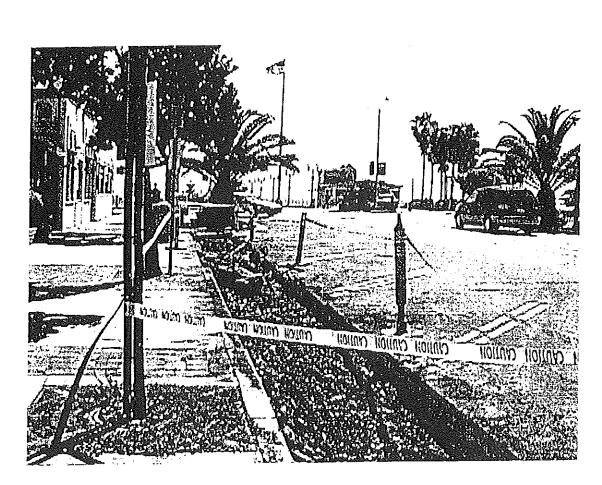
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STANDARD PLANS for STREETS

City of Seal Beach
Department of
Public Works



FEBRUARY 2004 EDITION

The following Standard Plans have been adopted by the City of Seal Beach as a guide for standardization of "Public Works" within the City and have been prepared for the guidance of engineers, contractors and developers who have an interest in the preparation of plans and construction of facilities and improvements under the jurisdiction of the City of Seal Beach. Standard plans are to be used in conjunction with the currently adopted edition of the Standard Specifications for Public Works Construction, any adopted supplements or Department amendments as well as any adopted Design Criteria/Manuals and Master Plans. Conformance with these standards will reduce design costs and the processing time needed to review and approve plans. They are not intended to be a substitute for professional engineering knowledge, experience or judgment. Any deviations from what is contained in the following documents must be approved in writing by the Director of Public Works/City Engineer. These standards may be modified from time to time as required. Please visit the Department website at www.sb-publicworks.com to check for new or updated standards.

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. 044 – 114	Asphalt Concrete Cold Milling Details
044 115-1	Residential Sidewalk/Parkway Standards
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044 – 1417	Sign Post Installation

resolution no. 522/

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SEAL BEACH APPROVING STANDARD PLANS FOR STREET FACILITIES, 2004 EDITION

WHEREAS, The Public Works Department of the City of Seal Beach has presented to the City Council a certain publication which is desired by the Public Works Department to be used in the permitting, design and construction of street facilities within the City of Seal Beach; and

WHEREAS, Said publication is the Standard Plans for Street Facilities, 2004 Edition; and

WHEREAS, The City Council desires to approve said publication as the minimum standard to be followed for the permitting, design and construction of street facilities within the City of Seal Beach and for projects requiring a Public Works Permit; and to authorize the Director of Public Works/City Engineer to make changes to said publication as required by new regulations, for improvements to the street infrastructure, and for the protection of public health and safety;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SEAL BEACH DOES HEREBY RESOLVE, DECLARE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1. Adoption, adopts said publication as the minimum standard to be followed for the permitting, design and construction of street facilities with the City of Seal Beach.

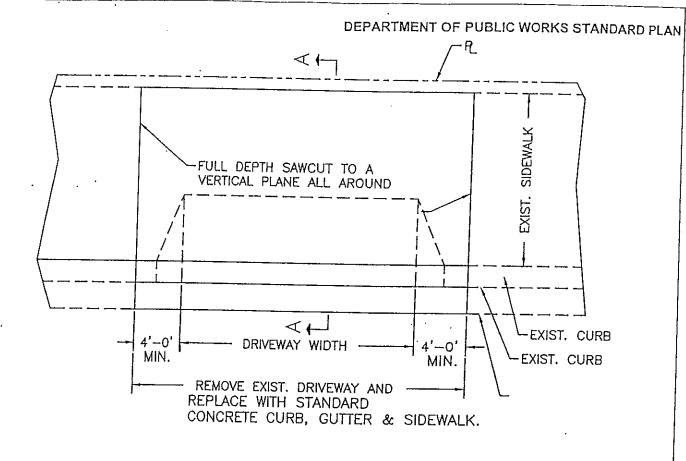
SECTION 2. <u>Authorization</u>. Authorizes the Director of Public Works/City Engineer to make changes to said publication as required by new regulations, for improvements to the street infrastructure, and for the protection of public health and safety.

PASSED, AP meeting there following vote	PROVED AND ADOPTED by the City Council of the City of Seal Beach at a of held on the, 2004 by the ::
AYES:	Councilmembers Intos, Campbell, Some Jason, Jost
NOES:	Councilmembers Jane
ABSENT:	Councilmembers And
ATTES K: City Clerk	Patricia E. Lampbell Mayor Mayor

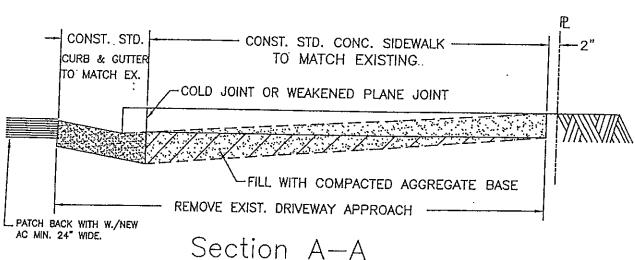
STATE OF CALIFORNIA) COUNTY OF ORANGE) SS CITY OF SEAL BEACH)

I, Joanne M. Yeo, City Clerk of the City of Seal Beach, California, do hereby certify that the foregoing resolution is an original copy of Resolution Number 522/ on file in the Office of the City Clerk, passed, approved and adopted by the City Council of the City of Seal Beach at a neeting thereof held on the 22004.

City Clerk



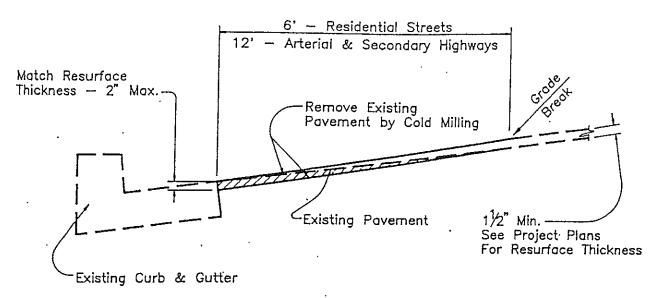
Plan



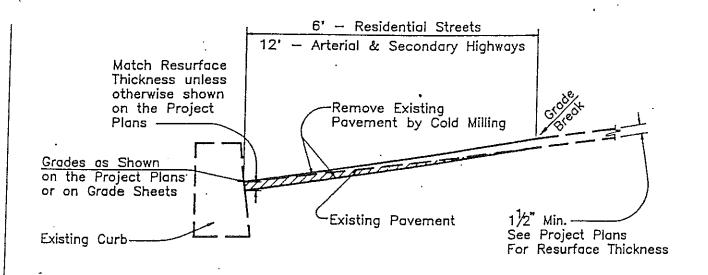
PLUG FOR ABANDONED DRIVEWAY	(TYPICAL)				DARD PLAN FD 110-4
	PUBLIC		REVISIONS	SUPERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date:	A TUI	NO. DESCRIPTION			
Mark Vertoy 3-15.04					STD-182
pproved by Oirector of tube Works RCE57202 Date:					-
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DEPARTMENT OF PUBLIC WORKS STANDARD PLAN

