationary work, the double yellow center line and/or lane lines should be removed between the crosswalk lines.

See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 29

CHAPTER 6D. PEDESTRIAN AND WORKER SAFETY

Section 6D.01 Pedestrian Considerations

Support:

⁰¹ A wide range of pedestrians might be affected by TTC zones, including the young, elderly, and people with disabilities such as hearing, visual, or mobility. These pedestrians need a clearly delineated and usable travel path. Considerations for pedestrians with disabilities are addressed in Section 6D.02.

Standard:

⁰² **The various TTC provisions for pedestrian and worker safety set forth in Part 6 shall be applied by knowledgeable (for example, trained and/or certified) persons after appropriate evaluation and engineering judgment.**

⁰³ **Advance notification of sidewalk closures shall be provided by the maintaining agency.**

⁰⁴ **If the TTC zone affects the movement of pedestrians, adequate pedestrian access and walkways shall be provided. If the TTC zone affects an accessible and detectable pedestrian facility, the accessibility and detectability shall be maintained along the alternate pedestrian route.**

Option:

⁰⁵ If establishing or maintaining an alternate pedestrian route is not feasible during the project, an alternate means of providing for pedestrians may be used, such as adding free bus service around the project or assigning someone the responsibility to assist pedestrians with disabilities through the project limits.

Support:

⁰⁶ It must be recognized that pedestrians are reluctant to retrace their steps to a prior intersection for a crossing or to add distance or out-of-the-way travel to a destination.

Guidance:

⁰⁷ *The following three items should be considered when planning for pedestrians in TTC zones:*

A. Pedestrians should not be led into conflicts with vehicles, equipment, and operations.

B. Pedestrians should not be led into conflicts with vehicles moving through or around the worksite.

C. Pedestrians should be provided with a convenient and accessible path that replicates as nearly as practical the most desirable characteristics of the existing sidewalk(s) or footpath(s).

⁰⁸ *A pedestrian route should not be severed and/or moved for non-construction activities such as parking for vehicles and equipment.*

⁰⁹ *Consideration should be made to separate pedestrian movements from both worksite activity and vehicular traffic. Unless an acceptable route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock worksites that will induce them to attempt skirting the worksite or making a midblock crossing.*

Support:

¹⁰ Figures 6H-28 and 6H-29 show typical TTC device usage and techniques for pedestrian movement through work zones.

Guidance:

¹¹ *To accommodate the needs of pedestrians, including those with disabilities, the following considerations should be addressed when temporary pedestrian pathways in TTC zones are designed or modified:*

A. Provisions for continuity of accessible paths for pedestrians should be incorporated into the TTC plan.

B. Access to transit stops should be maintained.

C. A smooth, continuous hard surface should be provided throughout the entire length of the temporary pedestrian facility. There should be no curbs or abrupt changes in grade or terrain that could cause tripping or be a barrier to wheelchair use. The geometry and alignment of the facility should meet the applicable requirements of the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)" (see Section 1A.11).

D. The width of the existing pedestrian facility should be provided for the temporary facility if practical. Traffic control devices and other construction materials and features should not intrude into the usable width of the

sidewalk, temporary pathway, or other pedestrian facility. When it is not possible to maintain a minimum width of 60 inches throughout the entire length of the pedestrian pathway, a 60 x 60-inch passing space should be provided at least every 200 feet to allow individuals in wheelchairs to pass.

E. Blocked routes, alternate crossings, and sign and signal information should be communicated to pedestrians with visual disabilities by providing devices such as audible information devices, accessible pedestrian signals, or barriers and channelizing devices that are detectable to the pedestrians traveling with the aid of a long cane or who have low vision. Where pedestrian traffic is detoured to a TTC signal, engineering judgment should be used to determine if pedestrian signals or accessible pedestrian signals should be considered for crossings along an alternate route.

F. When channelization is used to delineate a pedestrian pathway, a continuous detectable edging should be provided throughout the length of the facility such that pedestrians using a long cane can follow it. These detectable edgings should comply with the provisions of Section 6F.74.

G. Signs and other devices mounted lower than 7 feet above the temporary pedestrian pathway should not project more than 4 inches into accessible pedestrian facilities.

Option:

12 Whenever it is feasible, closing off the worksite from pedestrian intrusion may be preferable to channelizing pedestrian traffic along the site with TTC devices.

Guidance:

13 Fencing should not create sight distance restrictions for road users. Fences should not be constructed of materials that would be hazardous if impacted by vehicles. Wooden railing, fencing, and similar systems placed immediately adjacent to motor vehicle traffic should not be used as substitutes for crashworthy temporary traffic barriers.

14 Ballast for TTC devices should be kept to the minimum amount needed and should be mounted low to prevent penetration of the vehicle windshield.

15 Movement by work vehicles and equipment across designated pedestrian paths should be minimized and, when necessary, should be controlled by flaggers or TTC. Staging or stopping of work vehicles or equipment along the side of pedestrian paths should be avoided, since it encourages movement of workers, equipment, and materials across the pedestrian path.

16 Access to the work space by workers and equipment across pedestrian walkways should be minimized because the access often creates unacceptable changes in grade, and rough or muddy terrain, and pedestrians will tend to avoid these areas by attempting non-intersection crossings where no curb ramps are available.

Option:

17 A canopied walkway may be used to protect pedestrians from falling debris, and to provide a covered passage for pedestrians.

Guidance:

18 Covered walkways should be sturdily constructed and adequately lighted for nighttime use.

19 When pedestrian and vehicle paths are rerouted to a closer proximity to each other, consideration should be given to separating them by a temporary traffic barrier.

20 If a temporary traffic barrier is used to shield pedestrians, it should be designed to accommodate site conditions.

Support:

21 Depending on the possible vehicular speed and angle of impact, temporary traffic barriers might deflect upon impact by an errant vehicle. Guidance for locating and designing temporary traffic barriers can be found in Chapter 9 of AASHTO's "Roadside Design Guide" (see Section 1A.11).

Standard:

22 Short intermittent segments of temporary traffic barrier shall not be used because they nullify the containment and redirective capabilities of the temporary traffic barrier, increase the potential for serious injury both to vehicle occupants and pedestrians, and encourage the presence of blunt, leading ends. All upstream leading ends that are present shall be appropriately flared or protected with properly installed and maintained crashworthy cushions. Adjacent temporary traffic barrier segments shall be properly connected in order to provide the overall strength required for the temporary traffic barrier to perform properly.

23 Normal vertical curbing shall not be used as a substitute for temporary traffic barriers when temporary traffic barriers are needed.

Option:

24 Temporary traffic barriers or longitudinal channelizing devices may be used to discourage pedestrians from unauthorized movements into the work space. They may also be used to inhibit conflicts with vehicular traffic by minimizing the possibility of midblock crossings.

Support:

25 A major concern for pedestrians is urban and suburban building construction encroaching onto the contiguous sidewalks, which forces pedestrians off the curb into direct conflict with moving vehicles.

Guidance:

26 *If a significant potential exists for vehicle incursions into the pedestrian path, pedestrians should be rerouted or temporary traffic barriers should be installed.*

Support:

27 TTC devices, jersey barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.

Guidance:

28 *Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)" (see Section 1A.11), and should not be used as a control for pedestrian movements.*

29 *In general, pedestrian routes should be preserved in urban and commercial suburban areas. Alternative routing should be discouraged.*

30 *The highway agency in charge of the TTC zone should regularly inspect the activity area so that effective pedestrian TTC is maintained.*

Support:

31 Other laws and requirements are unique to California and need to be followed when providing pedestrian access through or around TTC zones.

32 Additional information on this topic can be found in publication titled "Pedestrian Considerations for California Temporary Traffic Control Zones on Caltrans' following web link:

<http://dot.ca.gov/hq/traffops/engineering/control-devices/pdf/PedBrochure.pdf>

Section 6D.02 Accessibility Considerations

Support:

01 Additional information on the design and construction of accessible temporary facilities is found in publications listed in Section 1A.11 (see Publications 12, 38, 39, and 42).

Guidance:

02 *The extent of pedestrian needs should be determined through engineering judgment or by the individual responsible for each TTC zone situation. Adequate provisions should be made for pedestrians with disabilities.*

Standard:

03 **When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Where pedestrians with visual disabilities normally use the closed sidewalk, a barrier that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.**

Support:

04 Maintaining a detectable, channelized pedestrian route is much more useful to pedestrians who have visual disabilities than closing a walkway and providing audible directions to an alternate route involving additional crossings and a return to the original route. Braille is not useful in conveying such information because it is difficult to find. Audible instructions might be provided, but the extra distance and additional street crossings might add complexity to a trip.

