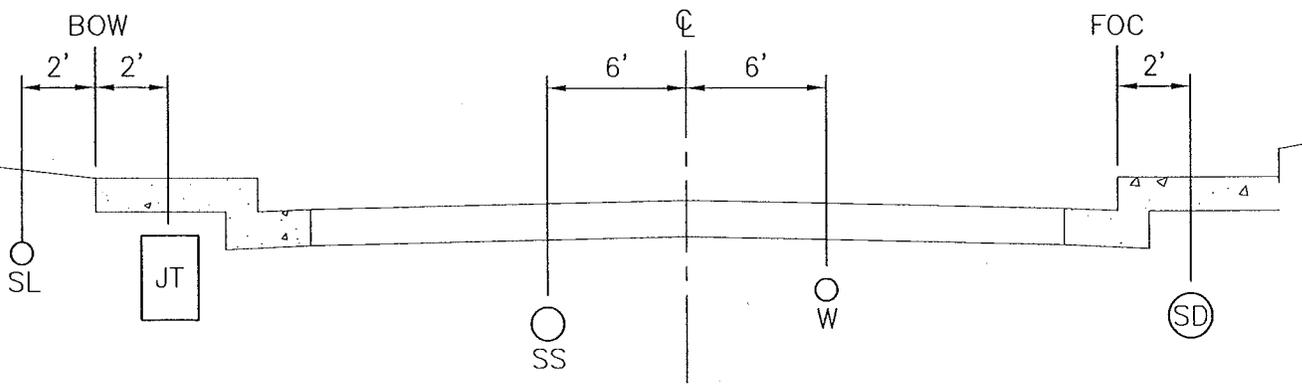


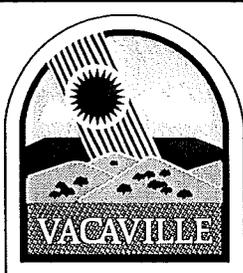
PLAN



SECTION

NOTES:

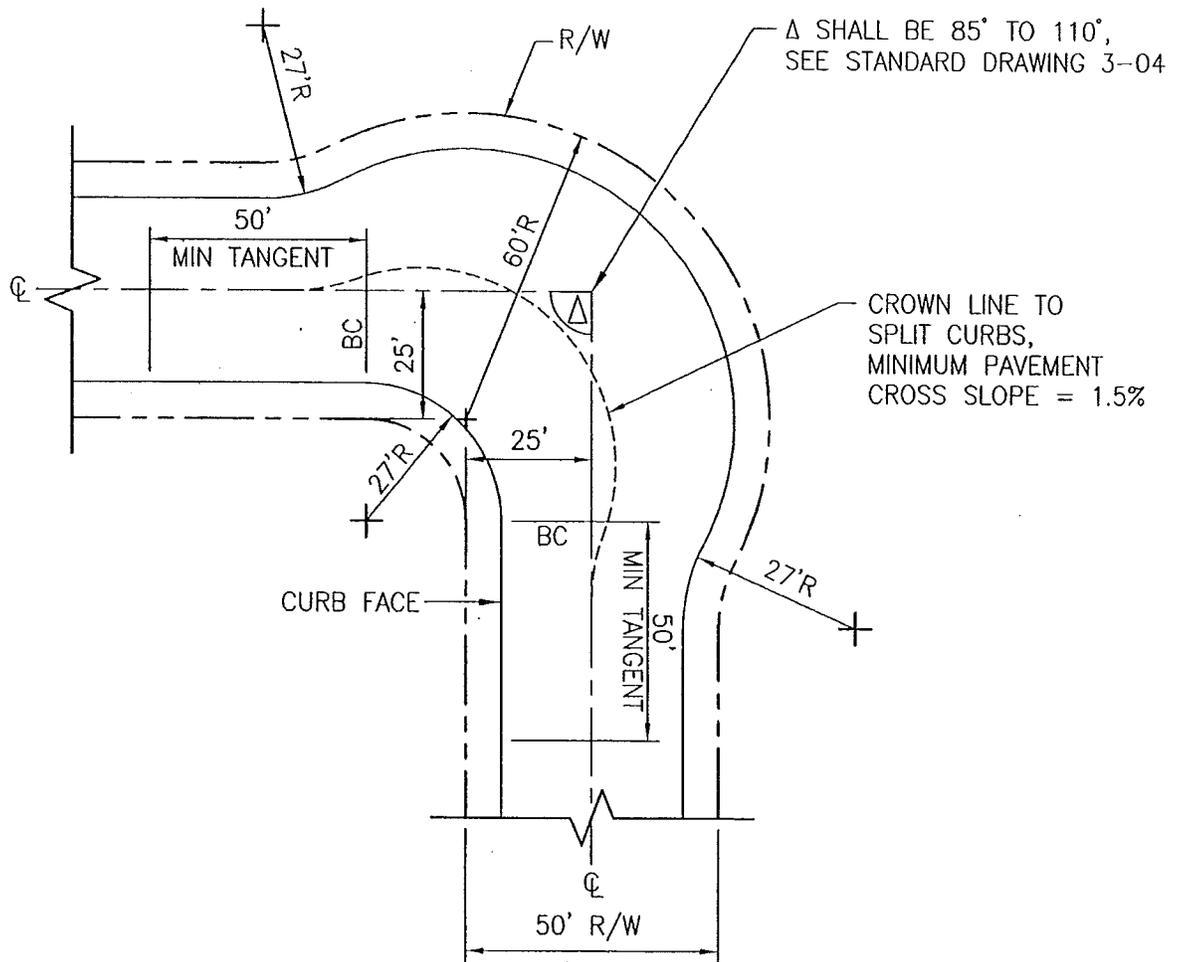
1. THE WATER AND SEWER MAINS SHALL BE LOCATED A MINIMUM OF 6' FROM AND ON OPPOSITE SIDES OF THE CENTERLINE OF THE STREET. IN NO CASE SHALL THE SEPARATION BETWEEN THE PIPES BE LESS THAN 10'.
2. THE JOINT TRENCH SHALL BE LOCATED IN THE PREFERRED LOCATION SHOWN OR WITHIN THE PUE. THE JOINT TRENCH SHALL NOT CONFLICT WITH OTHER CITY FACILITIES.
3. THE STORM DRAIN SHALL BE LOCATED 2' FROM THE FACE OF CURB FOR STORM DRAIN UP TO AND INCLUDING 24". FOR STORM DRAIN GREATER THAN 24", THE LOCATION SHALL BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER.



DRAWING NO.: 3-01
 DATE: 01/16/07
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. C24974
 DIRECTOR OF PUBLIC WORKS

CITY OF VACAVILLE
 STANDARD DRAWING

TYPICAL
 UTILITY LOCATIONS



NOTES:

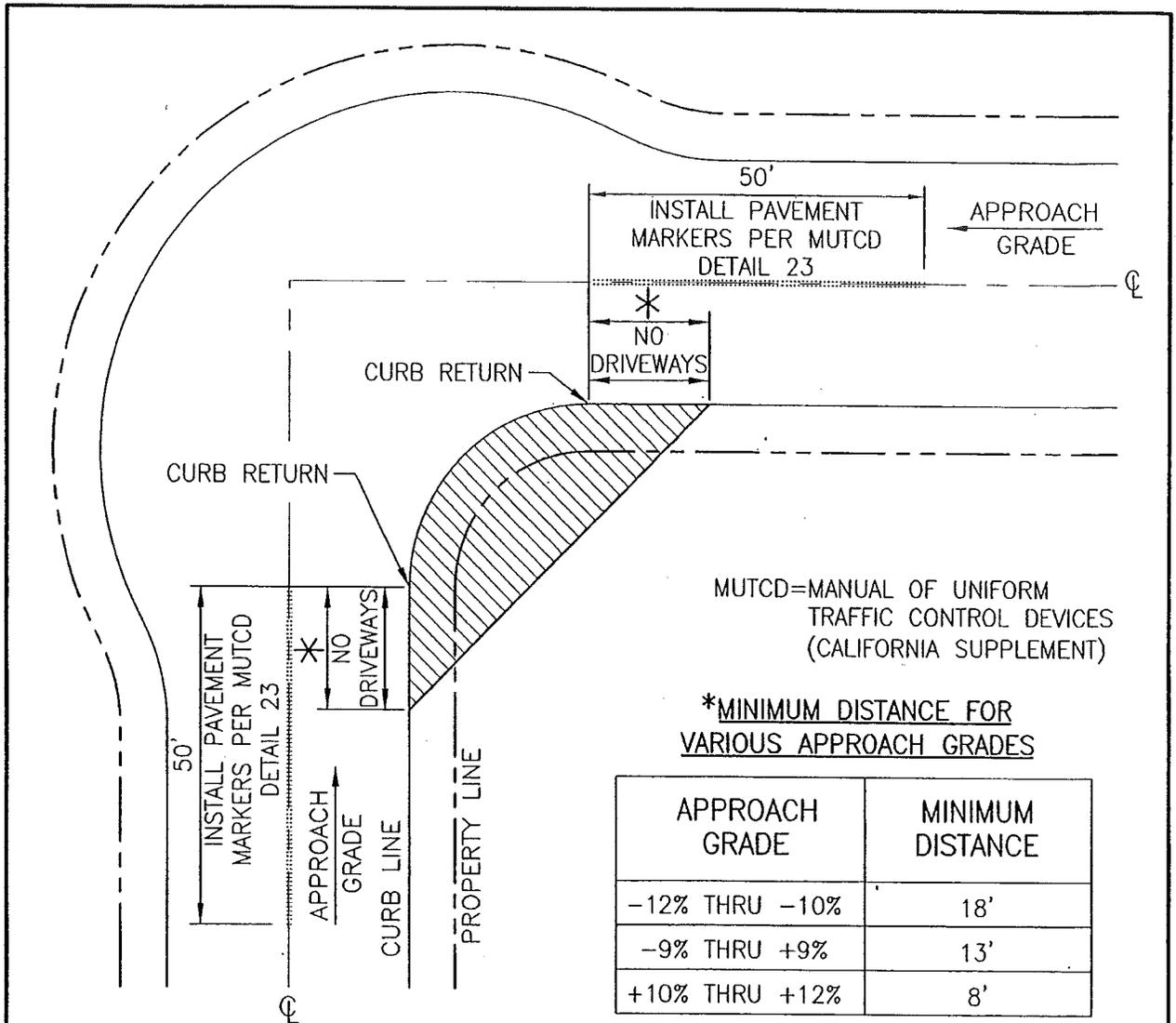
1. THE 27' RADIUS SHOWN IS A MINIMUM RADIUS AND MAY BE INCREASED AS DETERMINED BY THE ENGINEER.
2. ANY EXCEPTION TO THE DETAILS SHOWN ON THIS DRAWING SHALL BE REVIEWED ON A CASE BY CASE BASIS AND IS SUBJECT TO THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.



DRAWING NO.:	3-02A
DATE:	6/14/05
SCALE:	NONE
APPROVED BY:	<i>Paul J. Howe</i> R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

**CITY OF VACAVILLE
STANDARD DRAWING**

EXPANDED CORNER

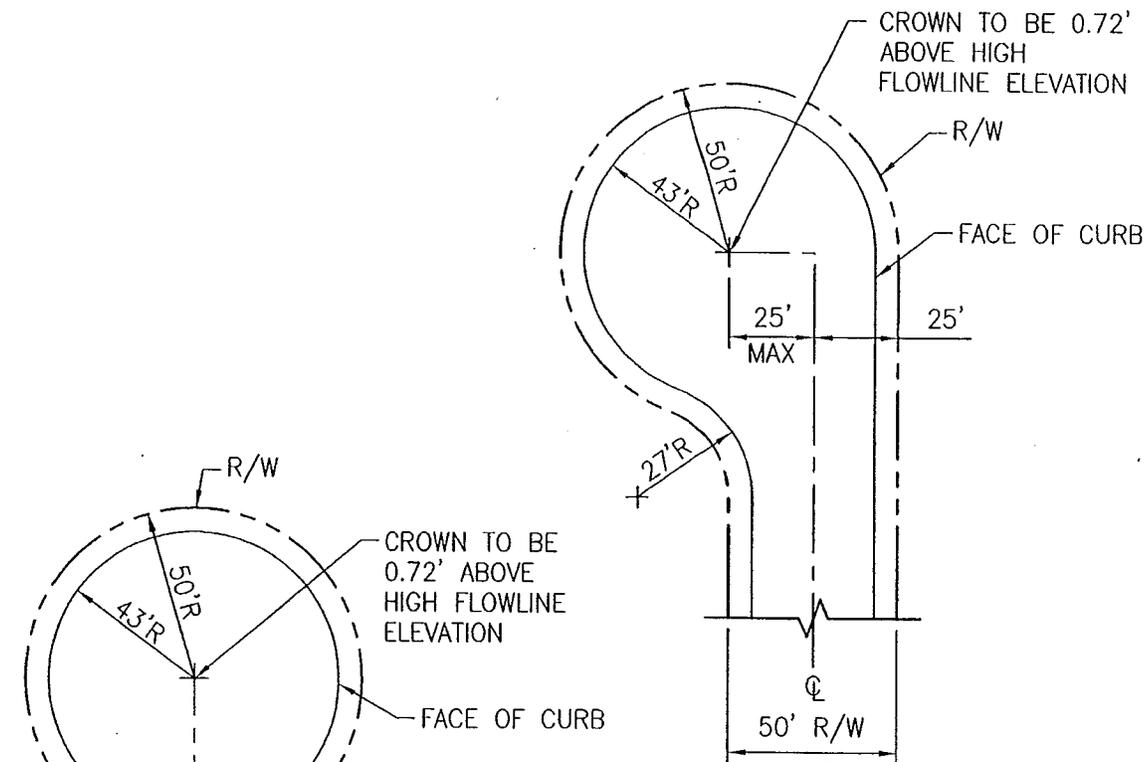


THESE DISTANCES ARE BASED ON A 27' CURB RETURN RADIUS. RETURNS WITH A RADIUS OTHER THAN 27' SHALL HAVE DRIVEWAY LOCATIONS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

NOTES:

1. NO MOUNDS, FENCES OR LANDSCAPING ALLOWED WITHIN THE SHADED AREA OVER A 3 FEET HIGH LINE OF SIGHT ABOVE THE STREET PAVEMENT GRADE EXCEPT AS ALLOWED IN NOTE 2.
2. NO TREES PERMITTED WITHIN THE SHADED AREA OVER 6 INCHES IN DIAMETER AND ALL TREE BRANCHES MUST BE TRIMMED TO A HEIGHT OF 10 FEET ABOVE THE GROUND.
3. PARKING MAY BE RESTRICTED WITHIN THE SHADED AREA AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR.

	DRAWING NO.: 3-02B	<p>CITY OF VACAVILLE STANDARD DRAWING</p> <p>EXPANDED CORNER DESIGN STOPPING SIGHT DISTANCE TRIANGLE</p>
	DATE: 6/14/05	
	SCALE: NONE	
	APPROVED BY: R.C.E. C59003 DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	



STANDARD RESIDENTIAL
EXPANDED CUL-DE-SAC

STANDARD RESIDENTIAL
CUL-DE-SAC

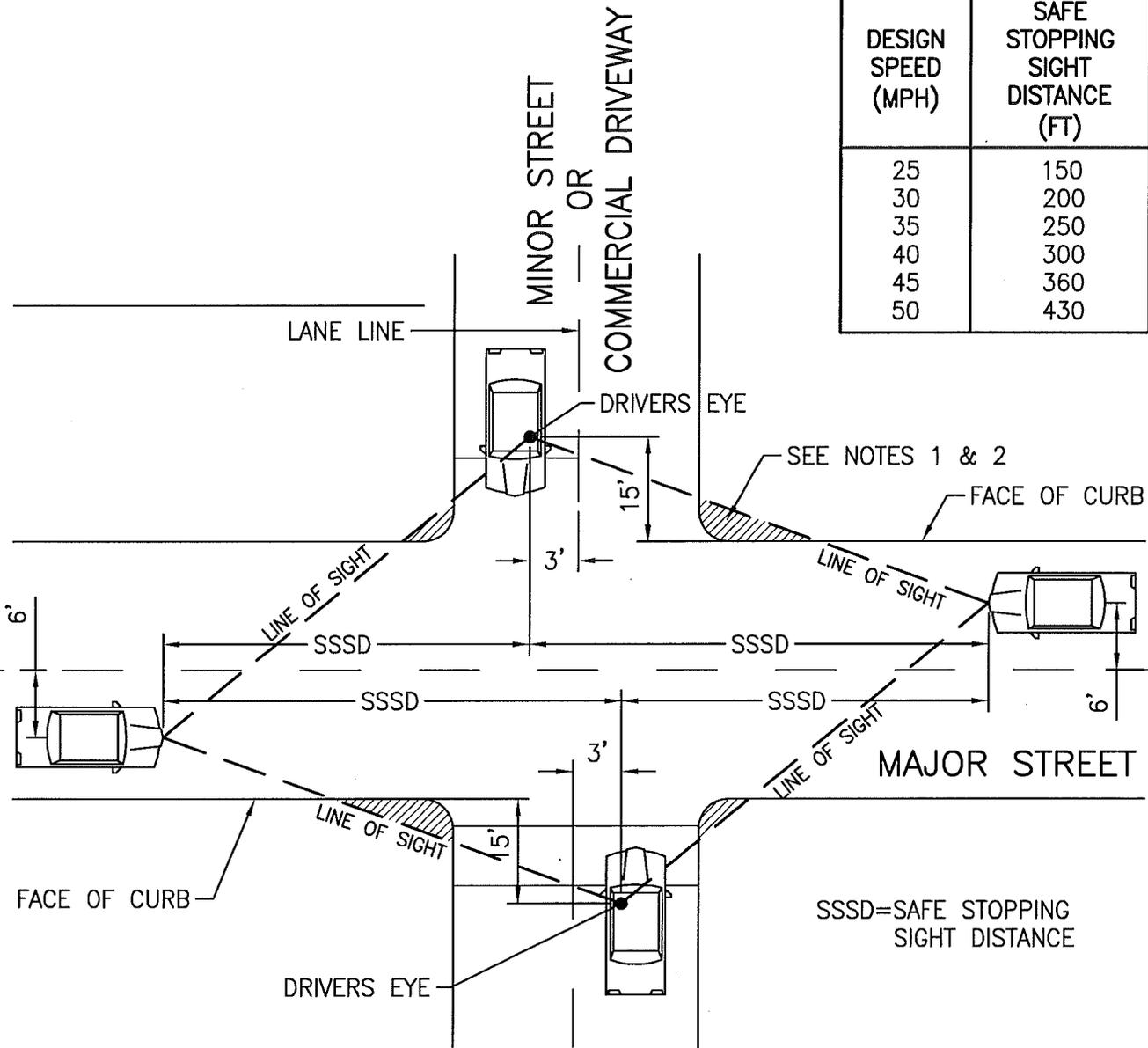
FACE OF CURB = FLOWLINE
R/W = RIGHT OF WAY

NOTE:

1. THE 27' RADIUS SHOWN IS A MINIMUM RADIUS AND MAY BE INCREASED AS DETERMINED BY THE ENGINEER.

	DRAWING NO.: 3-03	CITY OF VACAVILLE STANDARD DRAWING
	DATE: 6/14/05	
	SCALE: NONE	CUL-DE-SAC
	APPROVED BY:  R.C.E. C59003 DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

DESIGN SPEED (MPH)	SAFE STOPPING SIGHT DISTANCE (FT)
25	150
30	200
35	250
40	300
45	360
50	430



NOTES:

