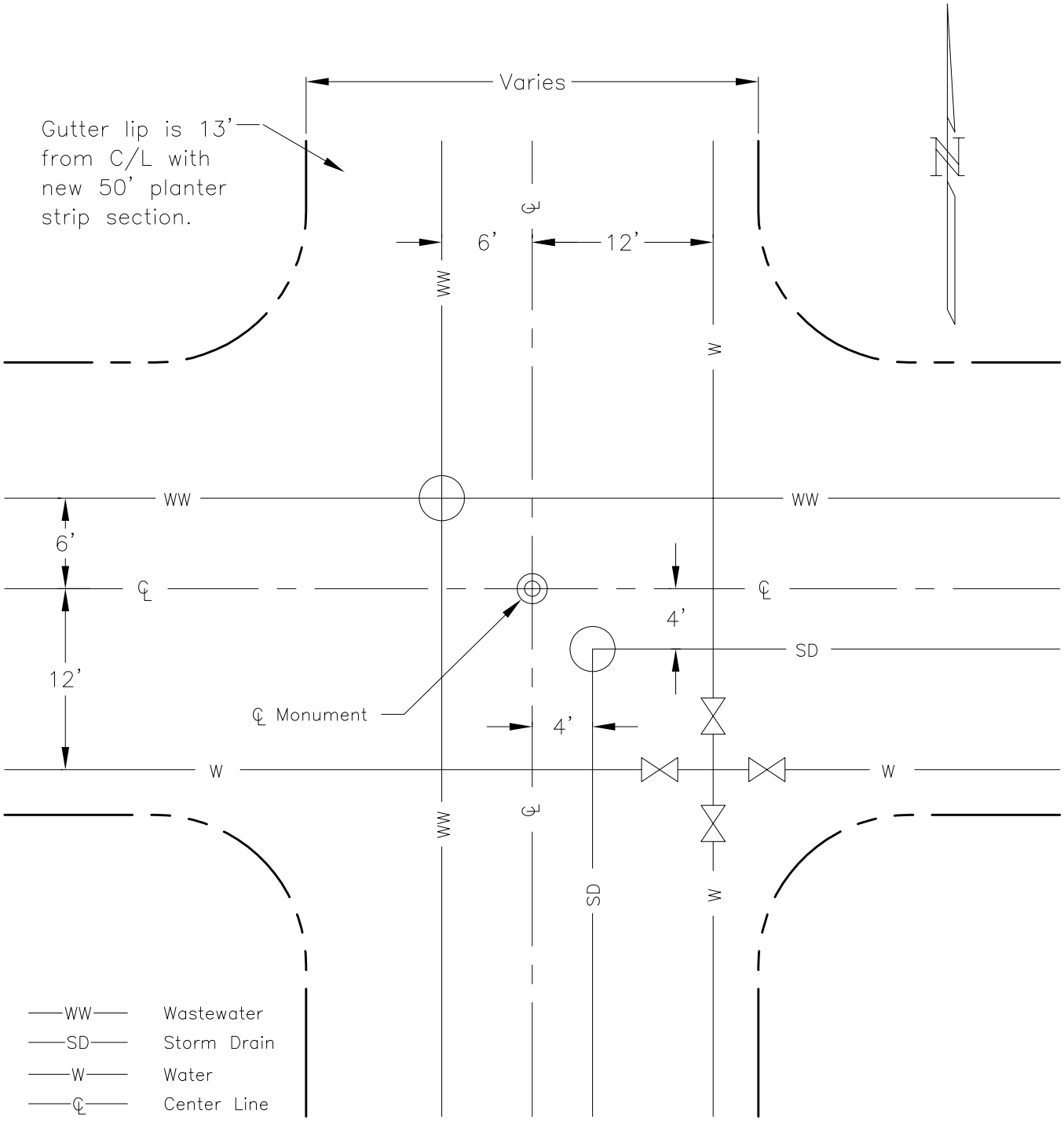
CITY OF LODI

PUBLIC WORKS DEPARTMENT

Standard Utility Locations In Streets

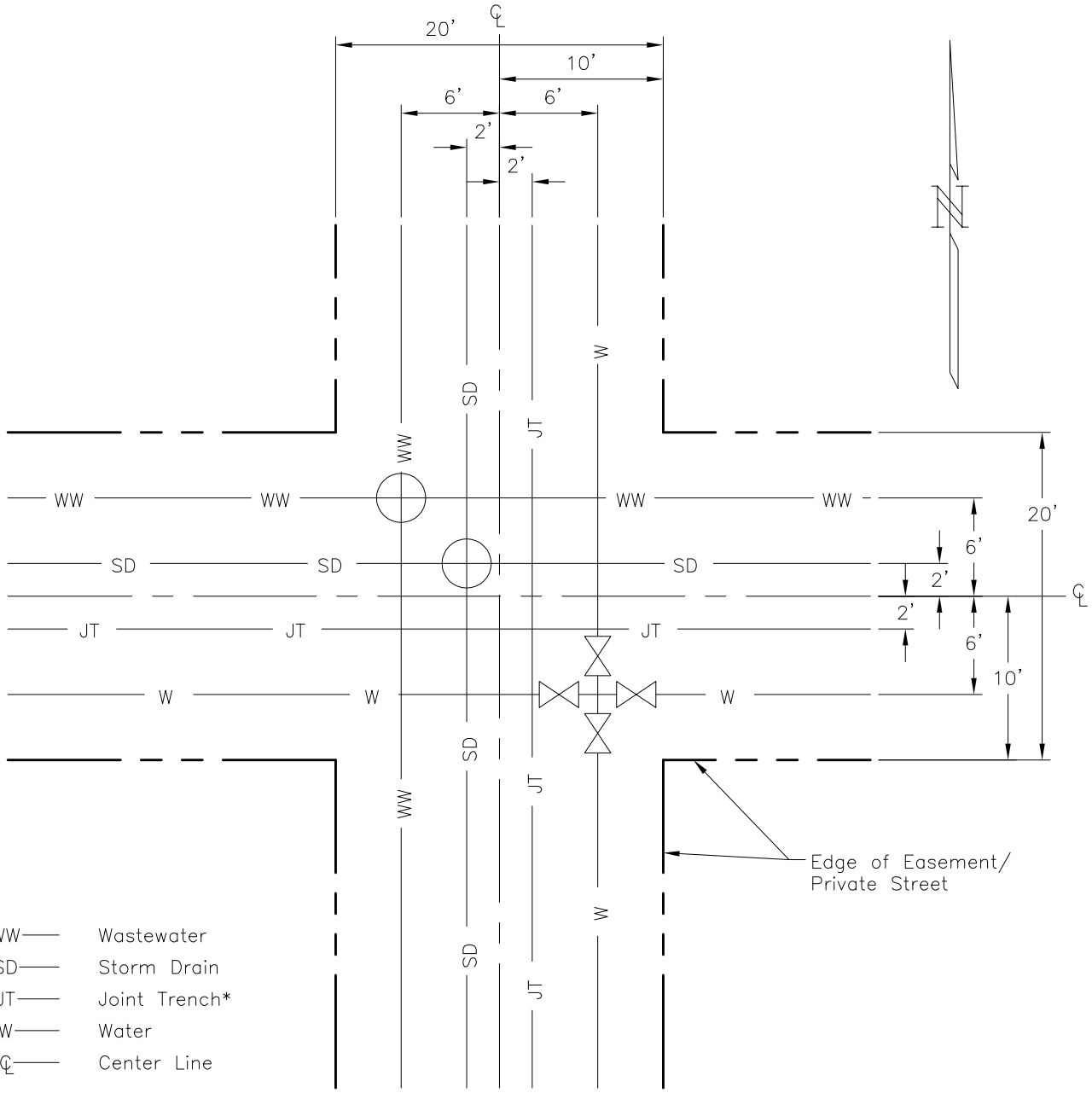


Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	601
Date 12/00					F. Wally Sandelin, City Engineer, R.C.E. 39895 — Date	

