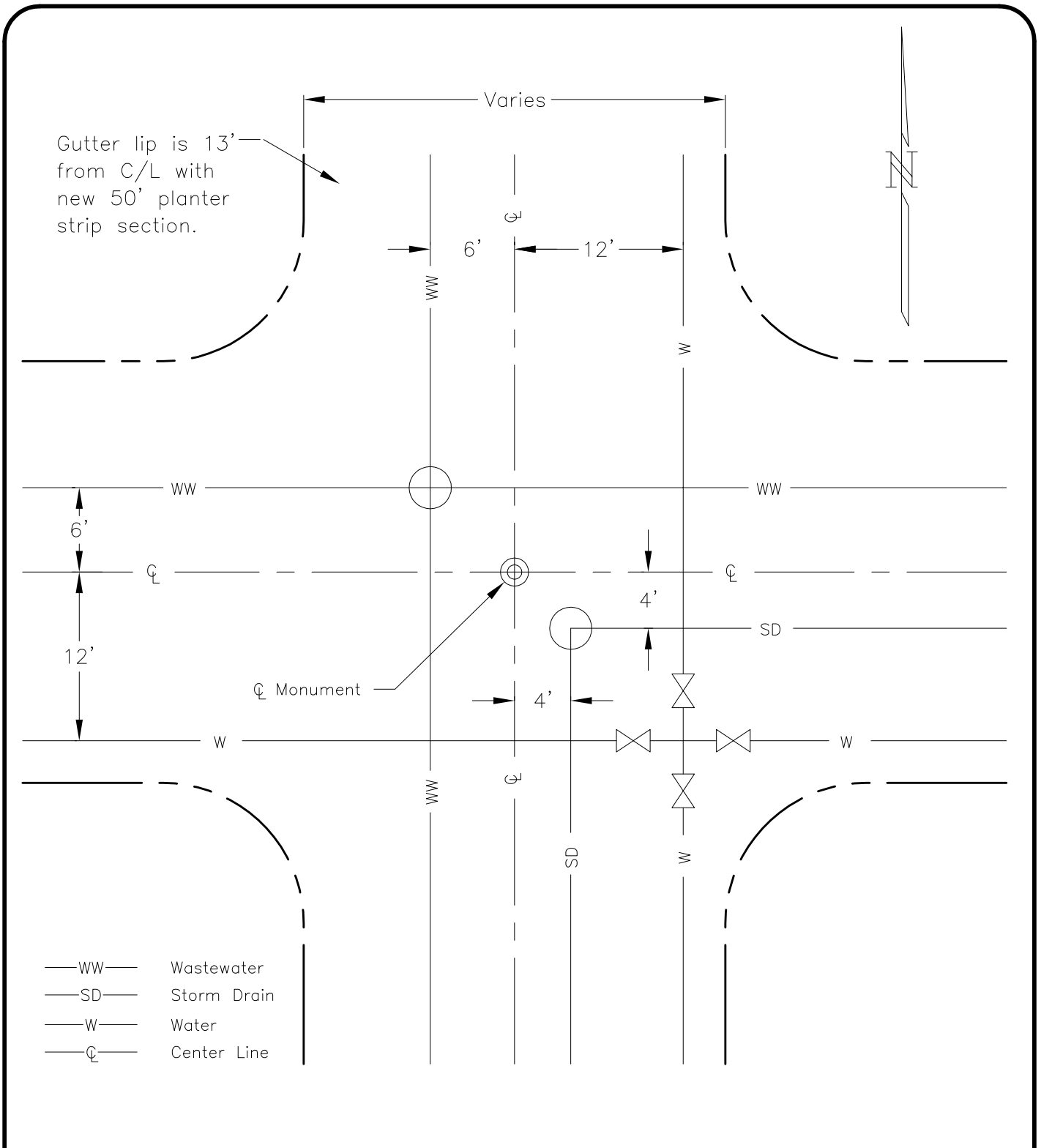




# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Standard Utility Locations In Streets



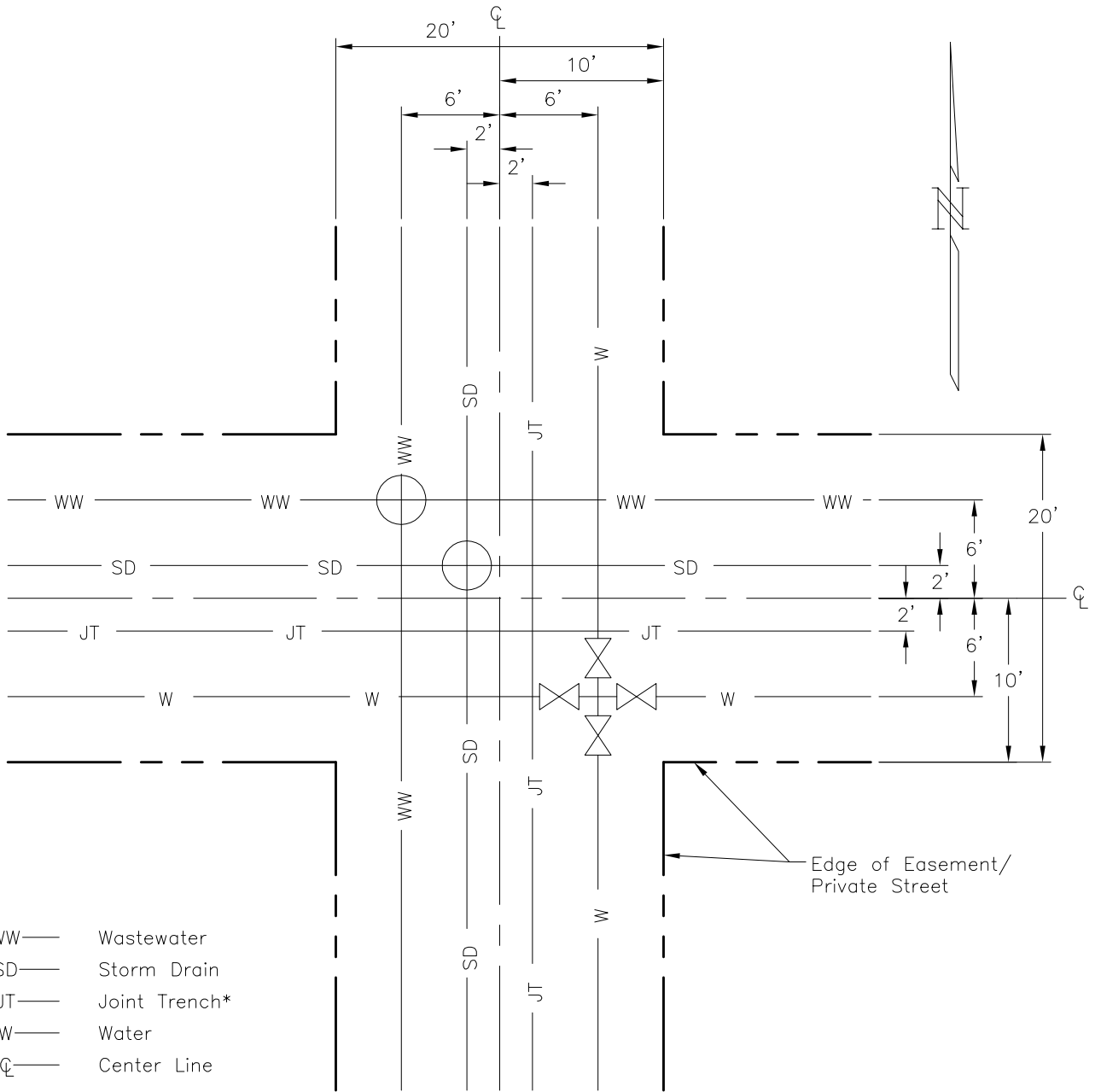
Dr.	No.	Date	Revision	Appr.	Approved By:	STD PLAN
KT					<i>F. Wally Sangelin</i> F. Wally Sangelin City Engineer R.C.E. 39895	12/28/00 Date <b>601</b>
Ch.	WS					
Date	12/00					