Guidance:

05 *Because printed signs and surface delineation are not usable by pedestrians with visual disabilities, blocked routes, alternate crossings, and sign and signal information should be communicated to pedestrians with visual*

disabilities by providing audible information devices, accessible pedestrian signals, and barriers and channelizing devices that are detectable to pedestrians traveling with the aid of a long cane or who have low vision.

Support:

⁰⁶ The most desirable way to provide information to pedestrians with visual disabilities that is equivalent to visual signing for notification of sidewalk closures is a speech message provided by an audible information device. Devices that provide speech messages in response to passive pedestrian actuation are the most desirable. Other devices that continuously emit a message, or that emit a message in response to use of a pushbutton, are also acceptable. Signing information can also be transmitted to personal receivers, but currently such receivers are not likely to be carried or used by pedestrians with visual disabilities in TTC zones. Audible information devices might not be needed if detectable channelizing devices make an alternate route of travel evident to pedestrians with visual disabilities.

Guidance:

⁰⁷ *If a pushbutton is used to provide equivalent TTC information to pedestrians with visual disabilities, the pushbutton should be equipped with a locator tone to notify pedestrians with visual disabilities that a special accommodation is available, and to help them locate the pushbutton.*

Section 6D.03 Worker Safety Considerations

Support:

⁰¹ Equally as important as the safety of road users traveling through the TTC zone is the safety of workers. TTC zones present temporary and constantly changing conditions that are unexpected by the road user. This creates an even higher degree of vulnerability for workers on or near the roadway.

⁰² Maintaining TTC zones with road user flow inhibited as little as possible, and using TTC devices that get the road user's attention and provide positive direction are of particular importance. Likewise, equipment and vehicles moving within the activity area create a risk to workers on foot. When possible, the separation of moving equipment and construction vehicles from workers on foot provides the operator of these vehicles with a greater separation clearance and improved sight lines to minimize exposure to the hazards of moving vehicles and equipment.

Guidance:

⁰³ *The following are the key elements of worker safety and TTC management that should be considered to improve worker safety:*

- A. *Training—all workers should be trained on how to work next to motor vehicle traffic in a way that minimizes their vulnerability. Workers having specific TTC responsibilities should be trained in TTC techniques, device usage, and placement.*
- B. *Temporary Traffic Barriers—temporary traffic barriers should be placed along the work space depending on factors such as lateral clearance of workers from adjacent traffic, speed of traffic, duration and type of operations, time of day, and volume of traffic.*
- C. *Speed Reduction—reducing the speed of vehicular traffic, mainly through regulatory speed zoning, funneling, lane reduction, or the use of uniformed law enforcement officers or flaggers, should be considered. The use of regulatory speed zone signing tends to be more effective when law enforcement is present. Refer to Section 6C.01.*
- D. *Activity Area—planning the internal work activity area to minimize backing-up maneuvers of construction vehicles should be considered to minimize the exposure to risk.*
- E. *Worker Safety Planning—a trained person designated by the employer should conduct a basic hazard assessment for the worksite and job classifications required in the activity area. This safety professional should determine whether engineering, administrative, or personal protection measures should be implemented. This plan should be in accordance with the Occupational Safety and Health Act of 1970, as amended, "General Duty Clause" Section 5(a)(1) - Public Law 91-596, 84 Stat. 1590, December 29, 1970, as amended, and with the requirement to assess worker risk exposures for each job site and job classification, as per 29 CFR 1926.20 (b)(2) of "Occupational Safety and Health Administration Regulations, General Safety and Health Provisions" (see Section 1A.11).*

BIDDER: _____

PROPOSAL

TO THE BOARD OF SUPERVISORS
OF THE SAN BERNARDINO COUNTY
STATE OF CALIFORNIA

For Construction On

CITRUS STREET AND OTHER ROADS - PHASE I
Various Roads

LENGTH: 10.57 Miles
WORK ORDER: H15161
AREA: San Bernardino
ROAD NO.: Various

NOTICE: BIDDERS MUST OBTAIN BIDDING DOCUMENTS AND PREPARE THEIR BIDS ON FORMS OBTAINED DIRECTLY FROM THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS OR FROM THE COUNTY OF SAN BERNARDINO ELECTRONIC PROCUREMENT NETWORK (ePRO) <https://epro.sbcounty.gov/bsol>. BIDS PREPARED ON FORMS OBTAINED FROM OTHER SOURCES WILL BE DEEMED NON-RESPONSIVE. BIDDERS MUST BE LISTED ON THE OFFICIAL PLAN HOLDERS LIST AT THE TIME BIDS ARE PUBLICLY OPENED. BIDS RECEIVED FROM BIDDERS WHO ARE NOT LISTED ON THE OFFICIAL PLAN HOLDERS LIST WILL NOT BE ACCEPTED.

The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principals are those named herein, that this proposal is made without collusion with any other person, firm, or corporation; that bidder has carefully examined the location of the proposed work, the proposed form of contract, and the plans and specifications therein referred to; and bidder proposes and agrees if this proposal is accepted, that bidder will contract with the San Bernardino County, in the form of the copy of the contract to provide all necessary machinery, tools, apparatus and other means of construction, and to do all work and furnish all the materials specified in the contract, in the manner and in the time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that bidder will take in full payment therefore the following prices, to wit:

PROPOSAL CHECKLIST AND ASSEMBLY SEQUENCE
IMPORTANT

Failure to Properly Complete Bid Package May Result in Rejection of Bid

1

Proposal – Assemble all pages in same numbering sequence as original.

- Replacement Bid Sheets from Addendum are substituted in sequence, if applicable.
- Unit Prices are entered for all bid items (or Alternate bid items).
- Corrections or changes to the bid document are initialed.
- Subcontractors, if any, are listed
- Public Contract Code Section 10285.1 Statement is executed
- Public Contract Code Section 10162 Questionnaire is completed
- Noncollusion Declaration is executed and submitted with bid.
- Bidder Information is completed and correct.
- Proposal is complete and signed by authorized company representative.

2

Addendums, if any, are acknowledged. (Normally sent by facsimile and mail)

- "Bidder's Certification" (Just the Certification page) are executed and attached.

3

Bidder's Security.

- 10% of Bid Amount in Cash, Cashier's Check, Certified Check or Bidder's Bond.
- If Bidder's Bond, surety signature is notarized.
- If Bidder's Bond, surety power of attorney is attached.

4

ePRO.

- Registered as a Vendor in the ePro System prior to date and time to receive bid.
- Bid submitted through ePro, the original Bid Security must submitted in a separate sealed envelope labeled "Bid Bond" with the title of the work and name of bidder marked on outside of envelope to the Department of Public Works, Front Reception. Must be received on or before the time set for the opening of bids.
- For bid submission through ePro, scan and attach to your quote the Fully Executed Proposal Documents (pages P-1 thru P-20).
- Sign and date the "Acknowledgement ePro Process".
- For bid submission through ePro, scan and attach to your quote the fully executed Certification page for ALL Addendums.

5

REGISTERED WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) (SENATE BILL 854) & CALIFORNIA AIR RESOURCES BOARD (CARB) IN-USE OFF-ROAD DIESEL-FUEL FLEETS REGULATION COMPLIANCE CERTIFICATION.

- DIR Registration Number and CARB Certificate of Compliance Number identified for Bidder and all subcontractors.

ACKNOWLEDGEMENT OF ePro PROCESS

- Bidder is registered as a vendor with San Bernardino County Electronic Procurement Network (ePro) prior to date and time to receive bids.

- Bidder has logged-in to the ePro system with the correct commodity code and downloaded the official bid documents through the ePro system prior to the date and time to receive bids.

- If bidder submits a proposal via ePro, the proposal was uploaded in ePro while logged-in to the ePro system under the bidder's account.

- Bidder confirmed it is listed on the "Official Plan Holders List" by checking on ePro or by calling the County representative at (909) 387-7920 to confirm bidder is on the "Official Plan Holders List" prior to the date and time bids are publicly opened.

- Bidder to submit in person bidder's security and/or proposal in a sealed envelope prior to the proposal opening date and time.