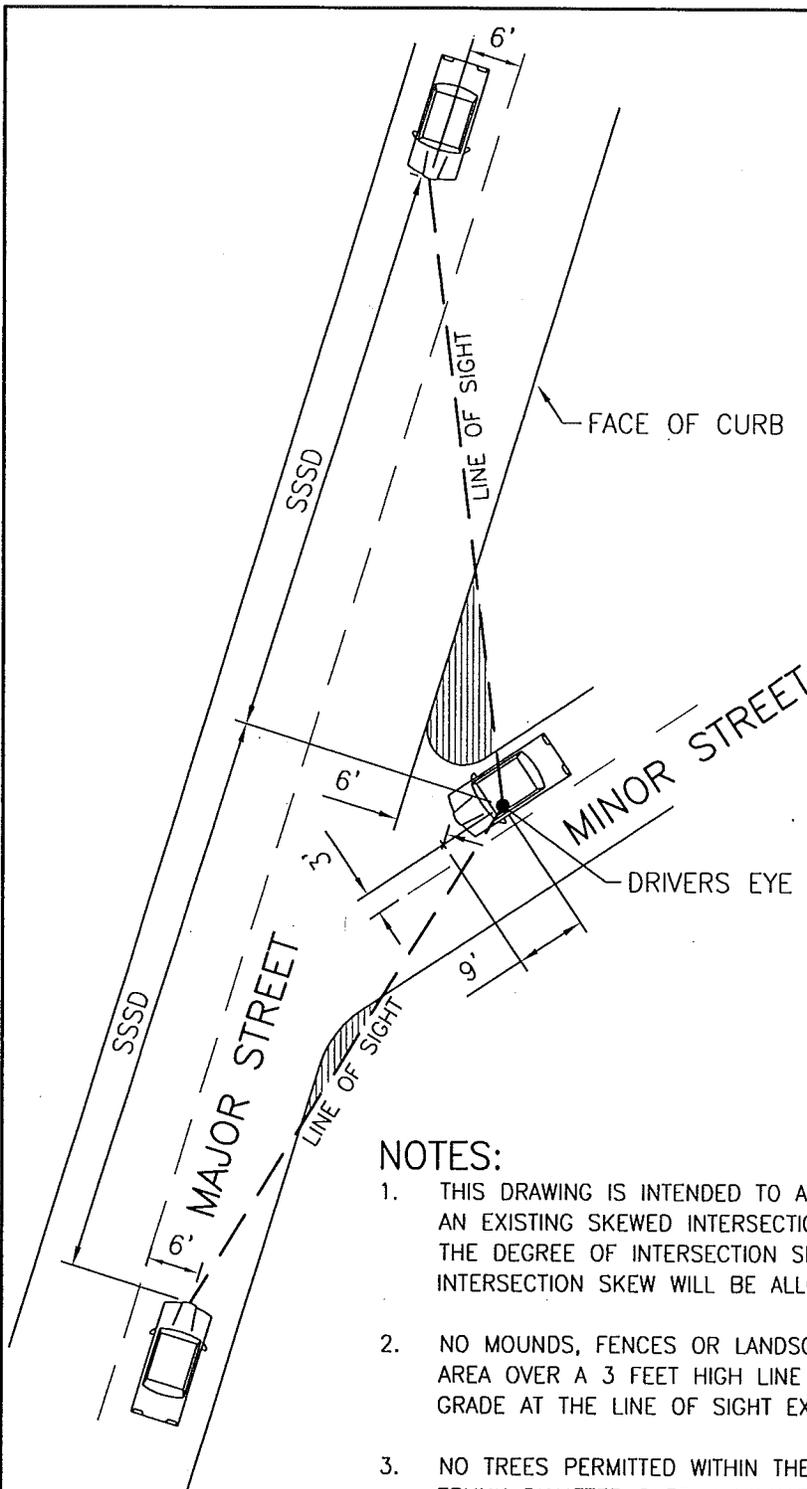
1. NO MOUNDS, FENCES OR LANDSCAPING ALLOWED WITHIN THE CROSSHATCHED AREA OVER A 3 FEET HIGH LINE OF SIGHT ABOVE THE STREET PAVEMENT GRADE EXCEPT AS ALLOWED IN NOTE 2.
2. NO TREES PERMITTED WITHIN THE CROSSHATCHED AREA WITH A MATURE TREE TRUNK DIAMETER OVER 6 INCHES AND ALL TREE BRANCHES MUST BE TRIMMED TO A HEIGHT OF 10 FEET ABOVE THE GROUND.
3. SAFE STOPPING SIGHT DISTANCE VARIES IN ACCORDANCE WITH DESIGN SPEED.



DRAWING NO.: 3-04A
 DATE: REVISED ON 04/09/12
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

CITY OF VACAVILLE
STANDARD DRAWING
INTERSECTION STOPPING
SIGHT DISTANCE
(RIGHT ANGLED INTERSECTION)

DWG File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\3-04B.dwg

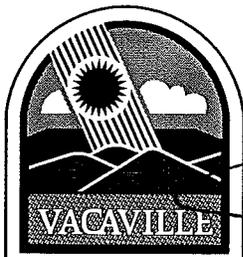


DESIGN SPEED (MPH)	SAFE STOPPING SIGHT DISTANCE (FT)
25	150
30	200
35	250
40	300
45	360
50	430

SSSD=SAFE STOPPING SIGHT DISTANCE

NOTES:

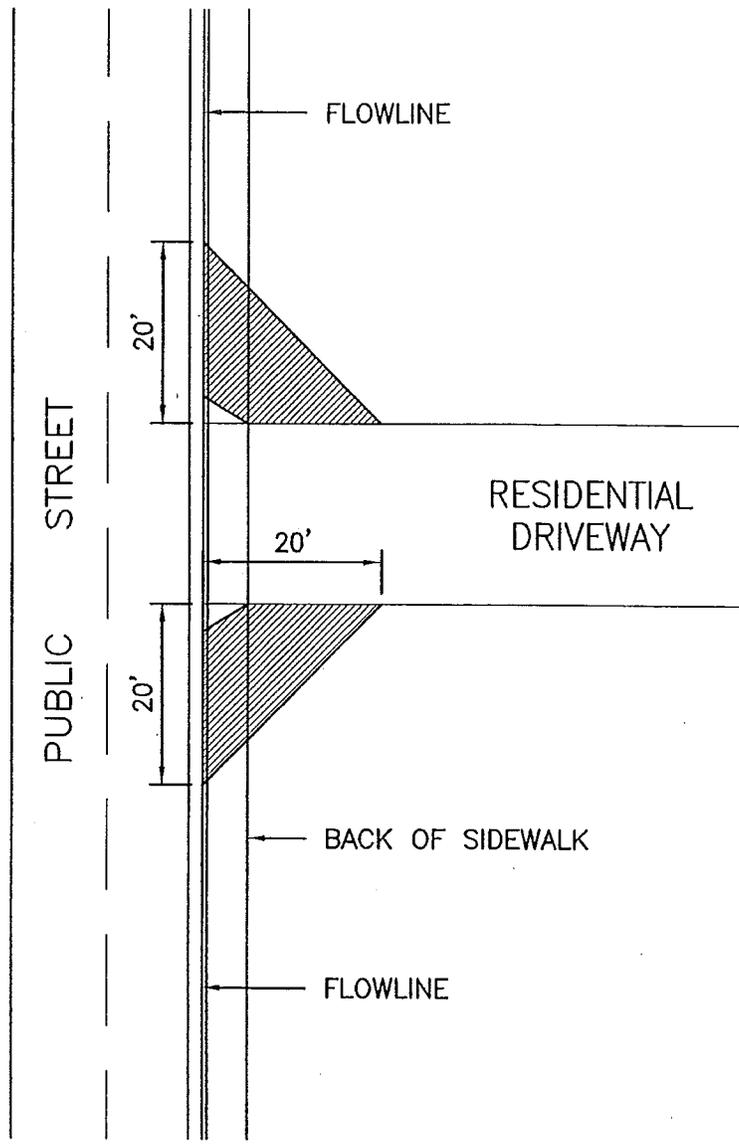
1. THIS DRAWING IS INTENDED TO AID IN ESTABLISHING THE LINE OF SIGHT FOR AN EXISTING SKEWED INTERSECTION ONLY. IT IS NOT INTENDED TO INDICATE THE DEGREE OF INTERSECTION SKEW ALLOWED NOR DOES IT IMPLY THAT INTERSECTION SKEW WILL BE ALLOWED IN THE CASE OF NEW DESIGN.
2. NO MOUNDS, FENCES OR LANDSCAPING ALLOWED WITHIN THE CROSSHATCHED AREA OVER A 3 FEET HIGH LINE OF SIGHT ABOVE THE STREET PAVEMENT GRADE AT THE LINE OF SIGHT EXCEPT AS ALLOWED IN NOTE 3.
3. NO TREES PERMITTED WITHIN THE CROSSHATCHED AREA WITH A MATURE TREE TRUNK DIAMETER OVER 6 INCHES AND ALL TREE BRANCHES MUST BE TRIMMED TO A HEIGHT OF 10 FEET ABOVE THE GROUND.
4. SAFE STOPPING SIGHT DISTANCE VARIES IN ACCORDANCE WITH DESIGN SPEED.



DRAWING NO.: 3-04B
 DATE: REVISED ON 04/22/11
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

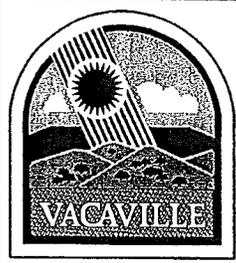
**CITY OF VACAVILLE
 STANDARD DRAWING**

**INTERSECTION STOPPING
 SIGHT DISTANCE
 (SKEWED INTERSECTION)**



NOTES:

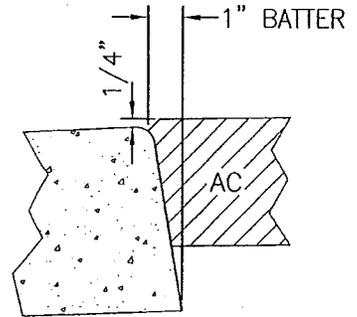
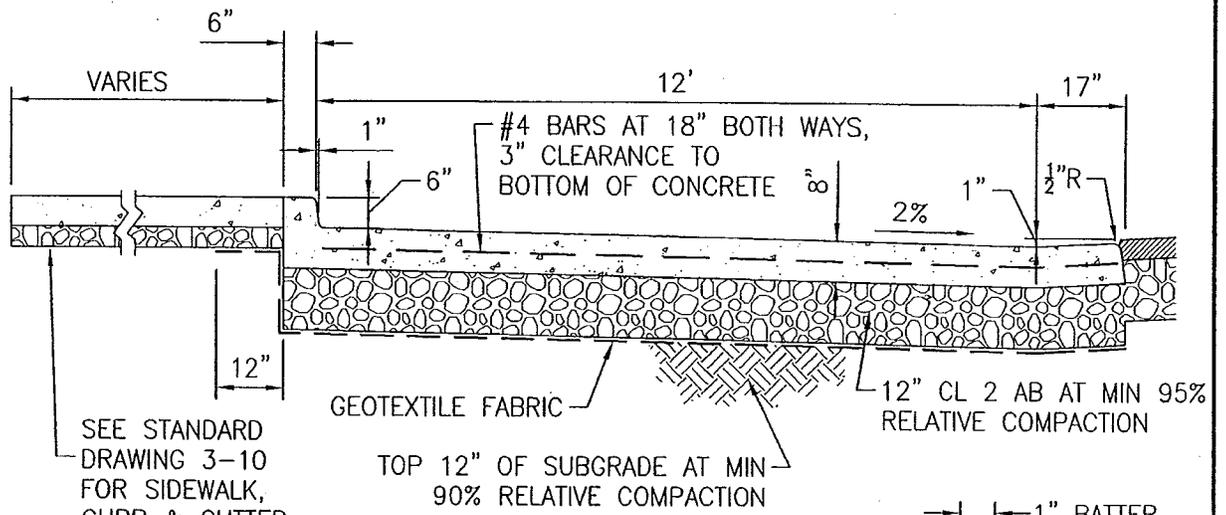
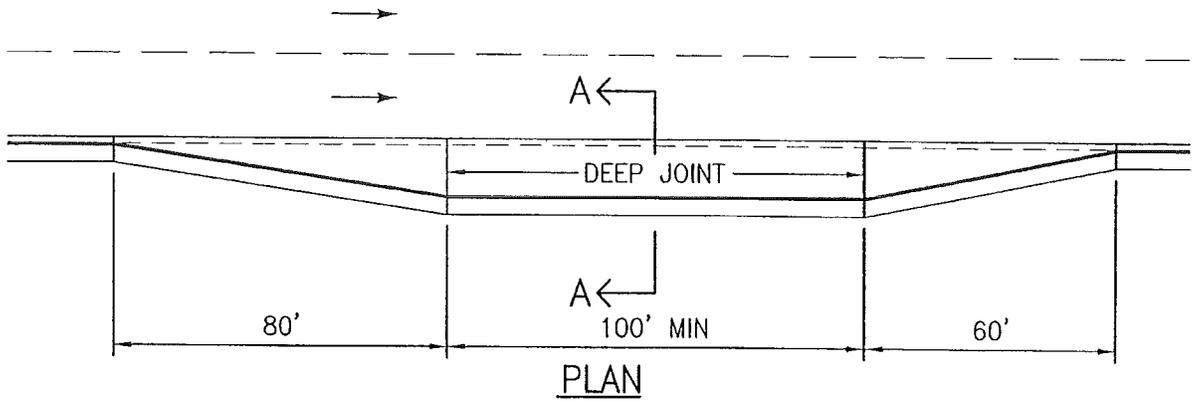
1. NO MOUNDS, FENCES OR LANDSCAPING ALLOWED WITHIN THE CROSSHATCHED AREA OVER A 3 FEET HIGH LINE OF SIGHT ABOVE THE STREET PAVEMENT GRADE AT THE LINE OF SIGHT EXCEPT AS ALLOWED IN NOTE 2.
2. NO TREES PERMITTED WITHIN THE CROSSHATCHED AREA WITH A MATURE TREE TRUNK DIAMETER OVER 6 INCHES AND ALL TREE BRANCHES MUST BE TRIMMED TO A HEIGHT OF 10 FEET ABOVE THE GROUND.
3. THIS DETAIL DOES NOT APPLY TO DRIVEWAYS WITHIN THE LIMITS OF THE BULB OF A CUL-DE-SAC STREET.



DRAWING NO.: 3-05
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *Paul J. Horn*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

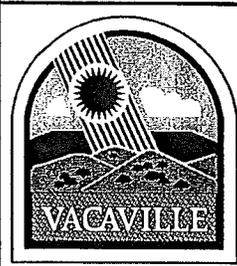
CITY OF VACAVILLE
STANDARD DRAWING

SIGHT DISTANCE
AT PRIVATE DRIVEWAYS



NOTES:

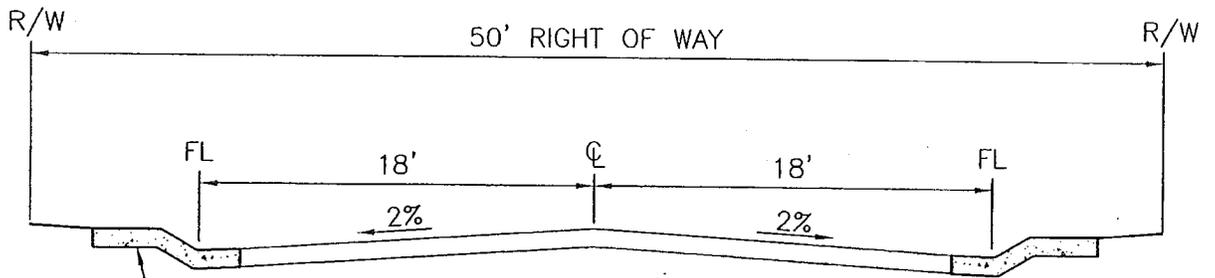
1. INSTALL TRANSVERSE DEEP JOINTS AT 10 FOOT INTERVALS AND AS SHOWN ON PLAN VIEW.
2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.



DRAWING NO.: 3-06
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *Paul J. Heur*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

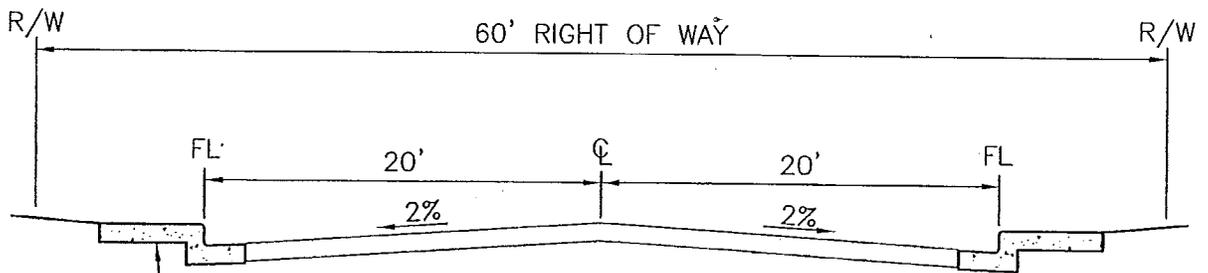
CITY OF VACAVILLE
STANDARD DRAWING

BUS TURNOUT



RESIDENTIAL LOW PROFILE CURB,
GUTTER & SIDEWALK
SEE STANDARD DRAWING 3-12A

50' RIGHT OF WAY
RESIDENTIAL



VERTICAL CURB, GUTTER & SIDEWALK
SEE STANDARD DRAWING 3-10 & 3-12A

SIDEWALK SEPARATED FROM THE VERTICAL CURB
BY A PLANTER AREA WILL REQUIRE ADDITIONAL
RIGHT OF WAY TO ACCOMMODATE THE INCREASE
OF WIDTH DUE TO THE PLANTER AREA.

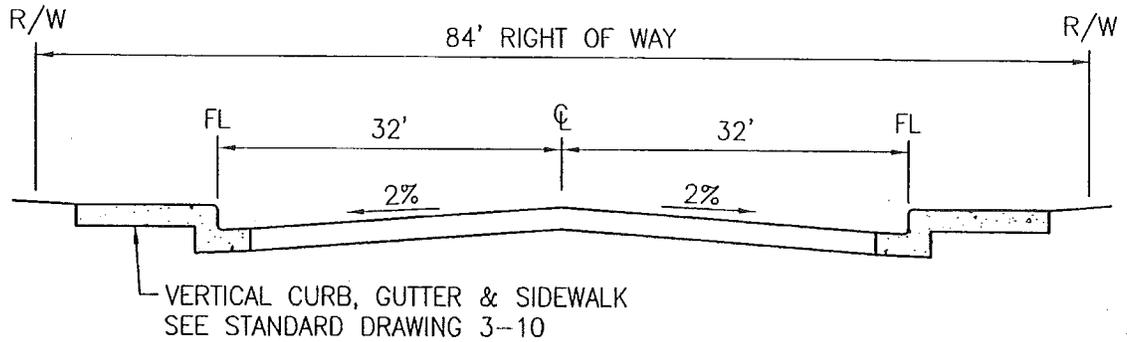
60' RIGHT OF WAY
COLLECTOR



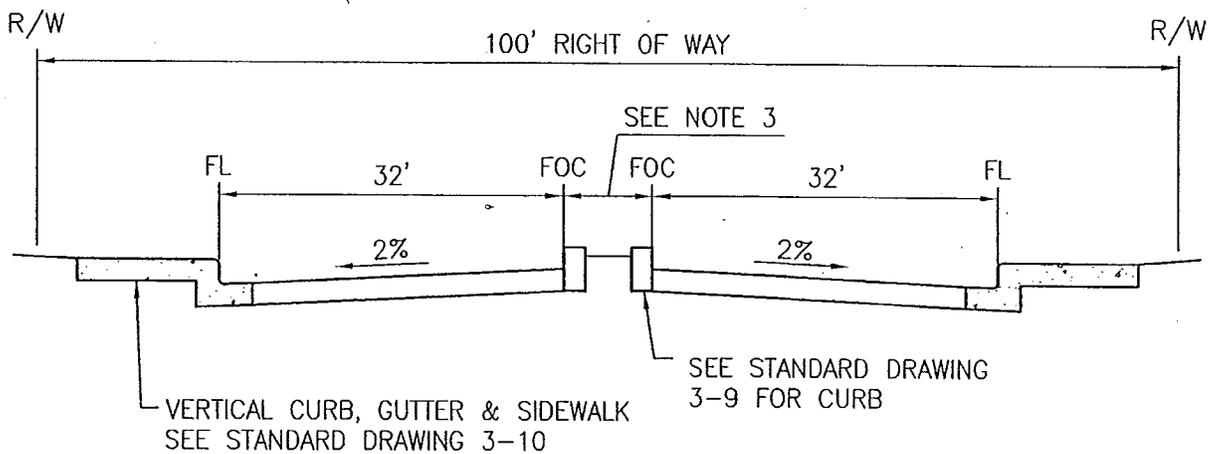
DRAWING NO.:	3-07
DATE:	6/14/05
SCALE:	NONE
APPROVED BY:	<i>Paul J. Hain</i>
	R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

CITY OF VACAVILLE
STANDARD DRAWING

STANDARD
STREET SECTIONS



84' RIGHT OF WAY
UNDIVIDED ARTERIAL



100' RIGHT OF WAY
DIVIDED ARTERIAL

FOC=FACE OF CURB AT
EDGE OF PAVEMENT

NOTES:

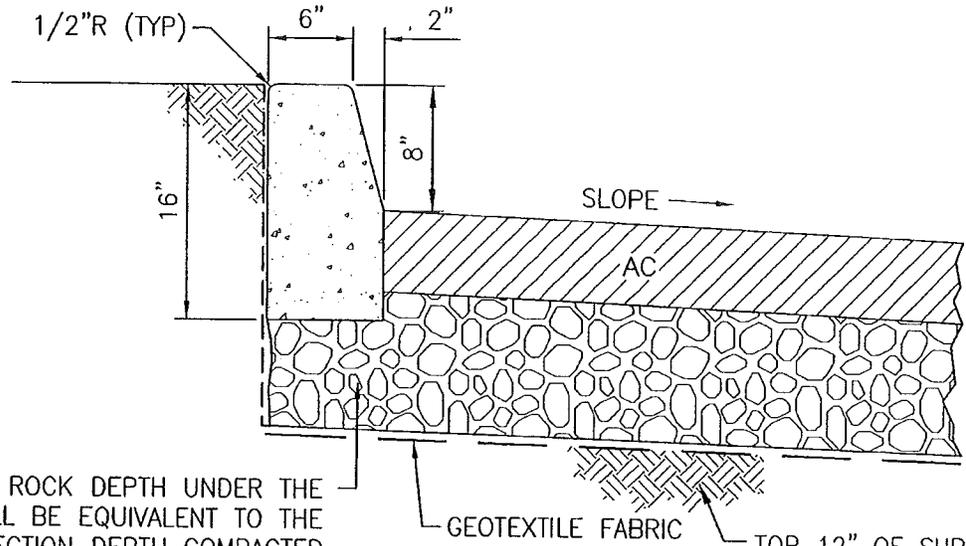
1. WIDENING MAY BE REQUIRED TO ACCOMMODATE LEFT TURN POCKETS IN UNDIVIDED ARTERIAL RIGHT-OF-WAYS. LENGTH AND DIMENSIONS MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. SIDEWALK MAY BE MEANDERING AND MAY REQUIRE ADDITIONAL RIGHT OF WAY.
3. WIDTH OF MEDIAN VARIES FROM 4 TO 16 FEET TO ACCOMMODATE A TURN POCKET AND LANDSCAPING AS REQUIRED.