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Standard Utility Locations In Easements/ Private Streets



\* See Std Plan 507 for Details

**Notes:**

Private utilities to be located outside of limits shown unless otherwise approved by the Public Works Department.

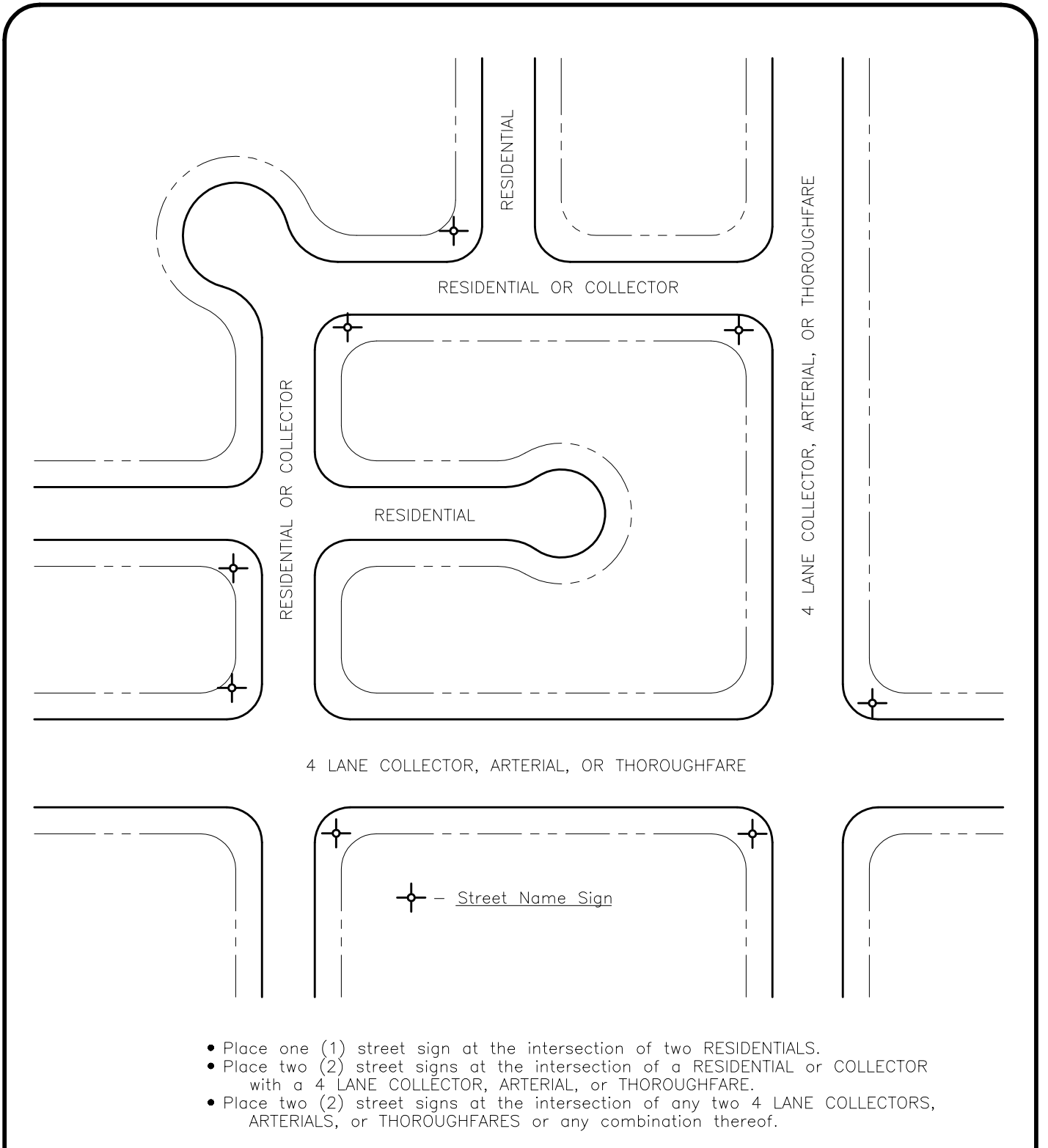
Dr. KT	No.	Date	Revision	Appr.	Approved By: <i>F. Wally Sandelin</i>	12/28/00	STD PLAN <b>602</b>
Ch. WS					F. Wally Sandelin City Engineer	Date	
Date 12/00					R.C.E. 39895		



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Street Name Sign Location



- Place one (1) street sign at the intersection of two RESIDENTIALS.
- Place two (2) street signs at the intersection of a RESIDENTIAL or COLLECTOR with a 4 LANE COLLECTOR, ARTERIAL, or THOROUGHFARE.
- Place two (2) street signs at the intersection of any two 4 LANE COLLECTORS, ARTERIALS, or THOROUGHFARES or any combination thereof.