**For system-related issues and technical assistance with ePro, please contact vendor support at ePro.Vendors@buyspeed.com or at (855) 800-5046. For questions involving ePro, such as user accounts, commodity codes, and/or status or placement on the Official Plan Holders List, please contact the Purchasing Department at (909) 387-2060.*

BIDDER'S CERTIFICATION:

By my signature hereunder, I acknowledge I fully understand the above requirements, which I have considered in my preparation of the proposal. I also understand that failure to comply with the above requirements will result in the rejection of bid.

Bidder's Signature

Date

Bidder: _____

Project: **Citrus Street and Other Roads - Phase I**

W.O.#: **H15161**

Limits: **Various Roads**

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
SCHEDULE A - BASE BID					
1	95,500	F.A.	Supplemental Work at Force Account (Unforeseen Subgrade Stabilization and Utility Conflict)	\$ 1.00	\$ 95,500
2	1	L.S.	Water Pollution Control Program	\$	\$
3	1	L.S.	Mobilization	\$	\$
4	1	L.S.	Quality Control Program	\$	\$
5	1	L.S.	Traffic Control System	\$	\$
6	1	L.S.	Finishing Roadway	\$	\$
7	1	L.S.	Develop Water Supply	\$	\$
4	4	EA.	Portable Changeable Message Sign	\$	\$
4	7	S.Y.	Remove Concrete (Sidewalk)	\$	\$
4	220	C.Y.	Roadway Excavation	\$	\$
8	1,100	S.Y.	Pulverize Asphalt Concrete Surfacing	\$	\$
9	1,650	S.Y.	Cold Plane Asphalt Concrete Pavement (0.10' Thk)	\$	\$
10	99,000	S.Y.	Cold Plane Asphalt Concrete Pavement (0.12' Thk)	\$	\$
11	86,500	S.Y.	Cold Plane Asphalt Concrete Pavement (0.15' Thk)	\$	\$
12	2	C.Y.	Minor Concrete (Sidewalk)	\$	\$
13	19,000	TON	Rubberized Asphalt Concrete Type G (1/2-inch Aggregate Gradation PG 64-16)	\$	\$
14	240	S.Y.	Asphalt Concrete (Type A, 1/2-inch Aggregate Gradation, PG 64-10)	\$	\$
15	1,100	S.Y.	2% Cement Treated Base (0.42' Thk)	\$	\$
16	68	EA.	Pavement Marker (Retroreflective - Blue)	\$	\$
17	1,077	L.F.	Paint 6" Wide Traffic Stripe (2-Coat)	\$	\$
18	1,890	L.F.	Paint 6" Double Yellow Traffic Stripe (2-Coat)	\$	\$
19	18,039	S.F.	Paint Pavement Marking (2-Coat)	\$	\$
20	75	EA.	Pavement Marker (Retroreflective - Type D and G)	\$	\$
21	69	S.F.	Thermoplastic Pavement Marking (2-Coat)	\$	\$
22	7	S.F.	Remove Thermoplastic Pavement Marking	\$	\$
SCHEDULE A SUBTOTAL					\$

Bidder: _____

Project: **Citrus Street and Other Roads - Phase I**

W.O.#: **H15161**

Limits: **Various Roads**

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
SCHEDULE B - ADDITIVE ITEM					
23	4,500	F.A.	Supplemental Work at Force Account (Unforeseen Subgrade Stabilization and Utility Conflict)	\$ 1.00	\$ 4,500
24	1	L.S.	Water Pollution Control Program	\$	\$
25	1	L.S.	Mobilization	\$	\$
26	1	L.S.	Quality Control Program	\$	\$
27	1	L.S.	Traffic Control System	\$	\$
28	1	L.S.	Finishing Roadway	\$	\$
29	1	L.S.	Develop Water Supply	\$	\$
31	1	S.Y.	Remove Concrete (Sidewalk)	\$	\$
32	2,600	S.Y.	Cold Plane Asphalt Concrete Pavement (0.10' Thk)	\$	\$
33	4,700	S.Y.	Cold Plane Asphalt Concrete Pavement (0.12' Thk)	\$	\$
34	4,200	S.Y.	Cold Plane Asphalt Concrete Pavement (0.15' Thk)	\$	\$
35	1	C.Y.	Minor Concrete (Sidewalk)	\$	\$
36	900	TON	Rubberized Asphalt Concrete Type G (1/2-inch Aggregate Gradation PG 64-16)	\$	\$
37	12	EA.	Pavement Marker (Retroreflective - Blue)	\$	\$
38	14	EA.	Pavement Marker (Retroreflective - Type D and G)	\$	\$
39	227	L.F.	Thermoplastic 6" Wide Traffic Stripe (2-Coat)	\$	\$
40	153	L.F.	Thermoplastic 8" Wide Traffic Stripe (2-Coat)	\$	\$
41	347	S.F.	Thermoplastic Pavement Marking (2-Coat)	\$	\$
42	391	L.F.	Remove Thermoplastic Traffic Stripe	\$	\$
43	278	S.F.	Remove Thermoplastic Pavement Marking	\$	\$
SCHEDULE B SUBTOTAL:					\$
PROJECT TOTAL:					

The County shall award the Contract for the Project to the lowest responsible bidder as determined pursuant to Public Contract Code Section 20103.8(b). The lowest bid shall be the lowest total of the bid prices on the base contract (Schedule A) and those additive or deductive items that are specifically identified in the bid solicitation (Schedule B) as being used for the purpose of determining the lowest bid price. Therefore, the lowest bid shall be the lowest total of the bid prices for the total of Schedule A and Schedule B (Total Base Bid + Total Additive Bid). The responsible bidder who submits the lowest bid for the Project as determined by this section shall be awarded the contract if it is awarded. This section does not preclude the County from adding to or deducting from the contract any of the additive items after the lowest responsible bidder has been determined. The County reserves the right to reject any or all bids, to waive technical errors, discrepancies, or informalities of a bid not affected by law if to do so seems to serve the public interest best.

The bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the unit price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price shall prevail, however, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, then the amount set forth in the "Total" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained, rounded to the next lower penny, shall be the unit price.

If this proposal shall be accepted, the contract shall be signed by the successful bidder and returned **within 10 days**, and the contract bonds, copy of insurance policies, and Certificates of Insurance, with documents to verify any self-insurance coverage shall be provided **within 10 days**, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Should the undersigned fail to contract as aforesaid, the Board of Supervisors may, at its option, determine that the bidder has abandoned the contract, and, thereupon, this proposal and the acceptance thereof shall be null and void, and the forfeiture of such security accompanying this proposal shall operate and the same may be the property of the San Bernardino County.

NOTE: THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED WITH THE PROPOSAL

BIDDER _____

The bidder shall complete the following information as required by the Subletting and Subcontracting Fair Practices Act, Public Contract Code section 4100 et seq.

Note: Subcontractors must be licensed and registered with the DIR (with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)) at the time of the bid opening.

Information marked with ** is required. (Make additional copies of this form if needed)

SUBCONTRACTORS LIST

Name: ** _____ Fed. ID: _____ Item(s) #: ** _____

Business Location: ** _____ % (s): _____

Telephone: () _____ Amount: \$ _____

License #: ** _____ Description of Work: ** _____

DIR Registration #:** _____ CARB Certificate of Compliance Registration #:** _____

Name: ** _____ Fed. ID: _____ Item(s) #: ** _____

Business Location: ** _____ % (s): _____

Telephone: () _____ Amount: \$ _____

License #: ** _____ Description of Work: ** _____

DIR Registration #:** _____ CARB Certificate of Compliance Registration #:** _____

Name: ** _____ Fed. ID: _____ Item(s) #: ** _____

Business Location: ** _____ % (s): _____

Telephone: () _____ Amount: \$ _____

License #: ** _____ Description of Work: ** _____

DIR Registration #:** _____ CARB Certificate of Compliance Registration #:** _____

Name: ** _____ Fed. ID: _____ Item(s) #: ** _____

Business Location: ** _____ % (s): _____

Telephone: () _____ Amount: \$ _____

License #: ** _____ Description of Work: ** _____

DIR Registration #:** _____ CARB Certificate of Compliance Registration #:** _____

NOTE: THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED WITH THE PROPOSAL

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In accordance with Public Contract Code section 10232, the Contractor hereby states, under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code section 10285.1, the bidder hereby declares under penalty of perjury that the bidder

has Check One has not

been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code section 1101, with any public entity, as defined in Public Contract Code section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Statements are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of these Statements.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

NOTE: THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED WITH THE PROPOSAL

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes

Check One

No

If the answer is yes, explain the circumstances in the following space.