DRAWING NO.:	3-08
DATE:	6/14/05
SCALE:	NONE
APPROVED BY:	<i>Kevin Moran</i> R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

CITY OF VACAVILLE
STANDARD DRAWING

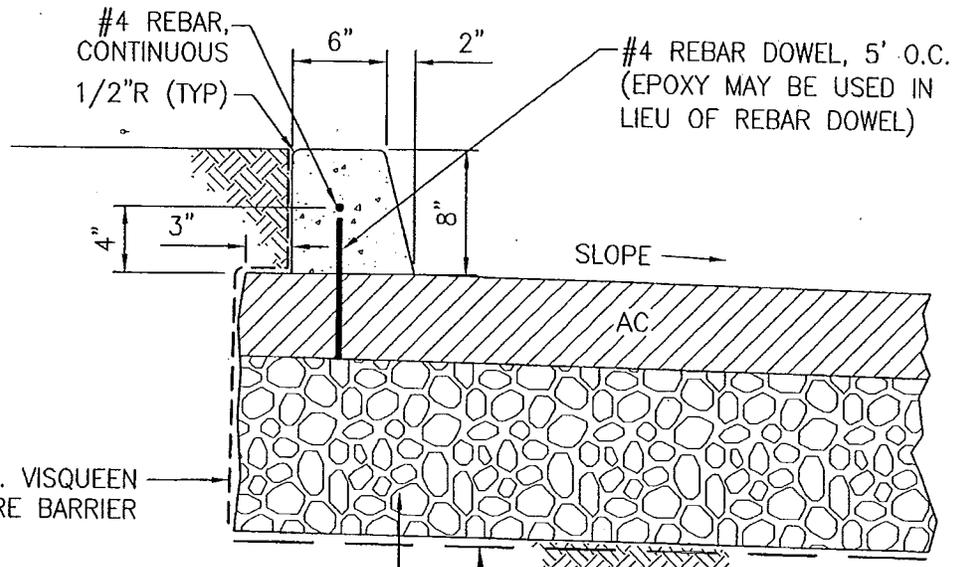
**STANDARD STREET
SECTIONS**



CL 2 AB ROCK DEPTH UNDER THE CURB SHALL BE EQUIVALENT TO THE STREET SECTION DEPTH COMPACTED AT MIN 95% RELATIVE COMPACTION

TYPE A CURB

TOP 12" OF SUBGRADE AT MIN 90% RELATIVE COMPACTION



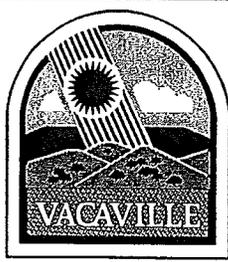
CL 2 AB ROCK DEPTH UNDER THE CURB SHALL BE EQUIVALENT TO THE STREET SECTION DEPTH COMPACTED AT MIN 95% RELATIVE COMPACTION

TYPE B CURB

TOP 12" OF SUBGRADE AT MIN 90% RELATIVE COMPACTION

NOTES:

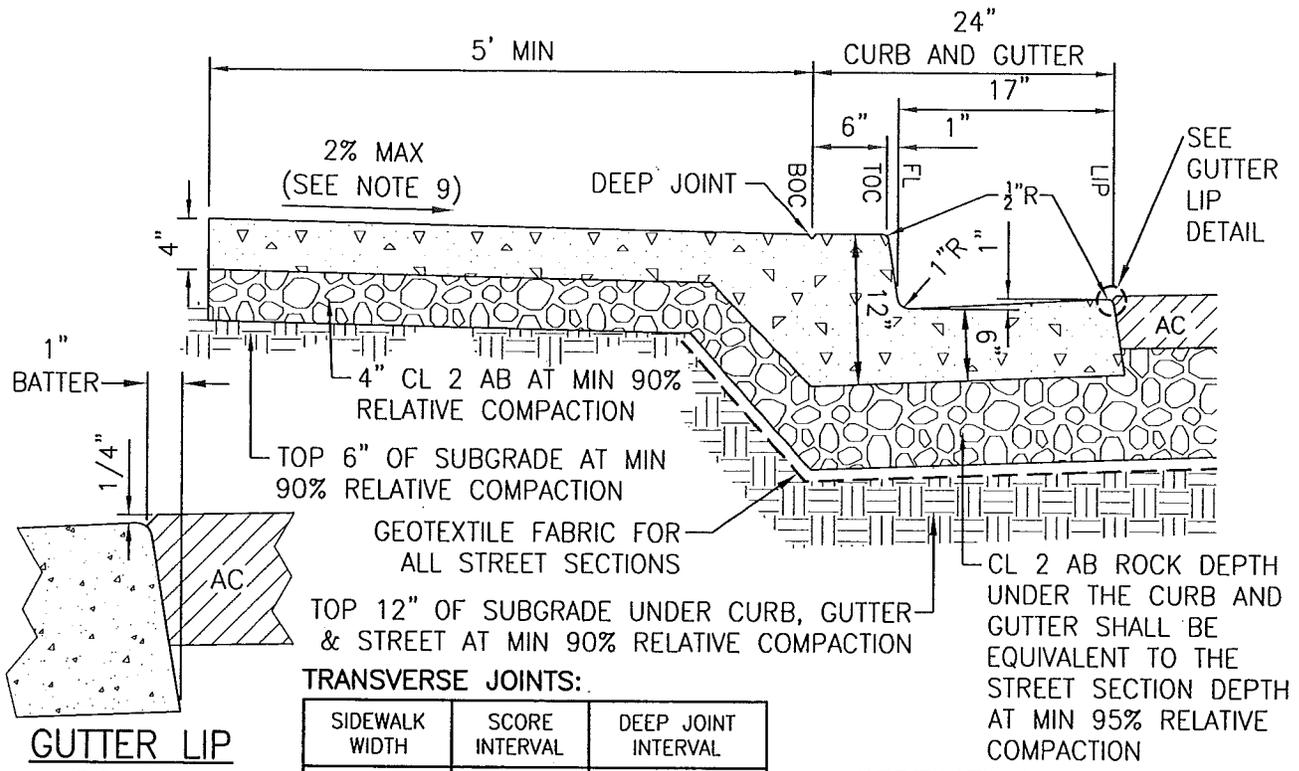
1. SUBDRAINS MAY BE REQUIRED IN LANDSCAPED MEDIANS.
2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.



DRAWING NO.: 3-09
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *Paul Thom*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

**CITY OF VACAVILLE
 STANDARD DRAWING**

MEDIAN CURB



**GUTTER LIP
DETAIL**

TRANSVERSE JOINTS:

SIDEWALK WIDTH	SCORE INTERVAL	DEEP JOINT INTERVAL
5'	5'	10'
7'	5'	10'
9.5'	5'*	10'

* SHALL INCLUDE SCORE LINES PERPENDICULAR AND PARALLEL TO TOC.

ABBREVIATIONS

BOC	BACK OF CURB
FL	FLOWLINE
LIP	LIP OF GUTTER
TOC	TOP FACE OF CURB

NOTES:

1. VERTICAL CURB, GUTTER AND SIDEWALK SHALL BE USED ON ALL STREETS IN COMMERCIAL AND INDUSTRIAL DEVELOPMENTS. VERTICAL CURB AND GUTTER SHALL BE USED ON RESIDENTIAL DEVELOPMENTS WHERE THE LOW PROFILE CURB, GUTTER AND SIDEWALK IS NOT REQUIRED PER STANDARD DRAWING 3-12A UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER / DIRECTOR OF PUBLIC WORKS.
2. SCORE LINES SHALL BE 1/4" DEEP.
3. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
4. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, STREET LIGHTS, EACH EDGE OF UTILITY BOXES AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
5. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
6. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SIDEWALK IS TO BE DOWELLED TO CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
8. FOR SUPERELEVATED STREET SECTION, CURB AND GUTTER MAY REQUIRE MODIFICATION.
9. A PLANTER STRIP AREA MAY BE LOCATED BETWEEN THE CURB AND THE SIDEWALK. THE MINIMUM WIDTH OF THE SIDEWALK SHALL BE 5 FT. THE MINIMUM WIDTH OF THE PLANTER AREA SHALL BE 6' AND SLOPE 2% TOWARD THE STREET. THE PLANTER AREA SHALL BE MAINTAINED BY A LIGHTING AND LANDSCAPE DISTRICT OR HOME OWNER'S ASSOCIATION.
10. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

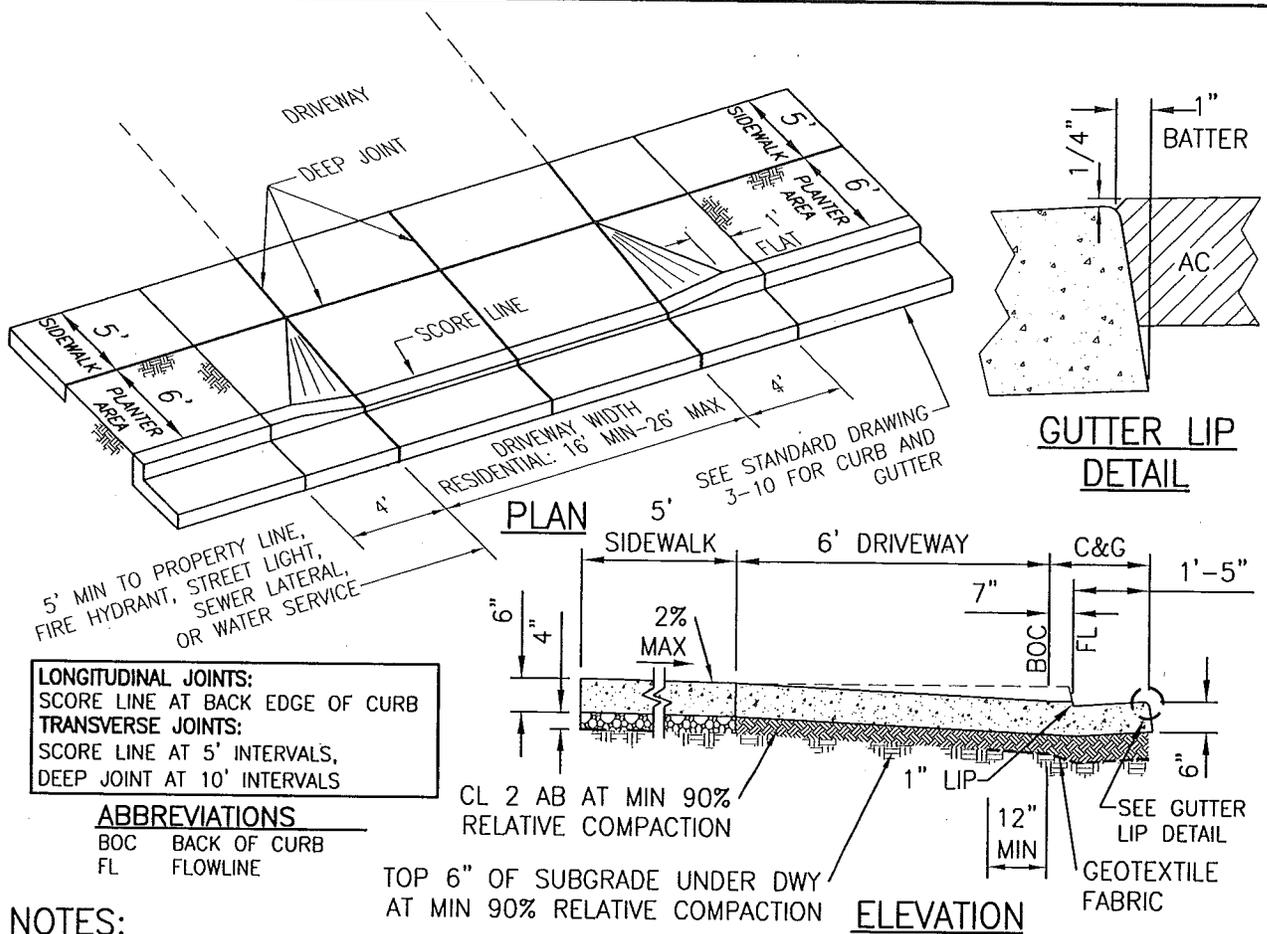
DWG File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\3-10.dwg



DRAWING NO.:	3-10
DATE:	REVISED ON 04/22/11
SCALE:	NONE
APPROVED BY:	
	R.C.E. 38521
	DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

**CITY OF VACAVILLE
STANDARD DRAWING**

**VERTICAL
CURB, GUTTER & SIDEWALK**



LONGITUDINAL JOINTS:
SCORE LINE AT BACK EDGE OF CURB
TRANSVERSE JOINTS:
SCORE LINE AT 5' INTERVALS,
DEEP JOINT AT 10' INTERVALS

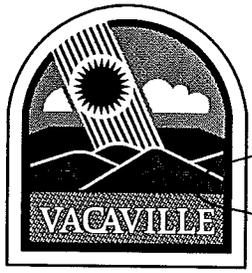
ABBREVIATIONS
BOC BACK OF CURB
FL FLOWLINE

TOP 6" OF SUBGRADE UNDER DWY
AT MIN 90% RELATIVE COMPACTION

NOTES:

1. LOW PROFILE CURB, GUTTER AND SIDEWALK SHALL BE USED ON ALL STREETS IN RESIDENTIAL DEVELOPMENTS EXCEPT AS FOLLOWS: 1) WHERE A PLANTER STRIP IS LOCATED BETWEEN THE CURB AND SIDEWALK, 2) ON COLLECTOR STREETS WHERE NO DRIVEWAYS EXIST, OR 3) AT LOCATIONS IDENTIFIED BY THE CITY ENGINEER/DIRECTOR OF PUBLIC WORKS. IN THESE CASES, A VERTICAL CURB SHALL BE INSTALLED PER STANDARD DRAWING 3-10.
2. SCORE LINES SHALL BE 1/4" DEEP.
3. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
4. DEEP JOINTS SHALL ALSO BE LOCATED AT 10 FOOT INTERVALS AND AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES AND STREET LIGHTS.
5. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
6. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
7. SEGMENTS OF THE DRIVEWAY POURED SEPARATELY SHALL BE DOWELLED TO ADJOINING CONCRETE WITH #4 BARS AT 2' O.C.
8. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
9. ANY UTILITY BOX AND LID WITHIN 5 FEET OF THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.

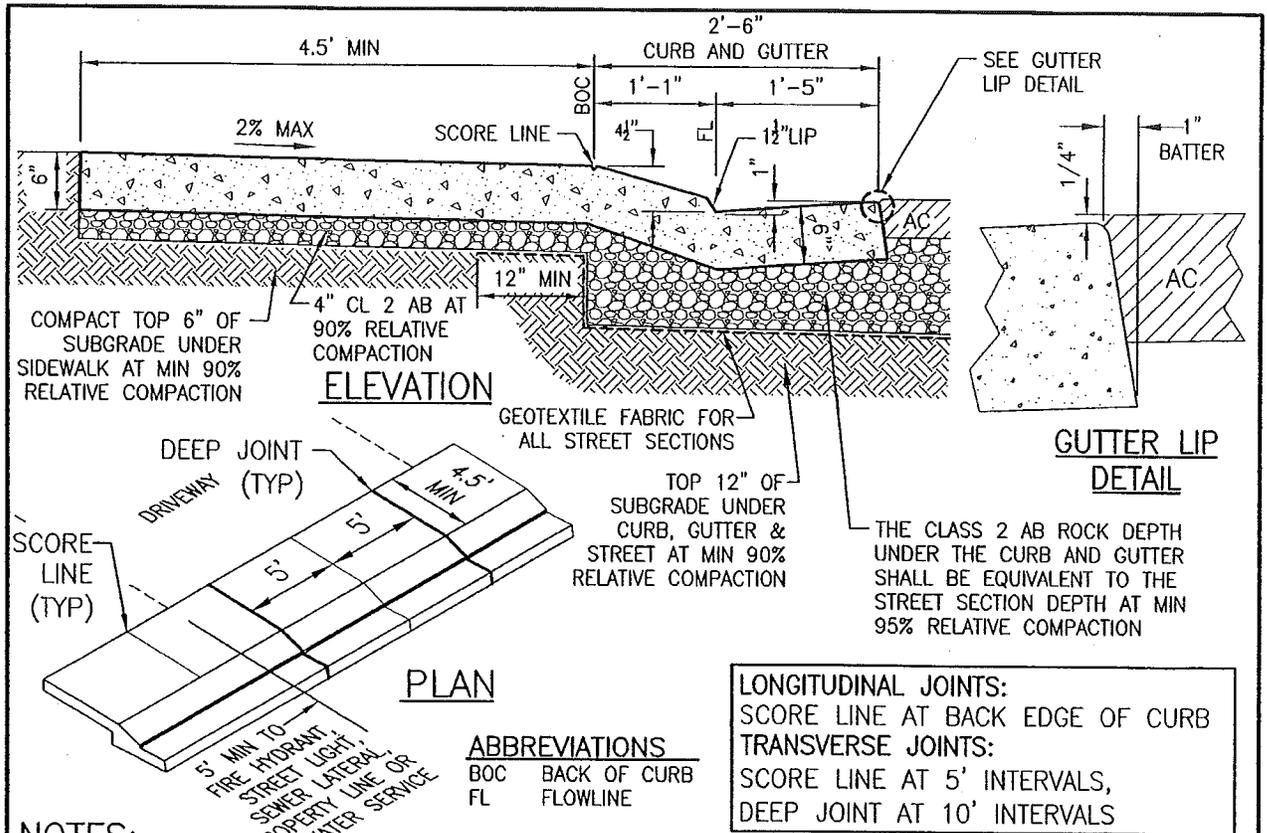
DWC File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\3-11.dwg



DRAWING NO.:	3-11
DATE:	REVISED ON 04/22/11
SCALE:	NONE
APPROVED BY:	
	R.C.E. 38521
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER	

**CITY OF VACAVILLE
STANDARD DRAWING**

**RESIDENTIAL DRIVEWAY
WITH SEPARATED SIDEWALK
AND PLANTER**

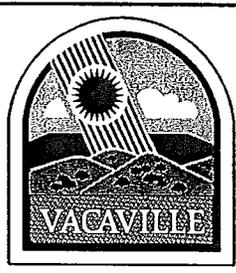


NOTES:

1. LOW PROFILE CURB, GUTTER AND SIDEWALK SHALL BE USED ON ALL STREETS IN RESIDENTIAL DEVELOPMENTS EXCEPT AS FOLLOWS: 1) WHERE A PLANTER STRIP IS LOCATED BETWEEN THE CURB AND SIDEWALK, 2) ON COLLECTOR STREETS WHERE NO DRIVEWAYS EXIST, OR 3) AT LOCATIONS IDENTIFIED BY THE CITY ENGINEER/DIRECTOR OF PUBLIC WORKS. IN THESE CASES, A VERTICAL CURB SHALL BE INSTALLED PER STANDARD DRAWING 3-10.
2. SCORE LINES SHALL BE 1/4" DEEP.
3. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
4. DEEP JOINTS SHALL ALSO BE LOCATED AT 10 FOOT INTERVALS AND AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES AND STREET LIGHTS.
5. TRANSITION LOW PROFILE CURB AND GUTTER TO VERTICAL CURB AND GUTTER TO ACCOMMODATE CURB INLETS IN ACCORDANCE WITH STANDARD DRAWING 3-12B.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SIDEWALK IS TO BE DOWELLED TO CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
8. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
9. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
10. ANY UTILITY BOX AND LID LOCATED WITHIN THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.