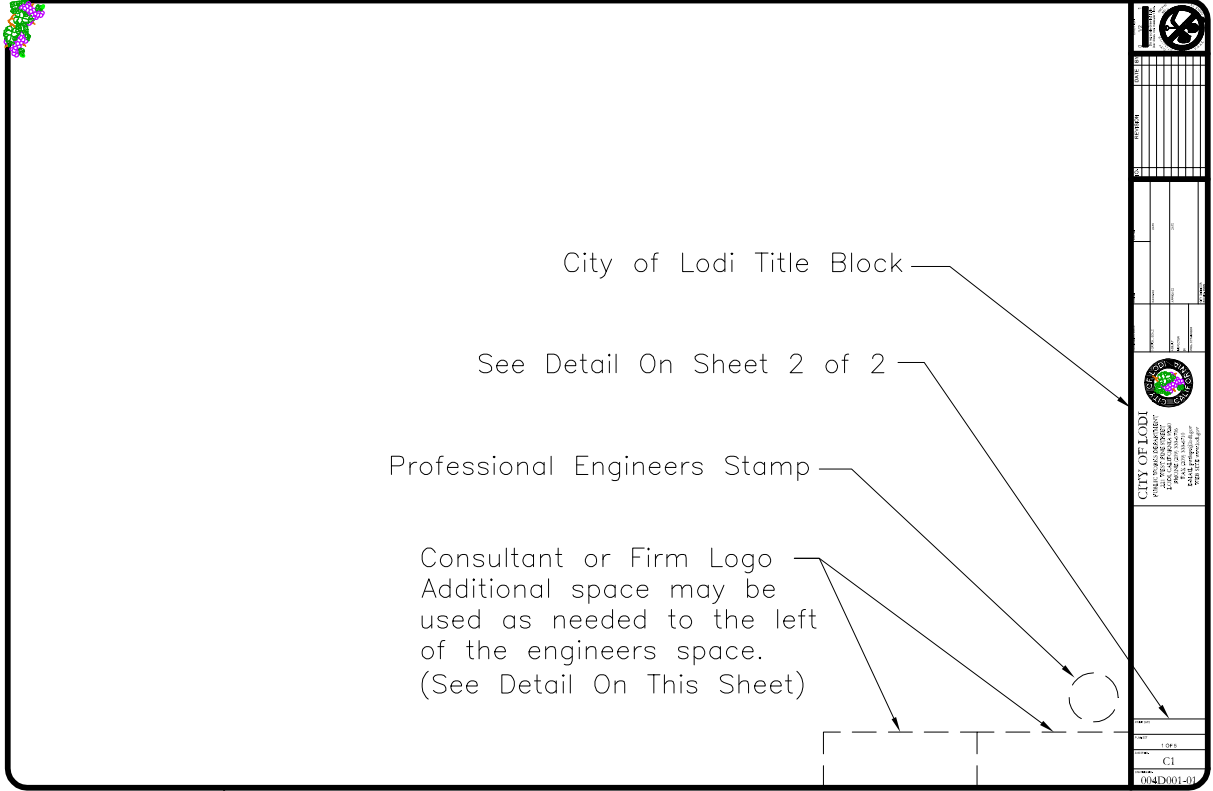
Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					<i>F. Wally Sandelin</i>	603
Date 12/00					F. Wally Sandelin City Engineer R.C.E. 39895	12/28/00 Date



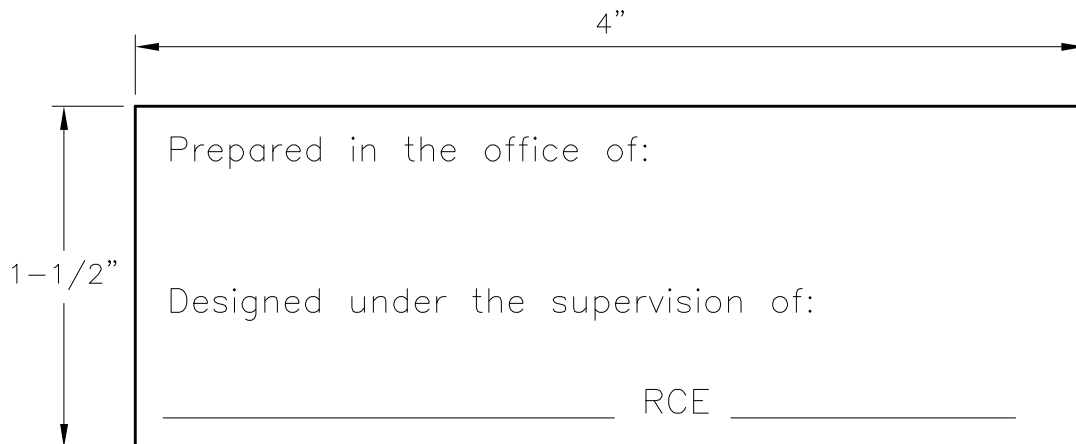
# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Title Block For Private Engineers



Standard City of Lodi Drawing Sheet 22"x34" or 24"x36"



Sheet 1 of 2

Dr.	KT	No.	Date	Revision	Appr.	Approved By:	
		1	9/03	NEW TITLE BLOCK		<i>F. Wally Sangelin</i>	2/12/04
Ch.	WS	2	2/04	ADDED SHEET 2			
Date	12/00					F. Wally Sangelin City Engineer R.C.E. 39895	Date

STD PLAN  
**604**



**CITY OF LODI**  
PUBLIC WORKS DEPARTMENT

Title Block  
For Private Engineers

PRINT DATE	
PLAN SET	1 OF 5
SHEET NO.	C1
DRAWING NO.	004D001-01

- Left blank for city use only
- According to number of sheets in set.
- Optional sheet numbering for engineering firm, may contain numbers and/or letters
- Must use city provided number and maintain ascending numerical sequence (ie. 01,02,03)

Notes:

- All work for the City of Lodi shall use this standard.
- All sheets within a set shall be the same size.
- City of Lodi shall provide original drawing numbers, And all sets shall be numbered according to the number of sheets in the set.
- City of Lodi will provide title blocks in AutoCAD format upon request.
- Plans shall also conform to the City of Lodi Public Improvement Design Standards section 5 & appendix A.
- If plans are to be reduced to a half scale set, 22" x 34" sheets size must be used.

