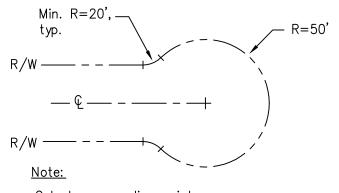
CITY OF LIVERMORE

STANDARD DETAILS

TABLE OF CONTENTS

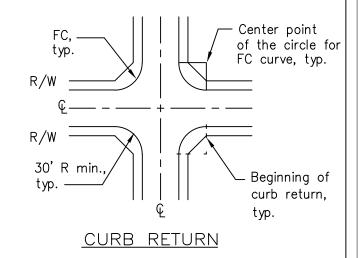
STREETS - ST

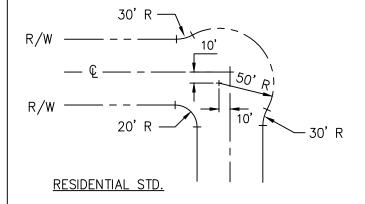
DETAIL	
NO.	TITLE
ST-1	CUL-DE-SAC, CURB RETURNS, AND ELBOWS; HAMMERHEADS AND TEMPORARY TURNAROUND
ST-2	STREET WIDTHS; PARTIAL STREET SECTION
ST-3	MONOLITHIC SIDEWALK (RESIDENTIAL/INDUSTRIAL)
ST-4	SEPARATED SIDEWALK AND DRIVEWAY (RESIDENTIAL)
ST-5	SIDEWALK (COMMERCIAL/INDUSTRIAL)
ST-6	DRIVEWAY (STREET-LEVEL)
ST-7	DRIVEWAY (RESIDENTIAL)
ST-8	DRIVEWAY (COMMERCIAL/INDUSTRIAL)
ST-9	CURB & GUTTER, MEDIAN CURB
ST-10	TEXTURED CONCRETE PAVING
ST-11	STREET SECTION
ST-12	UTILITY LOCATIONS
ST-13	MONUMENT
ST-14	STANDARD STREET LIGHT; DECORATIVE STREET LIGHT
ST-15	BUS TURNOUT
ST-16	VALLEY GUTTER
ST-17	ROADSIDE SIGN/POST INSTALLATION
ST-18	STREET NAME SIGN AND W14-2a SPECIAL SIGN
ST-19	NUMBER NOT USED
ST-20	PRIVATE PROPERTY/CITY OFF-STREET SIGNS
ST-21	BARRICADES
ST-22	MEDIAN CONSTRUCTION
ST-23	REMOVABLE BOLLARD
ST-24	MAIL BOX INSTALLATION
ST-25	PAVEMENT WIDENING, CONNECTIONS; OVERLAY
ST-26	CROSSWALK/STOP BAR INSTALLATION
ST-27	BIKE LANES
ST-28	SIDEWALK DRAIN (RESTORATION OF EXISTING FACILITIES)
ST-29	CHAIN LINK FENCE
ST-30	PEDESTRIAN WALKWAY
ST-31	SIDEWALK REPAIR
ST-32	SIDEWALK GRINDING REPAIR
ST-33	SIDEWALK REPAIR CRITERION
ST-34	SPEED LUMPS
ST-35	SPEED TABLE CROSSWALK

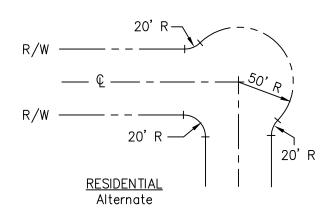


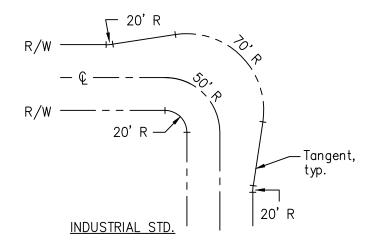
Cul—de—sac radius point may be offset from centerline.

CUL-DE-SAC









ELBOWS

Notes:

- 1. Radii shown are minimums.
- 2. See ST-2A thru ST-2D for standard street widths.

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

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,DW			
ST01A.DWG			
S	Date	Ву	Rev.
		•	

CUL-DE-SAC, CURB RETURN, AND ELBOWS CITY OF LIVERMORE STANDARD DETAIL

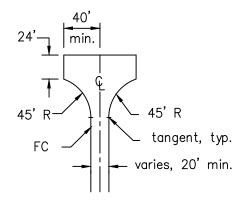
Dwn: KY/KR Date: May-13

Spec. Committee Scale: NONE

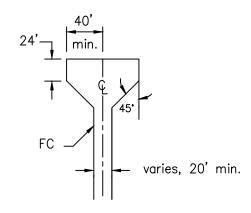
City Engineer

ST-1A

NO.

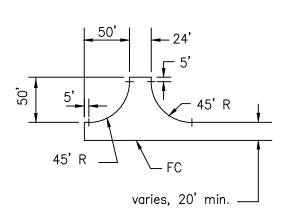


"T" HAMMERHEAD

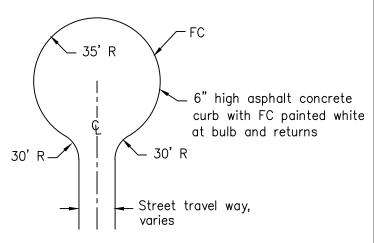


"T" HAMMERHEAD

(CHAMFER ALTERNATIVE)



DOG LEG HAMMERHEAD



Cul-de-sac radius point may be offset from center

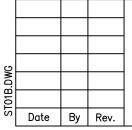
TEMPORARY TURNAROUND

Notes:

- 1. Radii shown are minimums.
- 2. See ST-2A thru ST-2D for standard street widths.
- 3. These hammerheads are not standard design practice to be used in lieu of cul—de—sac. Hammerheads are only used on case by case basis as approved by the City.

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.



HAMMERHEADS AND TEMPORARY TURNAROUND

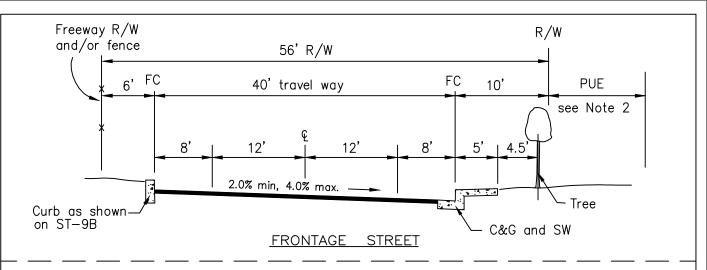
CITY OF LIVERMORE

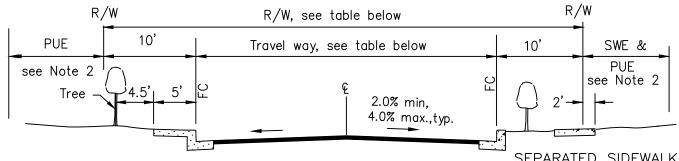
STANDARD DETAIL

Dwn: KY
Date: May-13
NO.

Ckd: Spec.
Committee Scale: NONE

City Engineer





MONOLITHIC SIDEWALK See ST-3

South Livermore Area Transition Area Only SEPARATED SIDEWALK See ST-4

			Transition 7	ou only	
Street type	*Travel way	* R/W	** Travel way	** R/W	Guideline Criteria
Local street	40'	60'	32'	52'	Planned to serve more than 50 units, each direction
Local street, with parking on one side	32'	52'	25'	45'	No homes fronting on one side of the street
Local street, with no parking	26'	27'	_	_	Planned to serve less than 20 units ***
Minor Local street, Cul—De—Sac, and Loops	36'	56'	32'	52'	Planned to serve 20 to 50 units, each direction
Short Cul-De-Sac	32'	52'	32'	52'	Planned to serve less than 20 units

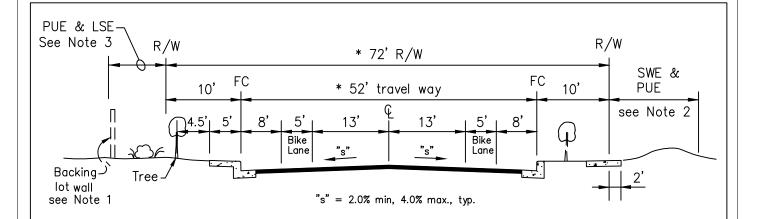
- * The approved tentative map will determine actual street widths. This table is intended to be a guideline only.
- ** R/W and Travel way dimensions is reduced for developments in the specific plan area.
- *** Street to have monolithic sidewalk on both sides of street within 6' wide sidewalk/public utility easements adjacent to right-of-way

LOCAL STREET AND CUL-DE-SAC

See ST-2E for notes

User note:

			STRFFT WIDTHS		LIVERM	
ST02A.DWG	Ву	Rev.	(FRONTAGE, LOCAL & CUL-DE-SAC)	Dwn: FY Ckd: Spec. Committee City E	Date: May-13 Scale: NONE ngineer	NO. ST-2A



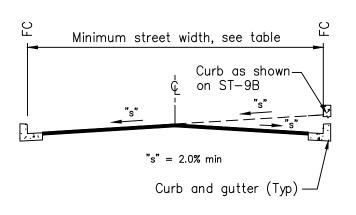
MONOLITHIC SIDEWALK
See ST-3

COLLECTOR STREET (RESIDENTIAL)

SEPARATED SIDEWALK
See ST-4

* For collector streets with parking on one side of the street, street width may be reduce to 66' R/W and 46' travel way.

Minimum street width						
Private street with parallel parking on both sides	36'					
Private street with parallel parking on one side	33'					
Private street (No parking on either side)	24'					
Private alley (No parking on either side)	20'					



PRIVATE RESIDENTIAL STREET AND PRIVATE RESIDENTIAL TOWNHOUSE/CONDOMINIUM STREET

See ST-2E for notes

User note:
These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

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ST02B.DWG	·		
702E			
S	Date	Ву	Rev.

STREET WIDTHS

(COLLECTOR AND PRIVATE STREETS)

CITY OF LIVERMORE STANDARD DETAIL

Dwn: FY Date: May-13

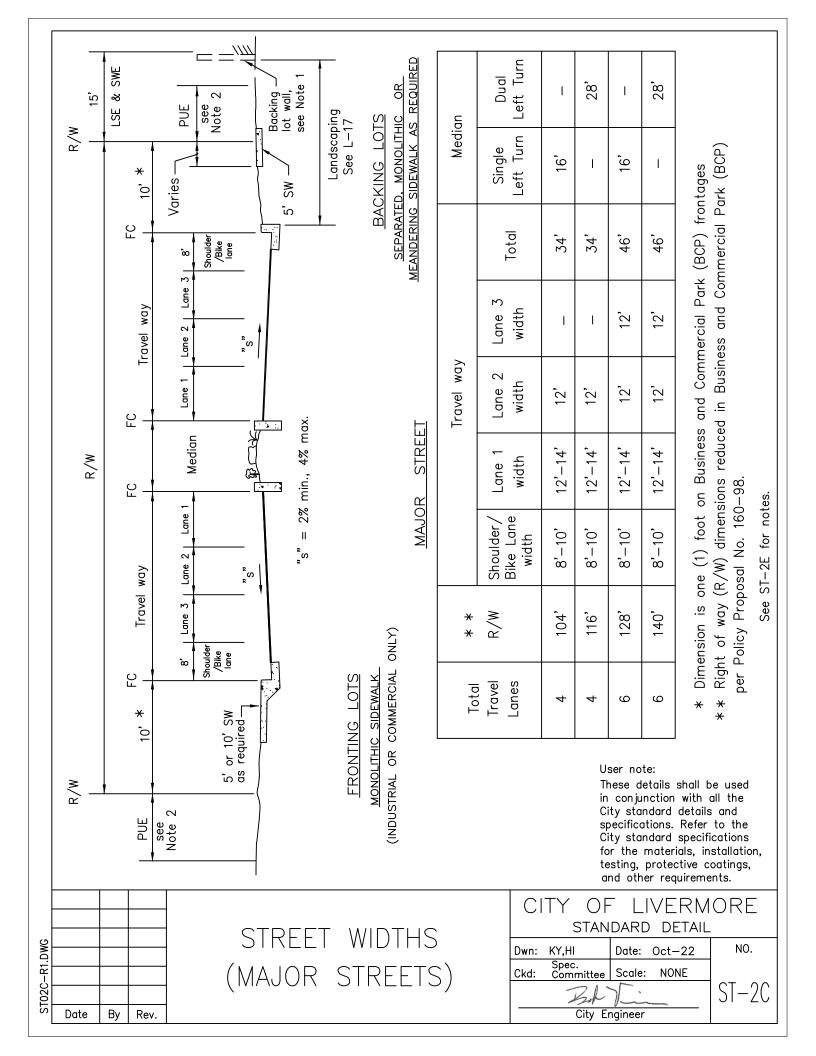
Ckd: Spec. Committee Scale: NONE

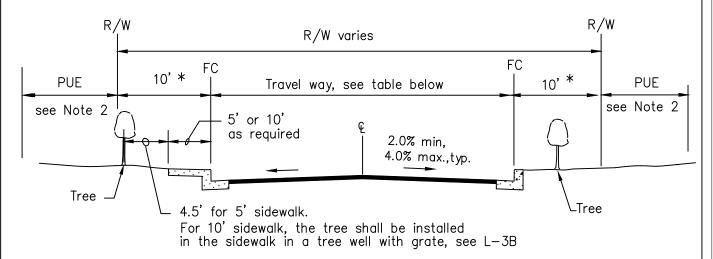
City Engineer

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NO.

ST-2B





MONOLITHIC SIDEWALK (ONE SIDE ONLY) See ST-3

Street type	Travel way	R/W	Remarks
Industrial/ Commercial	40' min.	60' min.	1. Two lane street, with no left turn lane.
	52' min.	72' min.	1. Two lane street. with left turn lane.