LONGITUDINAL JOINTS:
SCORE LINE AT BACK EDGE OF CURB
TRANSVERSE JOINTS:
SCORE LINE AT 5' INTERVALS,
DEEP JOINT AT 10' INTERVALS

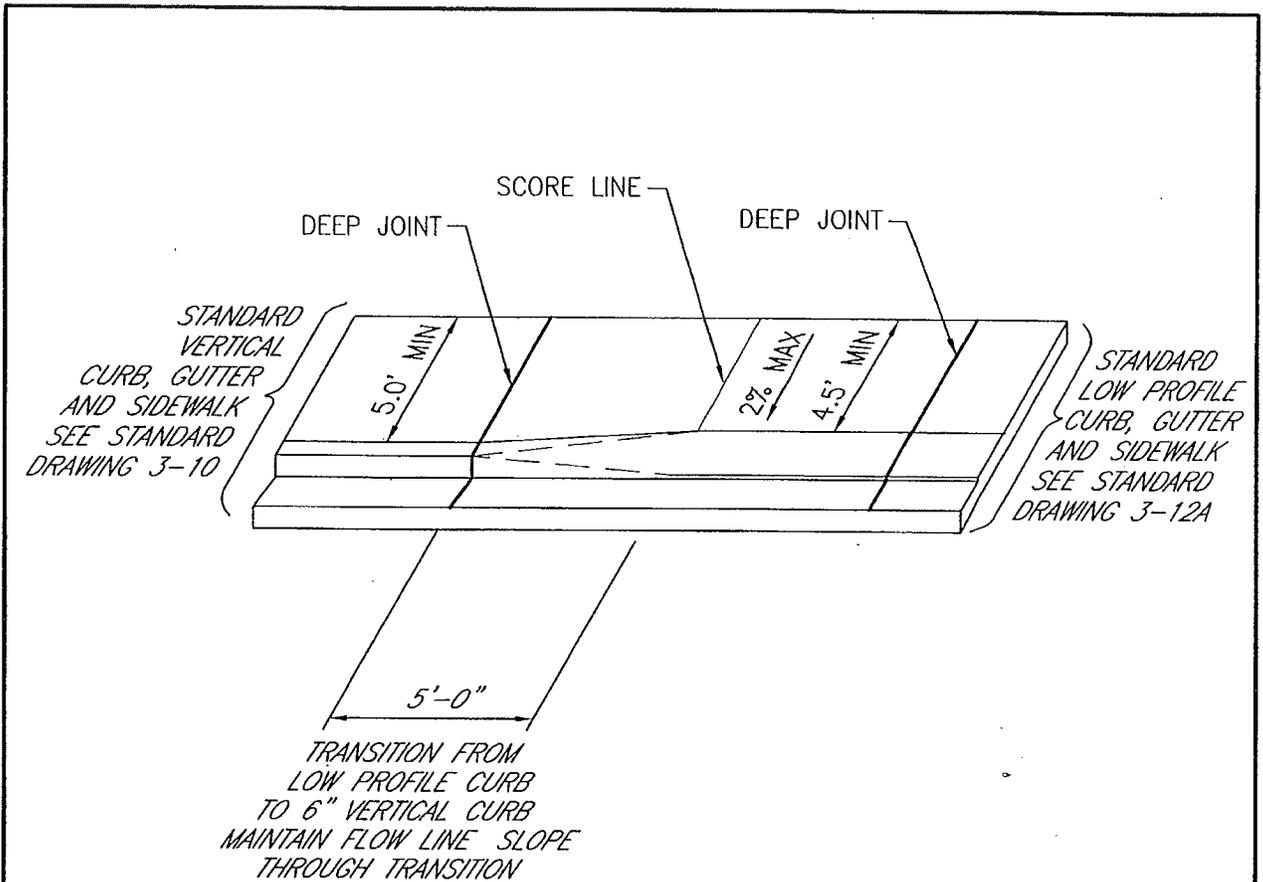
ABBREVIATIONS
BOC BACK OF CURB
FL FLOWLINE



DRAWING NO.: 3-12A
DATE: 6/14/05
SCALE: NONE
APPROVED BY: *Paul J. Han*
R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS
ENGINEERING SERVICES

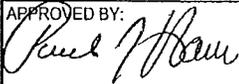
CITY OF VACAVILLE
STANDARD DRAWING

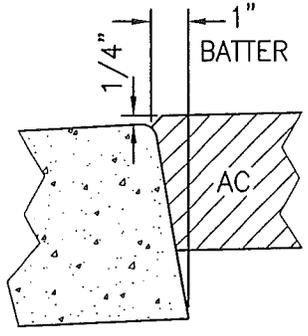
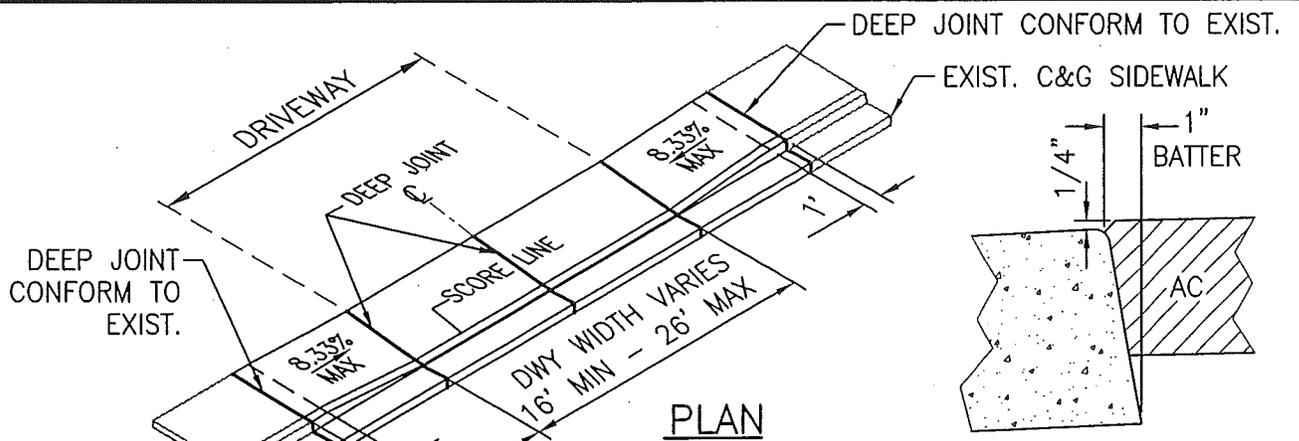
RESIDENTIAL
LOW PROFILE
CURB, GUTTER & SIDEWALK



NOTES:

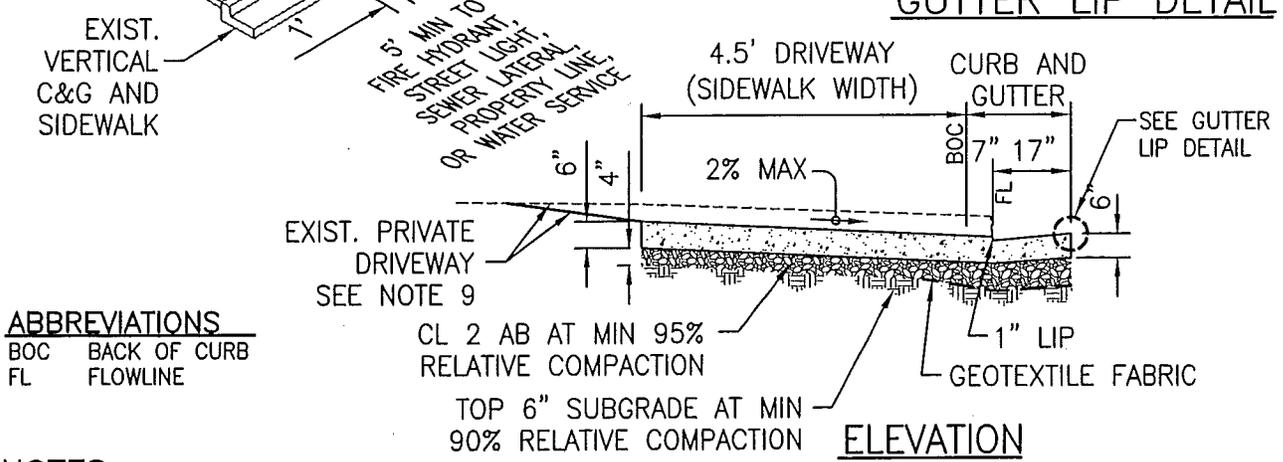
1. SCORE LINES SHALL BE 1/4" DEEP.
2. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
3. DEEP JOINTS SHALL BE SPACED 10' MAX AND SHALL BE 1 1/2" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
4. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

	DRAWING NO.: 3-12B	CITY OF VACAVILLE STANDARD DRAWING
	DATE: 6/14/05	
	SCALE: NONE	CURB TRANSITION BETWEEN STANDARD LOW PROFILE CURB AND STANDARD VERTICAL CURB
	APPROVED BY:  <small>R.C.E. C59003</small> DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	



PLAN

GUTTER LIP DETAIL

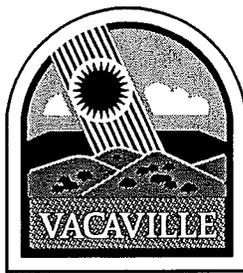


ELEVATION

ABBREVIATIONS
 BOC BACK OF CURB
 FL FLOWLINE

NOTES:

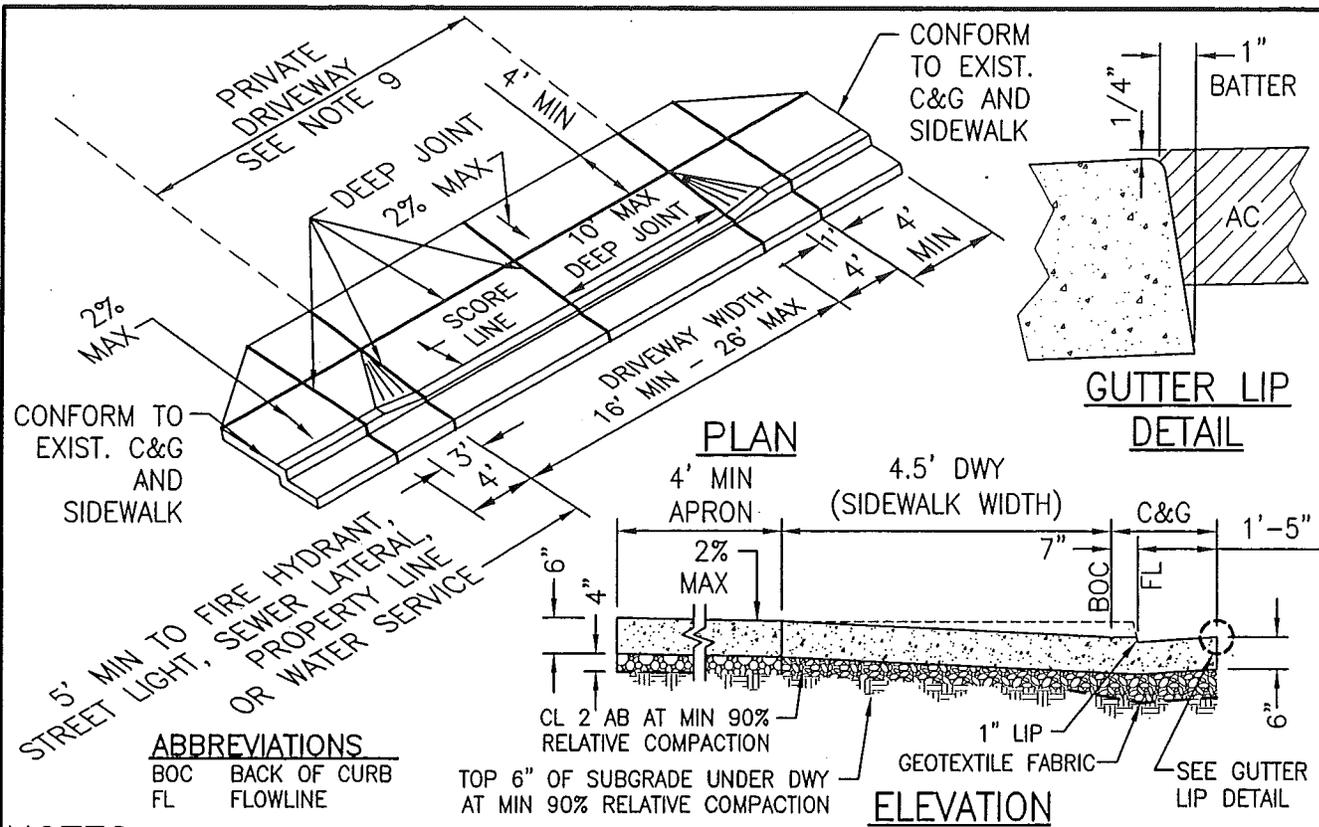
1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, REPLACE PAVEMENT PER CITY STANDARD DRAWING 3-20, "EXIST. STREET" A MINIMUM OF 12" BEYOND ALL EDGES OF WORK.
3. SCORE LINE SHALL BE 1/4" DEEP.
4. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
5. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, STREET LIGHTS, AT EACH EDGE OF UTILITY BOXES AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELED TO EXIST. CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SIDEWALK IS TO BE DOWELED TO CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
8. REMOVAL OF EXIST. SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
9. THE EXIST. PRIVATE DRIVEWAY WILL NEED TO BE MODIFIED TO CONFORM TO NEW ELEVATION OF RETROFIT.
10. ANY UTILITY BOX AND LID WITHIN THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.



DRAWING NO.:	3-12C
DATE:	6/14/05
SCALE:	NONE
APPROVED BY:	<i>Paul Miller</i>
	R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

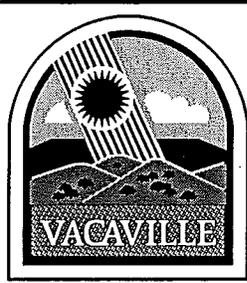
**CITY OF VACAVILLE
 STANDARD DRAWING**

**RESIDENTIAL DRIVEWAY
 RETROFIT - TYPE 1
 (ADJOINING VERTICAL CURB & GUTTER)**



NOTES:

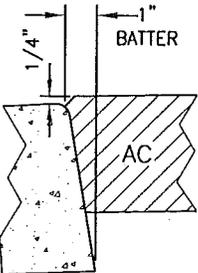
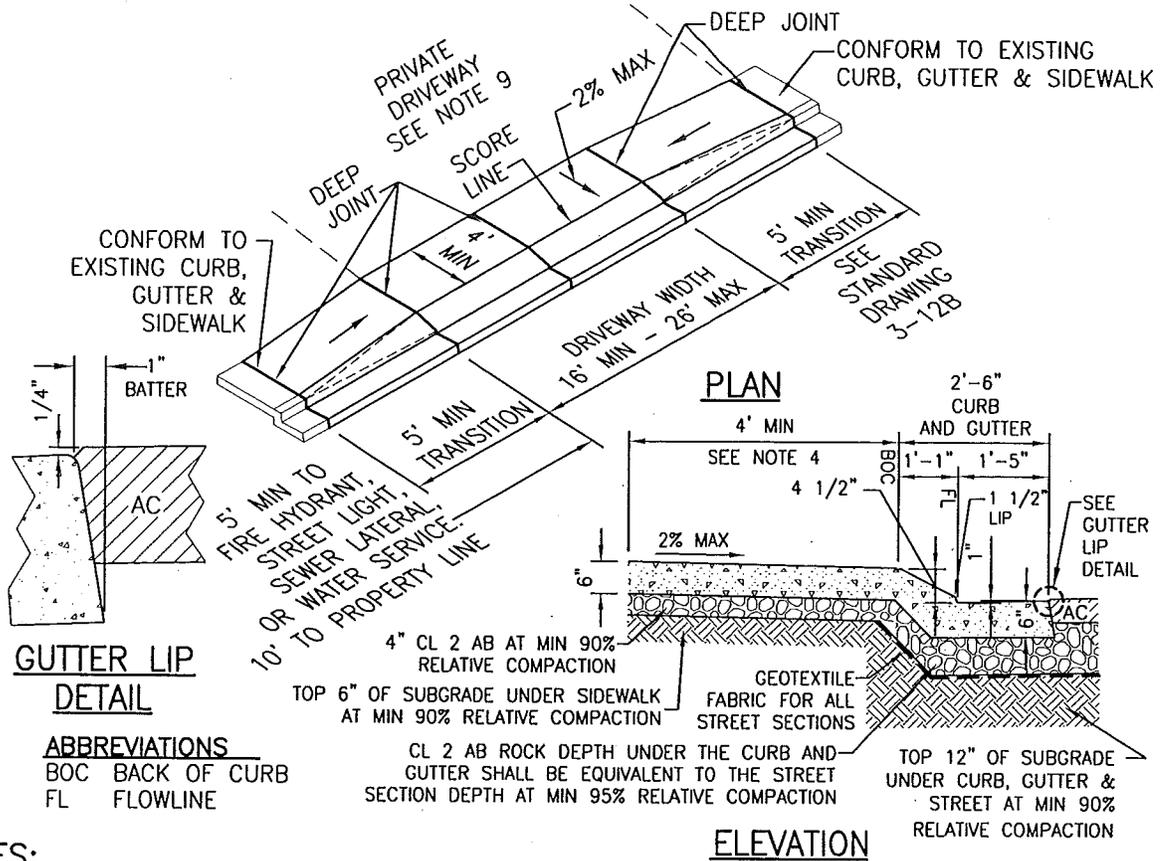
1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, REPLACE PAVEMENT PER CITY STANDARD DRAWING 3-20, "EXISTING STREET" A MINIMUM OF 12" BEYOND ALL EDGES OF WORK.
3. SCORE LINES SHALL BE 1/4" DEEP.
4. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
5. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES, STREET LIGHTS, AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SIDEWALK IS TO BE DOWELLED TO CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
8. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
9. THE EXISTING PRIVATE DRIVEWAY WILL NEED TO BE MODIFIED TO CONFORM TO NEW ELEVATION OF RETROFIT AND MAY REQUIRE ADDITIONAL RIGHT OF WAY.
10. THIS OPTION IS ONLY ALLOWED IF THERE IS SUFFICIENT RIGHT OF WAY AND IF APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
11. ANY UTILITY BOX OR LID LOCATED WITHIN 5 FEET OF THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.