NOTE: The above Questionnaire is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Questionnaire.
Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE
SECTIONS 9204, 20104, 20104.2, 20104.4, 20104.6, AND 20104.50
RESOLUTION OF CONSTRUCTION CLAIMS AND PROMPT PAYMENT

9204

(a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The

public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute

resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

20104.

(a)(1) This article applies to all public works claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between a contractor and a local agency.

(2) This article shall not apply to any claims resulting from a contract between a contractor and a public agency when the public agency has elected to resolve any disputes pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2.

(b)(1) "Public work" means "public works contract" as defined in Section 1101 but does not include any work or improvement contracted for by the state or the Regents of the University of California.

(2) "Claim" means a separate demand by the contractor for (A) a time extension, (B) payment of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public work and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (C) an amount the payment of which is disputed by the local agency.

(c) The provisions of this article or a summary thereof shall be set forth in the plans or specifications for any work which may give rise to a claim under this article.

(d) This article applies only to contracts entered into on or after January 1, 1991.

20104.2 For any claim subject to this article, the following requirements apply:

(a) The claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.

(b)(1) For claims of less than fifty thousand dollars (\$50,000), the local agency shall respond in writing to any written claim within 45 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

(c)(1) For claims of over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the local agency shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by the claimant in producing the additional information or requested documentation, whichever is greater.

(d) If the claimant disputes the local agency's written response, or the local agency fails to respond within the time prescribed, the claimant may so notify the local agency, in writing, either within 15 days of receipt of the local agency's response or within 15 days of the local agency's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the local agency shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(e) Following the meet and confer conference, if the claim or any portion remains in dispute, the claimant may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to subdivision (a) until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

(f) This article does not apply to tort claims and nothing in this article is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code.

20104.4 The following procedures are established for all civil actions filed to resolve claims subject to this article:

(a) Within 60 days, but no earlier than 30 days, following the filing or responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, shall be commenced within 30 days of the

submittal, and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.

(b)(1) If the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1141.11 of that code. The Civil Discovery Act (Title 4 (commencing with Section 2016.10) of Part 4 of the Code of Civil Procedure) shall apply to any proceeding brought under this subdivision consistent with the rules pertaining to judicial arbitration.

(2) Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article shall be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators shall be paid necessary and reasonable hourly rates of pay not to exceed their customary rate, and such fees and expenses shall be paid equally by the parties, except in the case of arbitration where the arbitrator, for good cause, determines a different division. In no event shall these fees or expenses be paid by state or county funds.

(3) In addition to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, any party who after receiving an arbitration award requests a trial de novo but does not obtain a more favorable judgment shall, in addition to payment of costs and fees under that chapter, pay the attorney's fees of the other party arising out of the trial de novo.

(c) The court may, upon request by any party, order any witnesses to participate in the mediation or arbitration process.

20104.6

(a) No local agency shall fail to pay money as to any portion of a claim which is undisputed except as otherwise provided in the contract.

(b) In any suit filed under Section 20104.4, the local agency shall pay interest at the legal rate on any arbitration award or judgment. The interest shall begin to accrue on the date the suit is filed in a court of law.

ARTICLE 1.7

Modification; Performance, Payment

20104.50

(a) (1) It is the intent of the Legislature in enacting this section to require all local governments to pay their contractors on time so that these contractors can meet their own obligations. In requiring prompt payment by all local governments, the Legislature hereby finds and declares that the prompt payment of outstanding receipts is not merely a municipal affair, but is, instead, a matter of statewide concern.

(2) It is the intent of the Legislature in enacting this article to fully occupy the field of public policy relating to the prompt payment of local governments' outstanding receipts. The Legislature finds and declares that all government officials, including those in local government, must set a standard of prompt payment that any business in the private sector which may contract for services should look towards for guidance.

(b) Any local agency which fails to make any progress payment within 30 days after receipt of an undisputed and properly submitted payment request from a contractor on a construction contract shall pay interest to the contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure.

(c) Upon receipt of a payment request, each local agency shall act in accordance with both of the following:

(1) Each payment request shall be reviewed by the local agency as soon as practicable after receipt for the purpose of determining that the payment request is a proper payment request.

(2) Any payment request determined not to be a proper payment request suitable for payment shall be returned to the contractor as soon as practicable, but not later than seven days, after receipt. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper.

(d) The number of days available to a local agency to make a payment without incurring interest pursuant to this section shall be reduced by the number of days by which a local agency exceeds the seven-day return requirement set forth in paragraph (2) of subdivision (c).

(e) For purposes of this article:

(1) A "local agency" includes, but is not limited to, a city, including a charter city, a county, and a city and county, and is any public entity subject to this part.

(2) A "progress payment" includes all payments due contractors, except that portion of the final payment designated by the contract as retention earnings.

(3) A payment request shall be considered properly executed if funds are available for payment of the payment request, and payment is not delayed due to an audit inquiry by the financial officer of the local agency.

(f) Each local agency shall require that this article, or a summary thereof, be set forth in the terms of any contract subject to this article.

NOTE: THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED WITH THE PROPOSAL

**NONCOLLUSION DECLARATION
TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID**

(Public Contract Code section 7106)

The undersigned declares:

I am the _____ [title] of _____ [name of the bidder], the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on

_____ [date], at _____ [city], _____ [state].

Print Name

Signature - REQUIRED

NOTE: The above Noncollusion Declaration is part of the Bid, and failure to include the Noncollusion Declaration with the Bid will result in the Bid being found nonresponsive.

Bidders are reminded that this declaration must be signed under penalty of perjury.

If the bid proposal is submitted through ePro the undersigned acknowledges that its electronic signature is legally binding.

**IRAN CONTRACTING ACT OF 2010
(Public Contract Code section 2200 et seq.)**

(Applicable only to Contracts of One Million Dollars (\$1,000,000) or More):

In accordance with Public Contract Code section 2204 (a), the bidder certifies that at the time the bid is submitted or the contract is renewed, that bidder is not identified on a list created pursuant to subdivision (b) of Public Contract Code section 2203 as a person engaging in investment activities in Iran described in subdivision (a) of Public Contract Code section 2202.5, or as a person described in subdivision (b) of Public Contract Code section 2202.5, as applicable. A state agency shall submit the certification information to the Department of General Services.

RUSSIAN SANCTION/EXECUTIVE ORDER N-6-22

(Applicable for all Contracts of five million dollars (\$5,000,000) or more utilizing State funding.):

On March 4, 2022, Governor Gavin Newsom issued Executive Order N-6-22 (the EO) regarding Economic Sanctions against Russia and Russian entities and individuals. "Economic Sanctions" refers to sanctions imposed by the U.S. government in response to Russia's actions in Ukraine (<https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions>), as well as any sanctions imposed under state law (<https://www.dgs.ca.gov/OLS/Ukraine-Russia>). The EO directs state agencies and their contractors (including by agreement or receipt of a grant) to terminate contracts with, and to refrain from entering any new contracts with, individuals or entities that are determined to be a target of Economic Sanctions. Accordingly, should it be determined that Contractor is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for termination of this agreement. Contractor shall be provided advance written notice of such termination, allowing Contractor at least 30 calendar days to provide a written response. Termination shall be at the sole discretion of the County.

NOTE: The above Certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

Bidders are cautioned that making a false certification may subject bidder to civil penalties, termination of existing contract, and ineligibility to bid on a contract for a period of three (3) years in accordance with Public Contract Code section 2205.

NOTE: THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED WITH THE PROPOSAL

Accompanying this proposal is _____
in the amount equal to at least ten percent of the total of the bid.

(Note: Insert the words "CASH (\$)," "CASHIER'S CHECK," "CERTIFIED CHECK," or "BIDDER'S BOND," as the case may be.)

The names of all persons interested in the foregoing proposal as principals are as follows:

NOTICE: If the bidder or other interested person is a corporation, state legal name of corporation, also names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if bidder or other interested person is an individual, state first and last names in full.

Licensed in accordance with an act providing for the registration of Contractors,

License No.: _____ Expiration Date: _____

Dept. of Industrial Relations Reg. No: _____ Federal Identification No.: _____

By my signature on this proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing documents are true and correct and that the bidder satisfies all of the requirements identified in said documents.