Sheet 2 of 2

Dr. GWC	No. 1	Date 2/04	Revision ADDITION OF SHEET 2	Appr.	Approved By: <i>F. Wally Sangelin</i>	2/12/04	STD PLAN
Ch. WS					F. Wally Sangelin City Engineer R.C.E. 39895	Date	<b>604</b>
Date 2/04							



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Map Statements

**(PARCEL MAPS)**  
**ENGINEER'S/SURVEYOR'S STATEMENT**

This map was prepared by me or under my direction and is based upon a field survey in conformance with the requirements of the Subdivision Map Act and Local ordinance at the request of \_\_\_\_\_ in \_\_\_\_\_. I hereby state that this parcel map substantially conforms to the approved or conditionally approved tentative map, if any. All monuments are of the character and occupy the positions indicated and are sufficient to enable the survey to be retraced.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

\_\_\_\_\_  
 (Engineer) (Surveyor) (License No.)

(Registration) (License) expiration date: \_\_\_\_\_

**(PARCEL MAPS)**  
**PUBLIC WORKS DEPARTMENT'S STATEMENT**

This map conforms with the requirements of the Subdivision Map Act and local ordinance. (Pursuant to the authority of Ordinance No. 1302 of the City of Lodi, I accept on behalf of the public for public use the offer of dedication of [all Public Utility easements] [sight-obstruction easement] [landscape easement] [all street rights-of-way] [the (width)-foot widening of right-of-way along Street name] [relinquishment to the City of Lodi all access rights of (Parcel Numbers) to and from (Street name)\*(except at the approved access openings)\*] all as shown on this Parcel Map.)

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

\_\_\_\_\_  
 Wesley K. Fujitani, R.C.E. 30418  
 Senior Civil Engineer  
 Registration expiration date: 3-31-\_\_  
 [Ex Officio City Clerk of the City of Lodi]

**(PARCEL MAP)**  
**OWNER'S STATEMENT**

We, the undersigned, hereby state that we are all the parties having record title interest in the land subdivided and shown on this Parcel Map and we hereby consent to the preparation and filing of this Parcel Map in the office of the County Recorder of San Joaquin County, California.


We also offer for dedication to the public for public use [all Public Utility easements] [all street rights-of-way] [ the (width)-foot widening of right-of-way along (Street Name)] [to the City of Lodi lot (No.)] [relinquish to the City of Lodi all access rights of (Parcel Numbers) to and from (Street Name)] \*(except at the approved access openings)\*] all as shown on this Parcel Map.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

\_\_\_\_\_  
 (Print Name/Title)

\_\_\_\_\_  
 (Print Name/Title)

\*Use only if applicable\*

Dr. KT	No.	Date	Revision	Appr.	Approved By:  F. Wally Sandelin City Engineer R.C.E. 39895	2/12/04 Date	STD PLAN
Ch. WS	1	9/03	FULL STATEMENT REVIEW				<h1>605</h1>
	2	2/04	REVISED OWNER'S STATEMENT				
Date 7/08	3	7/08	REVISED DIRECTOR'S STATEMENT				



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Map Statements

**(FINAL MAP, PARCEL MAP, RECORD OF SURVEY)**  
**RECORDER'S STATEMENT**

Filed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, at \_\_\_\_\_ M. in (Book, Volume) \_\_\_\_\_ of (Maps & Plats, Parcel Map, Record of Survey) at page \_\_\_\_\_, at the request of \_\_\_\_\_.

Fee: \$ \_\_\_\_\_

\_\_\_\_\_  
 Assessor/Recorder/County Clerk By: \_\_\_\_\_  
 Assistant/Deputy Recorder

**ACKNOWLEDGMENT**

State of California  
 County of \_\_\_\_\_

On \_\_\_\_\_, before me, \_\_\_\_\_  
 (Insert name and title of the officer)

personally appeared \_\_\_\_\_  
 who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged that he/she/they executed the same in his/her,their authorized capacity(ies), and that by his/her,their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PURJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

Signature \_\_\_\_\_ (Seal)

**(FINAL MAP)**  
**OWNER'S STATEMENT**

We, the undersigned, hereby state that we are all the parties having record title interest in the lands subdivided and shown on this Final Map of "Tract No. \_\_\_\_\_, Subdivisions of San Joaquin County, (Name of Subdivision)", City of Lodi, California, and we hereby consent to the preparation and filing of this Final Map in the office of the County Recorder of San Joaquin County, California.

We also offer for dedication to the public for public use [all Public Utility easements] [sight obstruction easement] [landscape easement] [all street rights-of-way] [ the (width)-foot widening of right-of-way along (Street Name)] [to the City of Lodi lot (No.)] [relinquish to the City of Lodi all access rights of (Lot Numbers) to and from (Street Name)] \*(except at the approved access openings)\*] all as shown on this Final Map.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_.

\_\_\_\_\_  
 (Print Name/Title)

\_\_\_\_\_  
 (Print Name/Title)

\*Use only if applicable\*

Dr. KT	No.	Date	Revision	Appr.	Approved By:  F. Wally Santolin City Engineer R.C.E. 39895	9/20/05 Date	STD PLAN <b>605</b>
Ch. WS	1	9/03	FULL STATEMENT REVIEW				
Date 7/08	2	9/05	GENERAL REVISIONS				
	3	7/08	ACKNOWLEDGEMENT REVISIONS				



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Map Statements

**(FINAL MAP)**  
**[ENGINEER'S] [SURVEYOR'S] STATEMENT**

This map was prepared by me or under my direction and is based upon a field survey in conformance with the requirements of the Subdivision Map Act and local ordinance at the request of (name of person authorizing map) on (date). I hereby state that this final map substantially conforms to the conditionally approved tentative map. I further state that all the monuments shown hereon will be of the character and occupy the positions indicated before said subdivision improvements are accepted by the City of Lodi, and that said monuments will be sufficient to enable this survey to be retraced.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 [Engineer] [Surveyor] (License No.)