INDUSTRIAL/COMMERCIAL STREET

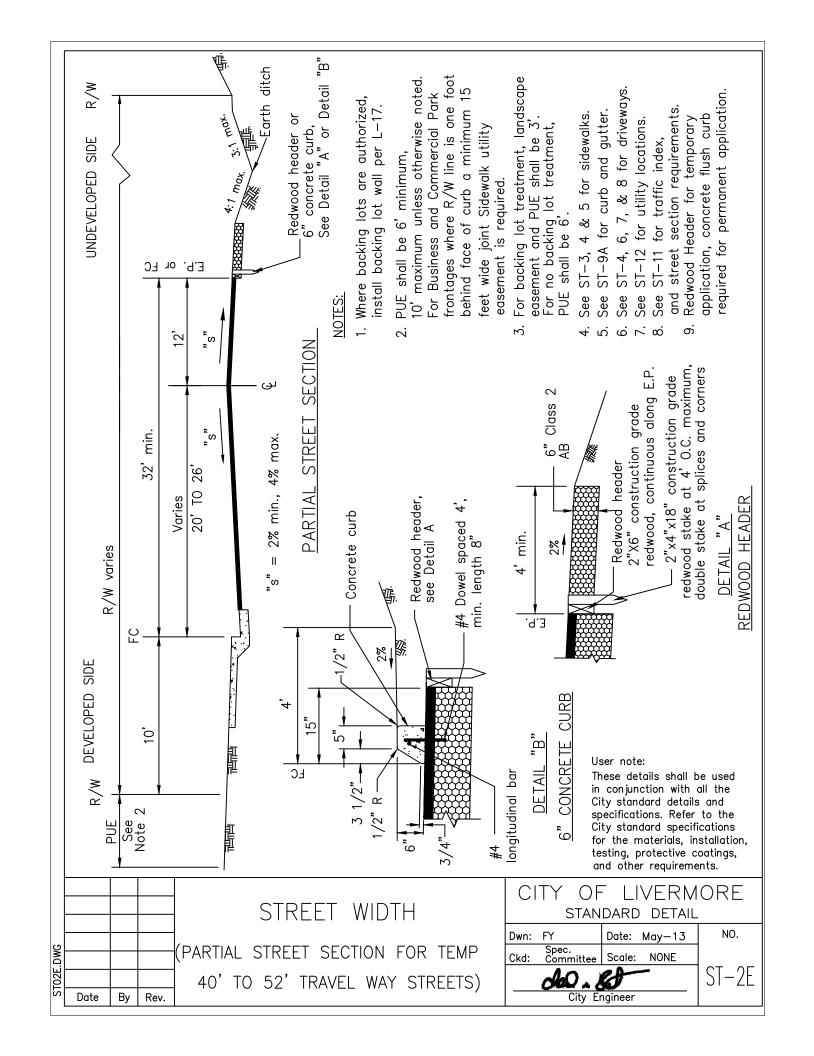
* Dimension is one (1) foot in Business and Commercial Park (BCP) per Policy Proposal No. 160—98.

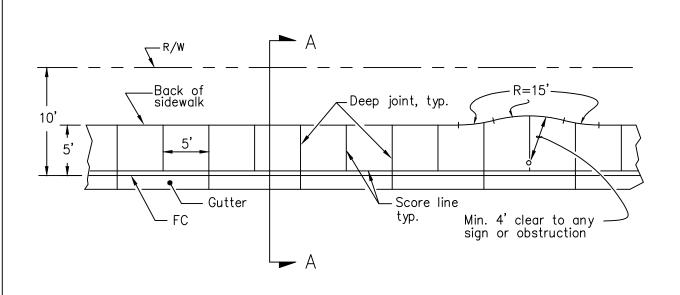
User note:

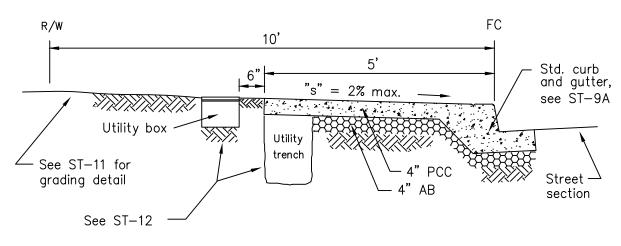
These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

See ST-2E for notes

				STRFFT WIDTHS		- LIVERM Idard detail	
ST02D-R1.DWG	Date	Ву	Rev.	(INDUSTRIAL/COMMERCIAL)	Dwn: KY Ckd: Spec. Committee City E	Date: May-13 Scale: NONE ngineer	NO. ST-2D



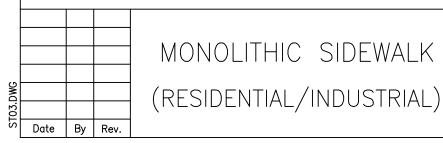




SECTION A-A

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.



CITY OF LIVERMORE STANDARD DETAIL

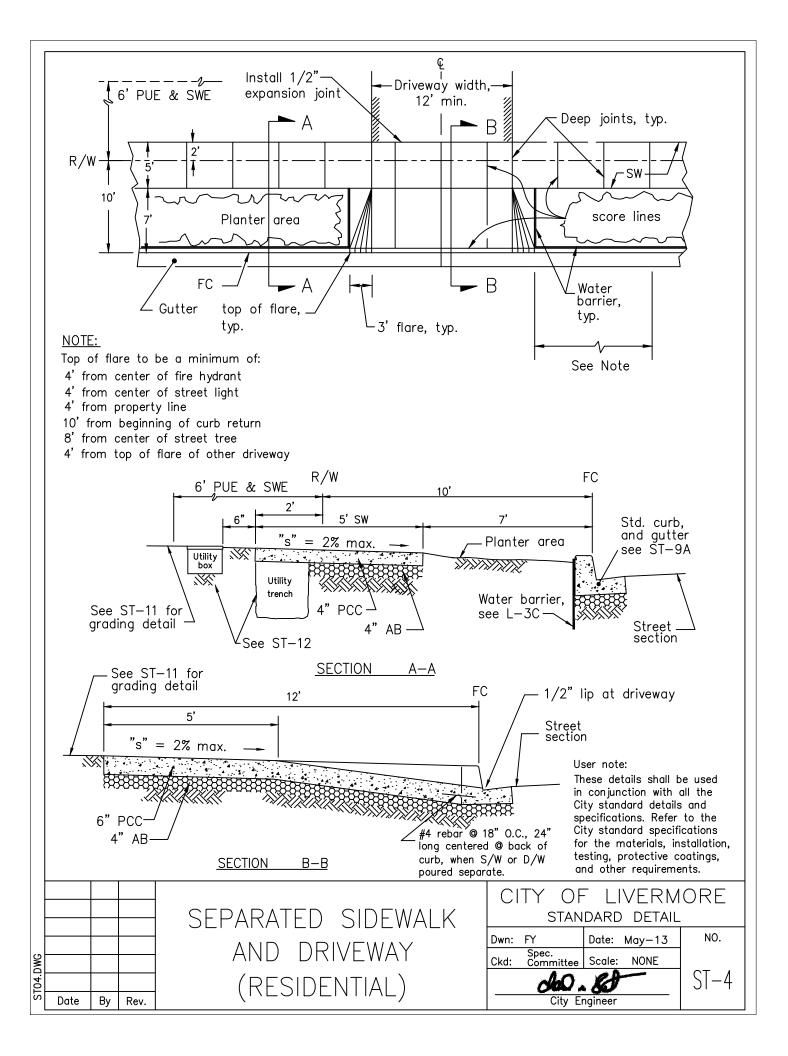
Dwn: KY/KR Date: May-13

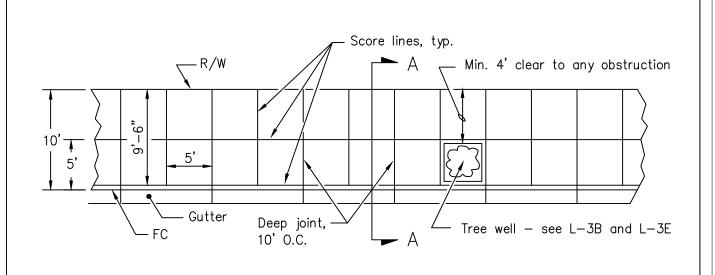
Ckd: Spec. Committee Scale: NONE

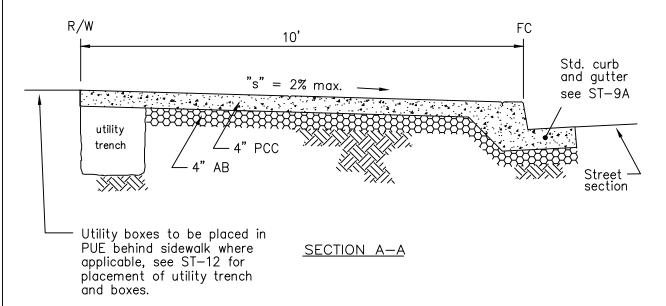
City Engineer

ST-3

NO.

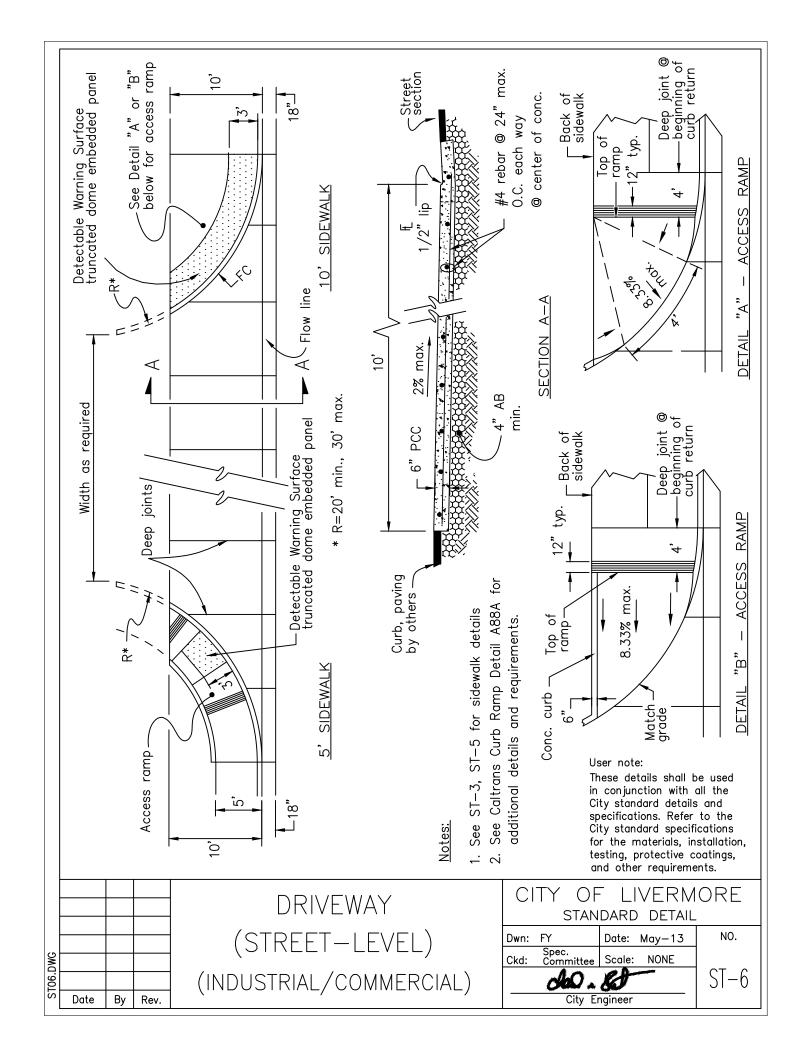


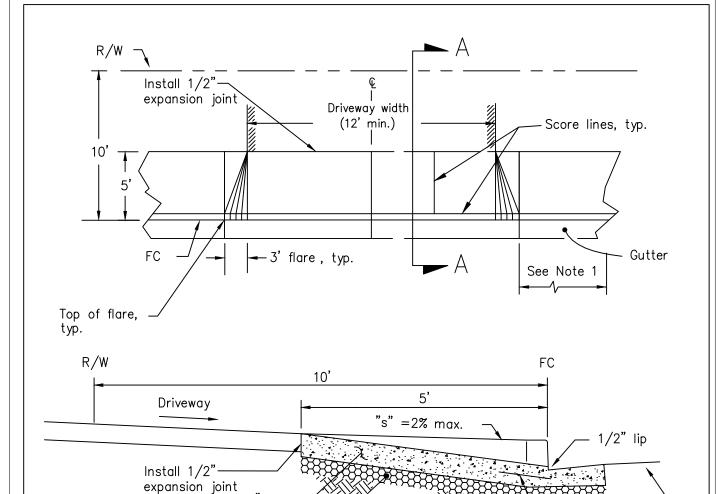




User note:







SECTION A-A

NOTES:

1. Top of flare to be a minimum of:

- 4' from center of fire hydrant
- 4' from center of street light
- 4' from property line
- 10' from beginning of curb return
- 8' from center of street tree
- 4' from top of flare of other driveway
- 2. See ST-3 for sidewalk.
- 3. The driveway shall be symmetric about the centerline.