Asphalt Concrete Cold Milling Details

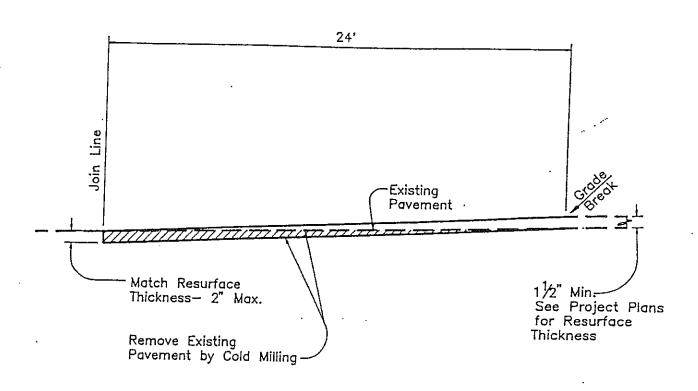


DETAIL AT CURB & GUTTER



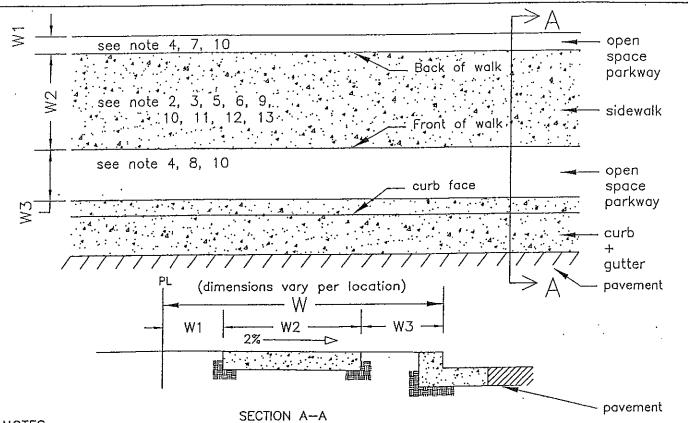
DETAIL AT CURB

ASPHALT CONCRETE COLD MILLING DETAILS : Sheet: 1 of 2					STANDARD PLA STD 114	
	PUBLIC		REVISIONS	SUP	ERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: 2-/2-02 Approved a Director of Public Works RCE57202 Date: Drain Checked: Noted:	WORKS	NO.	DESCRIPTION			



DETAIL AT PROJECT LIMITS AND SIDE STREETS

ASPHALT CONCRETE COLD MILLING	į,	NDARD PLAN STD 114		
	PUBLIC	REVISIONS	SUPERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: 2-12-02 Approved by Director of Polylic Yorks RCE57202 Date: 2/12/02 Prawn: Checked: Noted:	WORKS	NO. DESCRIPTION		



NOTES:

1. W=Overall parkway width, W1=Width of parkway from property line to back of walk, W2= Width of sidewalk, W3=Width of parkway from curb face to front of walk. Verify actual dimensions with Engineering division.

2. Concrete for sidewalk shall be 560—C—3250. Sidewalk surfacing other than standard concrete

requires a nonstandard improvement agreement.

3. The top 6" sub grade underneath sidewalk shall be compacted to 90% relative density.

4. Parkway in zones W1 and W3 shall be a min. 75% softscape plantings or grass. A maximum of 25% hardscape is allowed to include decorative boarders or carriage walks.

5. Provide adequate sidewalk closure including "sidewalk closed" signs.

6. See City standard for sidewalk scoring patterns.

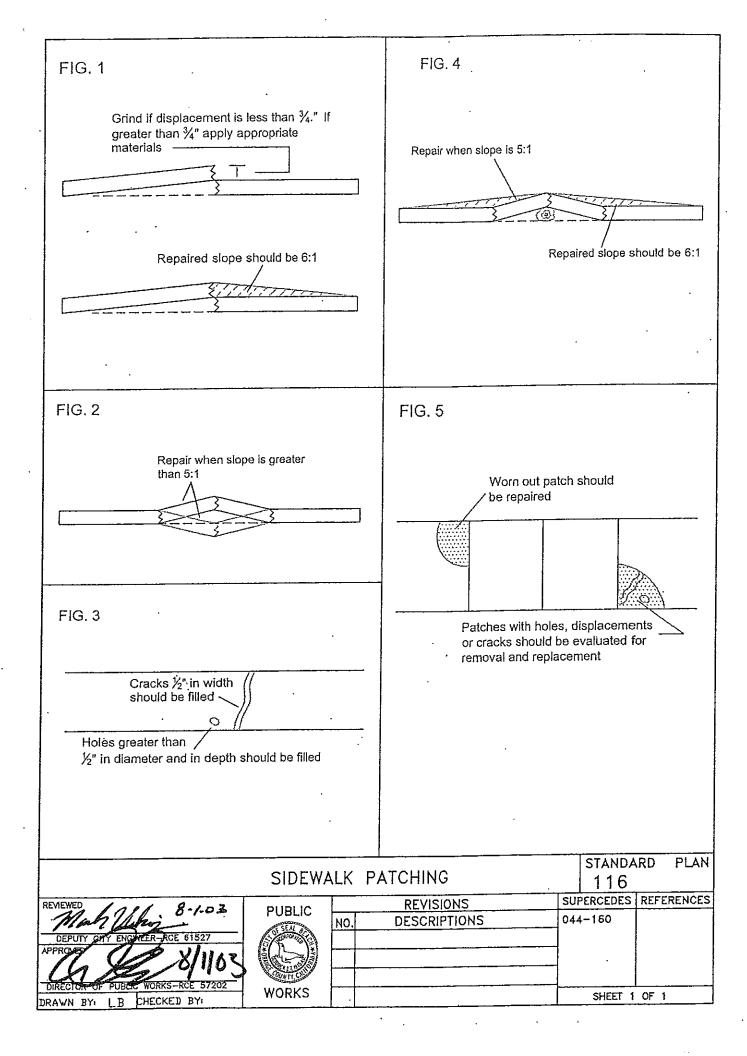
- 7. Encroachment into W1 parkway zone with a wall/fence requires a nonstandard encroachment.

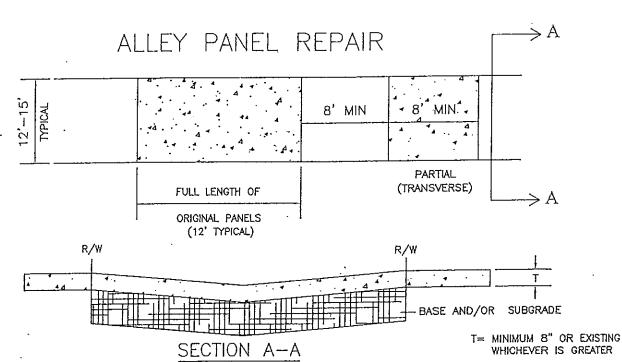
 A minimum clear distance of 18" must be maintained from back of walk to proposed wall. If W1 is less than 18" no encroachments are allowed.
- 8. See City standard for installation of root barriers at existing tree locations.

9. Match existing sidewalk width.

- 10. Construction of new improvements for new development in W-zone (parkway right-of-way) shall require correcting all deficiencies to current standards including but not limited to removing illegal encroachments, concrete parkway, and replacement of inadequate curb gutter sidewalk as required by City Engineer.
- 11. Graffiti on newly placed concrete will require replacement from score line to score line.
- 12. Sidewalk shall have a fine broom finish.
- 13. Minimum thickness for sidewalk is 4".
- 14. For all pedestrian walkway areas including sidewalks, cross slope shall not exceed 2%.

					STANDA	RD PLAN
RESIDENTIAL SIDEWALK		STD -	<u>- 115-1</u>			
REVIEWED DATE: 3-/5-04.	PUBLIC		REVISIONS	SUF	PERSEDES	REFERENCES
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DEPUTY COX ENGINEER-RCE 61527						
APPROVED DATE: 3/5/04-					Ì	
DIRECTOR OF PUBLIC WORKS-RCE 57202	COUNT. CO					
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NOTES:

N.T.S.