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Standard Utility Locations In Easements/ Private Streets



—WW— Wastewater
—SD— Storm Drain
—JT— Joint Trench*
—W— Water
—℄— Center Line

* See Std Plan 507 for Details

Notes:

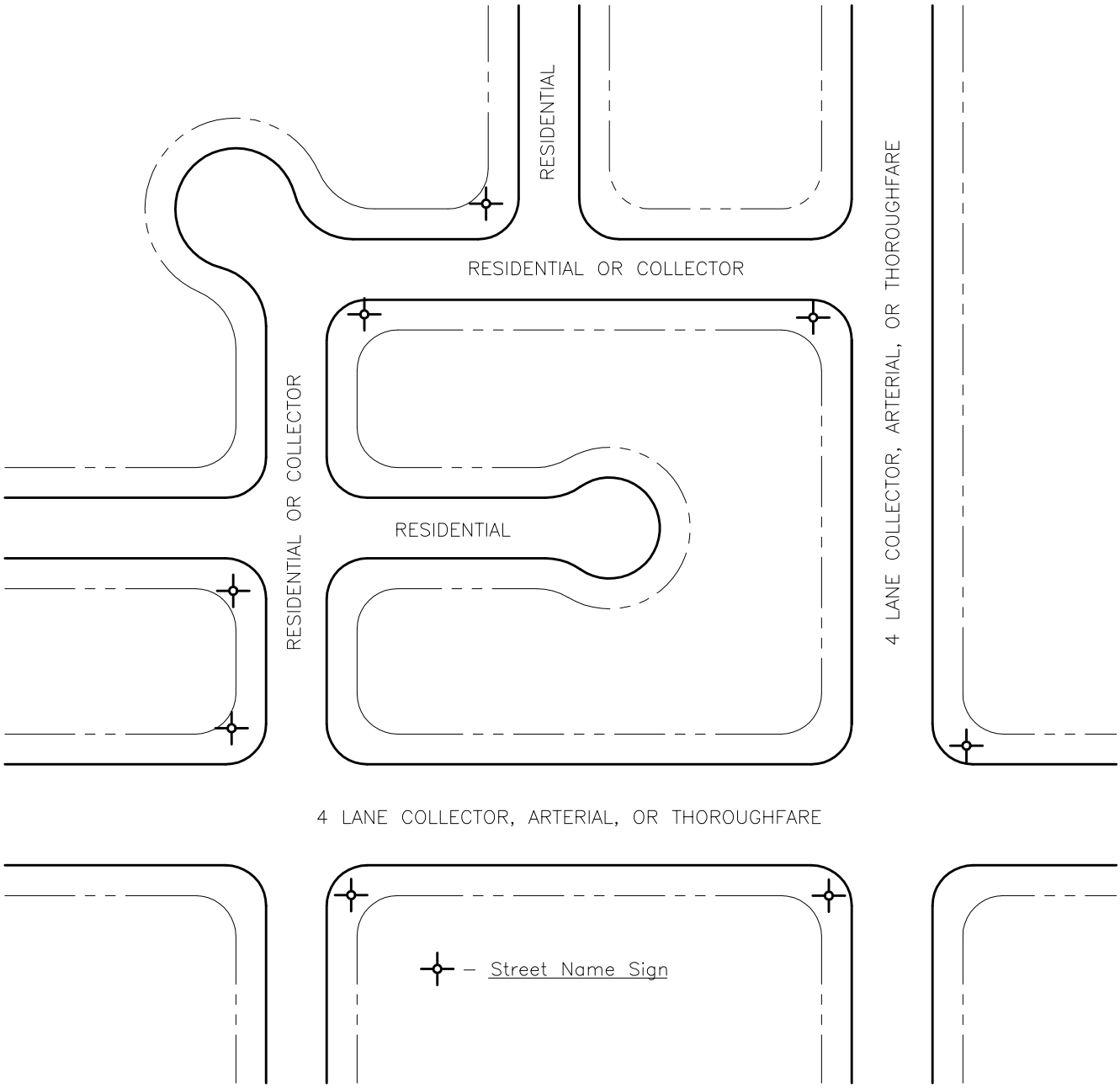
Private utilities to be located outside of limits shown unless otherwise approved by the Public Works Department.