[Registration] [License] expiration date: \_\_\_\_\_

**(FINAL MAPS)**  
**PUBLIC WORKS DEPARTMENT'S STATEMENT**

I, Wesley K. Fujitani, hereby state that I am a Senior Civil Engineer for the City of Lodi, California and that I have examined this Final Map of "Tract No. \_\_\_\_\_, Subdivisions of San Joaquin County, (Name of Subdivision)", City of Lodi, California and that the subdivision shown hereon is substantially the same as it appeared on the tentative map, and any approved alternations thereof. I further state that this Final Map complies with all the provisions of Title 16 of the Lodi Municipal Code, and any amendments thereto, applicable at the time of approval of the tentative map.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Wesley K. Fujitani, R.C.E. 30418  
 Senior Civil Engineer  
 Registration expiration date: \_\_\_\_\_

**(FINAL MAPS)**  
**CITY CLERK'S STATEMENT**

This is to state that at its regularly held meeting on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, the City Council of the City of Lodi, California approved this Final Map of "Tract No. \_\_\_\_\_, Subdivisions of San Joaquin County, (Name of Subdivision)", City of Lodi, California, and accepted on behalf of the public for public use the offer of dedication of [all Public Utility Easements] [sight obstruction easement] [landscape easement] [accepted on behalf of the City the relinquishment to the City of Lodi all access rights of (Lot Numbers) to and from (Street Name) \* (except at the approved access openings)\*] all as shown on this Final Map and accepted the offer of dedication of [all street rights-of-way] [the (width)-foot widening of right-of-way along Street name][Lot (No.)] to the City of Lodi subject to satisfactory completion of improvements thereon of said street rights-of-way [and lot (No.)] in accordance with Title 16 of the Lodi Municipal Code, and any amendments thereto, applicable at the time of approval of the tentative map.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Randy Johl (City Clerk)  
 City Clerk and Clerk of the City Council

Dr.	KT	No.	Date	Revision	Appr.	Approved By:  F. Wally Santolin City Engineer R.C.E. 39895	2/12/04 Date	STD PLAN
		1	9/03	FULL STATEMENT REVIEW				<b>605</b>
Ch.	WS	2	2/04	REVISED FINAL MAP STATEMENT				
Date	7/08	3	7/08	REVISED DIRECTOR'S STATEMENT				





# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Map Statements

\* Notes (Use where applicable)

1. Refer to tentative map application No. \_\_\_\_\_
2. Requirements of the Lodi Municipal Code for the dedication of rights-of-way, easements, abandonment of underground tanks and wells, payment of fees and installation of off-site street improvements and utilities have not been met at this time and must be met prior to development or issuance of a building permit or when requested by the City (on Parcels \_\_\_\_\_).
3. The P.U.E. dedication to the City of Lodi gives the City, owners of public utilities, and owners of cable TV franchises the right to access, construct, maintain, inspect, repair, replace, remove, and operate their facilities in the P.U.E.'S. No buildings or structures shall be constructed nor shall anything be planted within the easement which would interfere with the use or operation of public utilities in the easement.
4. The sight obstruction easement grants the City of Lodi the right to maintain, repair, replace or remove obstructions, both publicly and privately owned, together with the right of access necessary for the maintaining, repairing, replacing or removing said obstructions, in, over, under and across said easement. No buildings or structures shall be constructed and no shrubbery, plantings, mounds or other obstructions over 30 inches high shall be placed within said easement which would interfere with the line of sight at the adjacent intersection. Any poles or trees shall be spaced far enough apart to provide adequate sight and tree limbs shall be at least 7 feet above the ground.
5. Lot \_\_\_\_\_ except areas covered by buildings or structures shown on the approved building permit plans and subsequent revisions thereto is hereby offered as a public utility easement. "Subsequent revisions" to the plans shall be approved by the affected utilities and any necessary utility relocations will be made at the expense of the developer/owner.
6. (For Overhead Public Utility Easements)  
Buildings and structures in conformance with current zoning and building ordinances are permitted in the (north/south/west/east) feet of the (width)-foot overhead public utility to a maximum height of 23 feet.

Sheet 4 of 5

Dr.	KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
		1	9/03	FULL STATEMENT REVIEW		<i>F. Wally Sandelin</i> 2/12/04 F. Wally Sandelin City Engineer R.C.E. 39895	605
Ch.	WS	2	2/04	ADDED NOTE #6			
Date	12/00					Date	



**CITY OF LODI**  
PUBLIC WORKS DEPARTMENT

Map Statements

**(FINAL MAPS)**

**CITY CLERK'S CERTIFICATION OF ABANDONMENT OF PUBLIC (STREET/ALLEY, UTILITY) EASEMENTS**

This is to certify that at its regularly held meeting on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, the City Council of the City of Lodi, California, by its approval of this final map of "Tract No. \_\_\_\_\_, Subdivisions of San Joaquin County, (Subdivision Name), did abandon each and every (Street Right-of-Way/Easement, Public Utility Easement) identified in the (Parcel Map, Final Map, Easement, Deed), filed for record \_\_\_\_\_, 20\_\_\_, (Book/Volume Number, Page Number, Instrument Number), San Joaquin County Records.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_.

(City Clerk)

City Clerk and Clerk of the City Council  
of the City of Lodi, California

**(FINAL MAP)**

**\*CERTIFICATE OF DEDICATION**

(Do not combine with Owner's Statement)

The following real property is dedicated by (name and address of subdivider dedicating the property), for purpose of (name public improvement or construction of public facility):

(Legal Description)

The City of Lodi shall reconvey the property to the subdivider if the City of Lodi makes a determination pursuant to Government Code Section 66477.5 that the same public purpose for which the property was dedicated does not exist, or the property or any portion thereof, is not needed for public utilities.