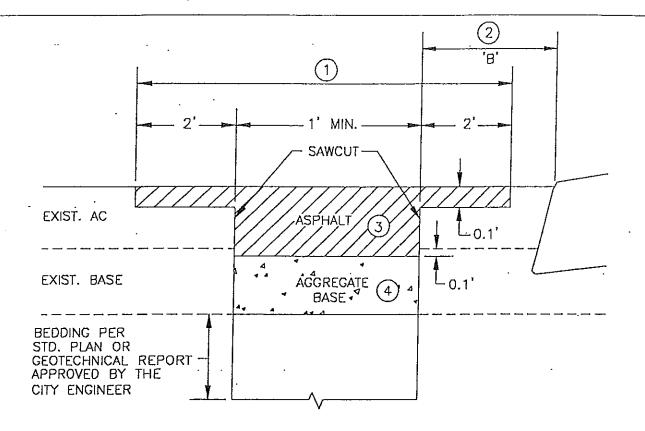
1. Any cut into an existing concrete alley shall require full panel replacement. Partial Transverse replacement is allowed at the discretion of the City Engineer.

- 2. Saw-cut prior to removal of concrete.
- 3. Backfill and Compact in 6" lifts.
- 4. Trench backfill shall be densified to a minimum 90% relative compaction. When concrete is placed directly on subgrade material, the top 6" of subgrade material shall be compacted to a relative compaction of 95%. The contractor shall over excavate for poor soil and import 3/4" crushed aggregate base as directed by the City Engineer.
- 5. Concrete shall be class 560-C-3250.
- 6. Finish concrete to match existing.
- 7. If concrete up to 4' adjacent to the repair is in poor condition and will be undermined or damaged by the repair, replace additional concrete alley at the direction of the City Engineer. The panel size of the entire repair can be increased as long as the adjacent panel will not be less than 8'.

- 8. When applicable, stamp location of sewer lateral connection with "S".
- 9. Graffiti on newly placed concrete will require replacement from scoreline to scoreline.
- 10. During excavation and subgrade preparation, the contractor shall take all necessary steps to ensure protection of all improvements, whether public or private, including utilities and their services, from any damage that could occur due to contractor's operation.
- 11. Temporary pavement replacement shall be placed at contractor's expense. It shall be placed level with the existing pavement on compacted trench backfill and be a minimum of 2" thick.
- 12. Concrete shall be replaced within 2 weeks and only after settlement has taken place and the fill surface has sufficiently dried.
- 13. Provide adequate alley closure signage including road closed signs during construction.

EXCAVATION, BACKFILL	AND REPA	IR OF	CONCRETE ALLEYS		STANDA 132	
REVIEWED	PUBLIC		REVISIONS	SU	PERSEDES	REFERENCE
02/26/01	PUBLIC	NO.	DESCRIPTIONS			
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02/26/01	WIT 3					
DIRECTOR OF PUBLIC WORKS-RCE 36106 DRAWN BY: K.Y. CHECKED BY:	WORKS				SHEET 1	OF 1 (

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NOTES:

- COLD PLANE AND REPLACE A.C., SAWCUT PRIOR TO EXCAVATION IN NEAT, STRAIGHT LINES MINIMUM OF 1-1/2 INCHES DEEP.
- REMOVE AND REPLACE A.C. TO EDGE OF GUTTER (OR TO CURB FACE IF NO GUTTER EXISTS) WHERE '8' IS LESS THAN OR EQUAL TO 5'. (REMOVE ALL REMAINING PAVEMENT SECTIONS LESS THAN 3' WIDE). ENGINEER MAY REQUIRE ADDITIONAL PAVEMENT REMOVAL WHEN UNDERMINING OCCURS.
- 3 USE TYPE C2-AR4000 FOR AC REPLACEMENT. USE TYPE B-AR4000 AHRM FOR AC RUBBER REPLACEMENT (SEE CITY SPECS, SECTION 600).
- (4) COMPACT TO 95% RELATIVE COMPACTION. CONTRACTOR TO PAY FOR COMPACTION TESTS IF REQUIRED BY CITY ENGINEER.
- (5) NO LONGITUDINAL JOINTS ARE ALLOWED IN WHEEL PATH.
- (6) RESTORE ANY TRAFFIC STRIPING (MINIMUM TWO COATS FOR PAINT).
- (7) STEEL PLATE ALL OPEN EXCAVATIONS AT THE END OF EACH WORKDAY.
- (B) REMOVE EXCAVATED MATERIAL FROM THE JOB SITE AT CLOSE OF EACH DAY.
- (9) MINIMUM 72 HOUR POSTING OF TOW-AWAY NOTICES.
- TEMPORARY PAVEMENT REPLACEMENT SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE. IT SHALL BE PLACED LEVEL WITH THE EXISTING PAVEMENT ON COMPACTED TRENCH BACKFILL AND SHALL BE A MINIMUM OF 2" THICK.
- PERMANENT PAVEMENT RESURFACING SHALL BE DONE WITHIN TWO WEEKS AFTER BACKFILLING OF TRENCHES HAS BEEN COMPLETED, AND ONLY AFTER SETTLEMENT HAS TAKEN PLACE AND THE FILL SURFACE HAS SUFFICIENTLY DRIED.
- CONTACT SURFACES OF EXISTING PAVEMENT, MANHOLE FRAMES AND SHAFTS AND CONCRETE SURFACES SHALL BE GIVEN A TACK COAT BEFORE PERMANENT ASPHALT TRENCH RESURFACING IS PLACED.

SEAL BEACH ENGINEERING DEPT. STANDARD DRAWING **PAYÉMENT** REPAIR DETAIL DRAWN REVISIONS APPROVED JN NO. BY DATE CHECKED DATE APPROVED BY ENGINEERING DEPT. SEPT. 99 28/ NO SCALE SHEET 1 OF 1 DIRECTOR OF PUBLIC WORKS

BACKGROUND:

The following conditions are designed to preserve the integrity of new streets and forestall deterioration by preventing storm water intrusion and differential settlement that is often associated with street patching. It is not the intention of this section to prohibit necessary improvements to the infrastructure. Certain emergencies may occur that necessitate the open cutting of new street pavement. If an installation or repair is critically needed and no other alternatives exist, the City Engineer may approve an open cut within new pavements under the following criteria:

STREETS PAVED/OVERLAID WITHIN 5 YEARS

Minumum Depth:

➤ Final resurfacing shall include the grinding of existing surrounding pavement and repaving at a minimum depth of 1 ½".

Trenches perpendicular to traffic lanes:

- Grind 10' on either side of the trench line for residential streets and
- Grind 50' for arterial streets on either side of the trench line and for the full width of any traffic lane(s) that has been cut.

Trenches parallel to the traffic lanes:

> Grind the entire width of the traffic lane(s) for the full length of the trench, but not less than 100'.

Trenches other than perpendicular or parallel to traffic lanes:

The City Engineer shall establish appropriate limits of paving.

Transverse paving joints:

Place perpendicular to the direction of travel and longitudinal paving joints shall not be permitted in vehicle wheel paths.

All work shall meet all applicable standards including STD 133-1.

.. STREETS SEALED WITHIN 3 YEARS (Slurry Seal, Rubberized Chip)

Time frame:

Apply seal to patched area no sooner than 30 days or later than 90 days after the completion of the pavement repair.

Trenches perpendicular to traffic lanes:

- > Seal 10' on either side of the trench line for residential streets and
- Seal 50' for arterial streets on either side of the trench line and for the full width of any traffic lane(s) that has been cut.