6" PCC

4" AB -

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

Street 'section -

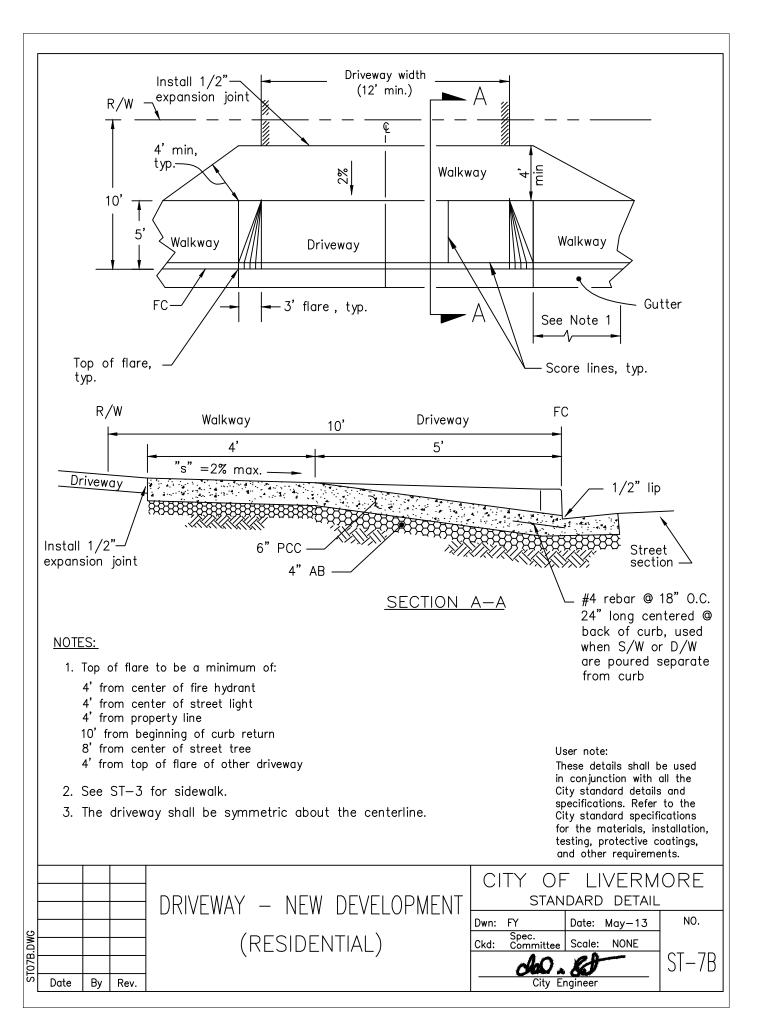
#4 rebar @ 18" O.C.

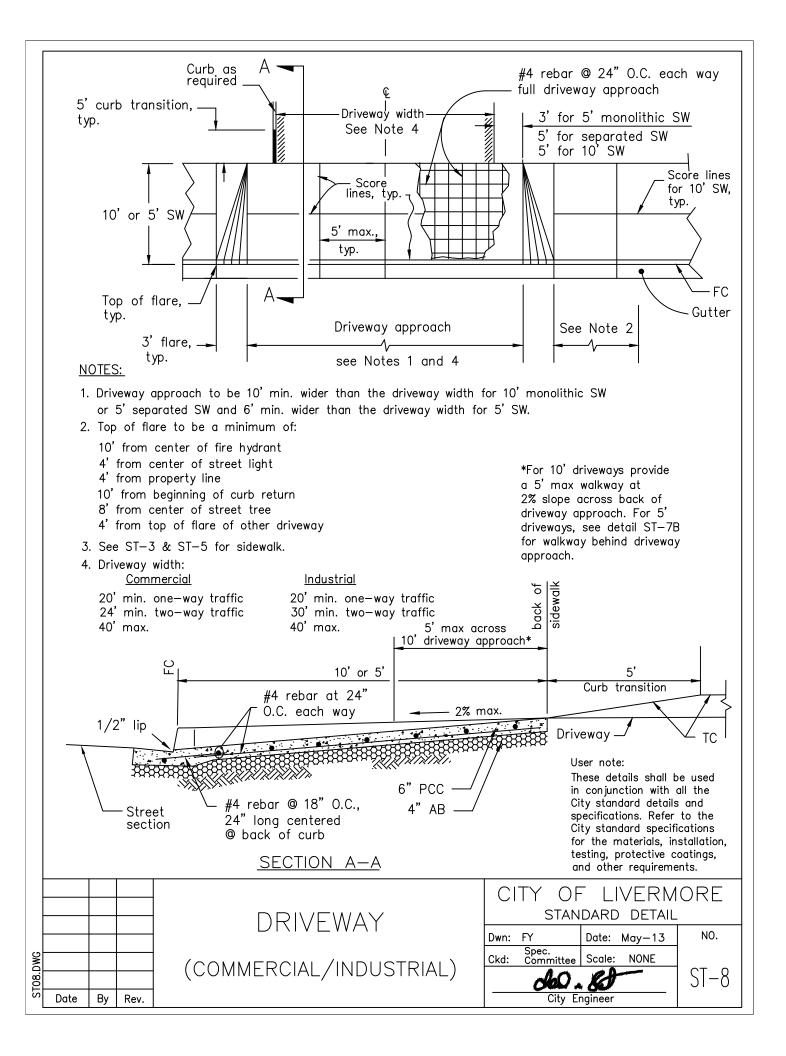
24" long centered @ back of curb, used

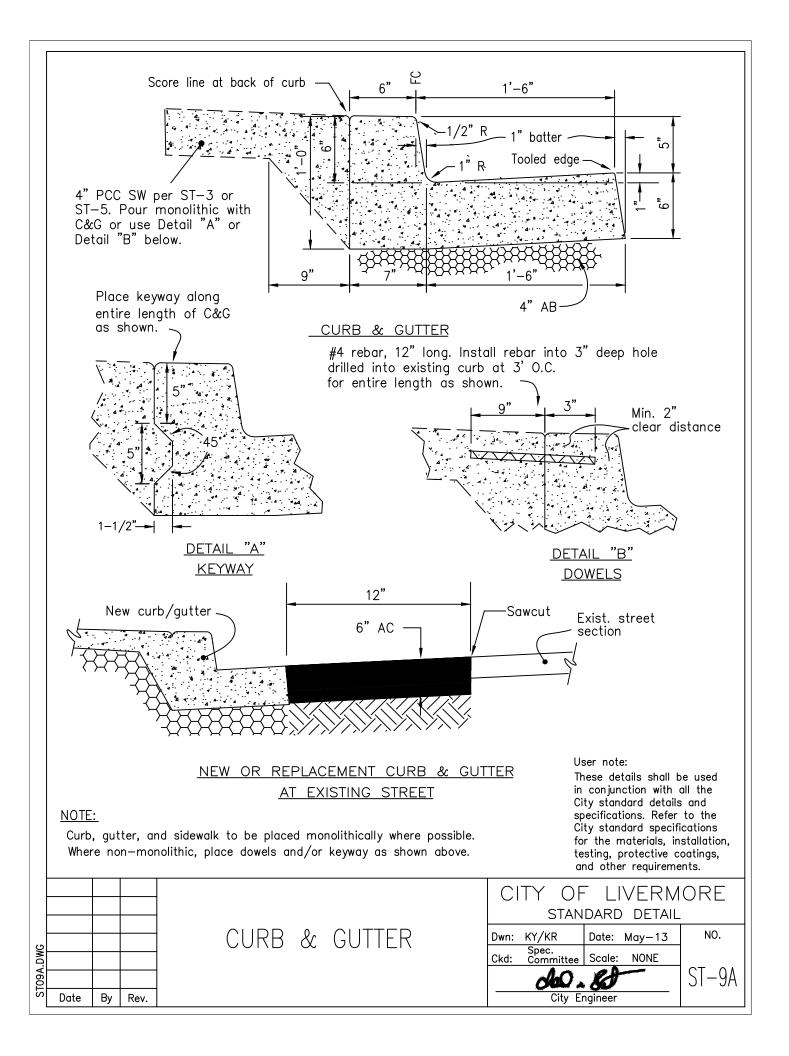
when S/W or D/W are poured separate

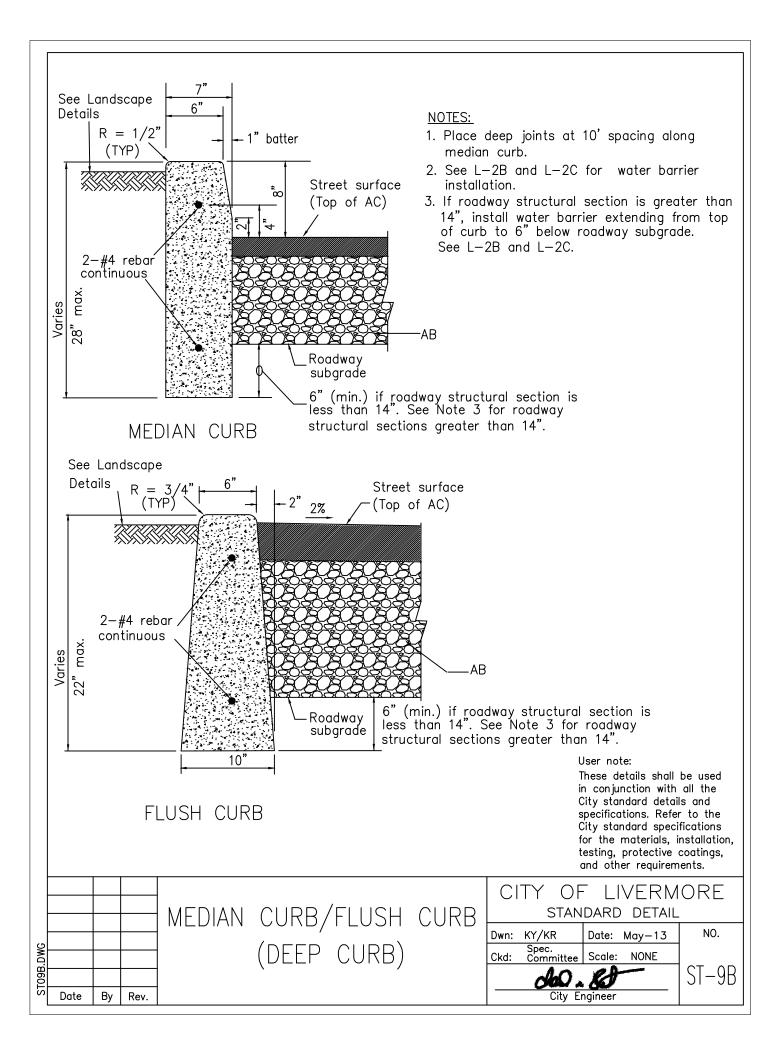
from curb

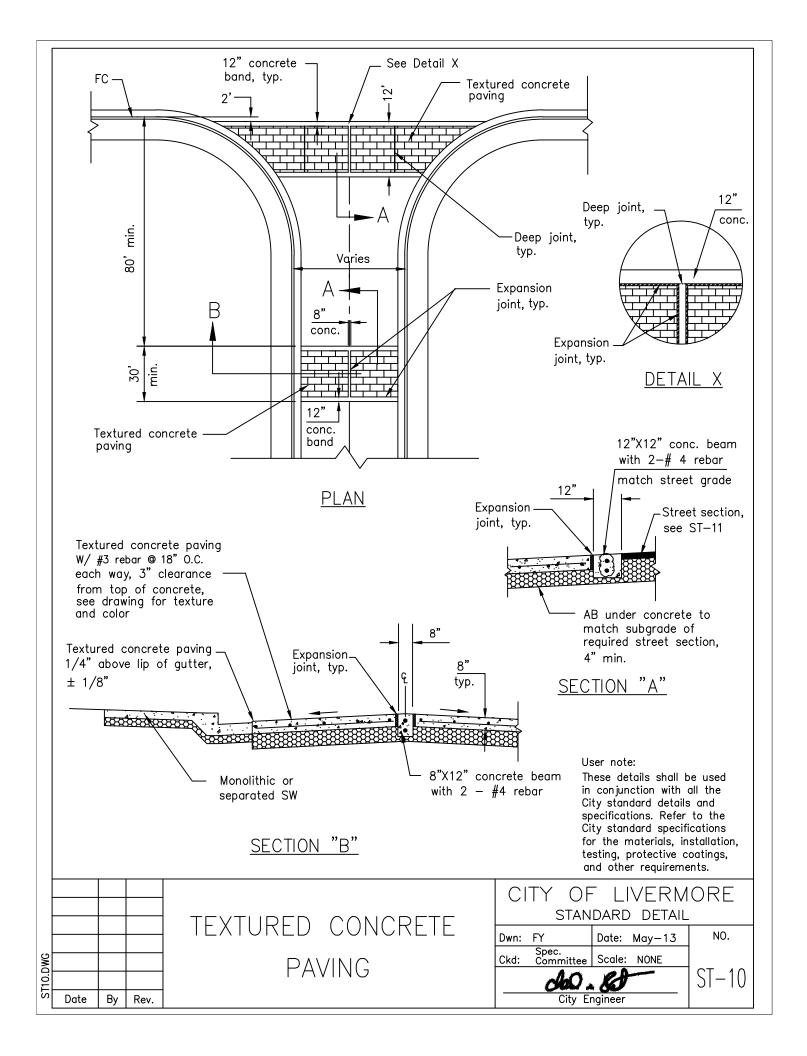












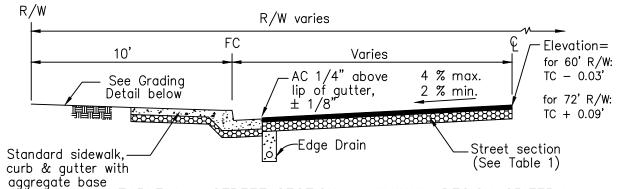


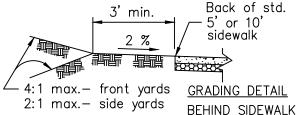
TABLE 1 - STREET SECTION - MINIMUM DESIGN CRITERIA

CTDEET TYPE	MIN.	AC &	BASE
STREET TYPE	TRAFFIC INDEX	MIN. AC	MIN. BASE
Private/townhouse/condo	NA	4.0"	6.0"-8.0" *
Cul-de-sac	NA	4.0"	6.0"-8.0" *
Local	NA	4.0"	6.0"-8.0" *
Collector (Residential) **	7.0	4.0"	8.0"
Major (Residential) **	9.0	5.5"	7.0"
Major (Industrial/Commercial)**	10.0	6.5"	7.0"
Frontage**	9.0	5.5"	7.0"
Industrial/Commercial**	9.0	5.5"	7.0"
Bus stops	in street area in turnout area	12" full dept 12" concrete	th AC e. See ST-15