If the bid proposal is submitted through ePro the undersigned acknowledges that its electronic signature is legally binding.

<u>Print Name</u>	<u>Signature - REQUIRED</u>	<u>Title</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date: _____

Name of Bidder _____

Business Address _____

Place of Business _____

Business Phone No. _____ Business Fax No. _____

Place of Residence _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____

_____, as Principal, (hereinafter called the "Principal"),

and _____, as Surety, (hereinafter called "Surety"),

an admitted Surety insurer pursuant to Code of Civil Procedure, Section 995.120, legally doing business in California at:

_____ are held and firmly bound unto the **SAN BERNARDINO COUNTY**, as Obligee, (hereinafter called "**Obligee**"), in the sum of

_____ Dollars (\$_____),

for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

WHEREAS, the Principal has submitted a bid for:

CITRUS STREET AND OTHER ROADS - PHASE I

Various Roads

LENGTH: 10.57 Miles

W.O.: H15161

AREA: San Bernardino

ROAD NO.: Various

BID DATE: _____

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a contract with the Obligee in accordance with the terms of said proposal and give such bonds as may be specified in the bidding or contract documents with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter into such contract and give such bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____, _____ Year

Principal

Surety

By: _____
Signature

By: _____
Signature, Attorney-in-Fact

Printed Name

Printed Name

Title



Contract Number

SAP Number

PUBLIC WORKS

Department Contract Representative _____
Telephone Number _____

Contractor _____
Contractor Representative _____
Telephone Number _____
Contract Term _____
Original Contract Amount _____
Amendment Amount _____
Total Contract Amount _____
Cost Center _____

IT IS HEREBY AGREED AS FOLLOWS:

(Use space below and additional bond sheets. Set forth service to be rendered, amount to be paid, manner of payment, time for performance or completion, determination of satisfactory performance and cause for termination, other terms and conditions, and attach plans, specifications, and addenda, if any.)

ARTICLE I. That for and in consideration of payment and agreements hereinafter mentioned to be made and performed by County, and under the conditions expressed in the two bonds, hereunto annexed, Contractor agrees with County, at Contractor's own proper cost and expense to do all the work and to furnish all the materials necessary to construct and complete in a good, workmanlike and substantial manner, this project to the satisfaction of the Director of Public Works in accordance with the following documents, which are incorporated herein by this reference, and the articles set out below:

California Department of Transportation (Caltrans) 2015 Standard Specifications and the 2015 Standard Plans, including the Caltrans 2015 Revised Standard Specifications and the 2015 Revised Standard Plans (Revisions on both the Standard Specifications and the Standard Plans through July 21, 2017), unless specified otherwise in the contract documents.

Caltrans Standard Plans dated 2018 (Latest revisions), unless specified otherwise in these Special Provisions

Special Provisions entitled: Special Provisions for Construction on Citrus Street and Other Roads - Phase I Various Roads, Length: 10.57 Miles; Work Order No.: H15161; Area: San Bernardino; Road No.: Various.

ARTICLE II. Contractor agrees to receive and accept the following prices as full compensation for furnishing all materials and for doing all the work contemplated and embraced in this agreement; also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work, until its acceptance by the County, and for all risks of every description connected with the work; also for expenses incurred by or in consequence of the suspension or discontinuance of work and for well and faithfully completing the work, and the whole thereof, in the manner and according to the plans and specifications, and the requirements of the Engineer under them, to wit: of work and for well and faithfully completing the work, and the whole thereof, in the manner and according to the plans and specifications, and the requirements of the Engineer under them, to wit:

Project: Various Roads (See Below)

W.O.#: (See Below)

Limits: Various Roads (See Below)

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
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Table of Contract Quantities, Items and Prices will be shown here

NOT FOR BIDD

ARTICLE III. County hereby promises and agrees with Contractor to employ and does hereby employ Contractor to provide the materials and to do the work according to the terms and conditions herein contained and referred to, for the prices aforesaid, and thereby contracts to pay the same at the time, in the manner and upon conditions above set forth, and said parties hereto for themselves, their heirs, executors, administrators, successors and assigns do hereby agree to the full performance of the covenants herein contained.

ARTICLE IV. Contractor shall accept all payments from County via electronic funds transfer (EFT) directly deposited into the Contractor's designated checking or other banking account. Contractor shall promptly comply with directions and accurately complete forms provided by County required to process EFT payments.

ARTICLE V. Contractor may, upon written request and at their expense, deposit substitute securities found in Government Code Section 16430 as authorized by Public Contract Code Section 22300 in lieu of retention monies withheld to insure performance.

ARTICLE VI. It is further expressly agreed by and between the parties hereto that, should there be any conflict between the terms of this instrument and the bid or proposal of said Contractor, then this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said proposal conflicting herewith.

ARTICLE VII. During the term of the Contract, Contractor shall not discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, sexual orientation, age, or military and veteran status. CONTRACTOR shall comply with Executive Orders 11246, 11375, 11625, 12138, 12432, 12250, Title VI and VII of the Civil Rights Act of 1964, the California Fair Housing and Employment Act, County Policy and other applicable federal, state and County laws, regulations and policies relating to equal employment and contracting opportunities, including laws and regulations hereafter enacted.

ARTICLE VIII. By my signature hereunder, as Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers Compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

ARTICLE IX. By my signature hereunder, as Contractor, I certify that I am aware of the provisions and requirements of Sections 1777.5 and 1777.7 of the Labor Code relating to apprenticeship standards; and that I accept responsibility for compliance with the provisions of Section 1777.5 for all apprenticeable occupations pertaining to performance of work under this contract.

ARTICLE X. By my signature hereunder, as Contractor, I agree that County has the right to review, obtain and copy all records pertaining to performance of the contract. I agree to provide County with any relevant information requested and shall permit County access to company's premises upon reasonable notice for purposes on interviewing employees and inspecting records. I shall maintain all project records for at least three (3) years after final payment under the contract.

ARTICLE XI. Contractor shall comply with the Prevailing Wage Laws described in this Agreement, including Exhibit A.

As required by Labor Code section 1771.1(a) "A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded."

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BOARD OF SUPERVISORS

►

Dawn Rowe, Chair, Board of Supervisors

Dated: _____
SIGNED AND CERTIFIED THAT A COPY OF THIS
DOCUMENT HAS BEEN DELIVERED TO THE
CHAIRMAN OF THE BOARD

Lynna Monell
Clerk of the Board of Supervisors
of the San Bernardino County

By _____
Deputy

(Print or type name of corporation, company, contractor, etc.)

By _____
(Authorized signature - sign in blue ink)

Name _____
(Print or type name of person signing contract)

Title _____
(Print or Type)

Dated: _____

Address _____

FOR COUNTY USE ONLY

Approved as to Legal Form

Reviewed for Contract Compliance

Reviewed/Approved by Department

►

, County Counsel

►

►

Date _____

Date _____

Date _____

NOT FOR BID

EXHIBIT A - PREVAILING WAGE REQUIREMENTS

A. All or a portion of the Scope of Work in the Contract requires the payment of prevailing wages and compliance with the following requirements:

1. **Determination of Prevailing Rates:**

Pursuant to Labor Code sections 1770, et seq., the County has obtained from the Director of the Department of Industrial Relations (DIR) pursuant to the California Labor Code, the general prevailing rates of per diem wages and the prevailing rates for holiday and overtime work in the locality in which the Scope of Work is to be performed. Copies of said rates are on file with the County, will be made available for inspection during regular business hours, may be included elsewhere in the specifications for the Scope of Work, and are also available online at www.dir.ca.gov. The wage rate for any classification not listed, but which may be required to execute the Scope of Work, shall be commensurate and in accord with specified rates for similar or comparable classifications for those performing similar or comparable duties. In accordance with Labor Code section 1773.2, the Contractor shall post, at appropriate and conspicuous locations on the job site, a schedule showing all applicable prevailing wage rates and shall comply with the requirements of Labor Code sections 1773, et seq.

2. **Payment of Prevailing Rates**

Each worker of the Contractor, or any subcontractor, engaged in the Scope of Work, shall be paid not less than the general prevailing wage rate, regardless of any contractual relationship which may be alleged to exist between the Contractor or any subcontractor, and such worker.