\*Applies only to dedication in fee (See Section 66477.5). Use only if applicable.

**PUBLIC WORKS DIRECTOR'S CERTIFICATION**

Abandonment only

Abandonment of (Street Right-of-Way/Easement/Public Utility Easement)

This map conforms with the requirements of the Subdivision Map Act and local ordinance. I certify that a (street/alley right-of-way easement public utility easement) accepted by record information as filed on \_\_\_\_\_ 20\_\_\_, [(Instrument No. \_\_\_\_\_, Map(Book/Volume Number, Page Number)] Official Records San Joaquin County, is abandoned by the recordation of this parcel map.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_.

Richard C. Prima, Jr., R.C.E. 28183  
Public Works Director Ex-Officio City Clerk  
of the City of Lodi

Dr.	KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
		1	9/03	FULL STATEMENT REVIEW		<i>F. Wally Sandelin</i> 2/12/04	605
Ch.	WS	2	2/04	REMOVED RECORD OF SURVEY			
Date	12/00					F. Wally Sandelin City Engineer R.C.E. 39895	Date



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Rainfall Intensity

Tc = Time of Concentration in minutes (See Design Stds §3.200)  
 I = Rainfall Intensity in inches per hour, 2±yr storm  
 $I = 5.51 * (Tc)^{-0.63}$

Tc	I	Tc	I	Tc	I	Tc	I
10	1.29	40	0.54	90	0.32	240	0.17
11	1.22	41	0.53	95	0.31	245	0.17
12	1.15	42	0.52	100	0.30	250	0.17
13	1.09	43	0.52	105	0.29	255	0.17
14	1.04	44	0.51	110	0.29	260	0.17
15	1.00	45	0.50	115	0.28	265	0.16
16	0.96	46	0.49	120	0.27	270	0.16
17	0.92	47	0.49	125	0.26	275	0.16
18	0.89	48	0.48	130	0.26	280	0.16
19	0.86	49	0.47	135	0.25	285	0.16
20	0.83	50	0.47	140	0.24	290	0.15
21	0.81	51	0.46	145	0.24	295	0.15
22	0.79	52	0.46	150	0.23	300	0.15
23	0.76	53	0.45	155	0.23	305	0.15
24	0.74	54	0.45	160	0.23	310	0.15
25	0.73	55	0.44	165	0.22	315	0.15
26	0.71	56	0.44	170	0.22	320	0.15
27	0.69	57	0.43	175	0.21	325	0.14
28	0.68	58	0.43	180	0.21	330	0.14
29	0.66	59	0.42	185	0.21	335	0.14
30	0.65	60	0.42	190	0.20	340	0.14
31	0.63	61	0.41	195	0.20	345	0.14
32	0.62	62	0.41	200	0.20	350	0.14
33	0.61	63	0.41	205	0.19	355	0.14
34	0.60	64	0.40	210	0.19	360	0.14
35	0.59	65	0.40	215	0.19	365	0.13
36	0.58	70	0.38	220	0.18	370	0.13
37	0.57	75	0.36	225	0.18	375	0.13
38	0.56	80	0.35	230	0.18	380	0.13
39	0.55	85	0.34	235	0.18	385	0.13

Dr. KT	No.	Date	Revision	Appr.	Approved By: <i>F. Wally Sandelin</i>	STD PLAN <b>606</b>
Ch. WS					12/28/00	
Date 12/00					Date	
					F. Wally Sandelin City Engineer R.C.E. 39895	



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Gutter Hydraulic Capacities

**Assumptions:**

Street Cross Slope = 2½%  
 Manning's "n" = .015  
 Pavement hike-up at toe of curb = 3/8"

### DRIVEWAY-TYPE CURB & GUTTER

Street Flooding

Depth (ft)	Area (SF)	from top of curb (ft.)	Q/S <sup>1/2</sup>
0.20	0.2	2.1	5.1
0.21	0.3	2.6	5.2
0.22	0.3	3.0	5.6
0.23	0.3	3.5	6.1
0.24	0.3	3.9	6.8
0.25	0.4	4.4	7.7
0.26	0.4	4.8	8.6
0.27	0.5	5.3	9.8
0.28	0.5	5.7	11.1
0.29	0.6	6.2	12.5
0.30	0.7	6.6	14.2
0.31	0.7	7.1	15.9
0.32	0.8	7.5	17.9
0.33	0.9	8.0	20.1
0.34	1.0	8.4	22.4
0.35	1.0	8.9	25.0
0.36	1.1	9.3	27.8
0.37	1.2	9.8	31.0
0.38	1.3	10.2	34.2
0.39	1.4	10.7	37.5
0.40	1.6	11.1	41.2
0.41	1.7	11.6	45.0
0.42	1.8	12.0	49.3

FLOW EXCEEDS TOP OF CURB

Q—Flow in cfs  
 S—Slope in curb and gutter

### SQUARE-TYPE CURB & GUTTER

Street Flooding

Depth (ft)	Area (SF)	from top of curb (ft.)	Q/S <sup>1/2</sup>
0.20	0.2	3.3	3.6
0.21	0.3	3.7	4.2
0.22	0.3	4.1	5.0
0.23	0.3	4.5	5.8
0.24	0.4	4.9	6.8
0.25	0.4	5.3	8.0
0.26	0.5	5.7	9.3
0.27	0.6	6.1	10.7
0.28	0.6	6.5	12.2
0.29	0.7	6.9	14.0
0.30	0.8	7.3	15.9
0.31	0.8	7.7	17.9
0.32	0.9	8.1	20.2
0.33	1.0	8.5	22.7
0.34	1.1	8.9	25.3
0.35	1.2	9.3	28.1
0.36	1.3	9.7	31.1
0.37	1.4	10.1	34.4
0.38	1.5	10.5	37.8
0.39	1.6	10.9	41.5
0.40	1.7	11.3	45.4
0.41	1.8	11.7	49.6
0.42	1.9	12.1	54.0
0.43	2.0	12.5	58.6
0.44	2.2	12.9	63.5
0.45	2.3	13.3	68.6
0.46	2.4	13.7	73.9
0.47	2.6	14.1	79.6
0.48	2.7	14.5	85.4
0.49	2.9	14.9	91.8
0.50	3.0	15.3	98.2