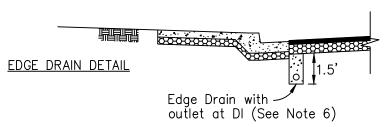
See Table 2 — Base Thickness Requirement Street section design to be based on Caltrans flexible payement design method Submit supporting data for traffic index calculation for City Engineer's approval

NOTES:

- 1. See ST-3, 4 & 5 for sidewalks.
- 2. See ST-9A for curb and gutter.
- 3. See ST-4, 6, 7, & 8 for driveways.
- 4. See ST-12 for utility locations.
- 5. See ST-2 for travel way and R/W widths.
- 6. Edge drain required at all park frontage, and at toe of slope or as required by the City Engineer. (Construct per Caltrans Standard Plan D102, Perforated Pipe Dia.=4")

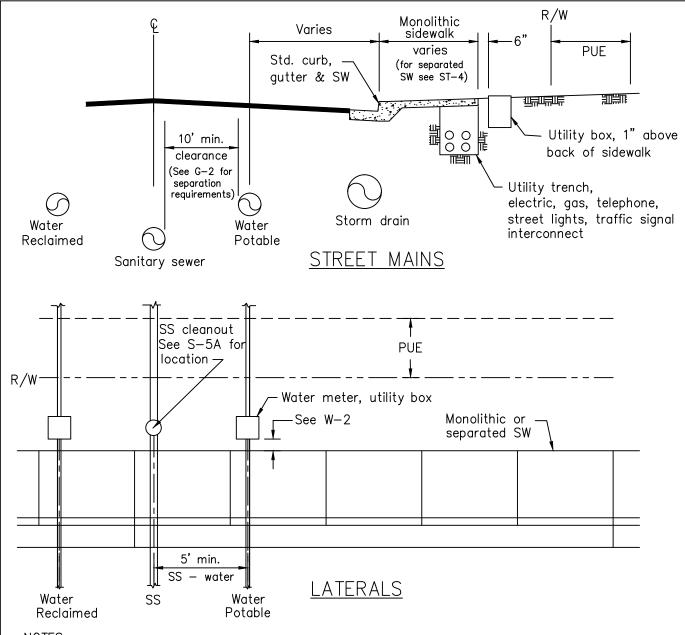


Note: No retaining walls allowed within 3' of back of sidewalk.



User note:

						- LIVERM Idard detail	
				STREET SECTION	Dwn: FY	Date: May-13	NO.
DWG				STREET SESTION	Spec. Ckd: Committee	Scale: NONE	
1011.					da	RI	ST-11
S	Date	Ву	Rev.		City E	ngineer	

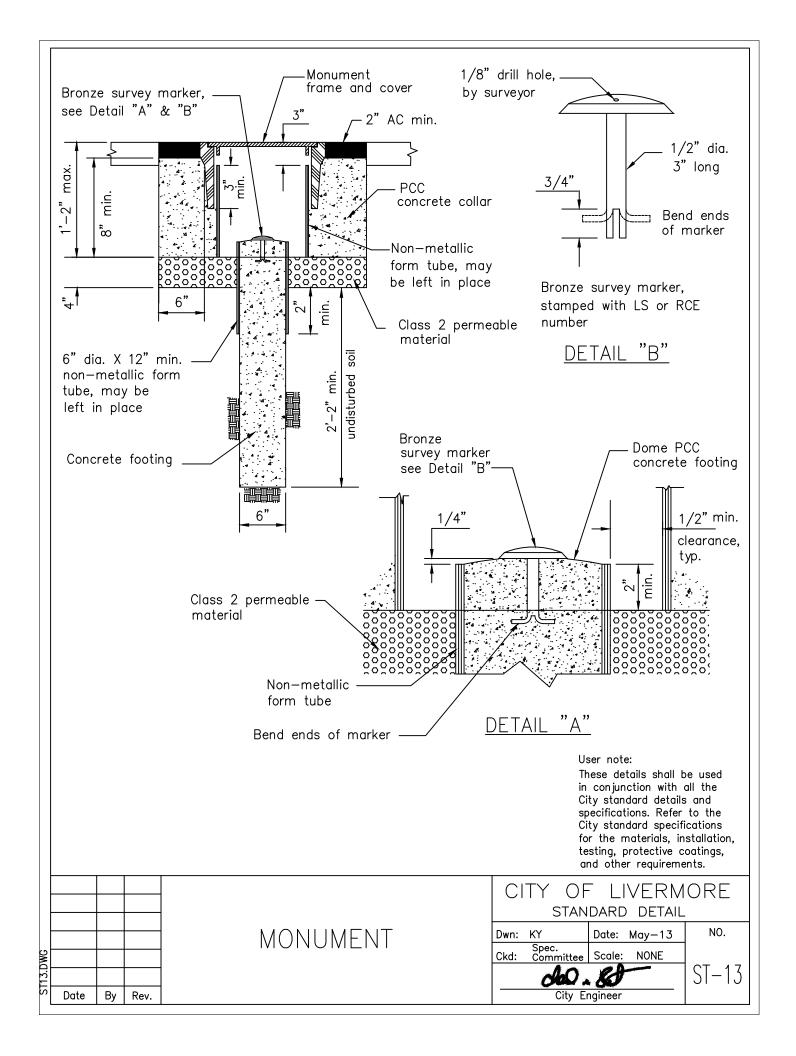


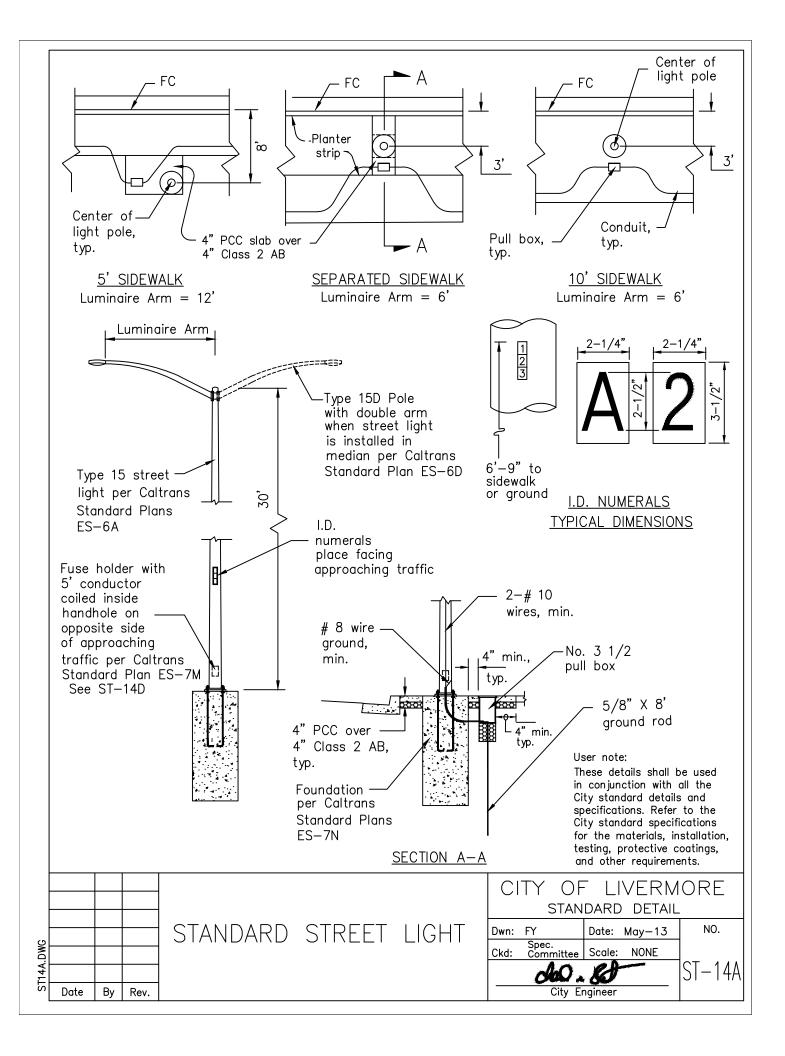
NOTES:

- 1. Water lines to be placed on the north or west side of the centerline.
- 2. See ST-3, 4, & 5 for sidewalks.
- 3. See ST-4, 6, 7, & 8 for driveways.
- 4. See ST-9A for curb and gutter.
- 5. Utility services shall be located a minimum of 2' away from any driveway. No utility services shall be placed beneath a driveway unless otherwise approved by the Engineer.
- 6. Utility boxes in driveway areas to have traffic lids.
- 7. A 10' distance must be maintained between reclaimed and portable water

User note:

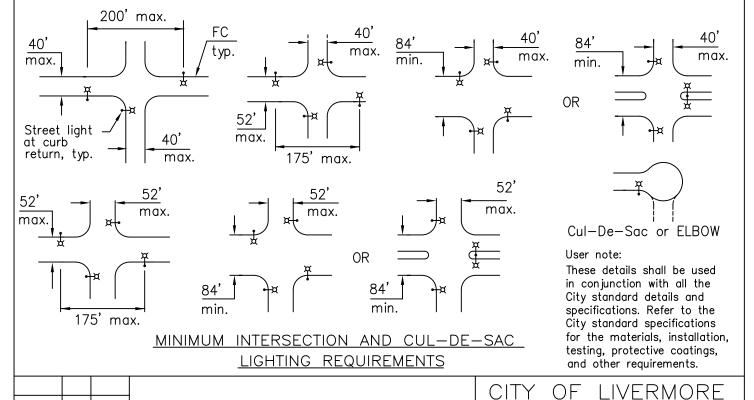






MAXIMUM STREET WIDTH	MEDIAN			STREET LIG	НТ													
(FC TO FC)	WIDTH	LOCATION	PATTERN	MAXIMUM SPACING	LED LUMINAIRE													
40'	0	roadside	staggered	* 200'	LEOTEK Green Cobra GCJ1-30J-MV-40K-2R-045 With house side shield or approved													
52'	0	roadside	staggered	* 175'	or approved equal(Max Wattage—25W Min Delivered Lumens—3900 Lm)													
84'	16'	roadside	staggered	160' each side														
04	10	median	dual arm centered	200'	LEOTEK Green Cobra GCJ1-30J-MV-40K-2R-055													
96'	28'	roadside	staggered	160' each side	approved equal(Max Wattage—34W Min Delivered Lumens—5400 Lm)													
	20	median	dual arm centered	180'	,													
108'	16'	roadside	staggered	200' each side														
		10	10		10		10	10	10	10	10	10	10	median	dual arm centered	200'	LEOTEK Green Cobra GCJ3-30J-MV-40K-2R-095	
120'	28'	roadside	staggered	200' each side	approved equal(Max Wattage—67W Min Delivered Lumens—9300 Lm)													
120	20	median	dual arm centered	200'														

* NOTE: The maximum street light spacing may be increased by 40% on industrial streets up to 52' wide.



STANDARD STREET

LAYOUT

ST14B.DWG

Date

By

Rev.

STANDARD DETAIL

Date: Sept-22

Scale: NONE

KY/HI

Spec. Committee

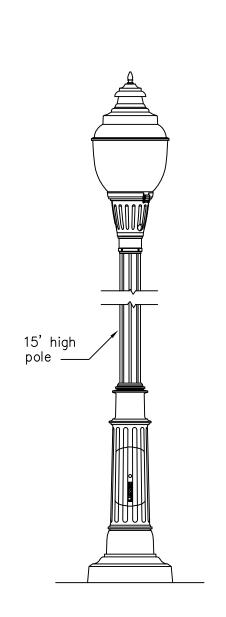
City Engineer

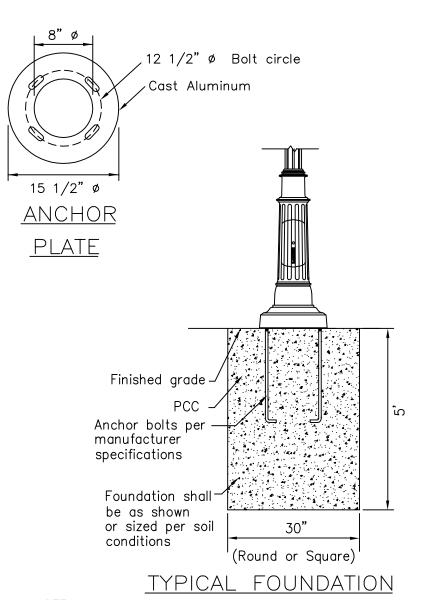
Dwn:

Ckd:

NO.

ST-14B





LUMEC LUMINAIRE
AND POLE

NOTE:

- 1. PULL BOX LOCATION PER ST-14A
- 2. THIS STREET LIGHT TO BE INSTALLED IN ALL AREAS OF THE CITY EXCEPT WHERE THE DOWNTOWN AND FIRST STREET LIGHT LOCATIONS ARE SPECIFIED ON DETAIL ST—14E

DECORATIVE STREET LIGHT LAYOUT

MAXIMUM STRFFT WIDTH	STREET	LIGHT	LED LUN	MINAIRE
FC TO FC	LOCATION	PATTERN	SIZE WATT	MAXIMUM SPACING
40'	roadside	staggered	65	160'

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

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7	Date	Ву	Rev.	