3. **Prevailing Rate Penalty**

The Contractor shall, as a penalty, forfeit two hundred dollars (\$200.00) to the County for each calendar day or portion thereof, for each worker paid less than the prevailing rates as determined by the Director of the DIR for such work or craft in which such worker is employed by the Contractor or by any subcontractor in connection with the Scope of Work. Pursuant to California Labor Code section 1775, the difference between such prevailing wage rates and the amount paid to each worker for each calendar day, or portion thereof, for which each worker was paid less than the prevailing wage rate, shall be paid to each worker by the Contractor.

4. **Ineligible Contractors:**

Pursuant to the provisions of Labor Code section 1777.1, the Labor Commissioner publishes and distributes a list of contractors ineligible to perform work as a contractor or subcontractor on a public works project. This list of debarred contractors is available from the DIR website at <http://www.dir.ca.gov/Public-Works/PublicWorks.html>. Any contract entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the County. The Contractor shall be responsible for the payment of wages to workers as a debarred subcontractor who has been allowed to work on the Scope of Work.

5. **Payroll Records:**

- a. Pursuant to California Labor Code section 1776, the Contractor and each subcontractor, shall keep accurate certified payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed by them in connection with the Scope of Work. The payroll records enumerated herein shall be verified by a written declaration made under penalty of perjury that the information contained in the payroll record is true and correct and that the Contractor or subcontractor has complied with the requirements of the California Labor Code sections 1771, 1811, and 1815 for any Scope of Work performed by his or her employees. The payroll records shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following basis:

- i. A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or his/her authorized representative on request;
 - ii. A certified copy of all payroll records shall be made available for inspection or furnished upon request to the County, the Division of Labor Standards Enforcement of the DIR;
 - iii. A certified copy of payroll records shall be made available upon request to the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the County or the Division of Labor Standards Enforcement. If the requested payroll records have not been previously provided to the County or the Division of Labor Standards Enforcement, the requesting party shall, prior to being provided the records, reimburse the cost of preparation by the Contractor, subcontractor and the entity through which the request was made; the public shall not be given access to such records at the principal office of the Contractor;
 - iv. The Contractor shall file a certified copy of the payroll records with the entity that requested such records within ten (10) days after receipt of a written request; and
 - v. Copies provided to the public, by the County or the Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address and social security number. The name and address of the Contractor or any subcontractor, performing a part of the Scope of Work shall not be marked or obliterated. The Contractor shall inform the County of the location of payroll records, including the street address, city and county and shall, within five (5) working days, provide a notice of a change of location and address.
- b. The Contractor shall have ten (10) days from receipt of the written notice specifying in what respects the Contractor must comply with the above requirements. In the event Contractor does not comply with the requirements of this section within the ten (10) day period, the Contractor shall, as a penalty to the County, forfeit one-hundred dollars (\$100.00) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Labor Standards Enforcement, such penalty shall be withheld from any portion of the payments then due or to become due to the Contractor.

6. Limits on Hours of Work:

Pursuant to California Labor Code section 1810, eight (8) hours of labor shall constitute a legal day's work. Pursuant to California Labor Code section 1811, the time of service of any worker employed at any time by the Contractor or by a subcontractor, upon the Scope of Work or upon any part of the Scope of Work, is limited and restricted to eight (8) hours during any one calendar day and forty (40) hours during any one calendar week, except as provided for under Labor Code section 1815. Notwithstanding the foregoing provisions, work performed by employees of Contractor or any subcontractor, in excess of eight (8) hours per day and forty (40) hours during any one week, shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half (1½) times the basic rate of pay.

7. Penalty for Excess Hours:

The Contractor shall pay to the County a penalty of twenty-five dollars (\$25.00) for each worker employed on the Scope of Work by the Contractor or any subcontractor, for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any calendar day and forty (40) hours in any one calendar week, in violation of the provisions of the California Labor Code, unless compensation to the worker so employed by the Contractor is not less than one and one-half (1½) times the basic rate of pay for all hours worked in excess of eight (8) hours per day.

8. Senate Bill 854 (Chapter 28, Statutes of 2014) and Senate Bill 96 (Chapter 28, Statutes of 2017) Requirements:

- a. Contractor shall comply with Senate Bill 854 and Senate Bill 96. The requirements include, but are not limited to, the following:
- i. No contractor or subcontractor may be listed on a bid proposal (submitted on or after March 1, 2015) for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5, with limited exceptions from this requirements for bid purposes only as allowed under Labor Code section 1771.1(a).
 - ii. No contractor or subcontractor may be awarded a contract for public work or perform work on a public works project (awarded on or after April 1, 2015) unless registered with the DIR pursuant to Labor Code section 1725.5.
 - iii. This project is subject to compliance monitoring and enforcement by the DIR.
 - iv. As required by the DIR, Contractor is required to post job site notices, as prescribed by regulation, regarding compliance monitoring and enforcement by the DIR.
 - v. Contractors and all subcontractors must submit certified payroll records online to the Labor Commissioner for all new public works projects issued on or after April 1, 2015, and for all public works projects, new or ongoing, on or after January 1, 2016.
 - 1) The certified payroll must be submitted at least monthly to the Labor Commissioner.
 - 2) The County reserves the right to require Contractor and all subcontractors to submit certified payroll records more frequently than monthly to the Labor Commissioner.
 - 3) The certified payroll records must be in a format prescribed by the Labor Commissioner.
 - vi. Registration with the DIR and the submission of certified payroll records to the Labor Commissioner are not required if the public works project is \$25,000 or less when the project is for construction, alteration, demolition, installation or repair work, or if the public works project is \$15,000 or less when the project is for maintenance work.
- b. Labor Code section 1725.5 states the following:

“A contractor shall be registered pursuant to this section to be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any public work contract that is subject to the requirements of this chapter. For the purposes of this section, “contractor” includes a subcontractor as defined by Section 1722.1.

(a) To qualify for registration under this section, a contractor shall do all of the following:

(1) (A) Register with the Department of Industrial Relations in the manner prescribed by the department and pay an initial nonrefundable application fee of four hundred dollars (\$400) to qualify for registration under this section and an annual renewal fee on or before July 1 of each year thereafter. The annual renewal fee shall be in a uniform amount set by the Director of Industrial Relations, and the initial registration and renewal fees may be adjusted no more than annually by the director to support the costs specified in Section 1771.3.

(B) Beginning June 1, 2019, a contractor may register or renew according to this subdivision in annual increments up to three years from the date of registration. Contractors who wish to do so will be required to prepay the applicable nonrefundable application or renewal fees to qualify for the number of years for which they wish to preregister.

(2) Provide evidence, disclosures, or releases as are necessary to establish all of the following:

(A) Workers' compensation coverage that meets the requirements of Division 4 (commencing with Section 3200) and includes sufficient coverage for any worker whom the contractor

employs to perform work that is subject to prevailing wage requirements other than a contractor who is separately registered under this section. Coverage may be evidenced by a current and valid certificate of workers' compensation insurance or certification of self-insurance required under Section 7125 of the Business and Professions Code.

(B) If applicable, the contractor is licensed in accordance with Chapter 9 (commencing with Section 7000) of the Business and Professions Code.

(C) The contractor does not have any delinquent liability to an employee or the state for any assessment of back wages or related damages, interest, fines, or penalties pursuant to any final judgment, order, or determination by a court or any federal, state, or local administrative agency, including a confirmed arbitration award. However, for purposes of this paragraph, the contractor shall not be disqualified for any judgment, order, or determination that is under appeal, provided that the contractor has secured the payment of any amount eventually found due through a bond or other appropriate means.

(D) The contractor is not currently debarred under Section 1777.1 or under any other federal or state law providing for the debarment of contractors from public works.

(E) The contractor has not bid on a public works contract, been listed in a bid proposal, or engaged in the performance of a contract for public works without being lawfully registered in accordance with this section, within the preceding 12 months or since the effective date of the requirements set forth in subdivision (e), whichever is earlier. If a contractor is found to be in violation of the requirements of this paragraph, the period of disqualification shall be waived if both of the following are true:

(i) The contractor has not previously been found to be in violation of the requirements of this paragraph within the preceding 12 months.

(ii) The contractor pays an additional nonrefundable penalty registration fee of two thousand dollars (\$2,000).

(b) Fees received pursuant to this section shall be deposited in the State Public Works Enforcement Fund established by Section 1771.3 and shall be used only for the purposes specified in that section.