DRAWING NO.: 3-12D
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *Paul H. Allen*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

CITY OF VACAVILLE
STANDARD DRAWING

RESIDENTIAL DRIVEWAY
RETROFIT - TYPE 2
(ADJOINING VERTICAL CURB & GUTTER)



**GUTTER LIP
DETAIL**

ABBREVIATIONS

BOC BACK OF CURB
FL FLOWLINE

4" CL 2 AB AT MIN 90%
RELATIVE COMPACTION
TOP 6" OF SUBGRADE UNDER SIDEWALK
AT MIN 90% RELATIVE COMPACTION

CL 2 AB ROCK DEPTH UNDER THE CURB AND
GUTTER SHALL BE EQUIVALENT TO THE STREET
SECTION DEPTH AT MIN 95% RELATIVE COMPACTION

TOP 12" OF SUBGRADE
UNDER CURB, GUTTER &
STREET AT MIN 90%
RELATIVE COMPACTION

ELEVATION

NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, REPLACE PAVEMENT PERMITTED ON STANDARD DRAWING 3-20A, "EXISTING STREET" A MINIMUM OF 12" BEYOND ALL EDGES.
3. SCORE LINES SHALL BE 1/4" DEEP.
4. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
5. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES, STREET LIGHTS, AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. IF CURB, GUTTER AND SIDEWALK ARE NOT POURED MONOLITHICALLY, SIDEWALK IS TO BE DOWELLED TO CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
8. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
9. THE EXISTING PRIVATE DRIVEWAY WILL NEED TO BE MODIFIED TO CONFORM TO NEW ELEVATION OF RETROFIT.
10. ANY UTILITY BOX OR LID LOCATED WITHIN 5 FEET OF THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.

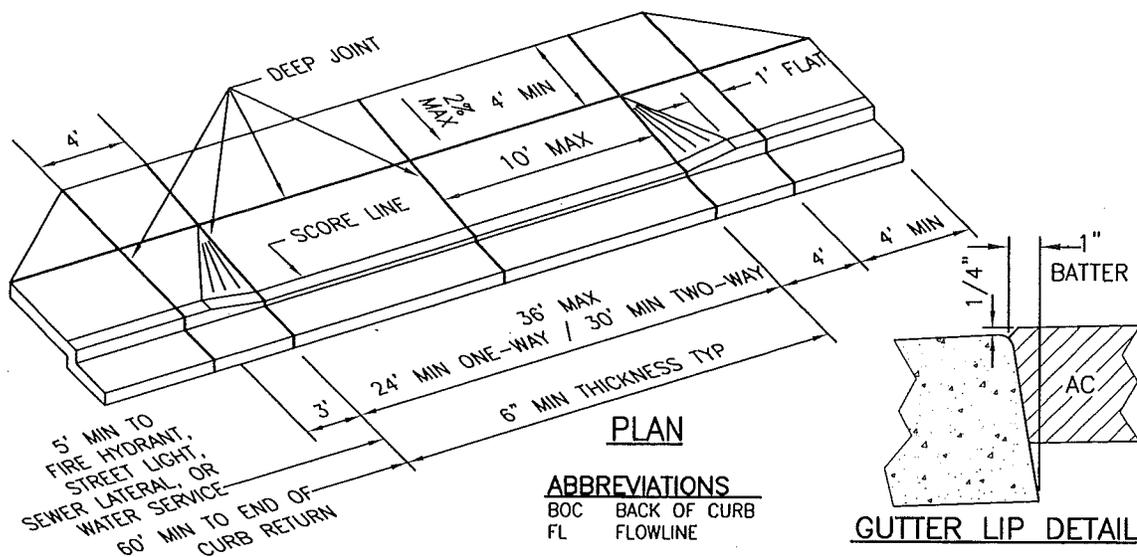
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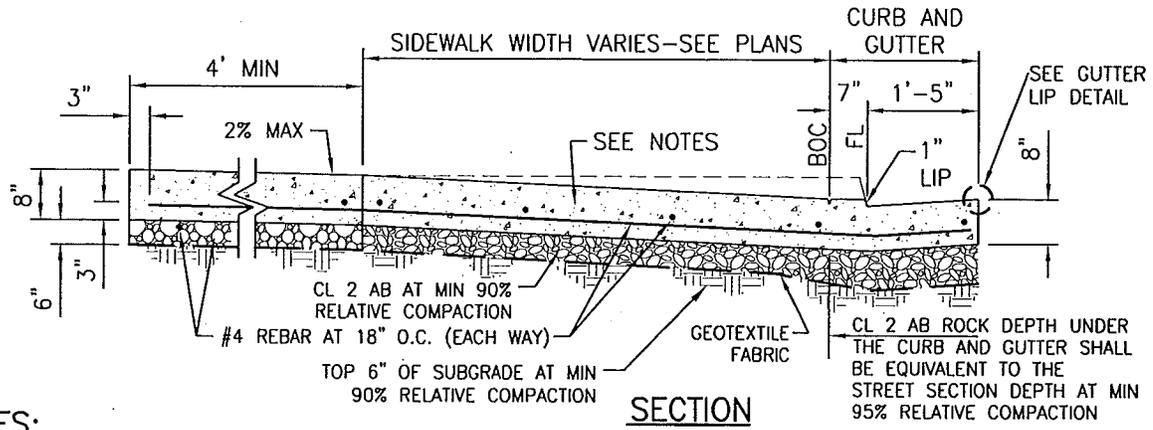
DRAWING NO.: 3-12E
 DATE: REVISED ON 04/22/11
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

**CITY OF VACAVILLE
STANDARD DRAWING**

**RESIDENTIAL DRIVEWAY
RETROFIT - TYPE 3**



ABBREVIATIONS
 BOC BACK OF CURB
 FL FLOWLINE



NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, REPLACE PAVEMENT PER CITY STANDARD DRAWING 3-20A, "EXISTING STREET" A MINIMUM OF 12" BEYOND ALL EDGES.
3. SCORE LINES SHALL BE 1/4" DEEP.
4. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
5. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES, STREET LIGHTS, AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.
6. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
7. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
8. EXISTING COMMERCIAL DRIVEWAYS MAY NEED TO BE MODIFIED TO CONFORM TO NEW ELEVATION OF RETROFIT.
9. ANY UTILITY BOX OR LID WITHIN 5 FEET OF THE LIMITS OF THE DRIVEWAY SHALL BE TRAFFIC-RATED.

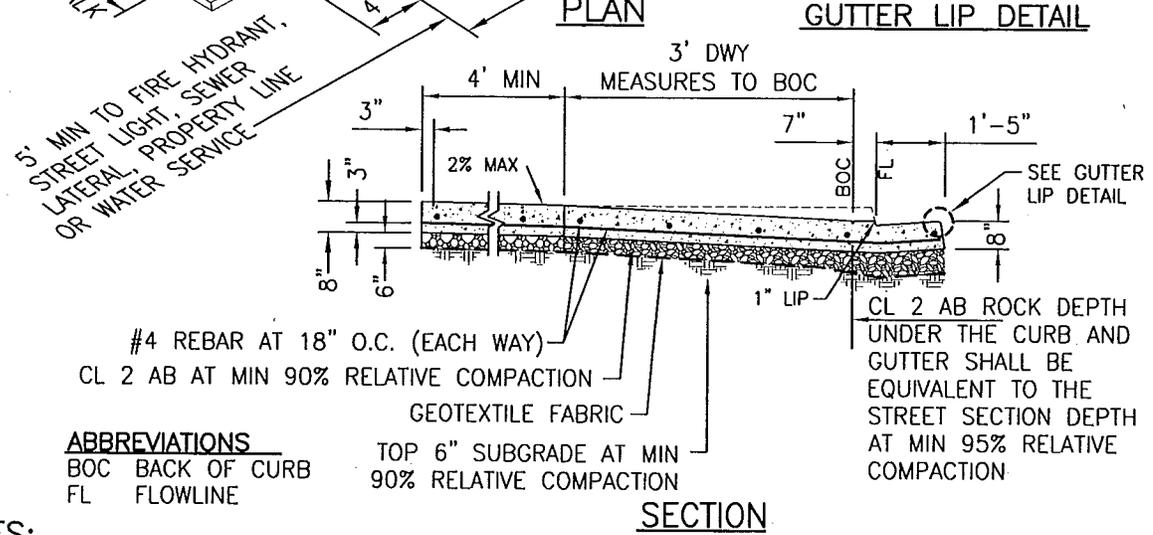
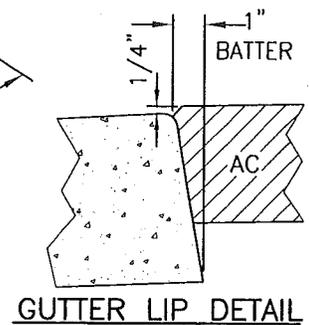
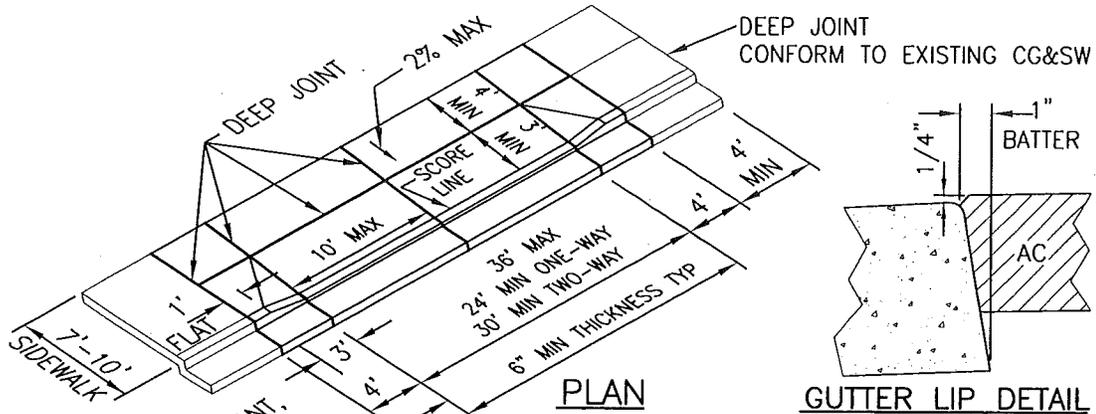
DWG File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\3-13A.dwg



DRAWING NO.: 3-13A
 DATE: REVISED ON 04/22/11
 SCALE: NONE
 APPROVED BY:
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

**CITY OF VACAVILLE
 STANDARD DRAWING**

COMMERCIAL DRIVEWAY



#4 REBAR AT 18" O.C. (EACH WAY)
 CL 2 AB AT MIN 90% RELATIVE COMPACTION
 GEOTEXTILE FABRIC
 TOP 6" SUBGRADE AT MIN 90% RELATIVE COMPACTION
 CL 2 AB ROCK DEPTH UNDER THE CURB AND GUTTER SHALL BE EQUIVALENT TO THE STREET SECTION DEPTH AT MIN 95% RELATIVE COMPACTION

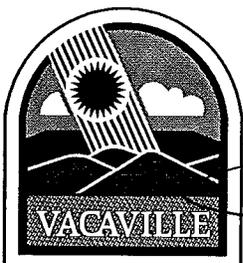
ABBREVIATIONS

BOC BACK OF CURB
 FL FLOWLINE

NOTES:

1. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
2. UNLESS OTHERWISE PERMITTED, REPLACE PAVEMENT PER CITY STANDARD DRAWING 3-20A, "EXISTING STREET" A MINIMUM OF 12" BEYOND ALL EDGES.
3. ANY CURB, GUTTER AND SIDEWALK AREA TO BE REPLACED SHALL BE DOWELLED TO EXISTING CURB WITH #4 REBAR AT 2' O.C., MIN 9" LONG WITH 3" MIN EMBEDMENT.
4. REMOVAL OF EXISTING SIDEWALK, CURB OR GUTTER TO BE MADE TO NEAREST SCORE LINE OR DEEP JOINT.
5. SCORE LINES SHALL BE 1/4" DEEP.
6. DEEP JOINTS SHALL BE 1" MIN DEEP EXTENDING THROUGH CURB AND GUTTER.
7. DEEP JOINTS SHALL ALSO BE LOCATED AT CURB RETURNS, AT EACH EDGE OF UTILITY BOXES, STREET LIGHTS AND AT EACH END OF DRIVEWAYS AND CENTER OF DRIVEWAY.

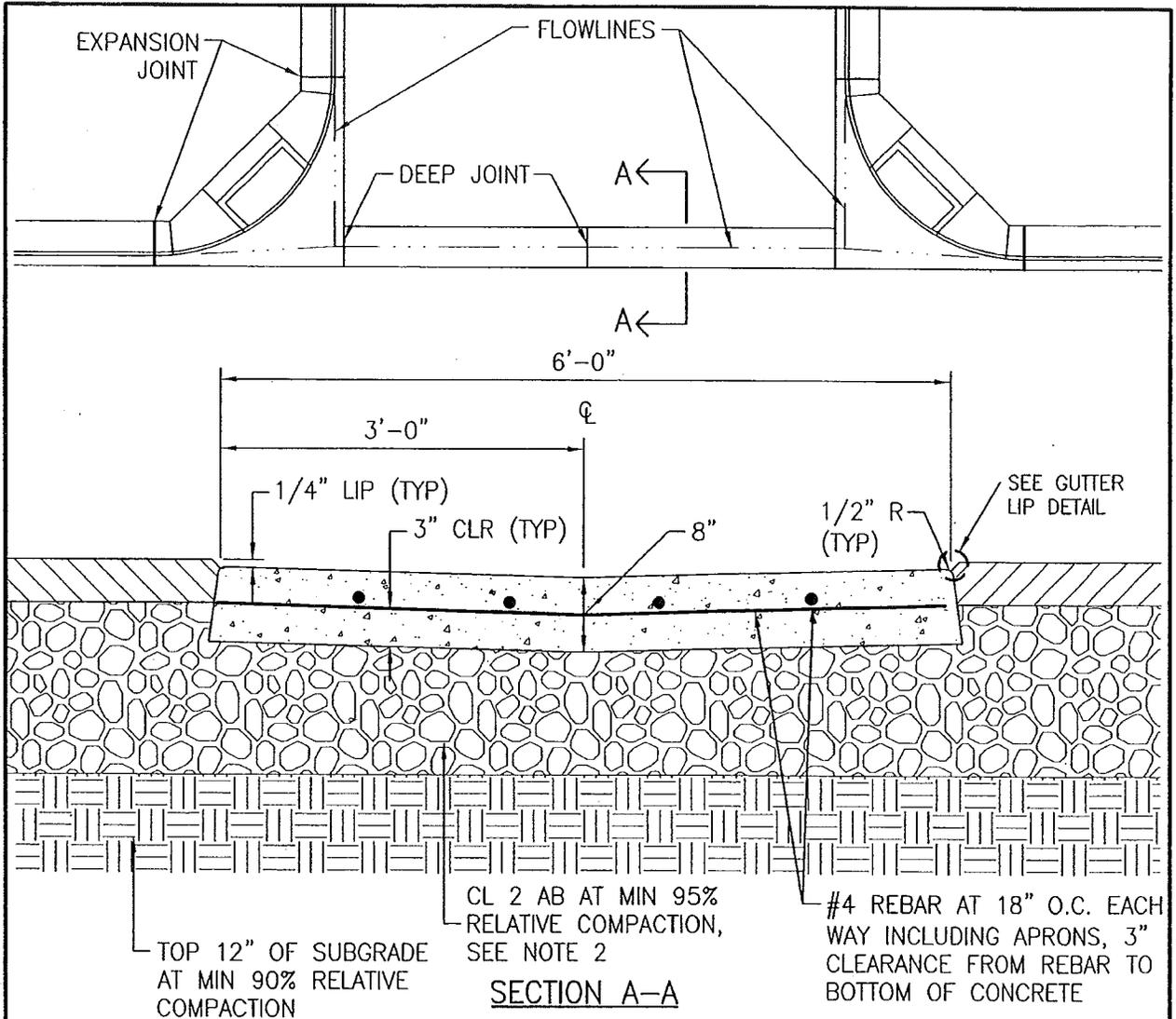
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DRAWING NO.: 3-13B
 DATE: REVISED ON 04/22/11
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

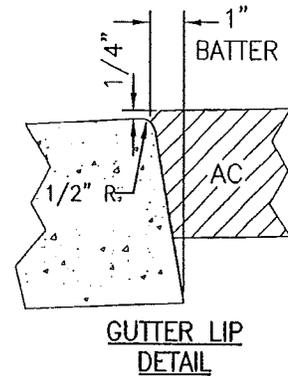
**CITY OF VACAVILLE
 STANDARD DRAWING**

**COMMERCIAL DRIVEWAY
 RETROFIT**



NOTES:

1. MINIMUM SLOPE OF FLOWLINE IS $S=0.005$
2. CL 2 AB THICKNESS SHALL BE EQUAL TO STREET SECTION, BUT IN NO CASE SHALL BE LESS THAN 8".
3. VALLEY GUTTERS SHALL NOT BE ALLOWED ON THROUGH STREETS.
4. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.



DRAWING NO.: 3-14

DATE: 6/14/05

SCALE: NONE

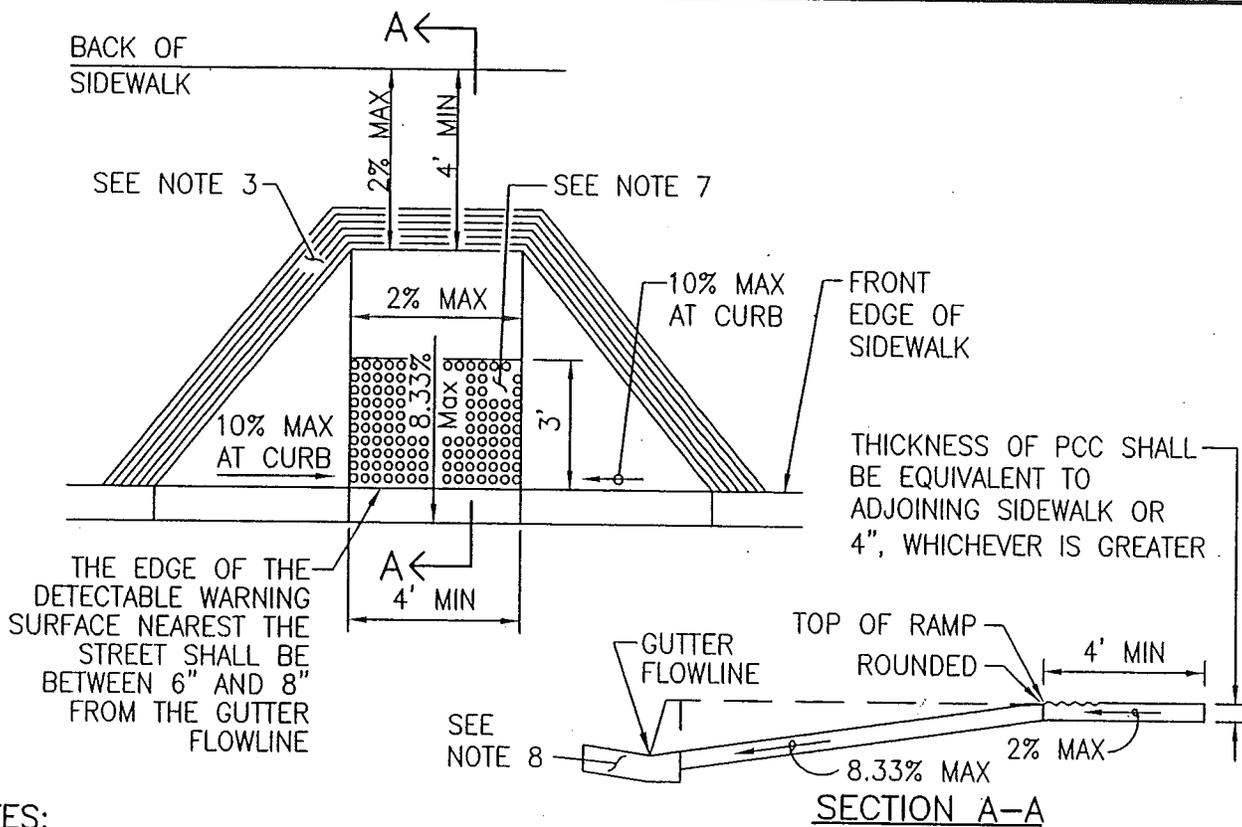
APPROVED BY: *Paul H. ...*

R.C.E. C59003

DEPUTY DIRECTOR OF PUBLIC WORKS
ENGINEERING SERVICES

**CITY OF VACAVILLE
STANDARD DRAWING**

VALLEY GUTTER



NOTES:

1. FLOWLINE RADIUS SHALL BE 27' FOR RESIDENTIAL AND COLLECTOR STREETS UNLESS OTHERWISE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
2. FLOWLINE RADIUS FOR ARTERIAL AND INDUSTRIAL STREETS SHALL BE 50' UNLESS OTHERWISE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS. RAMP LOCATION MAY VARY.
3. RAMPS SHALL HAVE 12" WIDE BORDER OUTSIDE THE SLOPE OF THE RAMP, WITH 1/4" GROOVES, 3/4" ON CENTER. SEE GROOVING DETAIL ON CITY STANDARD DRAWING 3-15D.
4. RAMP SIDE SLOPES MAY VARY UNIFORMLY UP TO A MAXIMUM OF 10% AT TOP BACK OF CURB.
5. SURFACE OF RAMP SHALL HAVE A TRAVERSE BROOMED SURFACE CONTRASTING WITH THE SURROUNDING SIDEWALK.
6. TOP 6" OF SUBGRADE UNDER RAMP AT MIN 90% RELATIVE COMPACTION. CL 2 AGGREGATE BASE (AB) ROCK SHALL BE EQUIVALENT TO ADJOINING SIDEWALK OR 4", WHICHEVER IS GREATER. COMPACT AB TO 90% RELATIVE COMPACTION.
7. ALL RAMPS SHALL HAVE INLINE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3' MIN DEPTH OF THE RAMP PER CITY STANDARD DRAWING 3-15D.
8. MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE CURB RAMP.
9. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
10. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.