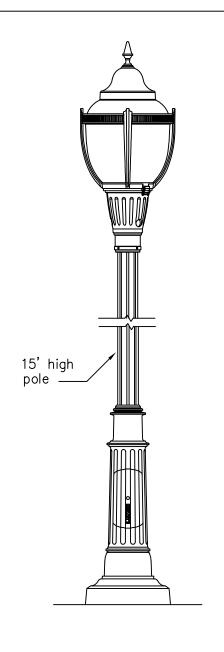
DECORATIVE STREET LIGHT CITY OF LIVERMORE
STANDARD DETAIL

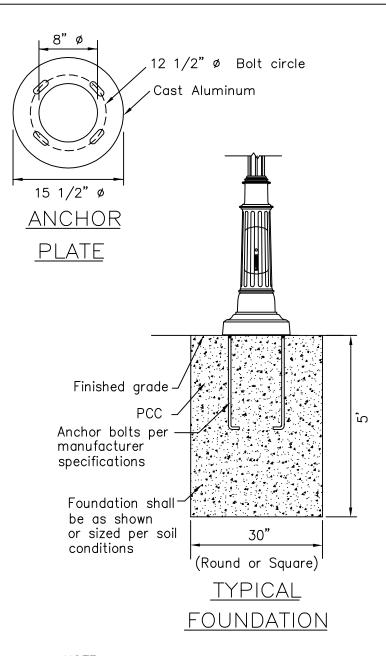
Dwn: FY Date: May-13 NO.

Ckd: Spec.
Committee Scale: NONE

ST-140

City Engineer





LUMEC LUMINAIRE
AND POLE

NOTE:

1. PULL BOX LOCATION PER ST-14A

DECORATIVE STREET LIGHT LAYOUT

STREET	LIGHT	LED LUN	JINAIRE
LOCATION	PATTERN	SIZE WATT	MAXIMUM SPACING
roadside	staggered	90	100'

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

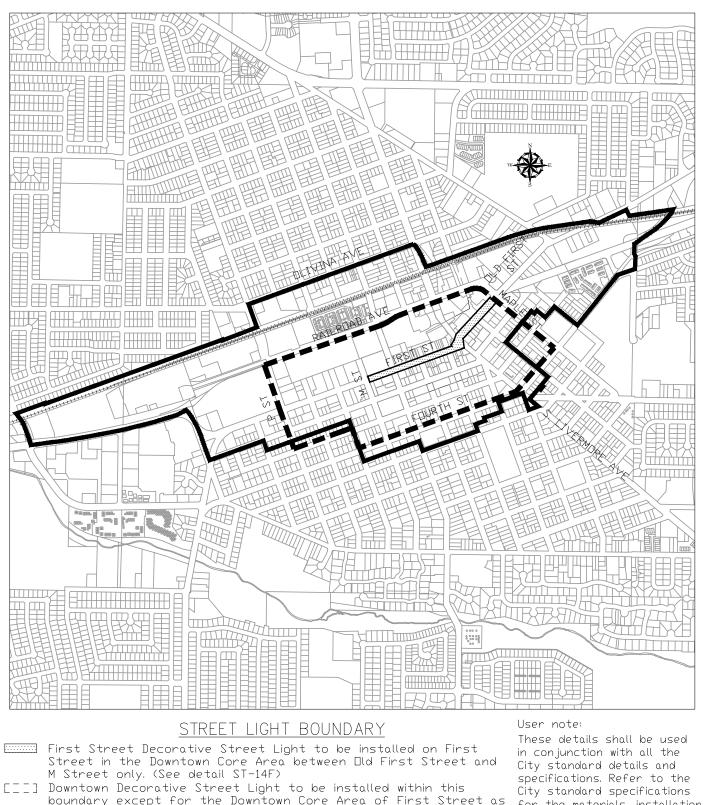
Date By Rev.

DOWNTOWN DECORATIVE STREET LIGHT CITY OF LIVERMORE STANDARD DETAIL

Dwn: FY Date: May-13 NO.

Ckd: Spec. Committee Scale: NONE

City Engineer ST-14D



boundary except for the Downtown Core Area of First Street as indicated above. (See detail ST-14D)

🔳 Downtown Specific Plan Area Boundary.

Date

Rev.

for the materials, installation, testing, protective coatings, and other requirements.

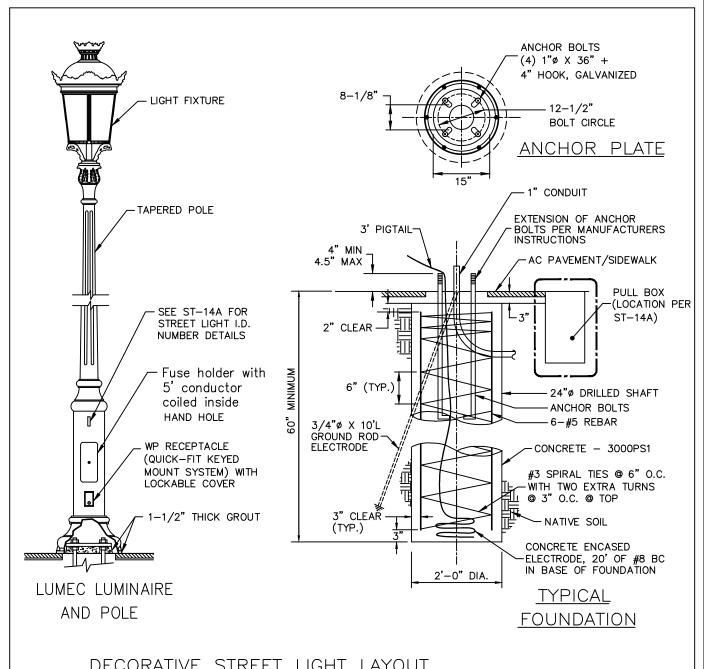
DOWNTOWN DECORATIVE STREET LIGHT Ву

CITY OF LIVERMORE STANDARD DETAIL

NO. Dwn: FY Date: May-13 Spec. Committee Ckd: Scale: NONE

City Engineer

ST-14F



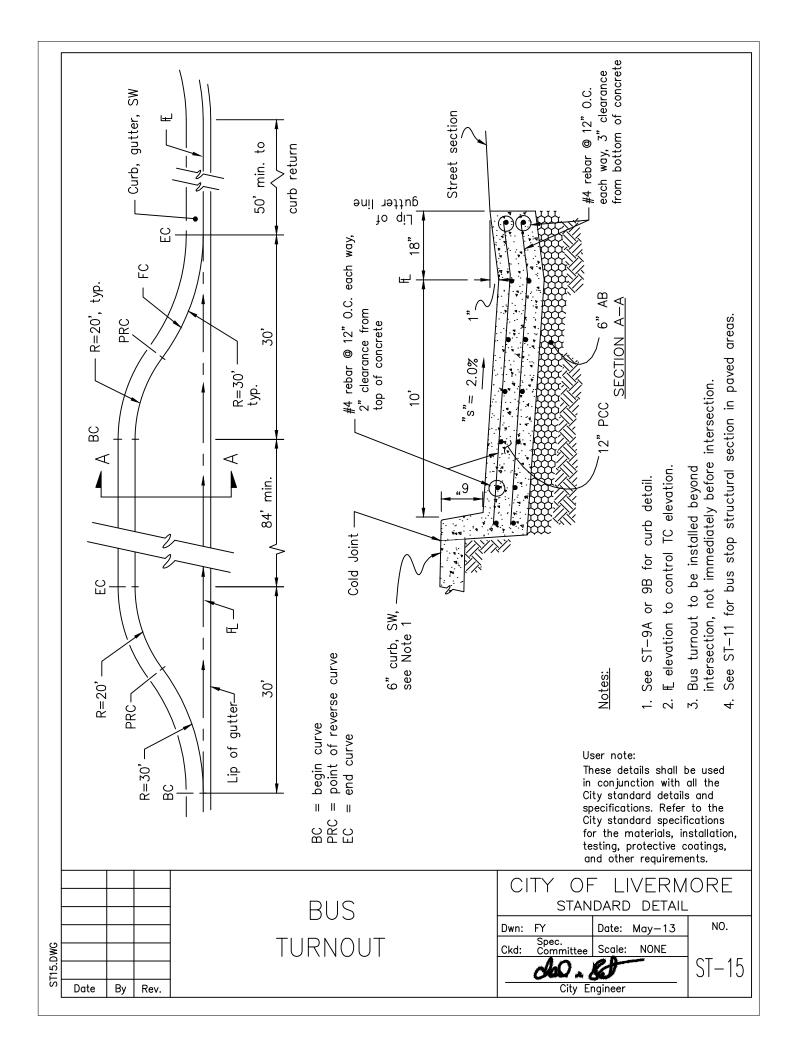
DECORATIVE STREET LIGHT LAYOUT

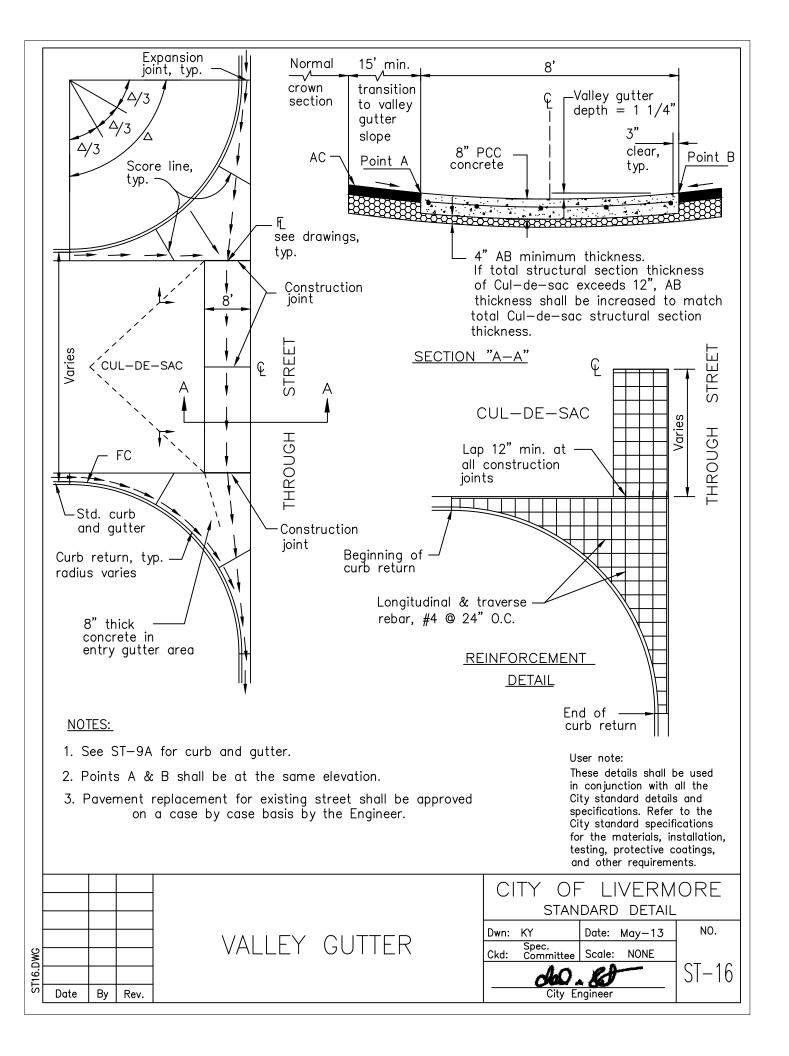
	LUMINAIRE TYPE	POLE HEIGHT	POLE SPACING			
MAIN CORE	100w METAL HALIDE	9'	50'			
THIS LIGHT TO BE USED ON FIRST STREET BETWEEN OLD FIRST ST.						
AND M STREET ONLY						

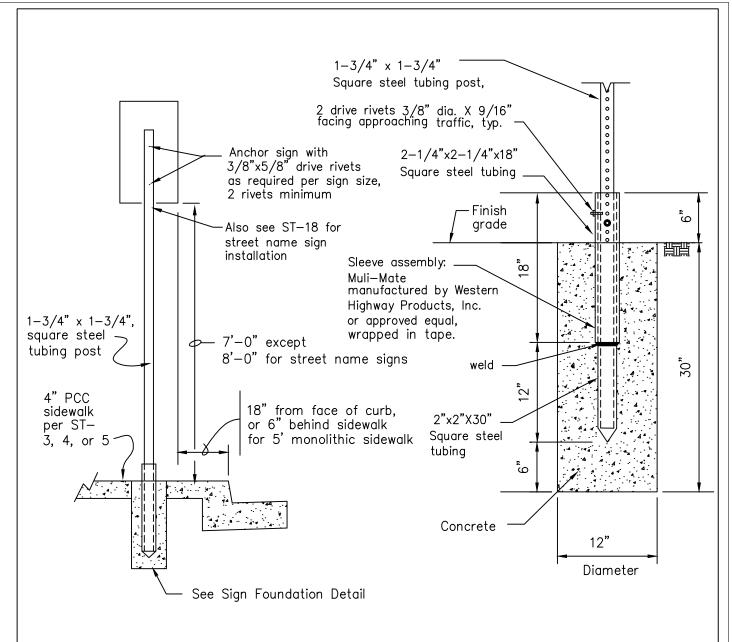
SEE ST-14E FOR STREET LIGHT USE BOUNDARIES

User note:

				FIRST STREET		F LIVERM DARD DETAIL	- ' '
OWO OND				DECORATIVE STREET LIGHT	Dwn: FY Ckd: Spec. Committee	Date: May-13 Scale: NONE	NO. ST-14F
7	Date	Ву	Rev.		City E	ngineer	







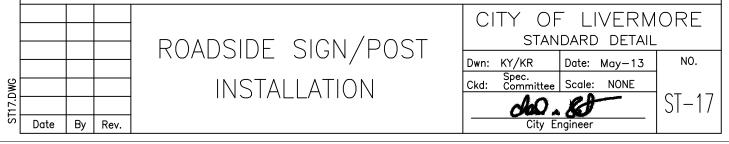
SIGN FOUNDATION DETAIL

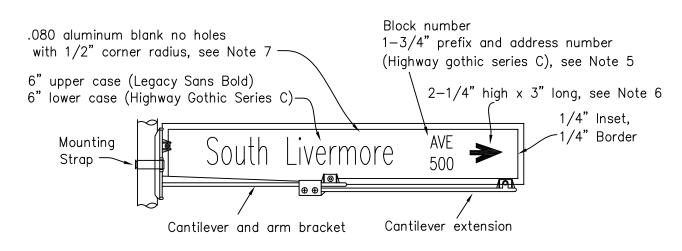
STEEL POST

NOTES:

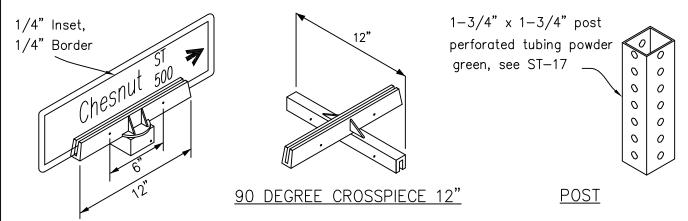
- 1. See ST-18 for street name sign requirements.
- 2. See ST-22 for median island sign requirements.