(c) A contractor who fails to pay the renewal fee required under paragraph (1) of subdivision (a) on or before the expiration of any prior period of registration shall be prohibited from bidding on or engaging in the performance of any contract for public work until once again registered pursuant to this section. If the failure to pay the renewal fee was inadvertent, the contractor may renew its registration retroactively by paying an additional nonrefundable penalty renewal fee equal to the amount of the renewal fee within 90 days of the due date of the renewal fee.

(d) If, after a body awarding a contract accepts the contractor's bid or awards the contract, the work covered by the bid or contract is determined to be a public work to which Section 1771 applies, either as the result of a determination by the director pursuant to Section 1773.5 or a court decision, the requirements of this section shall not apply, subject to the following requirements:

(1) The body that awarded the contract failed, in the bid specification or in the contract documents, to identify as a public work that portion of the work that the determination or decision subsequently classifies as a public work.

(2) Within 20 days following service of notice on the awarding body of a determination by the Director of Industrial Relations pursuant to Section 1773.5 or a decision by a court that the contract was for public work as defined in this chapter, the contractor and any subcontractors

are registered under this section or are replaced by a contractor or subcontractors who are registered under this section.

(3) The requirements of this section shall apply prospectively only to any subsequent bid, bid proposal, contract, or work performed after the awarding body is served with notice of the determination or decision referred to in paragraph (2).

(e) The requirements of this section shall apply to any bid proposal submitted on or after March 1, 2015, to any contract for public work, as defined in this chapter, executed on or after April 1, 2015, and to any work performed under a contract for public work on or after January 1, 2018, regardless of when the contract for public work was executed.

(f) This section does not apply to work performed on a public works project of twenty-five thousand dollars (\$25,000) or less when the project is for construction, alteration, demolition, installation, or repair work or to work performed on a public works project of fifteen thousand dollars (\$15,000) or less when the project is for maintenance work.”

c. Labor Code section 1771.1 states the following:

“(a) A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

(b) Notice of the requirement described in subdivision (a) shall be included in all bid invitations and public works contracts, and a bid shall not be accepted nor any contract or subcontract entered into without proof of the contractor or subcontractor's current registration to perform public work pursuant to Section 1725.5.

(c) An inadvertent error in listing a subcontractor who is not registered pursuant to Section 1725.5 in a bid proposal shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive, provided that any of the following apply:

(1) The subcontractor is registered prior to the bid opening.

(2) Within 24 hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in subparagraph (E) of paragraph (2) of subdivision (a) of Section 1725.5.

(3) The subcontractor is replaced by another registered subcontractor pursuant to Section 4107 of the Public Contract Code.

(d) Failure by a subcontractor to be registered to perform public work as required by subdivision (a) shall be grounds under Section 4107 of the Public Contract Code for the contractor, with the consent of the awarding authority, to substitute a subcontractor who is registered to perform public work pursuant to Section 1725.5 in place of the unregistered subcontractor.

(e) The department shall maintain on its Internet Web site a list of contractors who are currently registered to perform public work pursuant to Section 1725.5.

(f) A contract entered into with any contractor or subcontractor in violation of subdivision (a) shall be subject to cancellation, provided that a contract for public work shall not be unlawful, void, or voidable solely due to the failure of the awarding body, contractor, or any subcontractor to comply with the requirements of Section 1725.5 or this section.

(g) If the Labor Commissioner or his or her designee determines that a contractor or subcontractor engaged in the performance of any public work contract without having been registered in accordance with this section, the contractor or subcontractor shall forfeit, as a civil penalty to the state, one hundred dollars (\$100) for each day of work performed in violation of the registration requirement, not to exceed an aggregate penalty of eight thousand dollars (\$8,000) in addition to any penalty registration fee assessed pursuant to clause (ii) of subparagraph (E) of paragraph (2) of subdivision (a) of Section 1725.5.

(h)(1) In addition to, or in lieu of, any other penalty or sanction authorized pursuant to this chapter, a higher tiered public works contractor or subcontractor who is found to have entered into a subcontract with an unregistered lower tier subcontractor to perform any public work in violation of the requirements of Section 1725.5 or this section shall be subject to forfeiture, as a civil penalty to the state, of one hundred dollars (\$100) for each day the unregistered lower tier subcontractor performs work in violation of the registration requirement, not to exceed an aggregate penalty of ten thousand dollars (\$10,000).

(2) The Labor Commissioner shall use the same standards specified in subparagraph (A) of paragraph (2) of subdivision (a) of Section 1775 when determining the severity of the violation and what penalty to assess, and may waive the penalty for a first time violation that was unintentional and did not hinder the Labor Commissioner's ability to monitor and enforce compliance with the requirements of this chapter.

(3) A higher tiered public works contractor or subcontractor shall not be liable for penalties assessed pursuant to paragraph (1) if the lower tier subcontractor's performance is in violation of the requirements of Section 1725.5 due to the revocation of a previously approved registration.

(4) A subcontractor shall not be liable for any penalties assessed against a higher tiered public works contractor or subcontractor pursuant to paragraph (1). A higher tiered public works contractor or subcontractor may not require a lower tiered subcontractor to indemnify or otherwise be liable for any penalties pursuant to paragraph (1).

(i) The Labor Commissioner or his or her designee shall issue a civil wage and penalty assessment, in accordance with the provisions of Section 1741, upon determination of penalties pursuant to subdivision (g) and subparagraph (B) of paragraph (1) of subdivision (h). Review of a civil wage and penalty assessment issued under this subdivision may be requested in accordance with the provisions of Section 1742. The regulations of the Director of Industrial Relations, which govern proceedings for review of civil wage and penalty assessments and the withholding of contract payments under Article 1 (commencing with Section 1720) and Article 2 (commencing with Section 1770), shall apply.

(j)(1) Where a contractor or subcontractor engages in the performance of any public work contract without having been registered in violation of the requirements of Section 1725.5 or this section, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractor or the unregistered subcontractor on all public works until the unregistered contractor or unregistered subcontractor is registered. The stop order shall not apply to work by registered contractors or subcontractors on the public work.

(2) A stop order may be personally served upon the contractor or subcontractor by either of the following methods:

(A) Manual delivery of the order to the contractor or subcontractor personally.

(B) Leaving signed copies of the order with the person who is apparently in charge at the site of the public work and by thereafter mailing copies of the order by first class mail, postage prepaid to the contractor or subcontractor at one of the following:

(i) The address of the contractor or subcontractor on file with either the Secretary of State or the Contractors' State License Board.

(ii) If the contractor or subcontractor has no address on file with the Secretary of State or the Contractors' State License Board, the address of the site of the public work.

(3) The stop order shall be effective immediately upon service and shall be subject to appeal by the party contracting with the unregistered contractor or subcontractor, by the unregistered contractor or subcontractor, or both. The appeal, hearing, and any further review of the hearing decision shall be governed by the procedures, time limits, and other requirements specified in subdivision (a) of Section 238.1.

(4) Any employee of an unregistered contractor or subcontractor who is affected by a work stoppage ordered by the commissioner pursuant to this subdivision shall be paid at his or her regular hourly prevailing wage rate by that employer for any hours the employee would have worked but for the work stoppage, not to exceed 10 days.

(k) Failure of a contractor or subcontractor, owner, director, officer, or managing agent of the contractor or subcontractor to observe a stop order issued and served upon him or her pursuant to subdivision (j) is guilty of a misdemeanor punishable by imprisonment in county jail not exceeding 60 days or by a fine not exceeding ten thousand dollars (\$10,000), or both.

(l) This section shall apply to any bid proposal submitted on or after March 1, 2015, and any contract for public work entered into on or after April 1, 2015. This section shall also apply to the performance of any public work, as defined in this chapter, on or after January 1, 2018, regardless of when the contract for public work was entered.

(m) Penalties received pursuant to this section shall be deposited in the State Public Works Enforcement Fund established by Section 1771.3 and shall be used only for the purposes specified in that section.

(n) This section shall not apply to work performed on a public works project of twenty-five thousand dollars (\$25,000) or less when the project is for construction, alteration, demolition, installation, or repair work or to work performed on a public works project of fifteen thousand dollars (\$15,000) or less when the project is for maintenance work."

d. Labor Code section 1771.4 states the following:

"a) All of the following are applicable to all public works projects that are otherwise subject to the requirements of this chapter:

(1) The call for bids and contract documents shall specify that the project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

(2) The awarding body shall post or require the prime contractor to post job site notices, as prescribed by regulation.