Trenches parallel to the traffic lanes:

> Seal the entire width of the traffic lane(s) for the full length of the trench, but not less than 100'.

Transverse paving joints:

Place perpendicular to the direction of travel and longitudinal paving joints shall not be permitted in vehicle wheel paths.

All work shall meet all applicable standards.

PAVEMENT REPAIR FOR RECENTLY PAVED C	OR SEA	ALED STREETS		S	TANDARD PLAN STD 133-2
PUBLIC		REVISIONS	SI	JPERSEDES	REFERENCES
Date: 1/8/2002	NO.	DESCRIPTION			STD 133-1
Approved by Director of Public Works 57202 DRAWN: CHECKED: WORKS					٠٠

TRAFFIC CONTROL GENERAL NOTES:

- All work shall be done in accordance with the Work Area Traffic Control Handbook (WATCH), latest edition, and the Caltrans Manual, Section 5, 1992 edition, and the City of Seal Beach Standard Plans. In case of discrepancy, this provision takes precedence over WATCH, which takes precedence over the Caltrans Manual, Section 5. WATCH is published by Building News, Inc.
- The 85th percentile speed shall be used to determine detour taper lengths and sign/delineator spacing. This information will be supplied by the City Traffic Engineering Section upon request.
- Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners and commuters.
- 4. The Contractor shall have all signs, delineators, barricades, etc. properly installed prior to commencing construction and shall not attempt to switch to a subsequent phase during working hours. All traffic detours shall be approved by the City Traffic Engineering Section.
- 5. The Contractor shall maintain, on a 24-hour basis, all signs, delineators, barricades, etc., to ensure proper flow and traffic safety.
- The Contractor shall utilize flaggers during work hours,
 as deemed necessary by the City.
- 7. Flashing Arrow Boards shall be used on all primary and secondary arterial streets, or where deemed necessary by the City Traffic Engineer. The Flashing Arrow Board shall be stationary and kept in place at all times. In or near residential areas, the Flashing Arrow Board shall be solar-powered.
- The City Traffic Engineering Section and the Inspector reserve the right to observe the traffic control plans in use and require the Contractor to make any necessary changes as field conditions warrant.
- 9. Speed Limit Signs:

{

A. "Road Work Speed Limit 25" (C17)(25)) signs shall be posted approximately every 300 feet throughout the construction zone and after each intersection, starting at the "Road Construction Ahead" (C18) signs. "End 25 Speed Limit* (C17)(Back)) signs shall be posted at the ends of the construction zone.

- B. If the posted speed limit is greater than 35 MPH, "Reduce Speed Ahead" (R2-5) signs shall be posted with the C18 signs, and the first C17(25) signs shall be posted with the "Rt/Lt Lane Closed Ahead" (C20) signs.
- C. Any existing speed limit signs or other conflicting signs in the construction zone shall be covered during construction with black heavy-duty plastic bags, which are secured with tape to the signpost below the sign. In no case shall tape be applied to any sign.

10. Warning Signs:

- A. All advance warning sign installation shall be equipped with flags for daytime closures.
- B. All signs shall be reflectorized and of standard size.
- 11. It is the responsibility of the contractor performing work on a public street to install and maintain the traffic control devices as shown herein, as well as any such additional traffic control devices as may be required to ensure the safe movement of traffic and pedestrians through or around the work area and provide maximum protection and safety to construction workers.
- 12. All temporary traffic control devices shall be removed following completion of each construction stage and the permanent traffic control devices, including but not limited to pavement markers, pavement striping and traffic signs shall be restored by the contractor upon completion of project.
- 13. Contractor shall replace/repair all damaged striping with temporary striping or raised pavement markers at the end of each working day.
- 14. Contractor shall maintain pedestrian access at all times.
- 15. All traffic control devices shall be kept in their proper position at all times, and shall be repair, replaced, or cleaned as necessary to preserve their appearance and continuity.
- 16. All delineators shall be equipped with nighttime reflective bands.
- 17. Contractor shall cover or remove all conflicting signs.

TRAFFIC CONTROL PLANS				s	TANDARD PLAN STD 134-1
PUBLIC		REVISIONS	s	UPERSEDES	REFERENCES
Date 5/9/0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO.	DESCRIPTION .			

traffic control plan (Plan) is required whenever work is to be performed within the pubic right-of-way and is deemed necessary by the City of Seal Beach (City) Traffic Engineer. Work cannot start until the traffic control plan has been approved by the City Traffic Engineer.

The Plan shall be prepared under the supervision of, signed and sealed by a California-registered Civil Engineer practicing Traffic Engineering. The Plan, which shall be designed in 1"= 40'or 1"= 50'scale and printed on a 24"x 36"sheet(s) of mylar, shall include the following:

- 1. The name, address and telephone number of the responsible engineering firm.
- 2: The estimated number of working days to complete the work.
- The "Construction General Notes: and the Traffic Control General Notes".
- The City of Seal Beach block.
- A legend of the various traffic control devices, i.e.
 Type II and Type III barricades, delineators, flashing arrow boards, and high-level warning devices.
- A legend of the various signs used on Plan. The legend is only necessary on the first sheet of the Plan.
- Existing striping and pavement markings, street center line(s) with stations, curb lines, relevant existing signs, existing curb markings, driveways in critical locations, and type of intersection control, i.e. signals or stop signs.
- 8. Existing and proposed lane widths, construction zone widths, and other dimensions.
- 9. The means of traffic control by signing, striping and delineation.
- The tapers of any detour striping, i.e. 100:1, and also identify the length, and beginning and end of each taper.
- 11. The locations where parking is to be removed during construction.

CONSTRUCTION GERNERAL NOTES:

 Street closures or lane closures shall be confined to the hours between 9 a.m. and 3 p.m., Monday through Friday. All other times must be approved by the City Traffic Engineer. All lanes shall be open for traffic during non-work hours, unless approved otherwise by the City Traffic Engineer. On major arterials, two through lanes in each direction and left turn lanes in each direction must be maintained at all times, unless approved otherwise by the City Traffic Engineer.

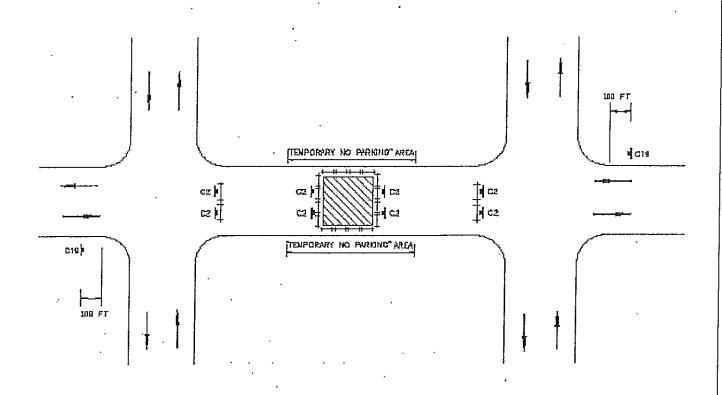
- Contractor shall replace all traffic detector loops damaged during construction, per Caltrans Standard. Layout of traffic loop shall be verified by the City Traffic Engineering Section prior to installation. Contact Signal Operations at 562 431-2527.
- Wherever pavement is offset vertically by one (1) inch
 or more, the Contractor must ramp it with asphalt for a
 smooth transition, to the satisfaction of the City
 Construction Inspector (Inspector)
- 4. No water or other hoses shall be laid across traffic lanes at any time. Any hoses laid across sidewalks or other pedestrian paths shall be ramped.
- 5. All steel plate bridging shall have a non-skid surface.
- Notify the City Engineer two working days in advance for inspection prior to starting work at (562) 594-8553.
- 7. Notify the Operation Division two working days in advance at (562) 493-8660 ext 432 prior to any work within 150 feet of a signal system.
- Notify Orange County Transportation Authority (OCTA) at (714) 638-5000 ext 450 or any other affected transit services at least five working days prior to construction.
- 9. Contractor shall post uneven pavement signs, and ramp vertical pavement offset of one inch or more with asphalt for smooth transition.
- All private driveways and side streets shall be kept open at all time except when construction takes place directly in front of the driveway/side street.
- 11. All open excavation on public streets shall backfilled or steel plated for traffic outside the working hours.
- 12. Traffic shall be restored to normal conditions outside the working hours.