DRAWING NO.: 3-15A

DATE: 6/14/05

SCALE: NONE

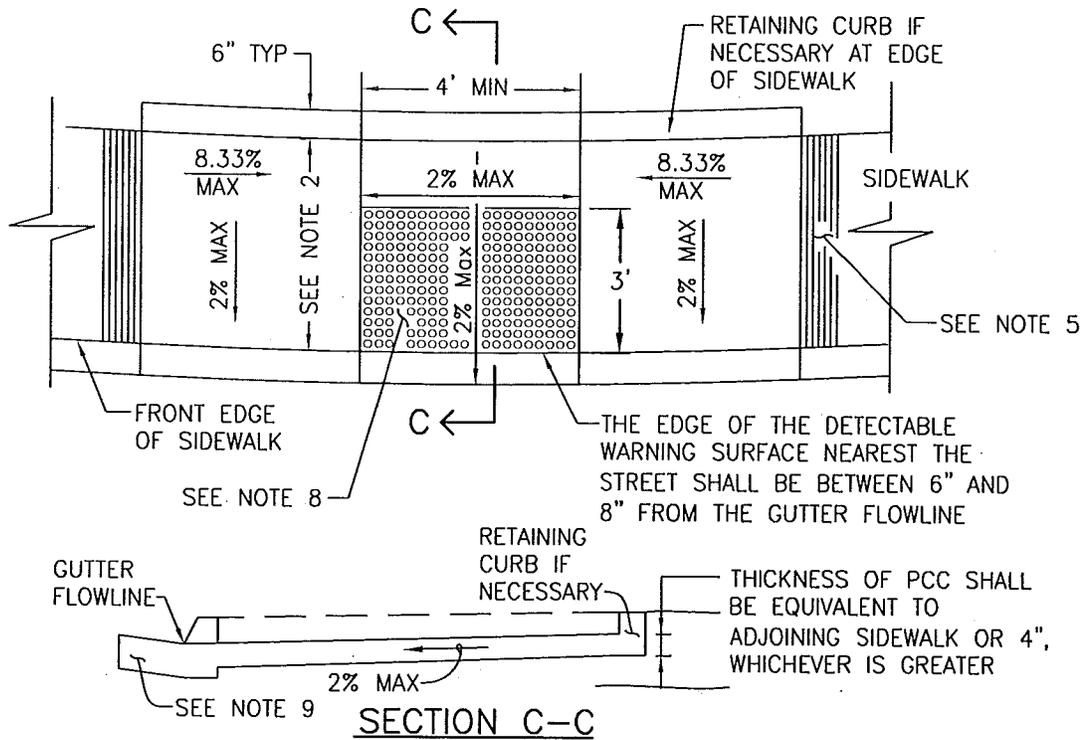
APPROVED BY: *Paul H. ...*

R.C.E. C59003

DEPUTY DIRECTOR OF PUBLIC WORKS
ENGINEERING SERVICES

**CITY OF VACAVILLE
STANDARD DRAWING**

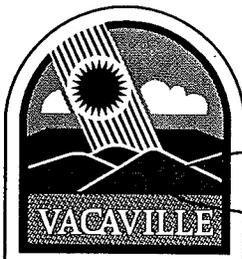
**ACCESSIBLE RAMP
TYPE "A"**



NOTES:

1. THIS RAMP TO BE USED ONLY WITH THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
2. THIS WIDTH SHALL NOT BE LESS THAN THE ADJOINING SIDEWALK WIDTH AND IN NO CASE LESS THAN 4 FEET.
3. FLOWLINE RADIUS SHALL BE 27' FOR LOCAL AND COLLECTOR STREETS UNLESS OTHERWISE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
4. FLOWLINE RADIUS FOR ARTERIAL AND INDUSTRIAL STREETS SHALL BE 50' UNLESS OTHERWISE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS.
5. RAMPS SHALL HAVE 12" WIDE BORDER OUTSIDE THE SLOPE OF THE RAMP, WITH 1/4" GROOVES, 3/4" ON CENTER. SEE GROOVING DETAIL ON CITY STANDARD DRAWING 3-15D.
6. SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE.
7. COMPACT TOP 6" OF SUBGRADE UNDER RAMP TO 90% RELATIVE COMPACTION. AGGREGATE BASE (AB) SHALL BE EQUIVALENT TO ADJOINING SIDEWALK OR 4", WHICHEVER IS GREATER. COMPACT AB TO 90% RELATIVE COMPACTION.
8. ALL RAMPS SHALL HAVE INLINE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3' MIN DEPTH OF THE RAMP PER CITY STANDARD DRAWING 3-15D.
9. MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE CURB RAMP.
10. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
11. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

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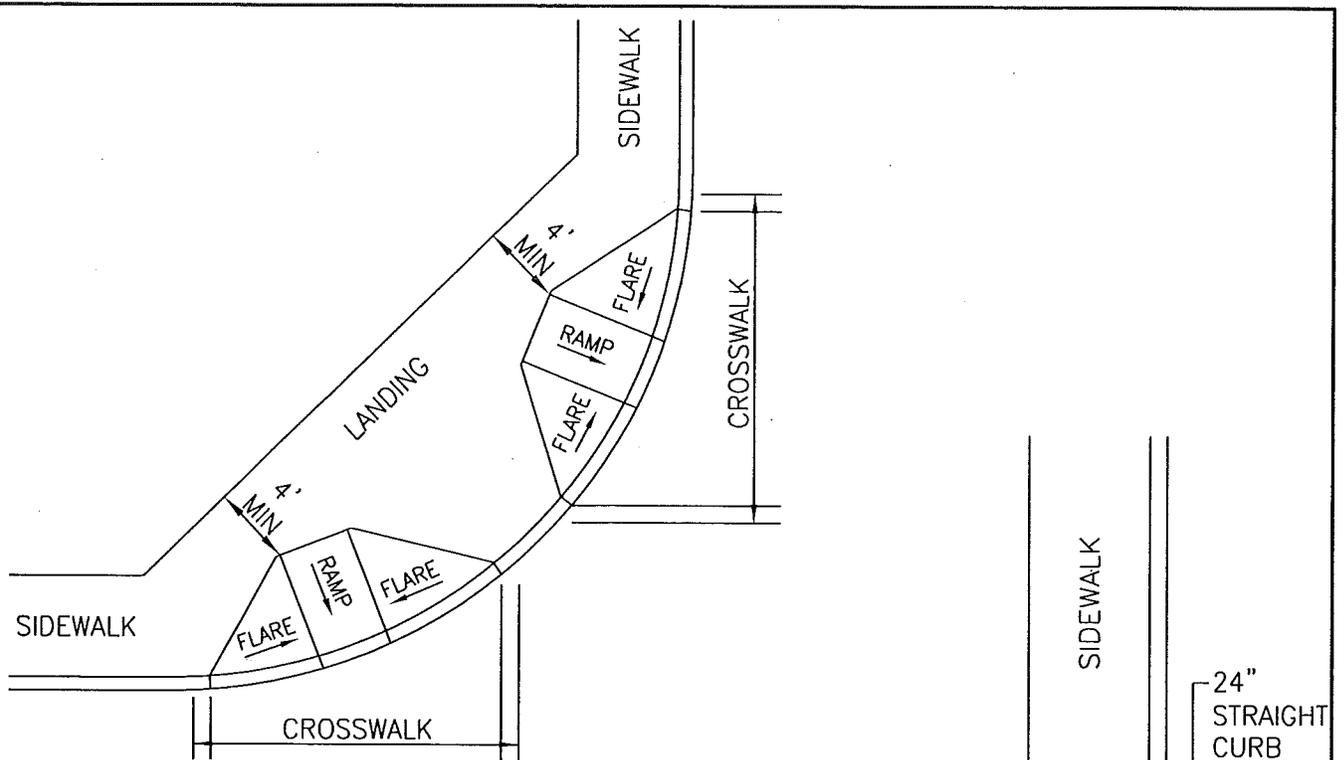


DRAWING NO.:	3-15B
DATE:	REVISED ON 04/22/11
SCALE:	NONE
APPROVED BY:	
	R.C.E. 38521
	DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

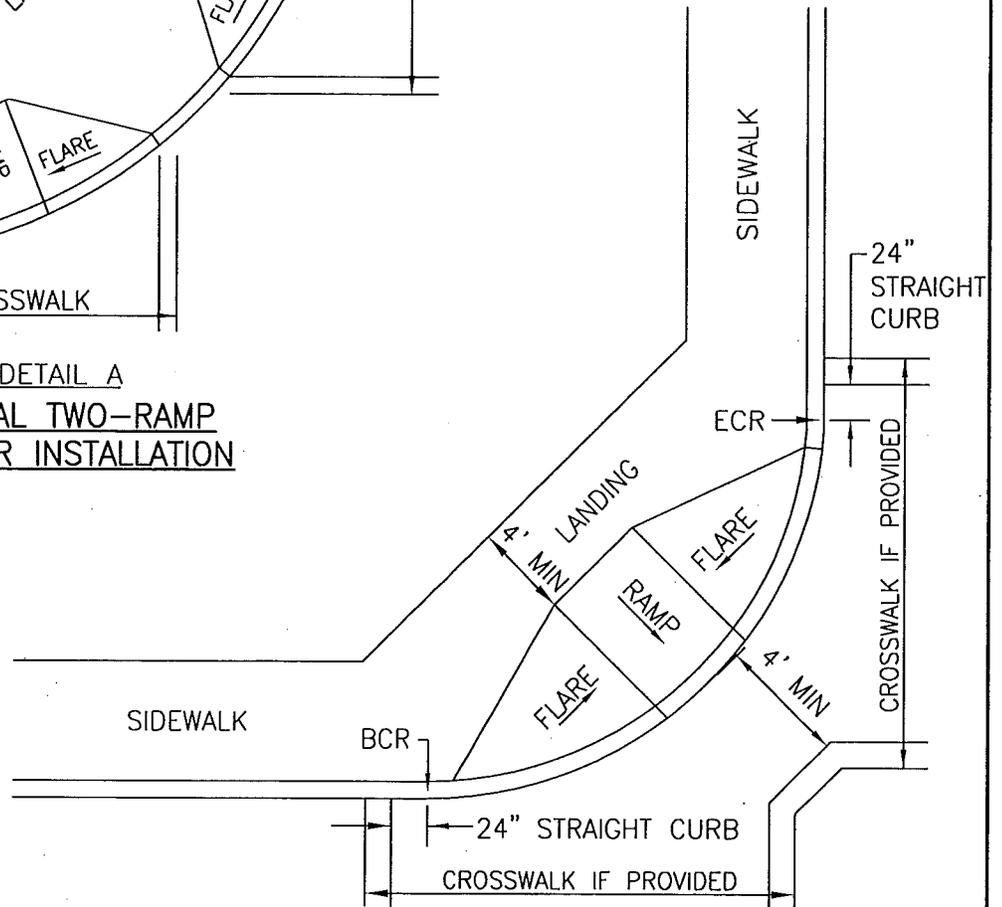
**CITY OF VACAVILLE
STANDARD DRAWING**

**RETROFIT ACCESSIBLE RAMP
TYPE "B"**

DWG File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\3-15C.dwg



DETAIL A
TYPICAL TWO-RAMP
CORNER INSTALLATION



DETAIL B
TYPICAL ONE-RAMP
CORNER INSTALLATION

NOTE:

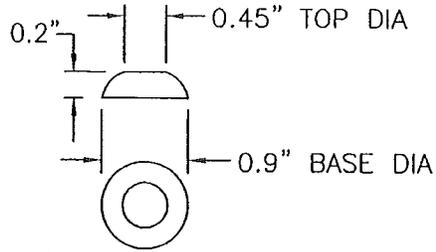
1. RAMP IS LOCATED IN CENTER OF CURB RETURN FOR DETAIL B.
2. FOR RAMP CONSTRUCTION DETAILS SEE DRAWINGS 3-15A & 3-15B.



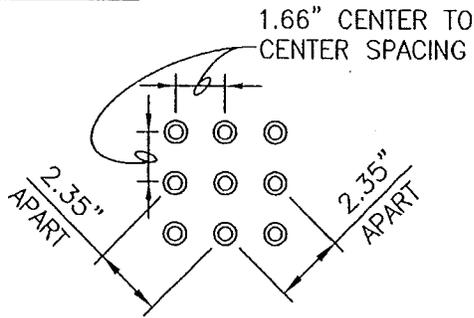
DRAWING NO.:	3-15C
DATE:	REVISED ON 04/22/11
SCALE:	NONE
APPROVED BY:	
	R.C.E. 38521
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER	

CITY OF VACAVILLE
STANDARD DRAWING

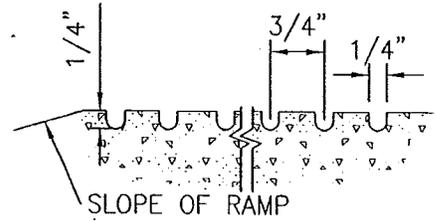
ACCESSIBLE RAMP
CORNER INSTALLATION



RAISED TRUNCATED DOME



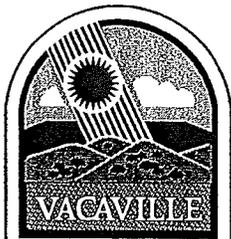
RAISED TRUNCATED DOME
PATTERN (IN-LINE)
DETECTABLE
WARNING SURFACE



GROOVING DETAIL

NOTES:

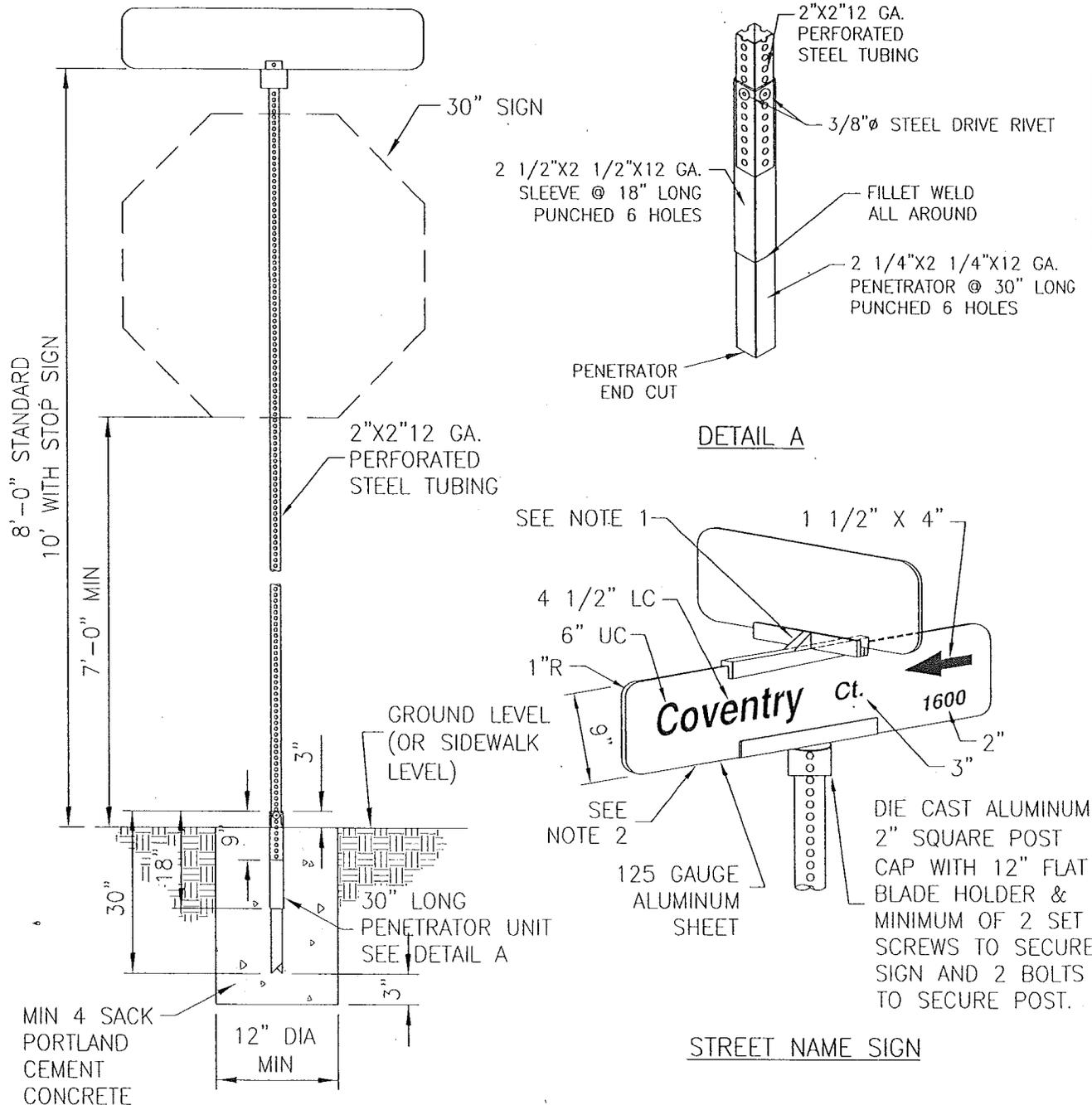
1. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3' DEPTH OF THE RAMP.
2. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.