User note:





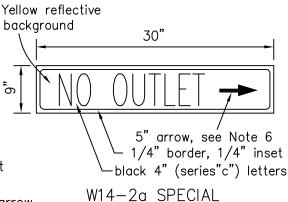
STREET NAME SIGN INSTALLATION ON A STREET LIGHT



NOTES:

- 1. Reflective sheeting material 3M DG3 4090 white. Electro cut film 3M 1177c green reserve weed.
- 2. See ST-17 for pole installation.
- 3. Bottom of lowest sign on post to be 8'-0" min. above finish grade, and bottom of lowest sign on street light to be 10'-0" above finished grade.
- 4. Signs shall be installed 18" behind face of curb or 6" behind 5' monolithic sidewalk.
- 5. Block number to denote highest address number adjacent to intersection by hundreds (or by tens if applicable).
- 6. Arrow to point in direction of increase in address. Omit arrow if the street does not continue in the direction of increase.
- 7. The size of the street name sign blank depends on how many letters are in the name:

<i>J</i>	
24" x 9 "	1-5 letters
30" x 9 "	6-8 letters
36" x 9 "	9-12 letters
42" x 9 "	13+ letters

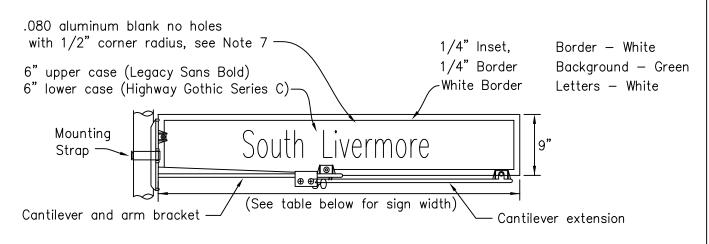


W14-2a (Rt) SPECIAL SHOWN

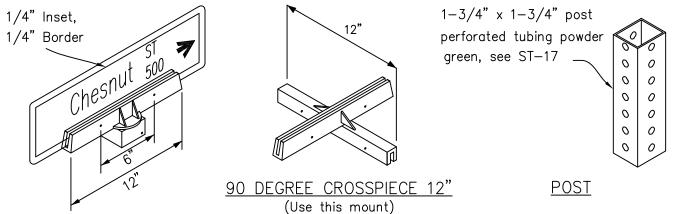
User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

CITY OF LIVERMORE STREET NAME SIGN STANDARD DETAIL NO. Dwn: KY/KR/HI Date: Apr-23 AND Spec. Committee Ckd: Scale: NONE ST18.DWG W14-2a SPECIAL SIGN ST-18A Date City Engineer Rev.



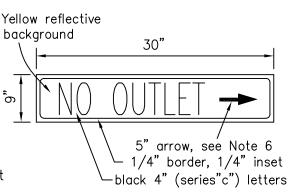
STREET NAME SIGN INSTALLATION ON A STREET LIGHT



NOTES:

- 1. Reflective sheeting material 3M DG3 4090 white. Electro cut film 3M 1177c green reserve weed.
- 2. See ST-17 for pole installation.
- 3. Bottom of lowest sign on post to be 8'-0" min. above finish grade, and bottom of lowest sign on street light to be 10'-0" above finished grade.
- 4. Signs shall be installed 18" behind face of curb or 6" behind 5' monolithic sidewalk.
- 5. Block number to denote highest address number adjacent to intersection by hundreds (or by tens if applicable).
- 6. Arrow to point in direction of increase in address. Omit arrow if the street does not continue in the direction of increase.
- 7. The size of the street name sign blank depends on how many letters are in the name:

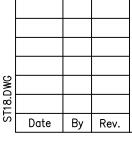
·	
24" x 9 "	1-5 letters
30" x 9 "	6-8 letters
36" x 9 "	9-12 letters
42" x 9 "	13+ letters



<u>W14-2a SPECIAL</u> w14-2a (Rt) SPECIAL SHOWN

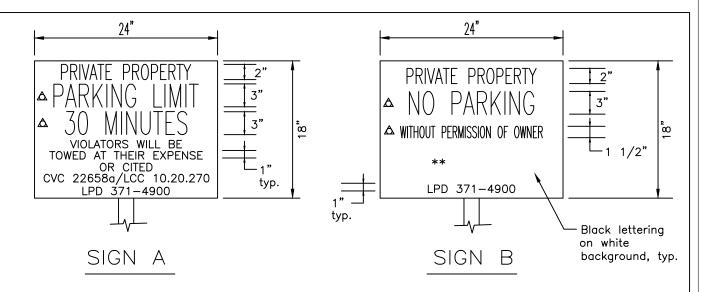
User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.



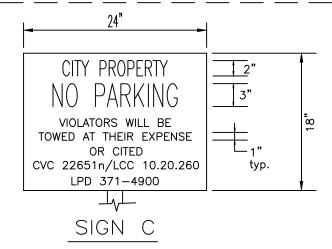
STREET NAME SIGN (DOWNTOWN CORE) AND W14-2a SPECIAL SIGN CITY OF LIVERMORE STANDARD DETAIL

	STAIN	DANL	DETAIL	
	KY/KR/HI			NO.
Ckd:	Spec. Committee	Scale:	NONE	
	ST-18B			
	City E	ngineer		



- ** Both codes may be used together (see above example) or individually:
 - " VIOLATORS WILL BE TOWED AT THEIR EXPENSE CVC 22658a"
 - " VIOLATORS WILL BE CITED LCC 10.20.270 ".

Additional signs may be installed within the parking area with approval of the Planning Department. Message may vary (TIME LIMIT, CUSTOMERS ONLY, etc.) with approval of the Police Department.

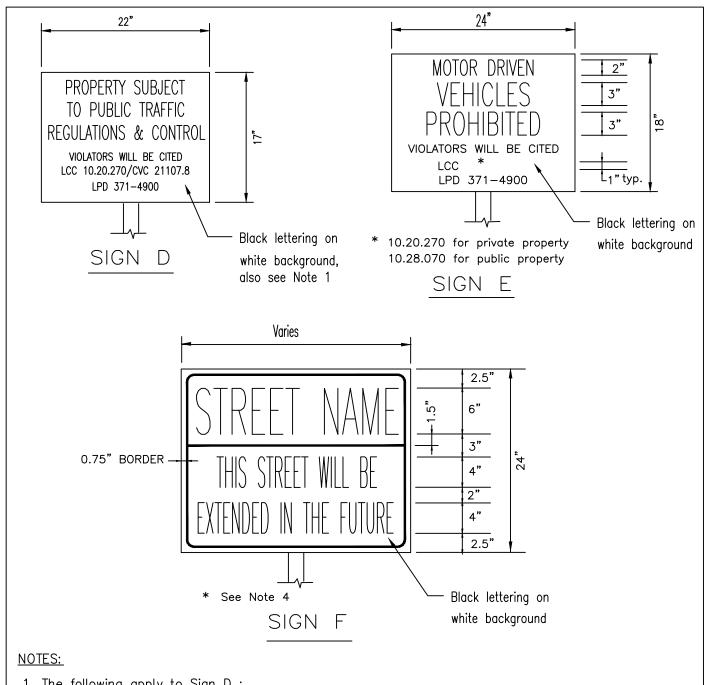


NOTES:

- 1. For enforcement of public traffic regulations and control see ST-20B.
- 2. Private Property signs to be purchased, installed and maintained at no cost to the City.
- 3. Private Property signs to be installed at each entrance to the subject private property outside of the public right—of—way.
- 4. City off—street signs on City property shall use square steel tubing poles per ST—17.
- 5. Optional wording: "VIOLATORS WILL BE CITED/TOWED AT THEIR EXPENSE"

User note:

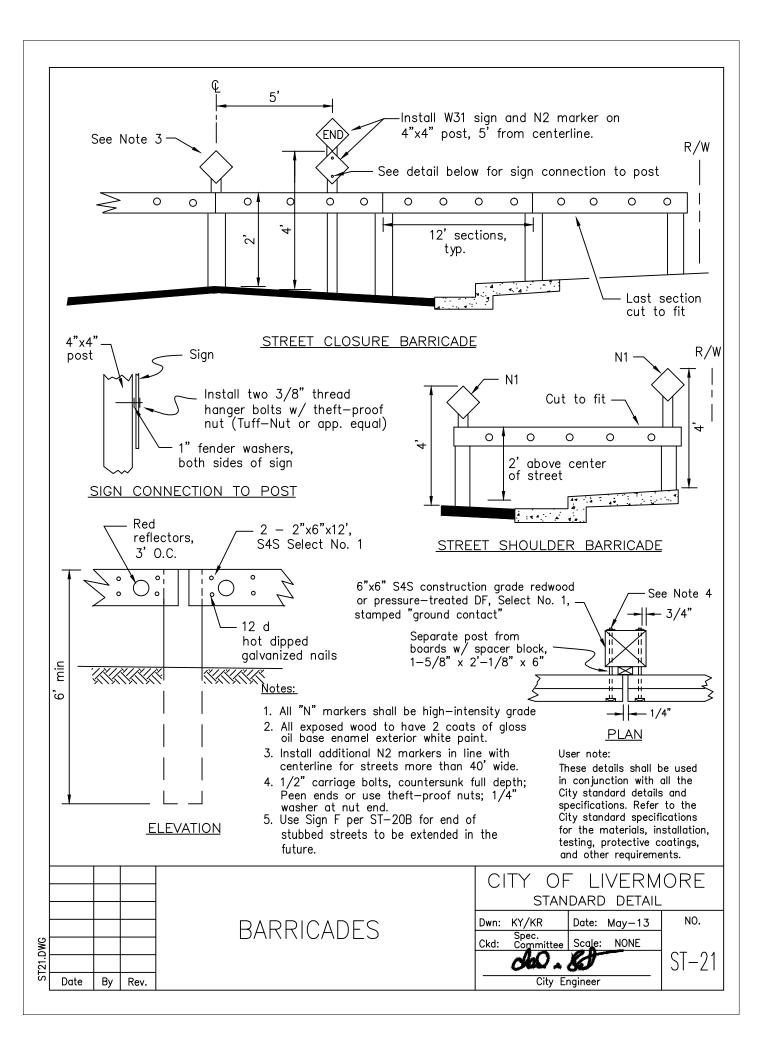


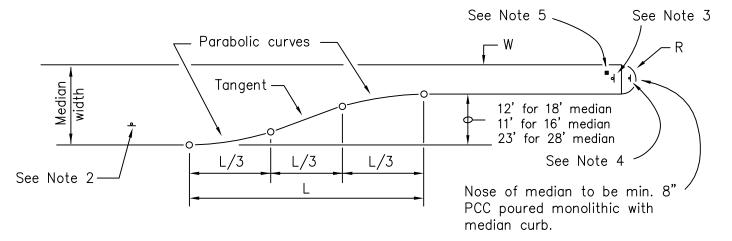


- 1. The following apply to Sign D:
 - a. These signs must be posted for enforcement of public traffic regulations and control.
 - b. Signs may be posted alone or with Parking Limit signs, see ST-20A
- 2. Minimum letter size 1".
- 3. See ST-20A for additional notes.
- 4. Sign F to be installed at end of stubbed streets which are to be extended in the future.

User note:

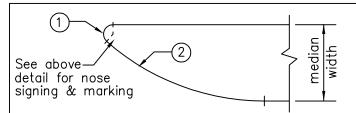






L=length of taper 60' 90' 120' dist. from beg. of taper 10' 11' 5 7.5 10 .16 .17 10 15.0 20 .62 .69 15 22.5 30 1.41 1.55 20 30.0 40 2.50 2.75			
60' 90' 120' dist. from beg. of taper 10' 11' 5 7.5 10 .16 .17 10 15.0 20 .62 .69 15 22.5 30 1.41 1.55	Offset distance for		
5 7.5 10 .16 .17 10 15.0 20 .62 .69 15 22.5 30 1.41 1.55	Οτ		
10 15.0 20 .62 .69 15 22.5 30 1.41 1.55	12'		
30 45.0 60 5.00 5.50 40 60.0 80 7.50 8.25 45 67.5 90 8.59 9.45 50 75.0 100 9.38 10.31 55 82.5 110 9.84 10.83	.19 .75 1.69 3.00 6.00 9.00 10.31 11.25 11.81 12.00		

median width	W	R
16'	5'	2.5'
18'	6'	3'
28'	5'	2.5'



MEDIAN WIDTH	CI	JRVE # 1) DA	ATA	Cl	JRVE # 2 [ATA
	R	DELTA	L	R	DELTA	L
16'	2'	138° 35' 25"	4.84'	50'	41° 24′ 35″	36.14
18'	2'	139° 43′ 28″	4.87	60'	40° 34′ 02″	42.48'
28'	4'	134° 11' 04"	9.38'	70'	45° 48′ 56″	55.79

<u>Notes</u>

- 1. See Notes 3, 4, and 5
- 2. R= Radius; Delta= internal angle; L= Length of curve
- 3. In the presence of roadway features, such as curves, which would affect the layout of the median, see the drawing for layout data.