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

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Street Name Sign Location



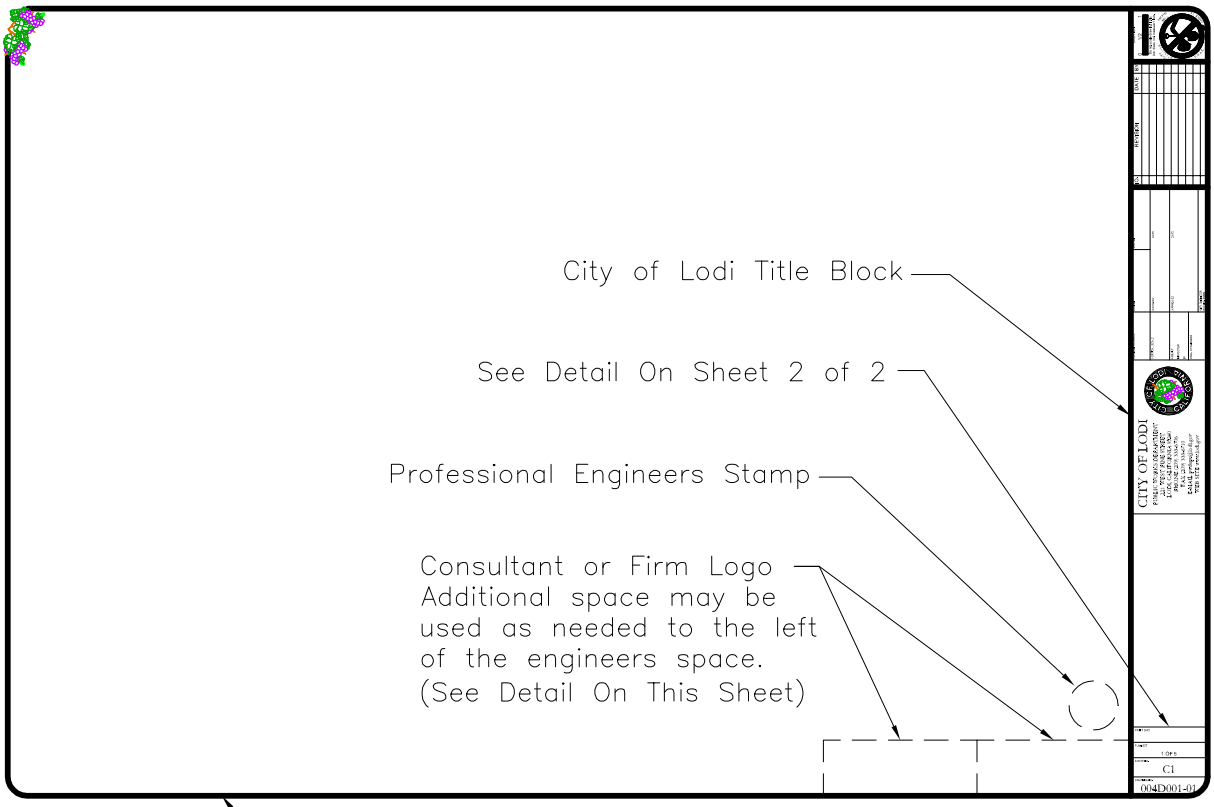
- Place one (1) street sign at the intersection of two RESIDENTIALS.
- Place two (2) street signs at the intersection of a RESIDENTIAL or COLLECTOR with a 4 LANE COLLECTOR, ARTERIAL, or THOROUGHFARE.
- Place two (2) street signs at the intersection of any two 4 LANE COLLECTORS, ARTERIALS, or THOROUGHFARES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