FLOW EXCEEDS TOP OF CURB

Dr. KT	No. 1	Date 2/04	Revision REVISED FORMULA	Appr.	Approved By: <i>F. Wally Sandelin</i>	2/12/04	STD PLAN
Ch. WS					F. Wally Sandelin City Engineer R.C.E. 39895	Date	<b>608</b>
Date 12/00							



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## Sanitary Sewer Leakage Test

Project \_\_\_\_\_ First Test Date \_\_\_\_\_  
 Test Section \_\_\_\_\_ Station \_\_\_\_\_ MH to \_\_\_\_\_ MH  
 Contractor \_\_\_\_\_ Inspector \_\_\_\_\_

### HYDROSTATIC TEST

Allowable leakage shall not exceed 0.6 gallons per hour per inch diameter per 100 feet of pipe.

TAPS: Lot # \_\_\_\_\_  
 TAPS: Length # \_\_\_\_\_ = \_\_\_\_\_  
 Water level at start of test \_\_\_\_\_

### AIR TEST

Use largest pipe size under pressure and circle below. "Holding Time" represents minimum time for pressure loss from 3.5 psi to 2.5 psi.

Pipe Size	Factor (gph/ft)		Length LF		Allowable loss in gallons
4"	0.024	x	_____	=	_____
6"	0.036	x	_____	=	_____
8"	0.048	x	_____	=	_____
10"	0.060	x	_____	=	_____
12"	0.072	x	_____	=	_____
18"	0.108	x	_____	=	_____
24"	0.144	x	_____	=	_____
30"	0.180	x	_____	=	_____
"	.	x	_____	=	_____
48"MH	0.300	x	___ high	=	_____
Allowable loss:			one hour	=	_____gal.

Pipe Size		Holding time in minutes
4"	=	2
6"	=	3
8"	=	4
10"	=	5
12"	=	6
18"	=	9
24"	=	11
30"	=	14

Date	Time	Gallon Loss: Actual/Allowable	Air Time: Actual/Required	Pass	Fail	Inspector
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

All utilities in and compaction completed: yes \_\_\_ no \_\_\_  
 Remarks:

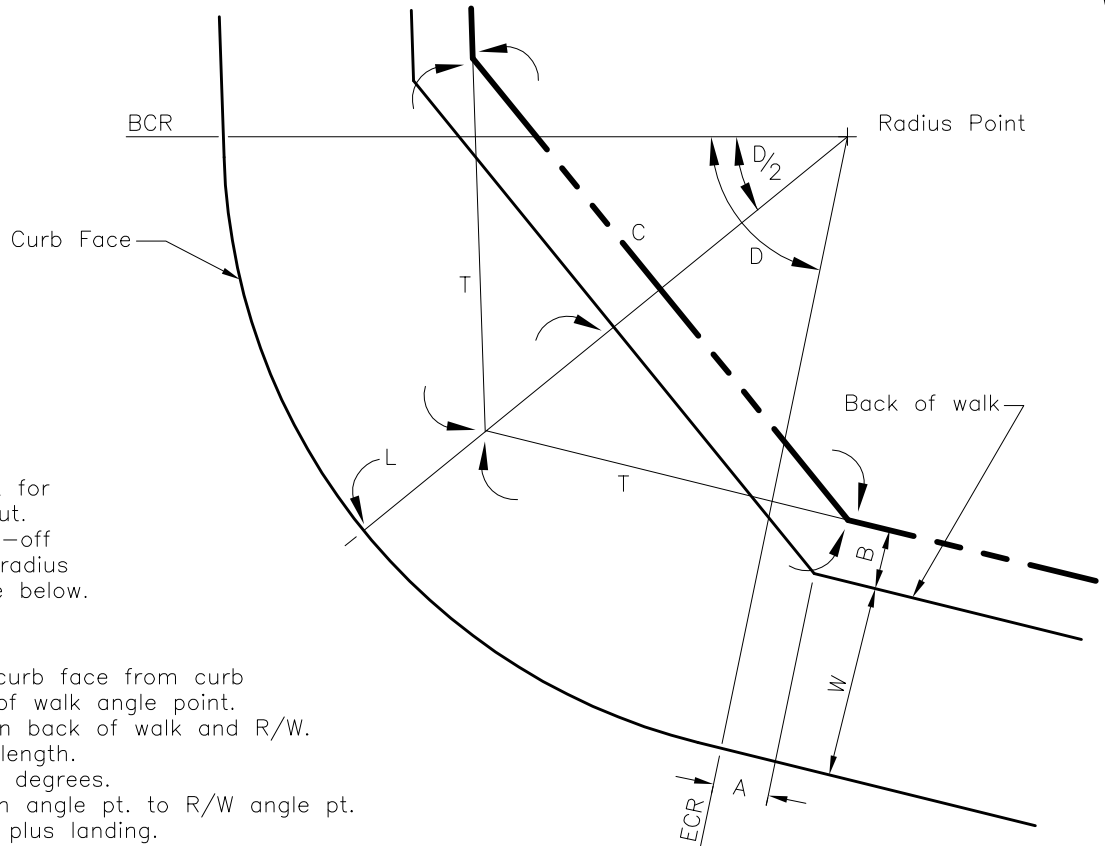
Dr. KT	No.	Date	Revision	Appr.	Approved By:	 F. Wally Sandelin City Engineer R.C.E. 39895	12/28/00 Date	STD PLAN <h1>610</h1>
Ch. WS	1	04/07	REVISED FACTORS					
Date								
12/00								



# CITY OF LODI

PUBLIC WORKS DEPARTMENT

## R/W Corner Cut-off & Curb Return Requirements



**NOTES**

1. See Std. Plan 612 for curb return layout.
2. Provide corner cut-off for curb return radius required in Table below.

**LEGEND**

- A = Distance along curb face from curb return to back of walk angle point.
- B = Distance between back of walk and R/W.
- C = Corner cut-off length.
- D = Central angle in degrees.
- E = B.O.W. dist. from angle pt. to R/W angle pt.
- L = Length of ramp plus landing.
- R = Curb return radius per Table
- T = R/W tangent distance in ft.
- W = Distance from face of curb to back of walk in ft.