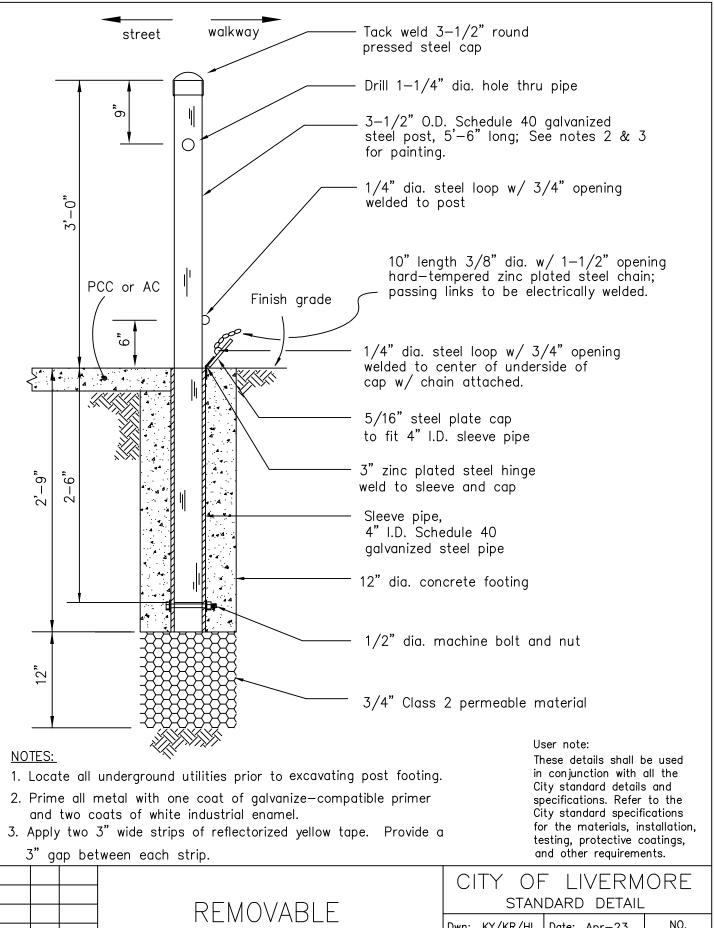
MEDIAN NOSE OPPOSITE A
LEFT TURN LANE

NOTES:

- 1. See ST-2A thru ST-2C for street widths, ST-9B for median curb, and ST-17 for roadside sign/pole installation.
- 2. Install R6-1 (rt) opposite driveways as directed by the Engineer.
- 3. Install R4-7; bottom of sign 5' above median surface, 4' from nose of median, as directed by the Engineer.
- 4. Install Type K reflector, with 8" anchor, 18" from nose of median. Paint nose w/ reflective yellow paint, as directed by the Engineer.
- 5. All boxes installed in nose of median to be 5' from end of PCC concrete nose.

User note:

			MFDIAN		LIVERM	
ST22.DWG	Ву	Rev.	CONSTRUCTION	Ckd: Spec. Committee	Date: Apr-23 Scale: NONE	NO. ST-22



REMOVABLE

BOLLARD

CITY OF LIVERMORE

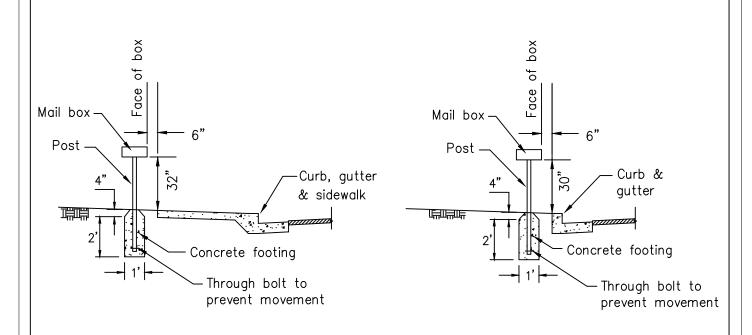
STANDARD DETAIL

Dwn: KY/KR/HI Date: Apr-23 NO.

Ckd: Committee Scale: NONE

City Engineer

ST-23



WITH MONOLITHIC SIDEWALK

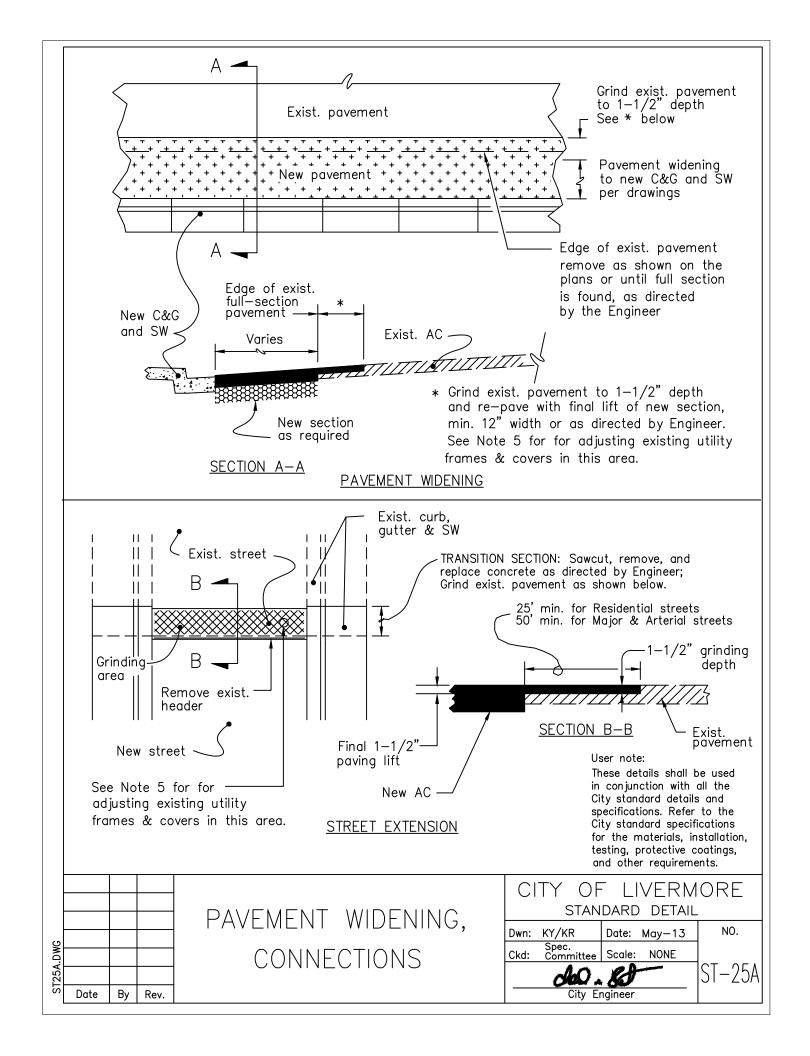
ALL OTHER CASES

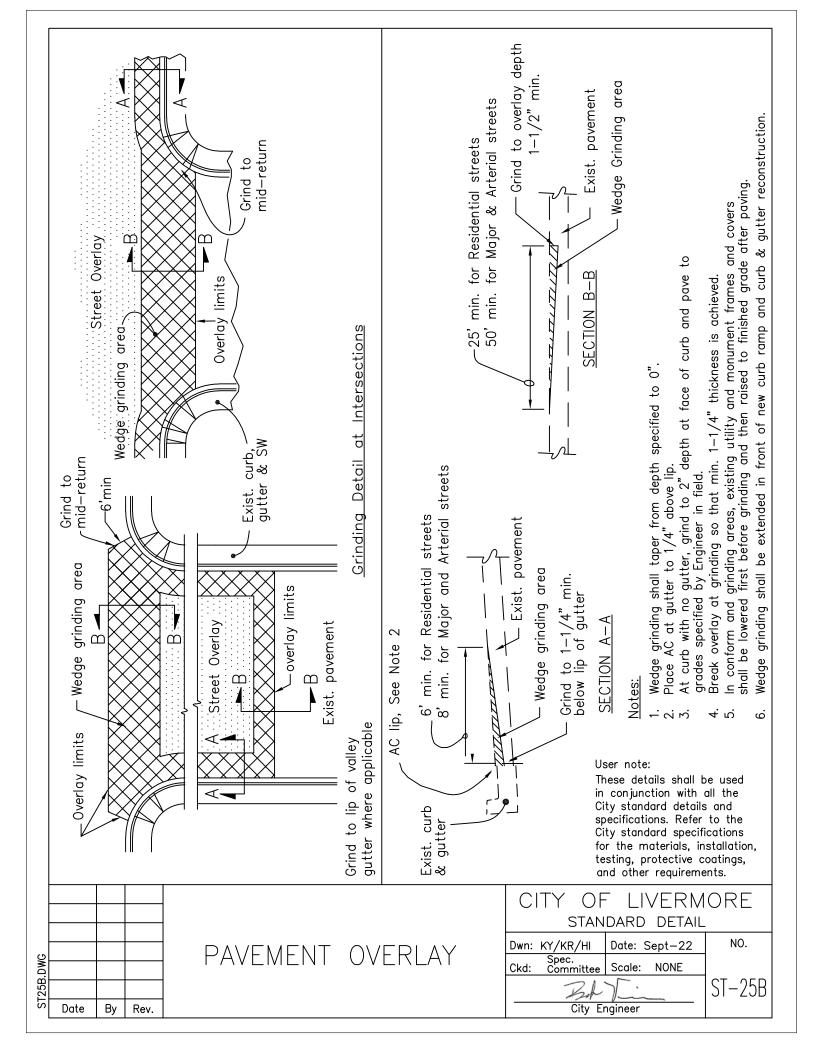
NOTES:

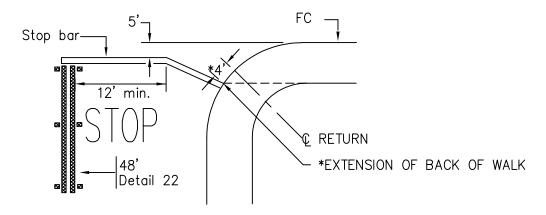
- 1. Residential boxes may be installed on 4"x4" construction Heart S4S Grade wood post set in concrete footing.
- 2. Residential installation shall be dual or cluster installation. Single box installation allowed only upon approval of Postmaster.
- 3. Install industrial boxes on 2" diameter steel pipe.
- 4. Industrial boxes to be installed on side of street without sidewalk, and may be single box installation.
- 5. Edge of box to be a minimum of :
 - 5' from poles
 - 3' from driveways
 - 10' from curb returns
 - 5' from fire hydrants in 5' SW
 - 10' from fire hydrants in 10' SW
- 6. Location of all boxes subject to approval of Postmaster.

User note:

						CITY OF LIVERMORE STANDARD DETAIL			
SIZ4.DWG	Date	Ву	Rev.	MAIL	BOX	INSTALLATION	Dwn: KY Ckd: Spec. Committee City E	Date: May-13 Scale: NONE ngineer	NO. ST-24

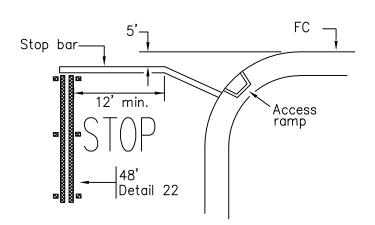




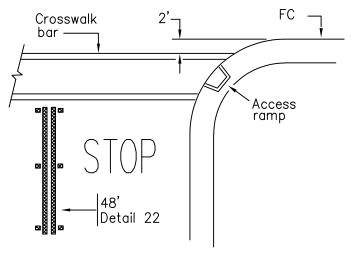


STOP BAR AT INTERSECTION NO ACCESS RAMP

* STOP BAR SHALL ANGLE TO GUTTER EITHER AT 4' FROM & OF RETURN OR AT EXTENSION OF BACK OF WALK, WHICHEVER IS GREATER.



STOP BAR AT INTERSECTION W/ ACCESS RAMP



CROSSWALK

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

NO.

ST-26

Date By Rev.

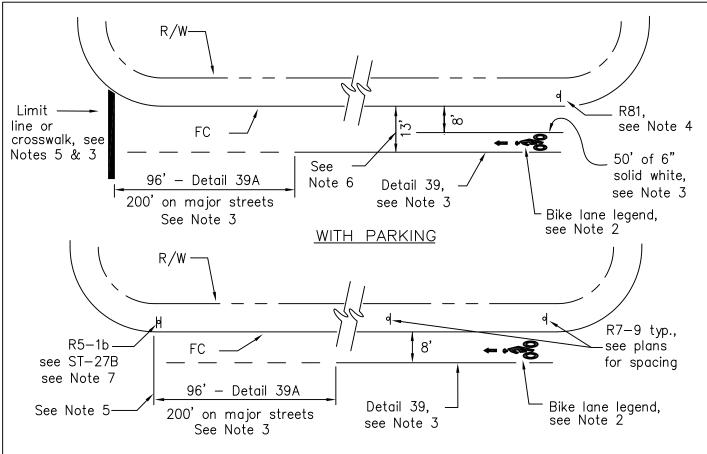
CROSSWALK/STOP BAR INSTALLATION

CITY OF LIVERMORE STANDARD DETAIL

Dwn: KY/KR/HI Date: Sept-22

Ckd: Spec. Committee Scale: NONE

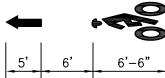
City Engineer



WITHOUT PARKING

NOTES:

- 1. See Detail ST-17 for sign pole installation.
- 2. Bike Lane legend shall be per Caltrans Standard Plans A24A "Bike Lane Arrow", and A24C "Bike Lane Symbol with Person". Bike lane legends shall be installed using a specialized crushed glass thermoplastic composition per the specifications.
- 3. All striping to be white thermoplastic.
- 4. Install 12"x8" R81 signs at the beginning of bike lane at all major street intersections and at 1/2 mile maximum spacing. Install legends at the beginning of the bike lane at all intersections and 1/2 mile maximum spacing.
- 5. At crosswalk or limit line, extend Detail 39A to line; otherwise terminate at curb return.
- 6. Parking plus Bike Lane width may be reduced to 12' in special cases, if approved by the Engineer.
- 7. On major streets, install R5—1b back to back with the last R7—9 on each block.