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

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Title Block For Private Engineers



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

4"

1-1/2"

Prepared in the office of:

Designed under the supervision of:

_____ RCE _____

Sheet 1 of 2

Dr. KT	No.	Date	Revision	Appr.
	1	9/03	NEW TITLE BLOCK	
Ch. WS	2	2/04	ADDED SHEET 2	
Date 12/00				

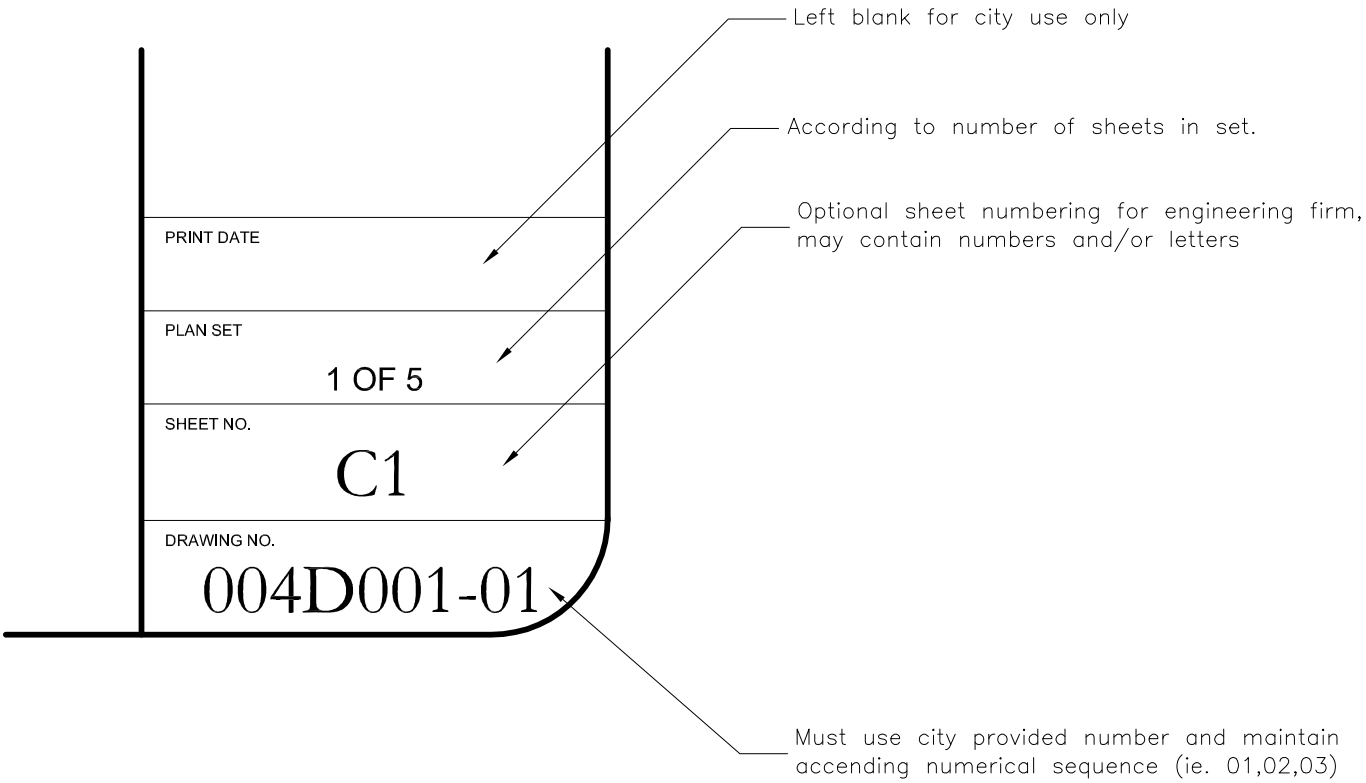
Approved By: F. Wally Sandelin, City Engineer, R.C.E. 39895 — 2/12/04 Date