13.	Contractor	shall	provide	a	24		contact phone
	number:					mai	prioric

14. Any sign or equipment that contains "graffiti" shall be replaced by the Contractor.

TRAFFIC CONTROL PLANS					TANDARD PLAN STD 134-1
PUBLIC		. REVISIONS	SU	PERSEDES	REFERENCES
Approved by Director of Public Works DRAWN: CHECKED: WORKS	NO.	DESCRIPTION			

DEPARTMENT OF PUBLIC WORKS STANDARD PLAN Typical Street Closure for Local Street



CONSTRUCTION SIGNS:

. C2 : ROAD CLOSED

C18 : RGAD CLOSED AHEAD

LEGEND:

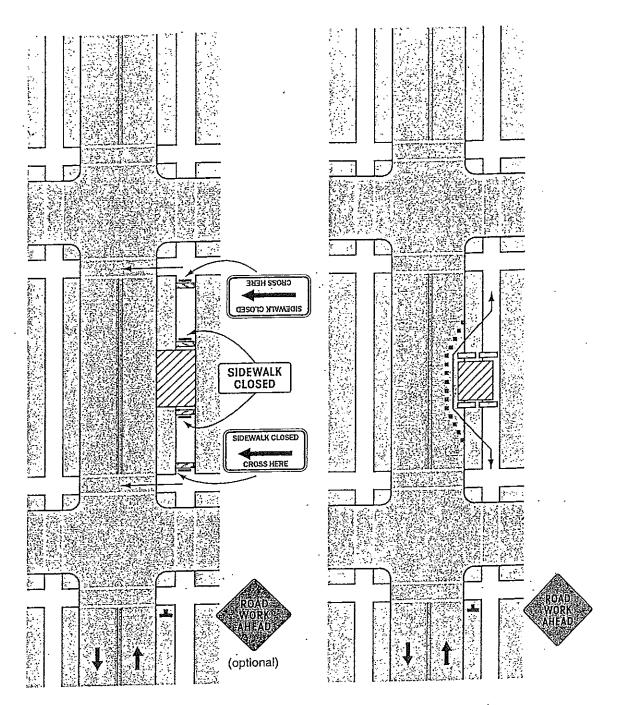
BARRICADE.

(FOR EXCALATION DAILY)

WORK AREA

TRAFFIC DIRECTION

TRAFFIC CONTOL: Typical Street Closure for Local Street: Sheet: 1 of 1				IDARD PLAN TD 135-1
	PUBLIC	REVISIONS	SUPERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: ### Provided by Director of Popular Units RCE57202 Date: Checker: Noted:	WORKS	NO. DESCRIPTION		



SIDEWALK DETOUR

SIDEWALK DIVERSION

Sidewalk Closures & Bypass Sidewa	lks Sheet: 1 of	2			1	DARD PLAN D 135-2
	PUBLIC		REVISIONS	SUF	PERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: 3-15-0-4 Approyed by Director in Public Works RCE57202 Date:		NO.	DESCRIPTION			
Drawn: Checked: Noted:	WORKS					

Sidewalk Closures and Bypass Sidewalks

Standard:

1. Where sidewalks exist, provisions shall be made for disabled pedestrians.

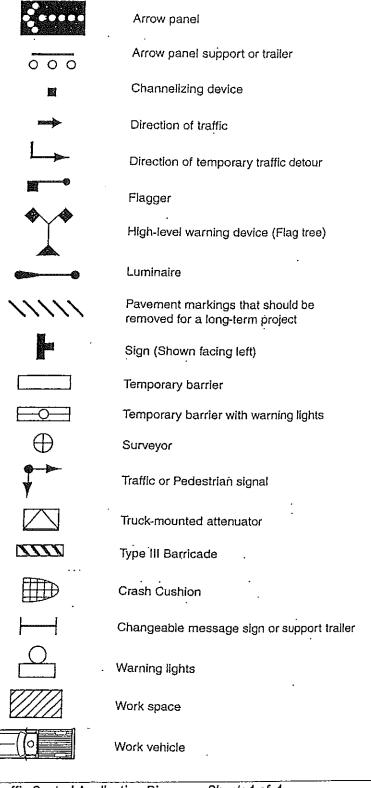
Guidance:

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 motor vehicle traffic.

Option:

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

Sidewalk Closures & Bypass Sidewa	lks Sheet: 2 of	2		·	ş	DARD PLAN FD 135-2
	PUBLIC	T	REVISIONS	SUF	PERSEDES	· REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: 3-15-0 Y Approved by Directly of Public Works RCE57202 Date: Drawn: Circled: Noted:	WORKS	NO.	DESCRIPTION		·	



	Meaning of Symbols on Typical Traffic Control A	oplication Diagrams Sheet: 1 of 1		DARD PLAN D 135-3
l	PUBLIC	. REVISIONS	SUPERSEDES	REFERENCES
	Reviewed by Asst. City Engineer RCE61527 Data: Approved by Official Checked: Note: WORKS	NO. DESCRIPTION		

DEPARTMENT OF PUBLIC WORKS STANDARD PLAN Sidewalk Encroachments in Main Street Specific Plan Area

The following standards are applicable for sidewalk encroachments in the public right of way in the area designated in the Main Street Specific Plan.

General Requirements:

Any type of sidewalk encroachment, including but not limited to, street furniture, structural or architectural elements of adjacent improvements, balconies, stairways, and overhangs, bike racks, tables, public telephones, kiosks, vending machines, awnings, banners, private lighting systems, walls, or other type of outdoor encroachments placed on sidewalk within the public right of way shall comply with the following general requirements:

- A minimum distance of not less than a <u>five-foot</u> wide pedestrian travel aisle shall be maintained within the public
 right of way at all times. Areas with heavy pedestrian traffic may be required to maintain a minimum of <u>eight feet</u>
 clear width on the sidewalk as determined by the City Engineer;
- A minimum distance of not less than a two-foot wide pedestrian aisle shall be maintained on each side of where the
 parking stall line intersects the curb line to allow for adequate egress and ingress of pedestrians from their vehicles
 to the sidewalk area;
- To ensure the required pedestrian travel aisle, all encroachments shall be set back a minimum of three feet from
 any fixed sidewalk obstruction, including but not limited to, tree wells, street trees, parking meters, water hydrants,
 light poles, utility equipment boxes, newspaper racks and bus benches.
- Encroachments shall not be located within ten-feet of a cross walk.
- All sidewalk encroachments shall comply with all applicable provisions of the Uniform Building Code, including but not limited to, maintaining proper building egress and ingress at all times, and providing appropriate handicap access; This includes for doorways that open in a <u>four-foot</u> clear distance from the doorway for the width of the door plus <u>one-foot</u> from the strike side of the door jamb and for doorways that open out a <u>five-foot</u> clear distance from the doorway for the width of the door plus <u>two-feet</u> from the strike side of the door jamb.
- Any encroachments, which are cantilevered or hung above the sidewalk, shall have a minimum of eight-foot
 clearance from the ground to the lowest element of the encroachment to provide for adequate height clearance for
 pedestrians.
- Any encroachments within thirty five feet from the intersection of street property lines shall not be in excess of two and one-half feet high to provide for adequate vision clearance for vehicles.
- Any encroachments within <u>four feet</u> from the intersection of an alley with any street right of way, or at the
 intersection of any alley with any other alley, shall not be in excess of <u>three feet</u> high to provide for adequate vision
 clearance for vehicles.
- Encroachment shall be located at least one and a half feet from the curb face. In areas where vehicles do not park or otherwise extend over sidewalk, this set back may be reduced at the discretion of the City Engineer.
- Encroachments may not be chained or otherwise anchored to any tree, street light, parking meter or other property.