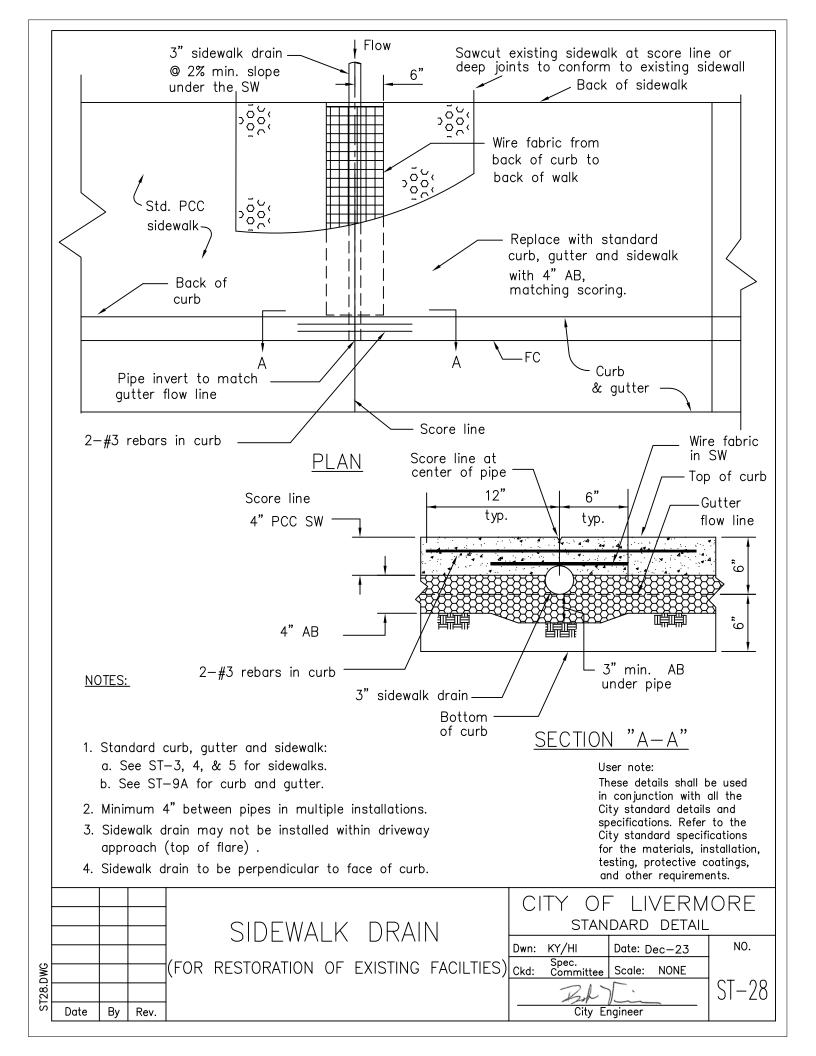


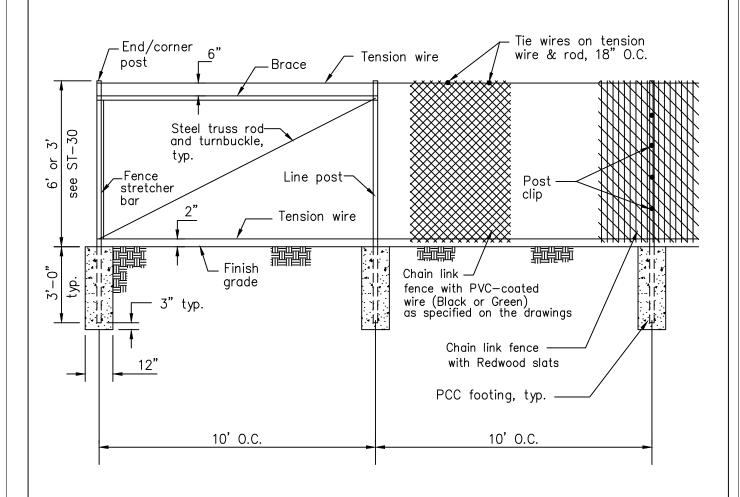
BIKE LEGEND DETAIL

Legend type	Legend area
*	7 SF
070	7 SF
total:	14 SF

User note:

					9	ila etilei regali errie	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					CITY OF	LIVERM	ORE	
					STANDARD DETAIL			
				BIKE LANES	Dwn: KY/KR/JV/HI		NO.	
DWG					Spec. Ckd: Committee	Scale: NONE	_{CT_27}	
ST27.[Boh	1	$ \Im I - ZI $	
S	Date	Ву	Rev.		City	Engineer		



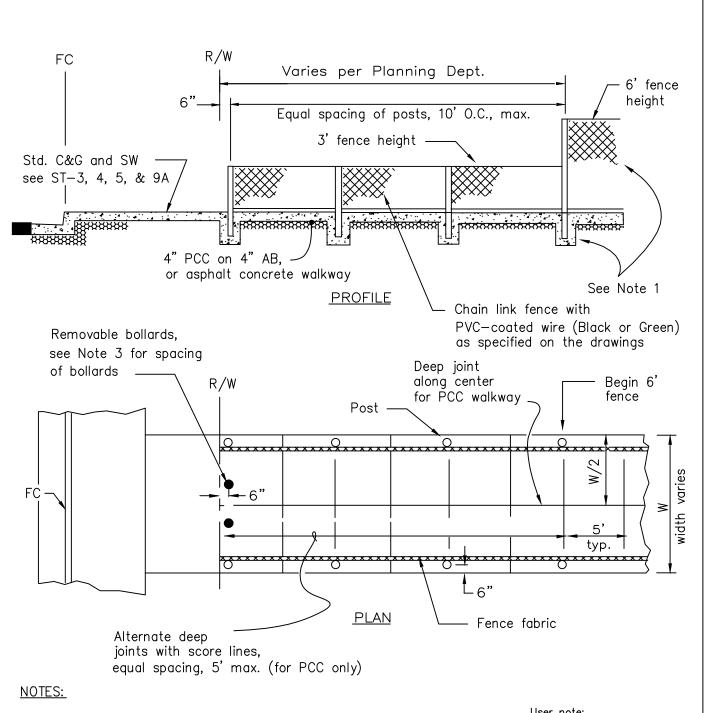


NOTE:

See ST-30 for Pedestrian Walkway fence height and setback requirements.

User note:

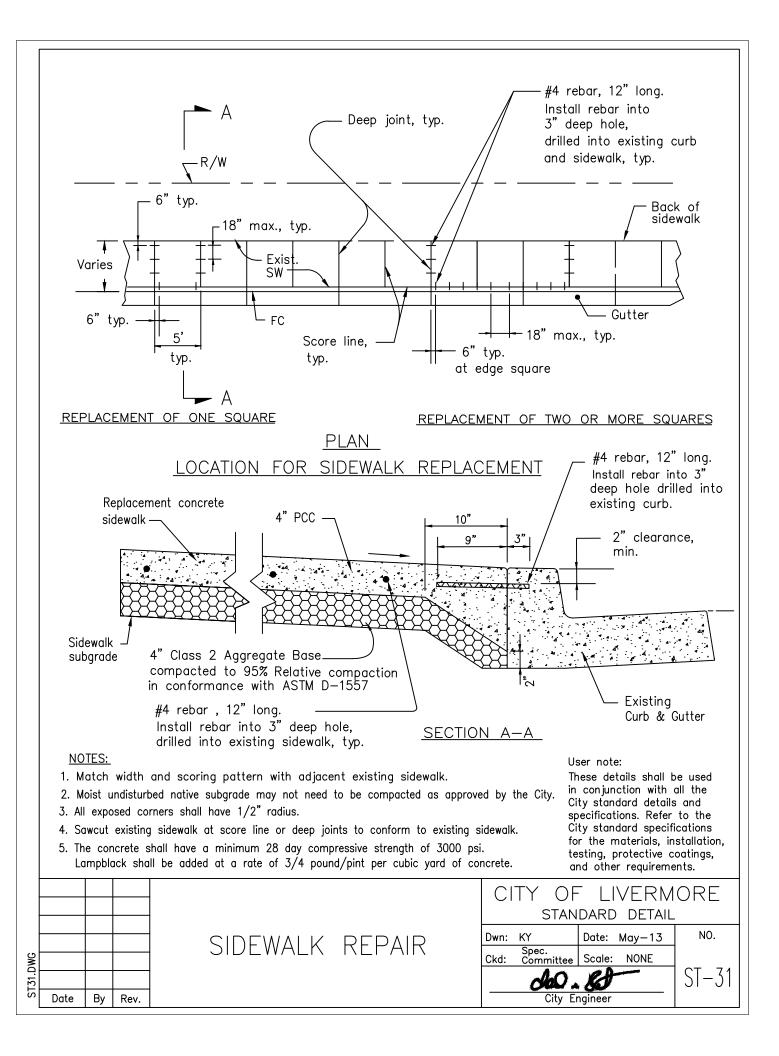


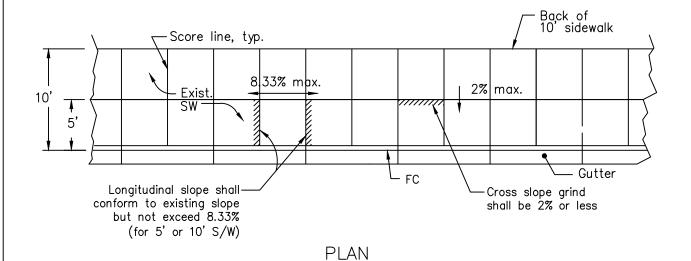


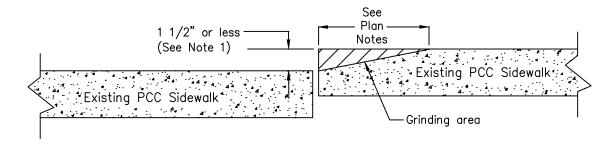
- 1. See ST-29 for chain link fence and concrete footing details.
- 2. See ST-23 for removable bollard details.
- 3. For walkways 10 feet or narrower, install one bollard at 5 feet from one edge of travel path. For walkways wider than 10 feet, install bollards (2 min.) with a 5 feet wide gap at the center of walkway.

User note:









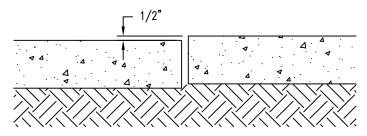
TYPICAL SECTION

NOTE:

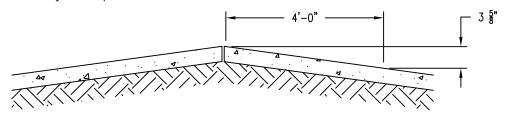
1. If separation is greater than 1 $\frac{1}{2}$ " then sidewalk is to be removed and replaced per City Standard Detail ST-31.

User note:

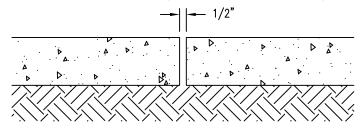




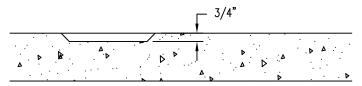
STEP SEPARATIONS A sidewalk panel has been lifted or subsided by 1/2" or more than the adjacent panel.



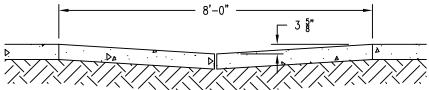
<u>TRANSVERSE GRADE CHANGE</u> Two sidewalk panels have been lifted to a peak, where the peak is 3.5/8" (7.5%) or higher than the normal grade of the sidewalk 4' away in each direction.



OPENING IN SIDEWALK There is an opening in the sidewalk measuring 1/2" or greater.



<u>SPALLING OF SURFACE</u> A portion of the sidewalk has been removed, and the result is a hole of 3/4" or deeper.

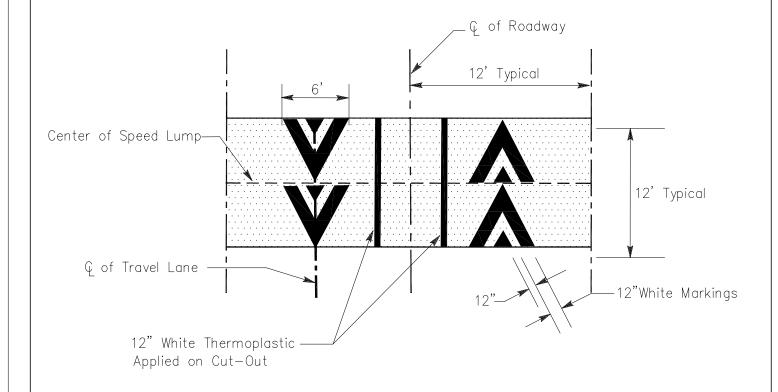


SUNKEN SIDEWALK The sidewalk has subsided within a stretch of 8 feet of sidewalk while there is a portion that is greater than or equal to 3.5/8" (7.5%) lower than the rest of the sidewalk.

NOTE: CROSS SLOPE REQUIREMENT=2%



PAVEMENT MARKINGS FOR SPEED LUMPS DETAIL:



User note:

			CITY OF LIVERMORE STANDARD DETAIL			
Date	By Rev.	SPEED LUMPS	Spec	Sept-22 NO. S: NONE ST-34		