STD PLAN 604

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Title Block For Private Engineers



Notes:

1. All work for the City of Lodi shall use this standard.
2. All sheets within a set shall be the same size.
3. City of Lodi shall provide original drawing numbers, And all sets shall be numbered according to the number of sheets in the set.
4. City of Lodi will provide title blocks in AutoCAD format upon request.
5. Plans shall also conform to the City of Lodi Public Improvement Design Standards section 5 & appendix A.
6. 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.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS	1	2/04	ADDITION OF SHEET 2		F. Wally Sandelin, City Engineer, R.C.E. 39895 — 2/12/04 Date	604
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.
	1	9/03	FULL STATEMENT REVIEW	
Ch. WS	2	2/04	REVISED OWNER'S STATEMENT	
	3	7/08	REVISED DIRECTOR'S STATEMENT	
Date 7/08				

Approved By: F. Wally Sandelin 2/12/04
F. Wally Sandelin
City Engineer
R.C.E. 39895
Date

STD PLAN
605

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: $ _____

_____ By: _____

Assessor/Recorder/County Clerk 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 ceritfy 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

Sheet 2 of 5

Dr. KT	No.	Date	Revision	Appr.
Ch. WS	1	9/03	FULL STATEMENT REVIEW	
Date 7/08	2	9/05	GENERAL REVISIONS	
	3	7/08	ACKNOWLEDGEMENT REVISIONS	

Approved By: F. Wally Sandelin
F. Wally Sandelin
City Engineer
R.C.E. 39895
9/20/05
Date

STD PLAN
605

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.
	1	9/03	FULL STATEMENT REVIEW	
Ch. WS	2	2/04	REVISED FINAL MAP STATEMENT	
	3	7/08	REVISED DIRECTOR'S STATEMENT	
Date 7/08				

Approved By: F. Wally Sandelin
F. Wally Sandelin
City Engineer
R.C.E. 39895
2/12/04
Date

STD PLAN
605

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 comformance with current zoning and building ordinaces are permitted in the (north/south/west/east) feet of the (width)-foot overhead public utility to a maximum height of 23 feet.

Dr. KT	No.	Date	Revision	Appr.
	1	9/03	FULL STATEMENT REVIEW	
Ch. WS	2	2/04	ADDED NOTE #6	
Date 12/00				

Approved By: F. Wally Sandelin 2/12/04
F. Wally Sandelin
City Engineer
R.C.E. 39895
Date

STD PLAN
605

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.
	1	9/03	FULL STATEMENT REVIEW	
Ch. WS	2	2/04	REMOVED RECORD OF SURVEY	
Date 12/00				

Approved By: F. Wally Sandelin 2/12/04
F. Wally Sandelin
City Engineer
R.C.E. 39895
Date

STD PLAN 605

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:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	606
Date 12/00					F. Wally Sandelin, City Engineer, R.C.E. 39895 — Date	

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^(1/2)
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

SQUARE-TYPE CURB & GUTTER

Street Flooding

Depth (ft)	Area (SF)	from top of curb (ft.)	Q/S^(1/2)
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	07	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

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

Dr. KT	No.	Date	Revision	Appr.
Ch. WS	1	2/04	REVISED FORMULA	
Date 12/00				

Approved By: F. Wally Sandelin, City Engineer, R.C.E. 39895 — 2/12/04 Date

STD PLAN 608

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 _____

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.