Any application shall be denied if the City Engineer shall find that the maintenance of the encroachment would tend to obstruct passage along any public way or create a hazard or would otherwise be detrimental to the public safety, welfare or convenience.

SIDEWALK ENCROACHMENTS IN MAIN STREE	T SPE	CIFIC PLAN AREA (Sheet 1 of 1)		S'	TANDARD PLAN STD 140-1
Man Vist Date: 4-15-03 PUBLIC		REVISIONS	St	JPERSEDES	REFERENCES
Reviewed by Ceputy City Engineer RCE	NO.	DESCRIPTION			
600 Date: 4/K/03					
Approved by Director of Public Works RCE					
DRAWN: CHECKED: WORKS		•	1		

DEPARTMENT OF PUBLIC WORKS STANDARD PLAN Sidewalk Encroachments in Main Street Specific Plan Area

Benches:

When applying the above-mentioned general requirements to benches, a <u>two-feet</u> allowance shall be made for the space required for a person sitting on the bench.

Benches to be installed in an area where there is a theme or bench style shall conform to that theme or style

No bench shall be more than <u>forty-two inches</u> high nor more than <u>two feet, six inches wide</u>, nor more than <u>seven feet long</u>, overall.

Each bench must have displayed thereon, in a conspicuous place, the name of the permittee and the permit number.

It shall be the duty of the permittee to maintain each bench at all times in a safe condition and at its proper and lawful location, and to inspect each bench periodically.

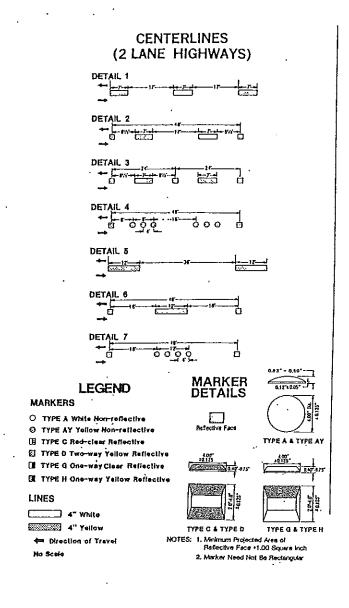
Each bench must be placed parallel to the curb.

Bicycle Racks:

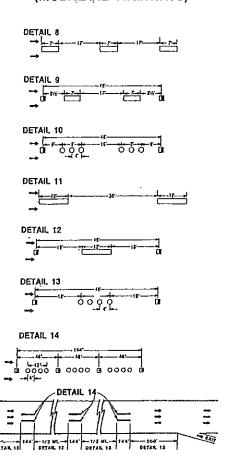
Bicycle racks shall be located to allow bicycles to extend five feet from the center of the rack and comply with the above requirements.

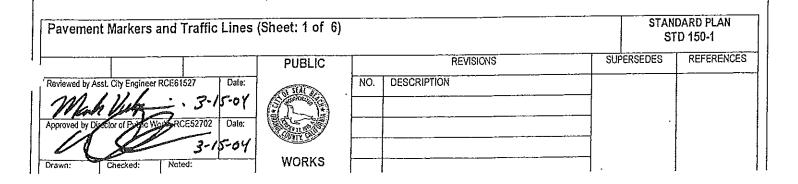
SIDEWALK ENCROACHMENTS IN MAIN STREE	T SPE	CIFIC PLAN AREA (Sheet 2 of 2)		S	TANDARD PLAN STD 140-1
Mah With Date: 4-15-03 PUBLIC		REVISIONS	SUP	ERSEDES	REFERENCES
Reviewed by Deputy City Engineer RCE	NO.	DESCRIPTION		-	
Date: 475/03					
Approved by Director of Public Works RCE WORKS DRAWN: CHECKED:			-		

Use Detail 2 unless otherwise shown on the project plans.

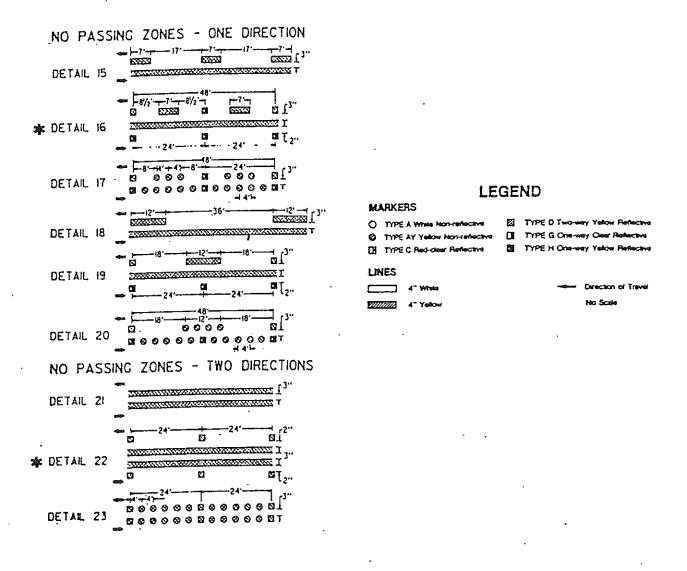


LANELINES (MULTILANE HIGHWAYS)





Use Detail 16 and 22 unless otherwise shown on the project plans.



* DENOTES DETAIL TO BE USED UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS

Pavement Markers and Traffic Lines (S	Sheet: 2 of 6)			1	DARD PLAN D 150-1
	PUBLIC	REVISIONS	SU	PERSEDES	REFERENCES
Reviewed by Asst. City Engineer RCE61527 Date: 3 5-64 Approve Tourisector of Public Works RCE52702 Date: 3-15-04 Drawn: Checked: Noted:	WORKS	NO. DESCRIPTION			

Use Detail 25A and 26 unless otherwise shown on the project plans.