**FORMULAS**

$$A = \frac{R-W-[ (R-L) / \cos(D/2) ]}{\tan (D/2)} \text{ or } (R-W) / \tan(D/2) - (R-L) / \sin(D/2)$$

$$C = 2T\cos(D/2)$$

$$E = B\tan(D/4)$$

$$L = 10' \text{ for } R = 20' \text{ \& } 25'$$

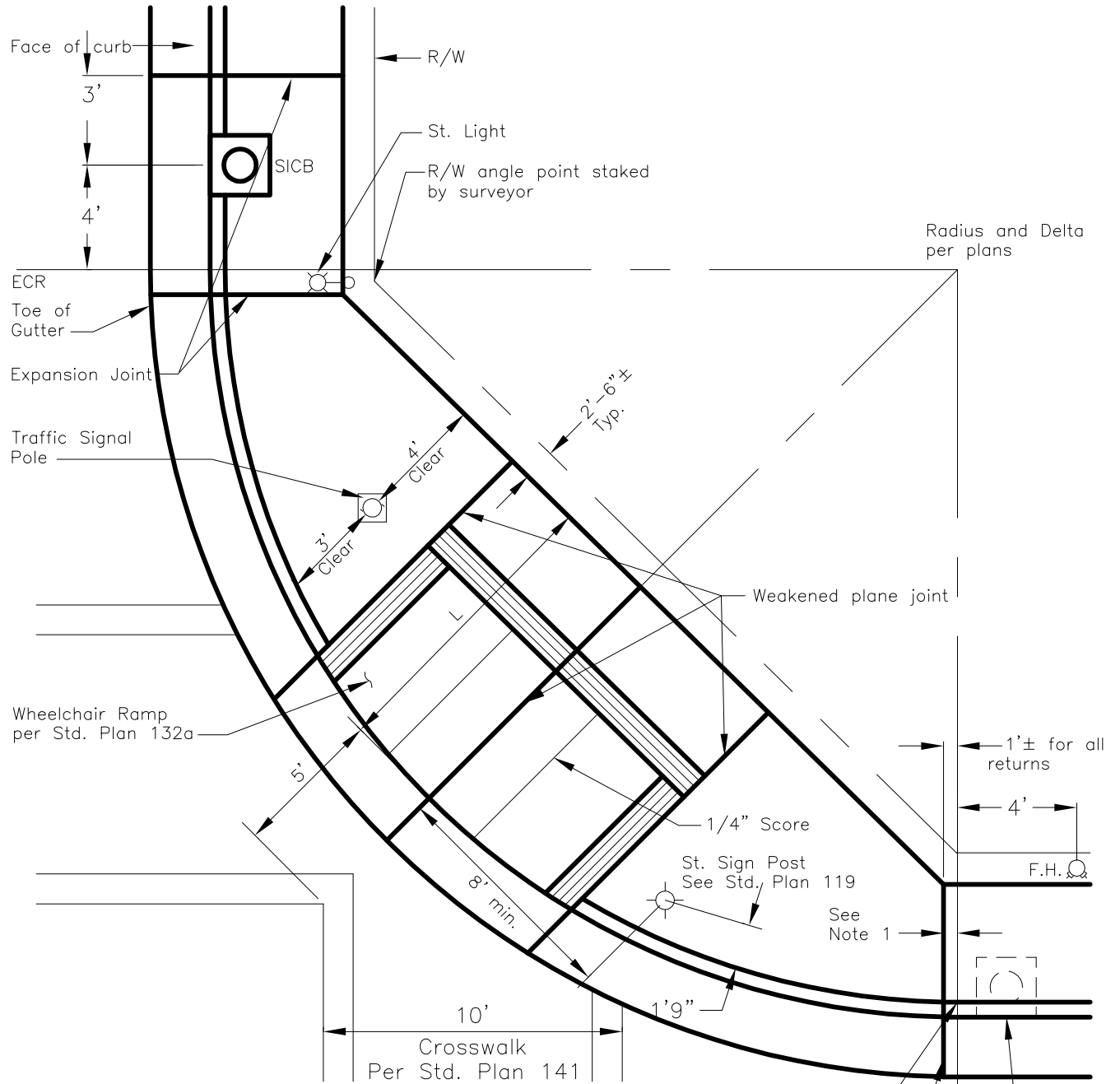
$$12' \text{ for } R = 30' \text{ \& } 35'$$

$$T = (R-W-B)\tan(D/2) + \frac{R-W-B-[ (R-L-B) / \cos(D/2) ]}{\tan (D/2)}$$

**CURB RETURN RADIUS TABLE**

Intersection of: Face-Face	Minor Res.	Std. Res.	Minor Collector	Major Collector	Industrial (Local)	Arterial
Minor Res.	34'	20'	-	-	-	-
Std. Res.	39'	20'	20'	-	-	-
Minor Col.	44'	20'	20'	25'	-	-
Major Col.	52'	20'	20'	25'	30'	-
Ind. Local	52'	-	-	-	30'	-
Arterial	64'	25'	25'	30'	30'	35'
Other	>64'	* *	SPECIAL		DESIGN * *	

Dr.	KT	No.	Date	Revision	Appr.	Approved By: <i>F. Wally Sandelin</i>	12/28/00	<b>STD PLAN</b>  <b>611</b>
Ch.	WS					F. Wally Sandelin City Engineer R.C.E. 39895	Date	
Date	12/00							



**Notes:**

1. Curb return to back of walk angle point distance varies. When actual distance is less than 2', curb return shall be placed at back of walk angle point and curb return curve forced to fit.
2. BCR and ECR station per plans (nominal, see note 1)
3. L=10' for R=20' and 25'; 12' for R=30' and 35'

Expansion joint  
Weakened Plane joint  
BCR  
Optional SICB location, joints per ECR

Dr. KT	No.	Date	Revision	Appr.	Approved By: <i>F. Wally Sandelin</i>	12/28/00	STD PLAN
Ch. WS					F. Wally Sandelin City Engineer R.C.E. 39895	Date	<b>612</b>
Date 12/00							