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		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.
Ch. WS	1	04/07	REVISED FACTORS	
Date 12/00				

Approved By: F. Wally Sandelin 12/28/00

F. Wally Sandelin
City Engineer
R.C.E. 39895

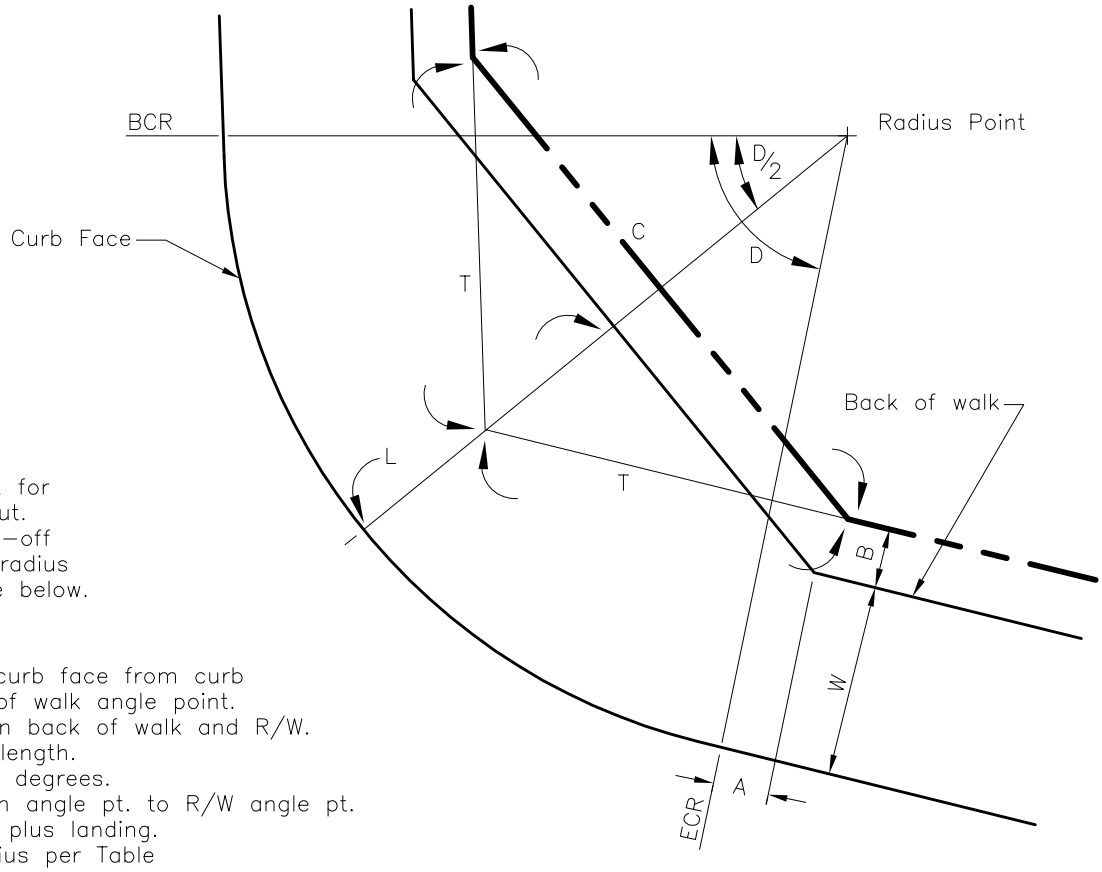
Date

STD PLAN 610

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

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

$C = 2T\cos(D/2)$ $\qquad$ $E = B\tan(D/4)$ $\qquad$ L = 10' for R = 20' & 25'; 12' for R = 30' & 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'	30'	–
Arterial	64'	25'	25'	30'	30'	35'	35'
Other	>64'	* *	S P E C I A L		D E S I G N	* *	