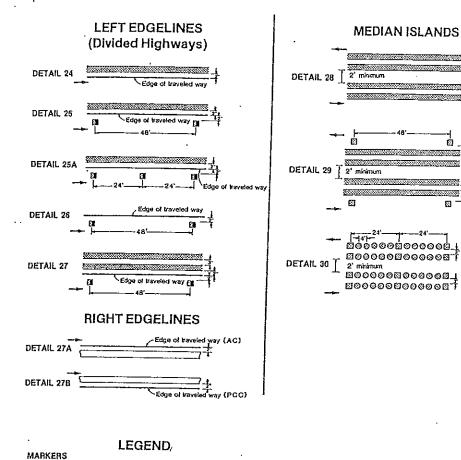
O TYPE A White Non-reflective

TYPE C Red-clear Reliective

LINES 4" White

4" Yellow

O TYPE AY Yesow Non-refective



TYPE D Two-way Yelow Reflective

DI TYPE G One-way Clear Reflective

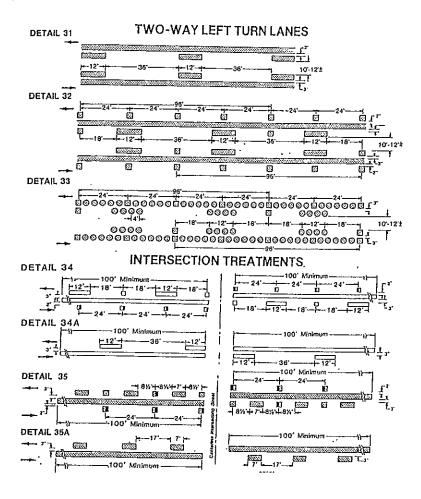
[II TYPE H One-way Yellow Reflective

Direction of Travel

No Scale

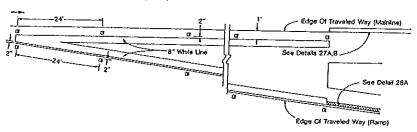
Pavement Markers and Traffic Lines (S	heet: 3 of 6)					IDARD PLAN TD 150-1
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Reviewed by Asst. City Engineer RCE61527 Date: Compared by Director of Public Viorks RCE52702 Date: Checked: Noted:	WORKS	· NO.	DESCRIPTION .			

Use Detail 32 unless otherwise shown on the project plans.

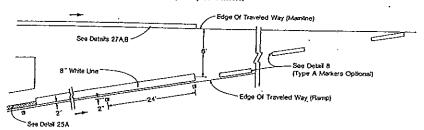


Pavement Markers and Traffic Lines	(Sheet: 4 of 6)					DARD PLAN D 150-1
	PUBLIC		REVISIONS	SU	PERSEDES	REFERENCES
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Drawn: Checked: Noted:	WORKS					

DETAIL 36-Exit Ramp Neutral Area (Gore) Treatment

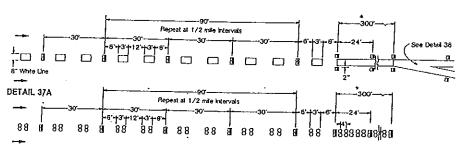


DETAIL 36A-Entrance Ramp Neutral Area (Gore) Treatment



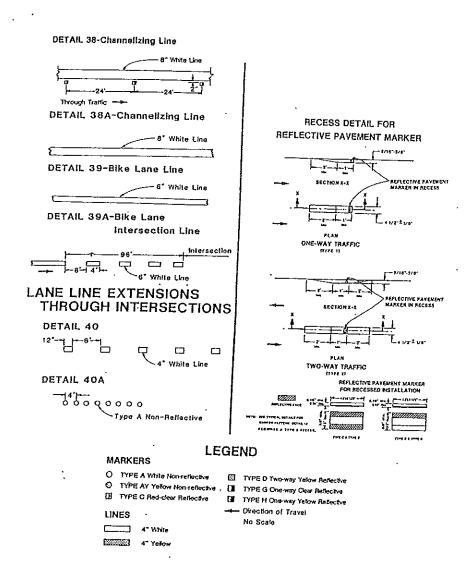
Lane drop the should be continued where available weaving length is less than the theoretical weaving length.

DETAIL 37-Lane Drop at Exit Ramps

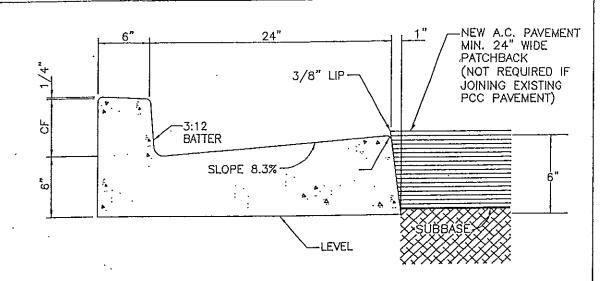


Pavement Markers and Traffic Lines	(Sheet: 5 of 6)					IDARD PLAN TD 150-1
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Reviewed by Asst. City Engineer RCE61527 Date: Approved by Ding or of Public Water RCE52702 Date:		NO.	DESCRIPTION		•••	
Drawn: Checked: Noted:	WORKS					

Use Detail 38, 39, 39A unless otherwise shown on the project plans.



Pavement Markers and Traffic Lines (S	Sheet: 6 of 6)	<u></u>				DARD PLAN D 150-1
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Approve by Dicocar of Public Western 52702 Oate:						
3/15/04 Drawn: Noted: Noted:	WORKS					



TYPE A P.C.C CURB AND GUTTER

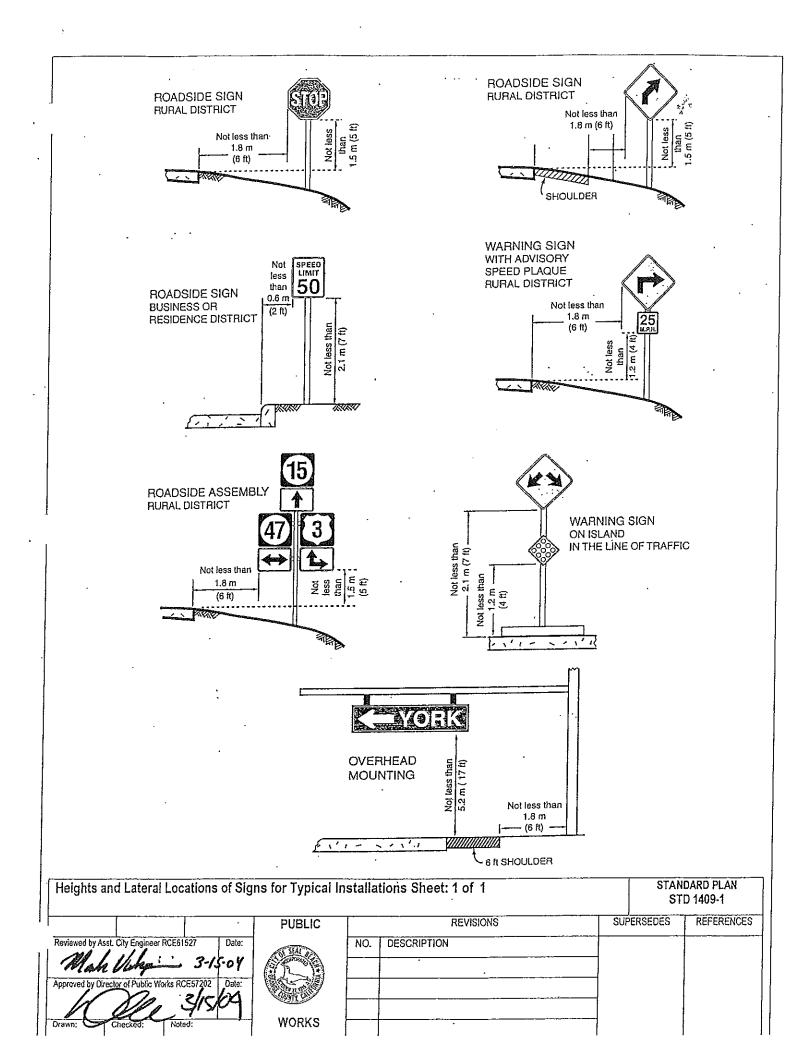
(CURB FACE SHALL BE 6" OR 8" UNLESS OTHERWISE NOTED)