(3) Each contractor and subcontractor shall furnish the records specified in Section 1776 directly to the Labor Commissioner, in the following manner:

(A) At least monthly or more frequently if specified in the contract with the awarding body.

(B) In a format prescribed by the Labor Commissioner.

(4) If the contractor or subcontractor is not registered pursuant to Section 1725.5 and is performing work on a project for which registration is not required because of subdivision (f) of Section 1725.5, the unregistered contractor or subcontractor is not required to furnish the records specified in Section 1776 directly to the Labor Commissioner but shall retain the records specified in Section 1776 for at least three years after completion of the work.

(5) The department shall undertake those activities it deems necessary to monitor and enforce compliance with prevailing wage requirements.

(b) The Labor Commissioner may exempt a public works project from compliance with all or part of the requirements of subdivision (a) if either of the following occurs:

(1) The awarding body has enforced an approved labor compliance program, as defined in Section 1771.5, on all public works projects under its authority, except those deemed exempt pursuant to subdivision (a) of Section 1771.5, continuously since December 31, 2011.

(2) The awarding body has entered into a collective bargaining agreement that binds all contractors performing work on the project and that includes a mechanism for resolving disputes about the payment of wages.

(c) The requirements of paragraph (1) of subdivision (a) shall only apply to contracts for public works projects awarded on or after January 1, 2015.

(d) The requirements of paragraph (3) of subdivision (a) shall apply to all contracts for public work, whether new or ongoing, on or after January 1, 2016.”

B. STATE PUBLIC WORKS APPRENTICESHIP REQUIREMENTS

1. State Public Works Apprenticeship Requirements:

- a. The Contractor is responsible for compliance with Labor Code section 1777.5 and the California Code of Regulations, title 8, sections 230 – 230.2 for all apprenticeable occupations (denoted with “#” symbol next to craft name in DIR Prevailing Wage Determination), whether employed by the Contractor, subcontractor, vendor or consultant. Included in these requirements is (1) the Contractor’s requirement to provide notification (i.e. DAS-140) to the appropriate apprenticeship committees; (2) pay training fund contributions for each apprenticeable hour employed on the Contract; and (3) utilize apprentices in a minimum ratio of not less than one apprentice hour for each five journeyman hours by completion of Contract work (unless an exception is granted in accordance with Labor Code section 1777.5) or request for the dispatch of apprentices.
- b. Any apprentices employed to perform any of the Scope of Work shall be paid the standard wage to apprentices under the regulations of the craft or trade for which such apprentice is employed, and such individual shall be employed only for the work of the craft or trade to which such individual is registered. Only apprentices, as defined in California Labor Code section 3077, who are in training under apprenticeship standards and written apprenticeship agreements under California Labor Code sections 3070 et seq. are eligible to be employed for the Scope of Work. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and apprentice agreements under which such apprentice is training.

2. Compliance with [California Labor Code section 1777.5](#) requires all public works contractors to:

- a. Submit Contract Award Information (DAS-140):
 - i. Although there are a few exemptions (identified below), all Contractors, regardless of union affiliation, must submit contract award information when performing on a California public works project.
 - ii. The DAS-140 is a notification “announcement” of the Contractor’s participation on a public works project—*it is not a request for the dispatch of an apprentice*.
 - iii. Contractors shall submit the contract award information (you may use form DAS 140) within 10 days of the execution of the prime contract or subcontract, but in no event later than the first day in which the Contractor has workers employed on the public work.

- iv. Contractors who are already approved to train apprentices (i.e. check “Box 1” on the DAS-140) shall only be required to submit the form to their approved program.
 - v. Contractors who are NOT approved to train apprentices (i.e. those that check either “Box 2” or “Box 3” on the DAS-140) shall submit the DAS-140 TO EACH of the apprenticeship program sponsors in the area of your public works project. For a listing of apprenticeship programs see <http://www.dir.ca.gov/Databases/das/pwaddrstart.asp>.
- b. Employ Registered Apprentices
- i. Labor Code section 1777.5 requires that a contractor performing work in an “apprenticeable” craft must employ one (1) hour of apprentice work for every five (5) hours performed by a journeyman. This ratio shall be met prior to the Contractor’s completion of work on the project. “Apprenticeable” crafts are denoted with a pound symbol “#” in front of the craft name on the prevailing wage determination.
 - ii. All Contractors who do not fall within an exemption category (see below) must request for dispatch of an apprentice from an apprenticeship program (for each apprenticeable craft or trade) by giving the program actual notice of at least 72 hours (business days only) before the date on which apprentices are required.
 - iii. Contractors may use the “DAS-142” form for making a request for the dispatch of an apprentice.
 - iv. Contractors who are participating in an approved apprenticeship training program and who did not receive sufficient number of apprentices from their initial request must request dispatch of apprentices from ALL OTHER apprenticeship committees in the project area in order to fulfill this requirement.
 - v. Contractor should maintain and submit proof (when requested) of its DAS-142 submittal to the apprenticeship committees (e.g. fax transmittal confirmation). A Contractor has met its requirement to employ apprentices only after it has successfully made a dispatch request to all apprenticeship programs in the project area.
 - vi. Only “registered” apprentices may be paid the prevailing apprentice rates and must, at all times work under the supervision of a Journeyman (Cal. Code Regs., tit 8, § 230.1).
- c. Make Training Fund Contributions
- i. Contractors performing in apprenticeable crafts on public works projects, must make training fund contributions in the amount established in the prevailing wage rate publication for journeymen and apprentices.
 - ii. Contractors may use the “CAC-2” form for submittal of their training fund contributions.
 - iii. Contractors who do not submit their training fund contributions to an approved apprenticeship training program must submit their contributions to the California Apprenticeship Council (CAC), PO Box 420603, San Francisco, CA 94142-0603.
 - iv. Training fund contributions to the CAC are due and payable on the 15th day of the month for work performed during the preceding month.
 - v. The “training” contribution amount identified on the prevailing wage determination shall not be paid to the worker, unless the worker falls within one of the exemption categories listed below.

3. Exemptions to Apprenticeship Requirements:

- a. The following are exempt from having to comply with California apprenticeship requirements. These types of contractors do not need to submit a DAS-140, DAS-142, make training fund contributions, or utilize apprentices:
- i. When the Contractor holds a sole proprietor license (“Owner-Operator”) and no workers were employed by the Contractor. In other words, the contractor performed the entire work from start to finish and worked alone.

- ii. Contractors performing in non-apprenticeable crafts. "Apprenticeable" crafts are denoted with a pound symbol "#" in front of the craft name on the prevailing wage determination.
- iii. When the Contractor has a direct contract with the Public Agency that is under \$30,000.
- iv. When the project is 100% federally-funded and the funding of the project does not contain any city, county, and/or state monies (unless the project is administered by a state agency in which case the apprenticeship requirements apply).
- v. When the project is a private project not covered by the definition of public works as found in Labor Code section 1720.

4. Exemption from Apprenticeship Ratios:

- a. The Joint Apprenticeship Committee shall have the discretion to grant a certificate, which shall be subject to the approval of the Administrator of Apprenticeship, exempting the Contractor from the 1-to-5 ratio set forth in this Section when it finds that any one of the following conditions are met:
 - i. Unemployment for the previous three-month period in such area exceeds an average of fifteen percent (15%); or
 - ii. The number of apprentices in training in such area exceeds a ratio of 1-to-5 in relation to journeymen; or
 - iii. The Apprenticeable Craft or Trade is replacing at least one-thirtieth (1/30) of its journeymen annually through apprenticeship training, either on a statewide basis or on a local basis; or
 - iv. If assignment of an apprentice to any work performed under the Contract Documents would create a condition which would jeopardize such apprentice's life or the life, safety or property of fellow employees or the public at large, or if the specific task to which the apprentice is to be assigned is of such a nature that training cannot be provided by a journeyman.
- b. When such exemptions from the 1-to-5 ratio between apprentices and journeymen are granted to an organization which represents contractors in a specific trade on a local or statewide basis, the member contractors will not be required to submit individual applications for approval to local Joint Apprenticeship Committees, provided they are already covered by the local apprenticeship standards.

5. Contractor's Compliance:

- a. The responsibility of compliance with this Section for all Apprenticeable Trades or Crafts is solely and exclusively that of the Contractor. All decisions of the Joint Apprenticeship Committee(s) under this Section are subject to the provisions of California Labor Code section 3081 and penalties are pursuant to Labor Code section 1777.7 and the determination of the Labor Commissioner.