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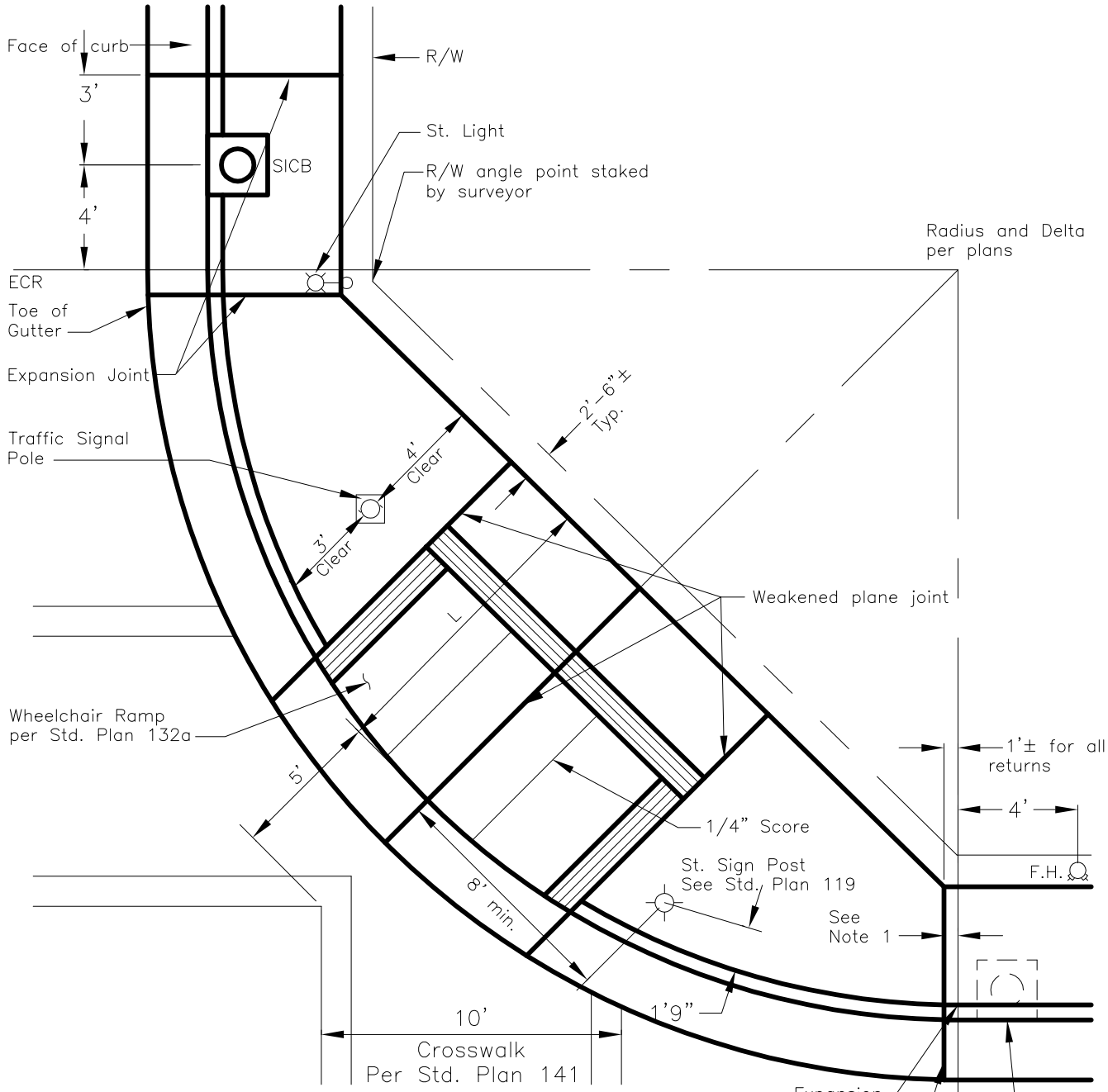
Ch. WS					F. Wally Sandelin, City Engineer, R.C.E. 39895 — 12/28/00 Date	611
Date 12/00						

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Curb Return Layout Plan



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'

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