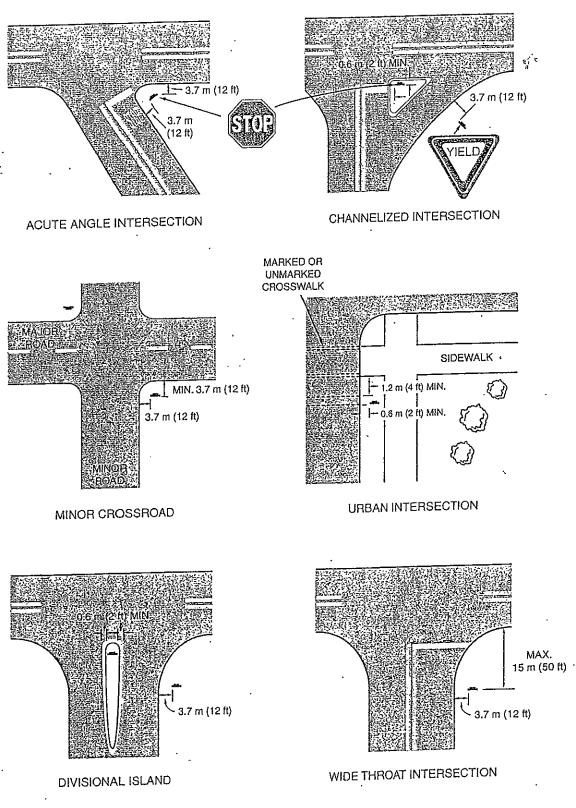
N.T.S

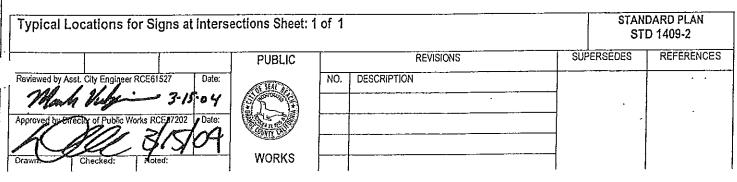
NOTES:

- 1. ALL CONCRETE SURFACES WITHIN 4" OF ALL GUTTER FLOW LINES SHALL BE GIVEN A STEEL TROWEL FINISH. (APPLIES TO TYPE "A" CURB).
- 2. PRE FORMED 3/8" THICK EXPANSION FILLER SHALL BE INSTALLED IN ALL TYPES OF CURB AT THE B.C. AND E.C. OF RETURNS, AT INTERVALS OF 60' BETWEEN RETURNS AND AT THE ENDS OF DRIVEWAYS. SIMILAR EXPANSION JOINTS SHALL BE INSTALLED IN ALL GUTTERS ADJOINING CURB. WEAKENED PLANE JOINTS SHALL BE FORMED AT INTERVALS OF 20' BETWEEN RETURNS.
- 3. CONCRETE SHALL BE 560-C-3250.
- 4. AC SHALL BE SAWN-CUT A MINIMUM OF 24" BEYOND THE CONCRETE GUTTER. SUBBASE SHALL BE COMPACTED TO RELATIVE DENSITY OF 95%.
- 5. CURB FACE SHALL BE 6" OR 8" UNLESS PREVIOUSLY APPROVED BY CITY ENGINEER IN WRITING.
- 6. ALL EXPOSED CORNERS ON PCC CURBS AND GUTTERS SHALL BE ROUNDED WITH A 1/2" RADIUS.
- 7. PROTECT EXISTING SPRINKLER SYSTEMS, ELECTRICAL CONDUIT, WATER METERS, SERVICE LATERALS, AND ALL OTHER UNDERGROUND UTILITIES ADJACENT TO CURB & GUTTER AND CURB REPLACEMENT.
- 8. BACKFILL EXCAVATED AREA WITH CLEAN EARTH FROM EXCAVATION.
- 9. RESEED TO MATCH EXISTING LAWNS IN EXCAVATED AREAS.

STANDARD	CURB SE	CTION	IS TYPE A		STANDA 182	ARD PLAN
REVIEWED 02/26/01	PUBLIC	NO.	REVISIONS DESCRIPTIONS		UPERSEDES	REFERENCES
DEPUTY CITY ENGINEER-RCE 57202 APPROVED		1	Change Format			
DIRECTOR OF PUBLIC WORKS-RCE 36106 DRAWN BYI K.Y. CHECKED BYI	WORKS			· .	SHEET 1	OF 1

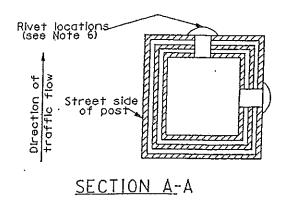


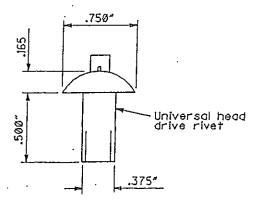




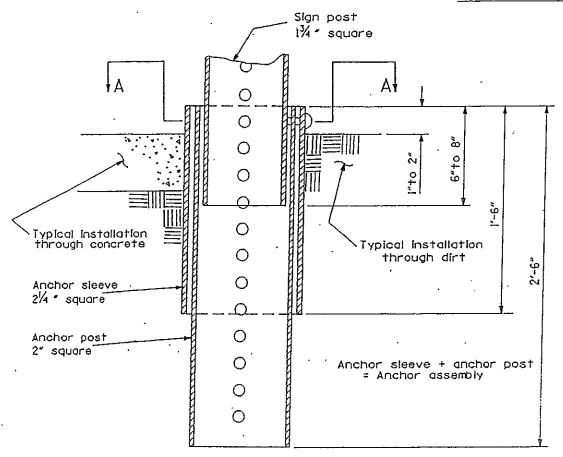
DEPARTMENT OF PUBLIC WORKS STANDARD PLAN

Sign Post Installation: Std 1417





RIVET DETAIL



TYPICAL SECTION

SIGN POST INSTALLATION: Sheet:	₫ of 2				1	IDARD PLAN ID: 1417
	PUBLIC ·		REVISIONS	SU	PERSEDES	REFERENCES
teviewed by Asst. City Engineer RCE61527 Date;		NO.	DESCRIPTION	_		
Approved by Director of Bublic Works RCE57202 Date:				-		
Drawn: Checked: Noted:	WORKS					

NOTES

- 1. Square perforated steel tube posts with break-away base, "Telespar", shall be used for all traffic control and informational signs within road right-of-way, with the exception of street name signs per Standard Plan 1407.
- 2. The number of posts required for sign installation shall be determined by the area of the sign or combination of signs to be installed. A single post shall be used where both the length and width are less than 48", with the exception of a 48" x 48" stop sign. Double posts shall be used where either the length or the width exceeds 48".
- 3. The anchor assembly shall consist of a 2" square by 2'-6" Anchor Post and a $2^{1/4}$ " square by 1'-6" Anchor Sleeve.
- 4. The Anchor Assembly, consisting of the Anchor Post and Anchor Sleeve, shall be driven simultaneously until only I" to 2' remains above ground level. The tops of both pieces shall be flush.
- 5. All dirt shall be removed from the inside top 8" of the Anchor Assembly to allow for installation of the sign post.
- 6. Install the 1¾ " square Sign Post 6" to 8" into the Anchor Assembly and secure in place with two ¾6" Universal Head Drive Rivets as shown. The rivets shall be installed on the side opposite traffic flow and the side away from traffic as shown in order to achieve the maximum break-away effect.
- 7. Installation according to these requirements is essential to maintain the break-away characteristics of the post system Under NO circumstances shall the Anchor Assembly be secured in concrete footings.

SIGN POST INSTALLATION: Sheet: 2 of 2			STANDARD PLAN STD: 1417	
	PUBLIC	REVISIONS	SUPERS	SEDES REFERENCES
eviewed by Asst. City Engineer RCE61527 Date:		NO. DESCRIPTION	•	
Mark Vuly	157 TA 153			
Approved by Director of Public Works RCE57202 Date:				
Drawn: Checked: Noted:	WORKS			