DRAWING NO.:	3-15D
DATE:	6/14/05
SCALE:	NONE
APPROVED BY:	<i>Paul A. Deere</i> R.C.E. C59003
DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

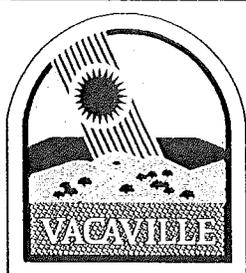
**CITY OF VACAVILLE
STANDARD DRAWING**

DETECTABLE WARNING SURFACE



NOTES:

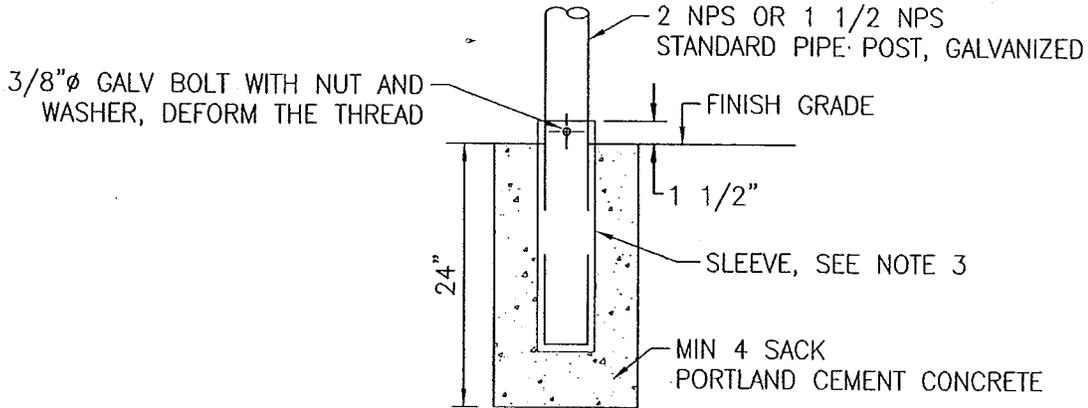
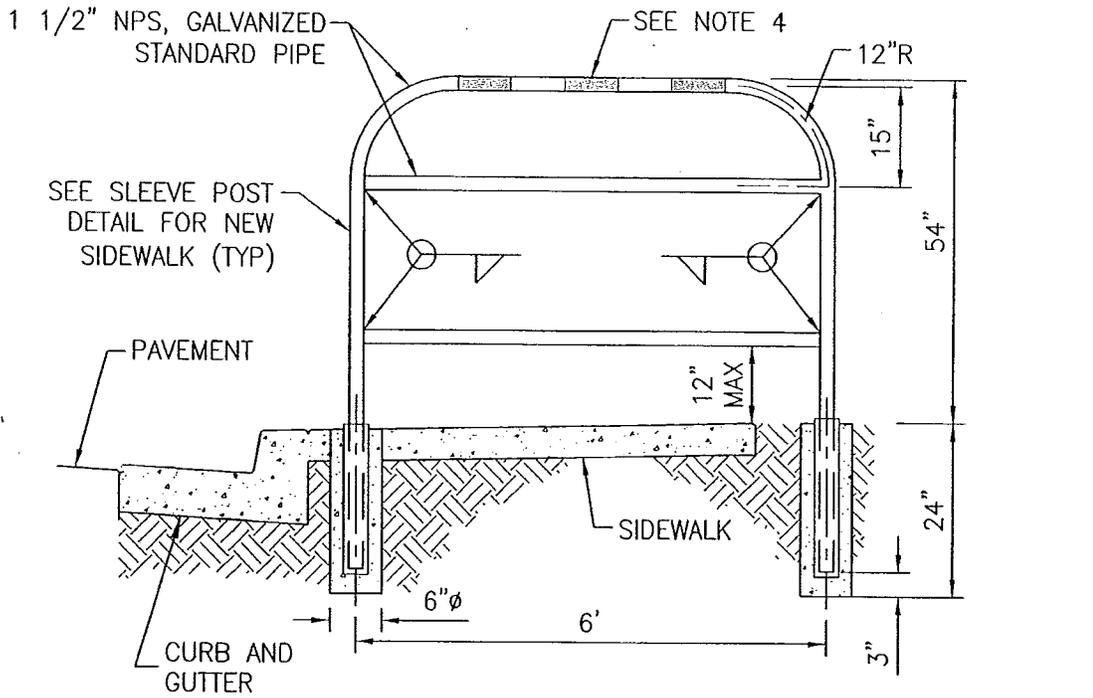
1. DIE CAST ALUMINUM 90° CROSS PIECE SADDLE WITH 12" FLAT BLADE HOLDER & MINIMUM OF 4 SET SCREW TO SECURE SIGN.
2. SCOTCHLITE GREEN WITH WHITE LETTERS (PRA SERIES C LETTERS AND NUMBERS) USE 3M HIGH INTENSITY GRADE PRISMATIC (HIP) SHEETING OR EQUIVALENT; MINIMUM SHALL MEET ASTM TYPE III AND IV SPECIFICATIONS AND NOT EXCEED 36" IN LENGTH UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



DRAWING NO.:	3-16
DATE:	03-11-08
SCALE:	NONE
APPROVED BY:	<i>[Signature]</i>
	R.C.E. C24974
DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

**CITY OF VACAVILLE
STANDARD DRAWING**

TRAFFIC SIGNS



SLEEVE POST DETAIL

NOTES:

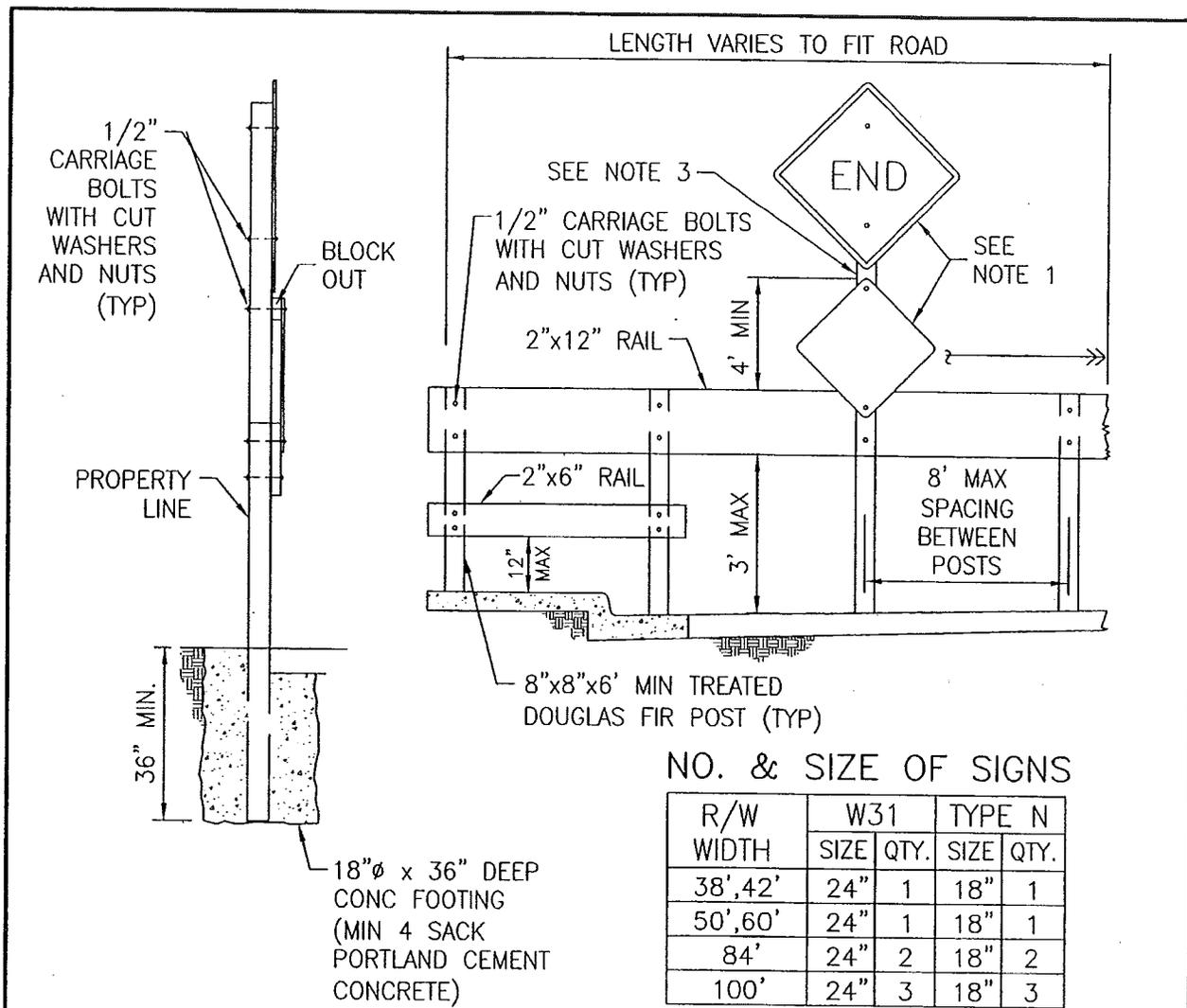
1. SIDEWALK BARRICADES TO BE ERECTED AT EACH LOCATION WHERE SATISFACTORY PROVISION CAN NOT BE MADE FOR PEDESTRIANS TO CONTINUE BEYOND THE TERMINUS OF A SIDEWALK.
2. FOR MINIMUM PIPE DIAMETERS AND WALL THICKNESS, REFER TO ASTM A6M.
3. STEEL SLEEVE TO BE CONSTRUCTED WITH A DIAMETER 1/10" LARGER THAN POST. WALL THICKNESS OF SLEEVE TO BE SAME AS POST OR LARGER.
4. APPLY 3" WIDE BAND OF YELLOW "SCOTCHLITE" ADHESIVE.



DRAWING NO.: 3-17
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *R. C. E.*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

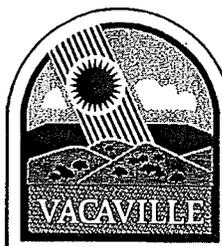
**CITY OF VACAVILLE
 STANDARD DRAWING**

END OF SIDEWALK BARRICADE



NOTES:

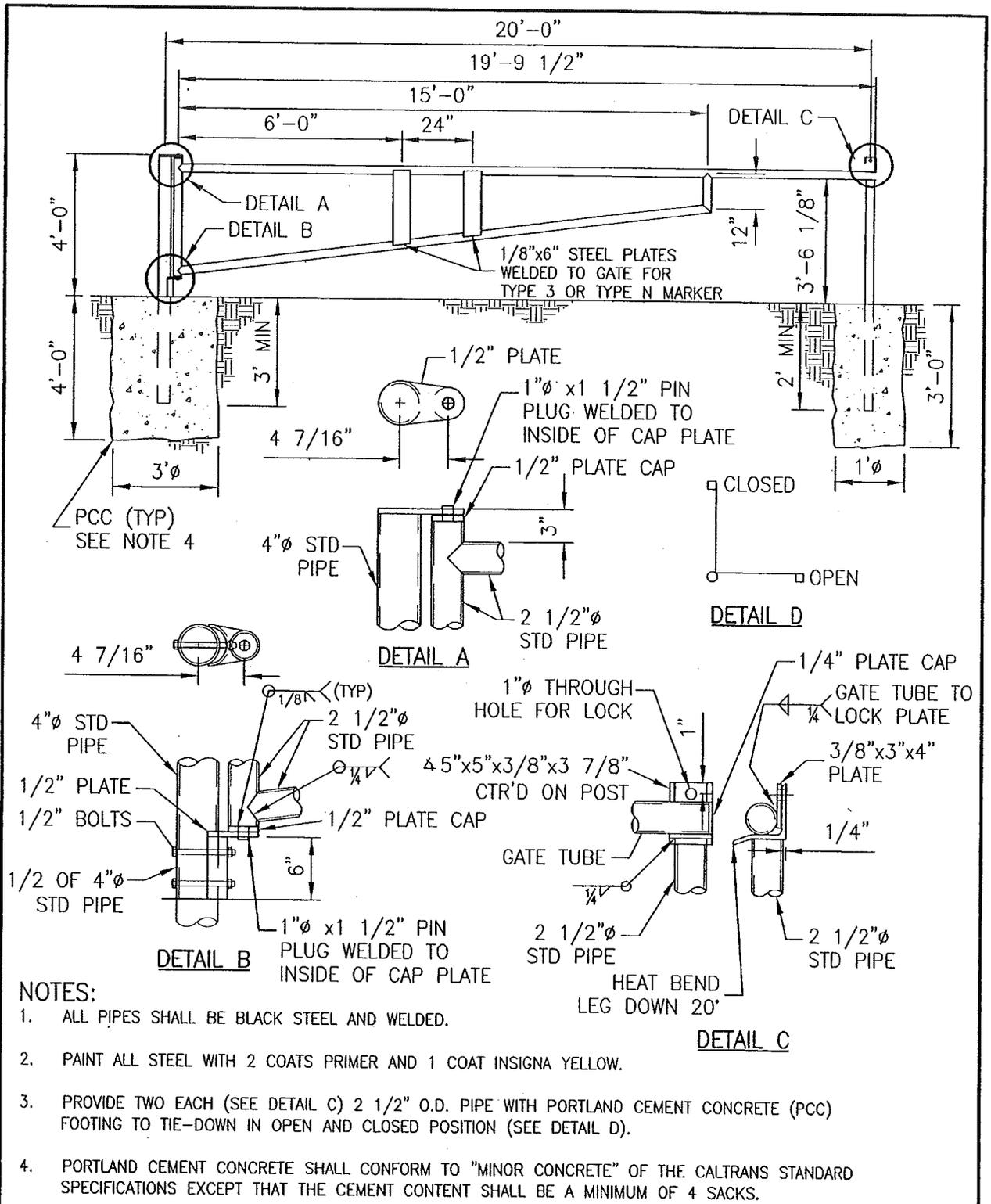
1. 24"x24" W31 SIGN AND 18"x18" RED TYPE N-2 MARKER. BLOCK OUT AS NECESSARY FOR SIGN TOP MOUNTING BOLT. (BOTTOM MOUNTING BOLT NORMALLY THROUGH BARRIER RAIL.)
2. ALL EXPOSED SURFACES SHALL BE PRIME COATED AND PAINTED WITH WHITE PAINT CONFORMING TO STATE STANDARD SPECIFICATION 91-3.
3. POST AT CENTER OF ROAD OR NEAREST TO CENTER OF LANE OR TRAVEL WAY ON RIGHT HAND SIDE TO BE EXTENDED TO PROVIDE MOUNTING FOR SIGNS.
4. RED TYPE N MARKERS TO HAVE SOLID RED REFLECTIVE BACKGROUND WITHOUT ADDED REFLECTORS.



DRAWING NO.: 3-18
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

**CITY OF VACAVILLE
 STANDARD DRAWING**

END OF STREET BARRICADE



DRAWING NO.: 3-19

DATE: 6/14/05

SCALE: NONE

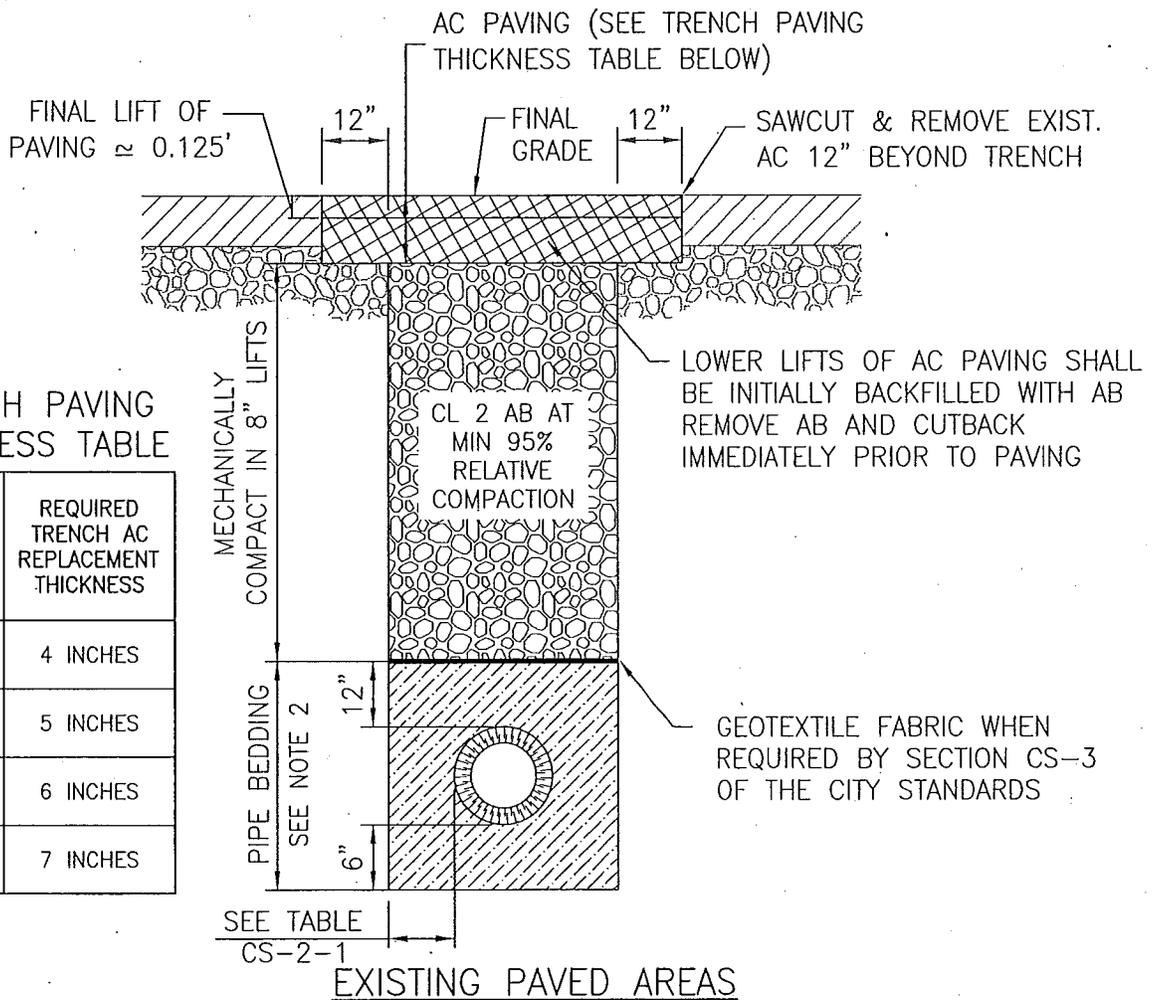
APPROVED BY:

Frank J. Horn R.C.E. C59003

DEPUTY DIRECTOR OF PUBLIC WORKS
ENGINEERING SERVICES

CITY OF VACAVILLE
STANDARD DRAWING

ACCESS GATE



TRENCH PAVING THICKNESS TABLE

EXISTING AC THICKNESS	REQUIRED TRENCH AC REPLACEMENT THICKNESS
≤ 3 INCHES	4 INCHES
4 INCHES	5 INCHES
5 INCHES	6 INCHES
≥ 6 INCHES	7 INCHES

NOTES:

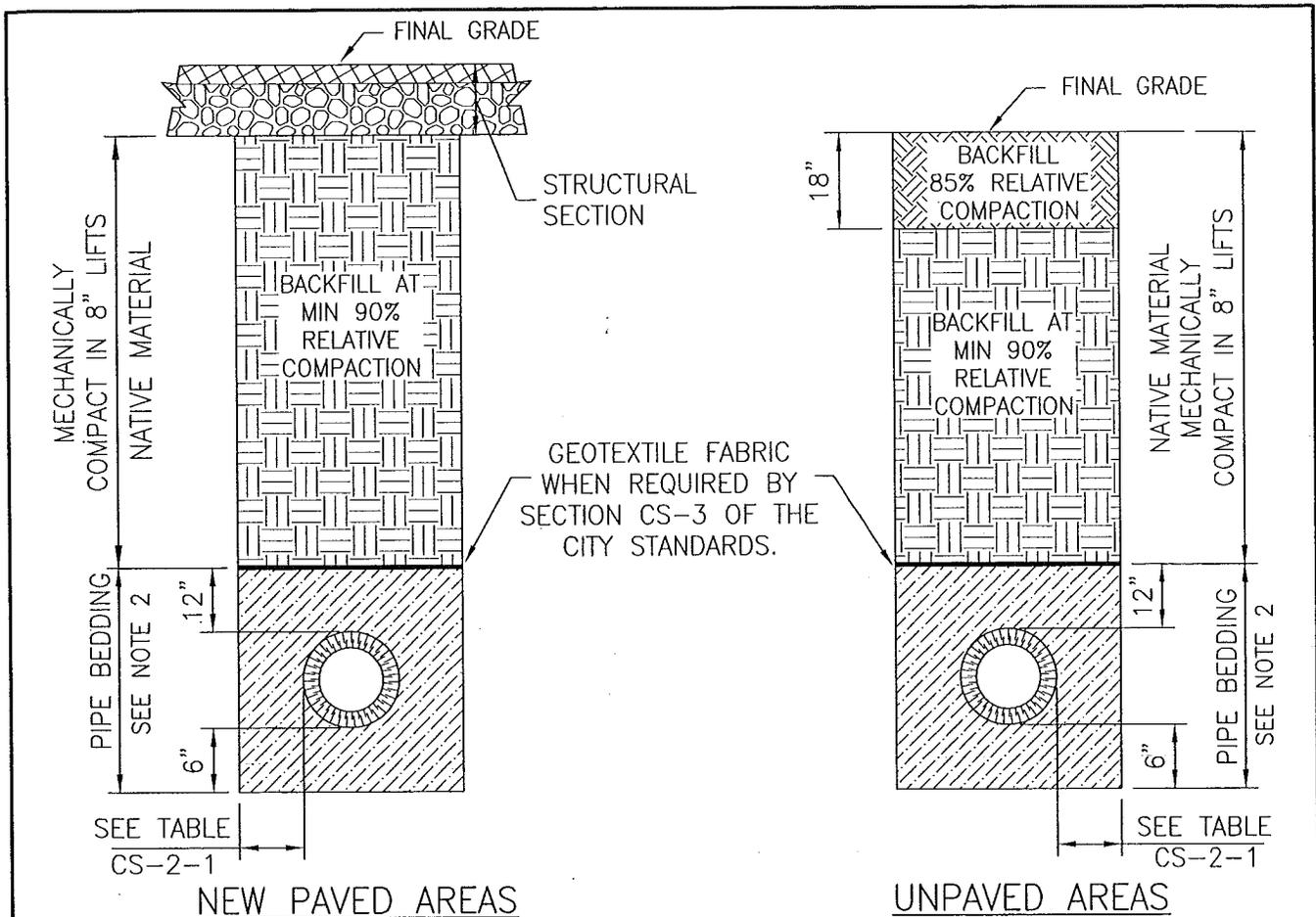
- TEMPORARY CUTBACK SHALL BE PLACED IMMEDIATELY AFTER BACKFILL AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVING IS INSTALLED. THICKNESS OF THE TEMPORARY CUTBACK SHALL BE APPROXIMATELY 1.0 INCH BUT NO MORE THAN 1.5 INCHES. PERMANENT PATCH TO BE PLACED NOT EARLIER THAN 7 DAYS AND NO LATER THAN 30 DAYS FOLLOWING PLACEMENT OF TEMPORARY CUTBACK. PRIOR TO PERMANENT PATCH, REMOVE EXIST. AC TO THE DIMENSIONS SHOWN FOR A NEAT EDGE AND TACK EXIST. AC PRIOR TO RE-PAVING.
- AS SPECIFIED IN SECTION CS-3 "TRENCH FOUNDATION, BEDDING & BACKFILL" OF THE CITY STANDARDS, BEDDING MATERIAL FOR DUCTILE IRON PIPE AND ALL WATER SERVICE PIPE SHALL BE SAND. THE SAND SHALL BE CONSOLIDATED BY MOISTURE CONDITIONING. THE MOISTURE CONTENT OF THE SAND SHALL BE BETWEEN 2%-4% ABOVE OPTIMUM MOISTURE. BEDDING MATERIAL SHALL BE CRUSHED ROCK FOR ALL OTHER SEWER AND DRAINAGE UTILITIES. SEE CITY STANDARDS FOR ALL OTHER UTILITIES.
- IF SAND BEDDING IS REQUIRED, THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER MAY REQUIRE THE CONTRACTOR TO PLACE GEOTEXTILE FABRIC AND CRUSHED ROCK TO MAINTAIN THE GROUND WATER LEVEL BELOW PIPE LAYING OPERATIONS.
- CONTRACTOR TO PLACE SPECIAL FOUNDATION TREATMENT IN ACCORDANCE WITH SECTIONS CS-2 AND CS-3 OF THE CITY STANDARDS. GEOTEXTILE FABRIC MAY BE REQUIRED AS PART OF THE FOUNDATION TREATMENT, SEE CITY STANDARDS.



DRAWING NO.:	3-20A
DATE:	11/22/06
SCALE:	NONE
APPROVED BY:	<i>[Signature]</i>
	R.C.E. C24974
	DIRECTOR OF PUBLIC WORKS

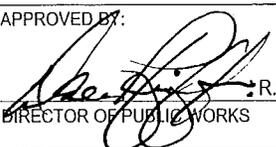
CITY OF VACAVILLE
STANDARD DRAWING

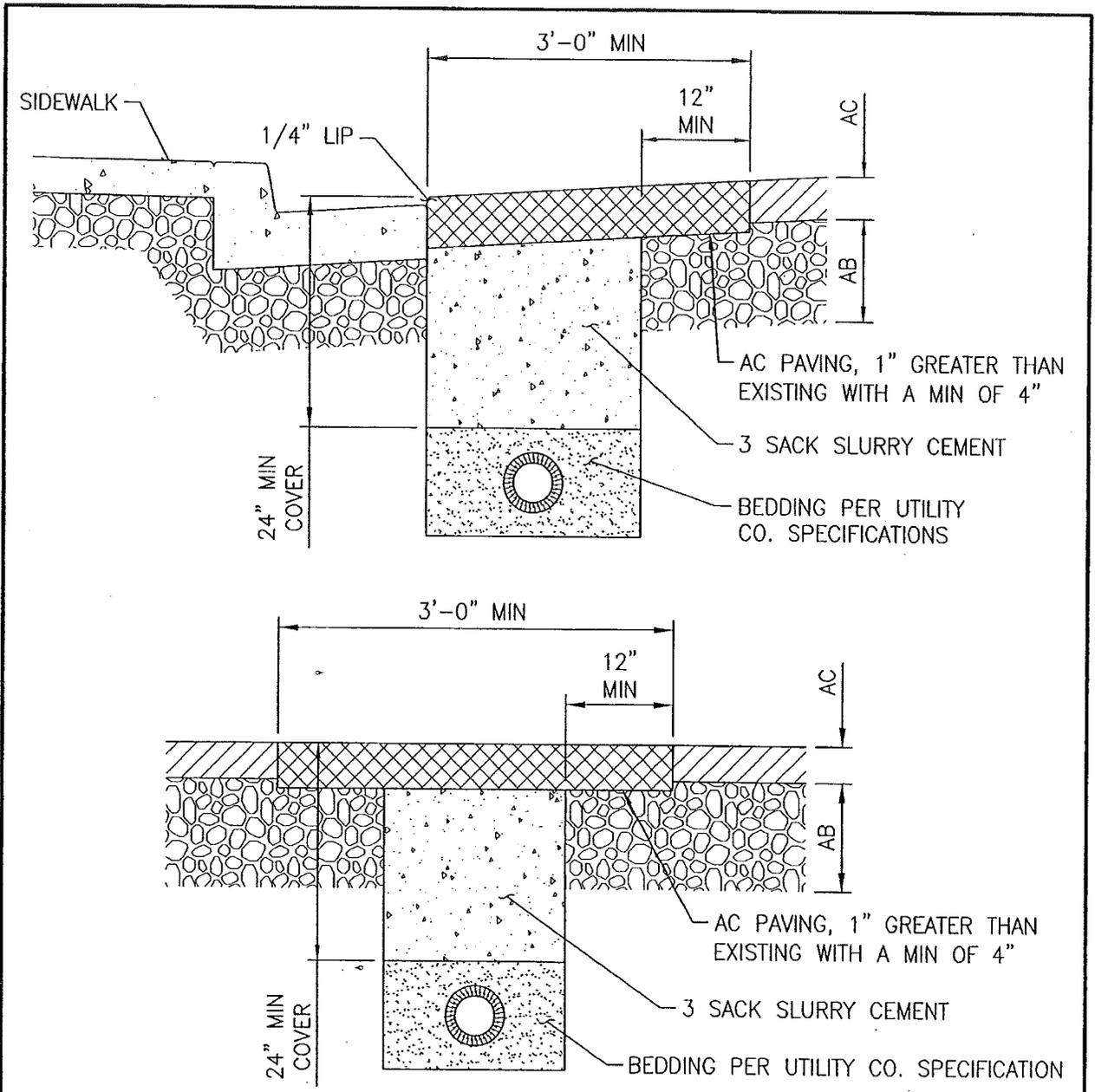
TRENCH BACKFILL
IN EXISTING
PAVED AREAS



NOTES:

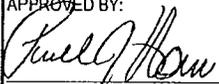
1. USE "NEW PAVED AREAS" DETAIL WHEN CONSTRUCTING UTILITIES IN A FUTURE ROAD RIGHT OF WAY OR WHEN THE FINISHED SURFACE SHALL BE PAVED. USE "UNPAVED AREAS" DETAIL WHEN THE FINISHED SURFACE WILL NOT BE PAVED.
2. AS SPECIFIED IN SECTION CS-3 "TRENCH FOUNDATION, BEDDING & BACKFILL" OF THE CITY STANDARDS, BEDDING MATERIAL FOR DUCTILE IRON PIPE AND ALL WATER SERVICE PIPE SHALL BE SAND. THE SAND SHALL BE CONSOLIDATED BY MOISTURE CONDITIONING. THE MOISTURE CONTENT OF THE SAND SHALL BE BETWEEN 2%-4% ABOVE OPTIMUM MOISTURE. BEDDING MATERIAL SHALL BE CRUSHED ROCK FOR ALL OTHER SEWER AND DRAINAGE UTILITIES. SEE CITY STANDARDS FOR ALL OTHER UTILITIES.
3. IF SAND BEDDING IS REQUIRED, THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER MAY REQUIRE THE CONTRACTOR TO PLACE GEOTEXTILE FABRIC AND CRUSHED ROCK TO MAINTAIN THE GROUND WATER LEVEL BELOW PIPE LAYING OPERATIONS.
4. CONTRACTOR TO PLACE SPECIAL FOUNDATION TREATMENT IN ACCORDANCE WITH SECTIONS CS-2 AND CS-3 OF THE CITY STANDARDS. GEOTEXTILE FABRIC MAY BE REQUIRED AS PART OF THE FOUNDATION TREATMENT.

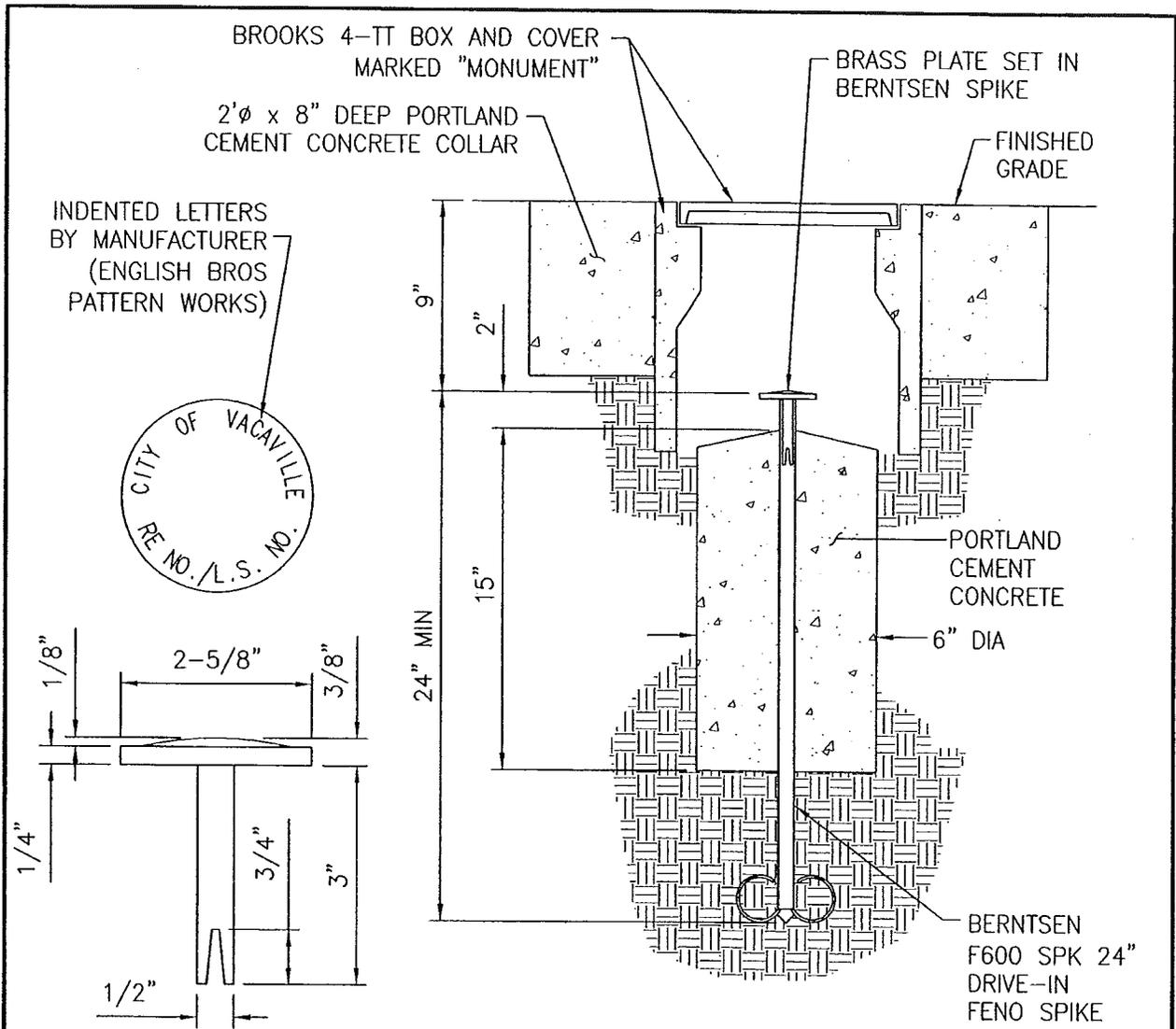
	DRAWING NO.: 3-20B	<h2 style="margin: 0;">CITY OF VACAVILLE</h2> <h3 style="margin: 0;">STANDARD DRAWING</h3> <h3 style="margin: 0;">TRENCH BACKFILL</h3> <h3 style="margin: 0;">NEW PAVED AREAS</h3> <h3 style="margin: 0;">AND UNPAVED AREAS</h3>
	DATE: 5/09/06	
	SCALE: NONE	
	APPROVED BY:  R.C.E. C24974 DIRECTOR OF PUBLIC WORKS	



NOTES:

1. TRENCH PLATES SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT PAVING IS COMPLETE.
2. THIS DETAIL DOES NOT APPLY TO ROCKWHEEL TRENCHING. SEE REQUIREMENTS IN CITY STANDARDS FOR ROCKWHEEL TRENCHING.

	DRAWING NO.: 3-21	CITY OF VACAVILLE STANDARD DRAWING
	DATE: 6/14/05	
	SCALE: NONE	UTILITY COMPANY CONDUIT TRENCH BACKFILL
	APPROVED BY:  R.C.E. C59003 DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	



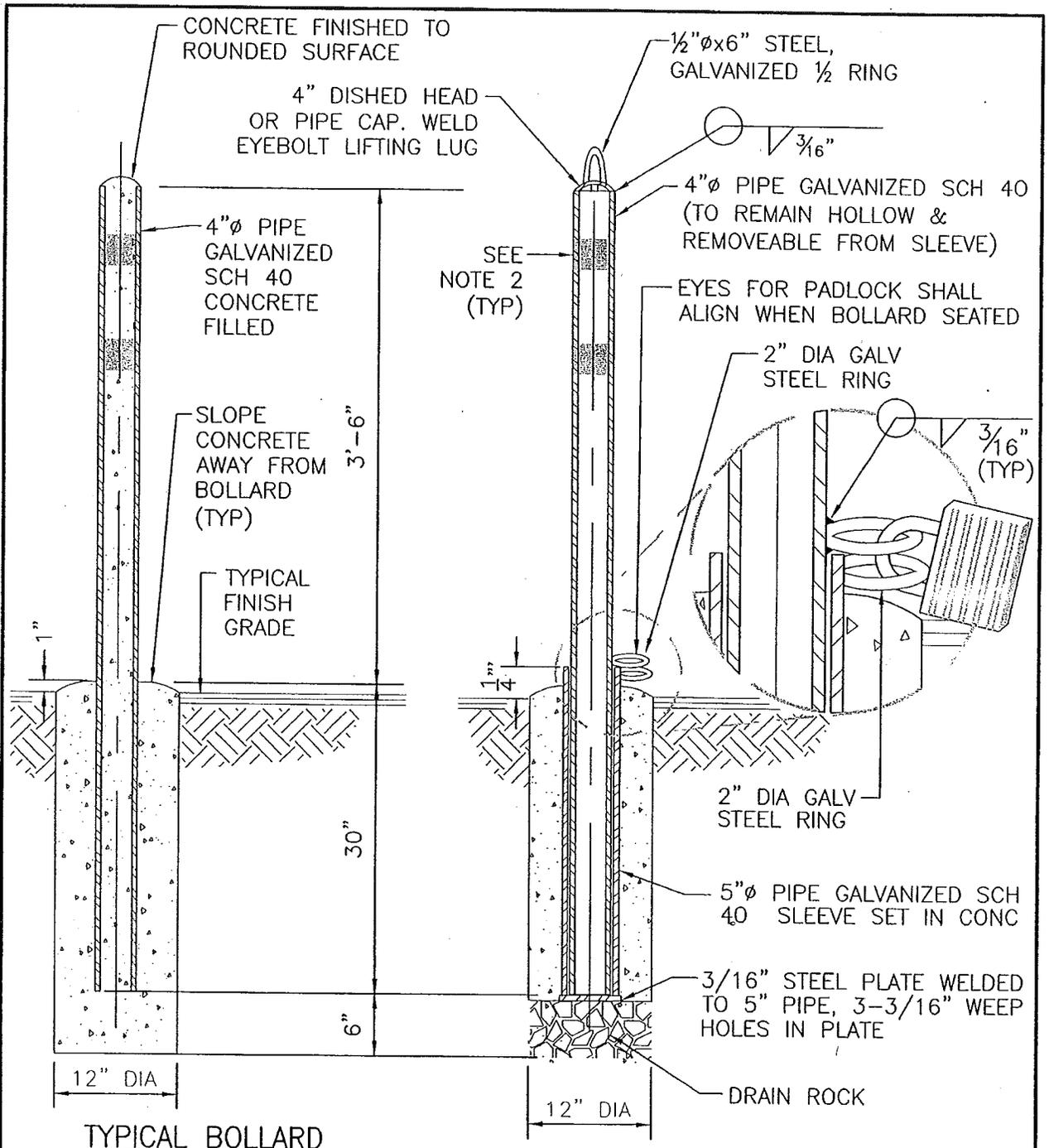
DETAIL OF CAST BRASS SURVEY MONUMENT PLATE

STANDARD MONUMENT INSTALLATION

NOTES:

1. ENGINEER'S OR LAND SURVEYOR'S REGISTRATION NUMBER AND YEAR SHALL BE STAMPED ON PLATE.
2. MONUMENT MARK TO BE A 1/8" (3mm) DRILLED HOLE OR A WELL DEFINED CROSS PLACED WITHIN THE CLEAR CENTER AREA OF THE PLATE.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

	DRAWING NO.: 3-22	<p>CITY OF VACAVILLE STANDARD DRAWING</p> <hr/> <p>STANDARD MONUMENT</p>
	DATE: 6/14/05	
	SCALE: NONE	
	APPROVED BY:	
	R.C.E. C59003 DEPUTY DIRECTOR OF PUBLIC WORKS ENGINEERING SERVICES	

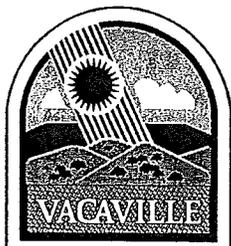


TYPICAL BOLLARD

REMOVABLE BOLLARD

NOTES:

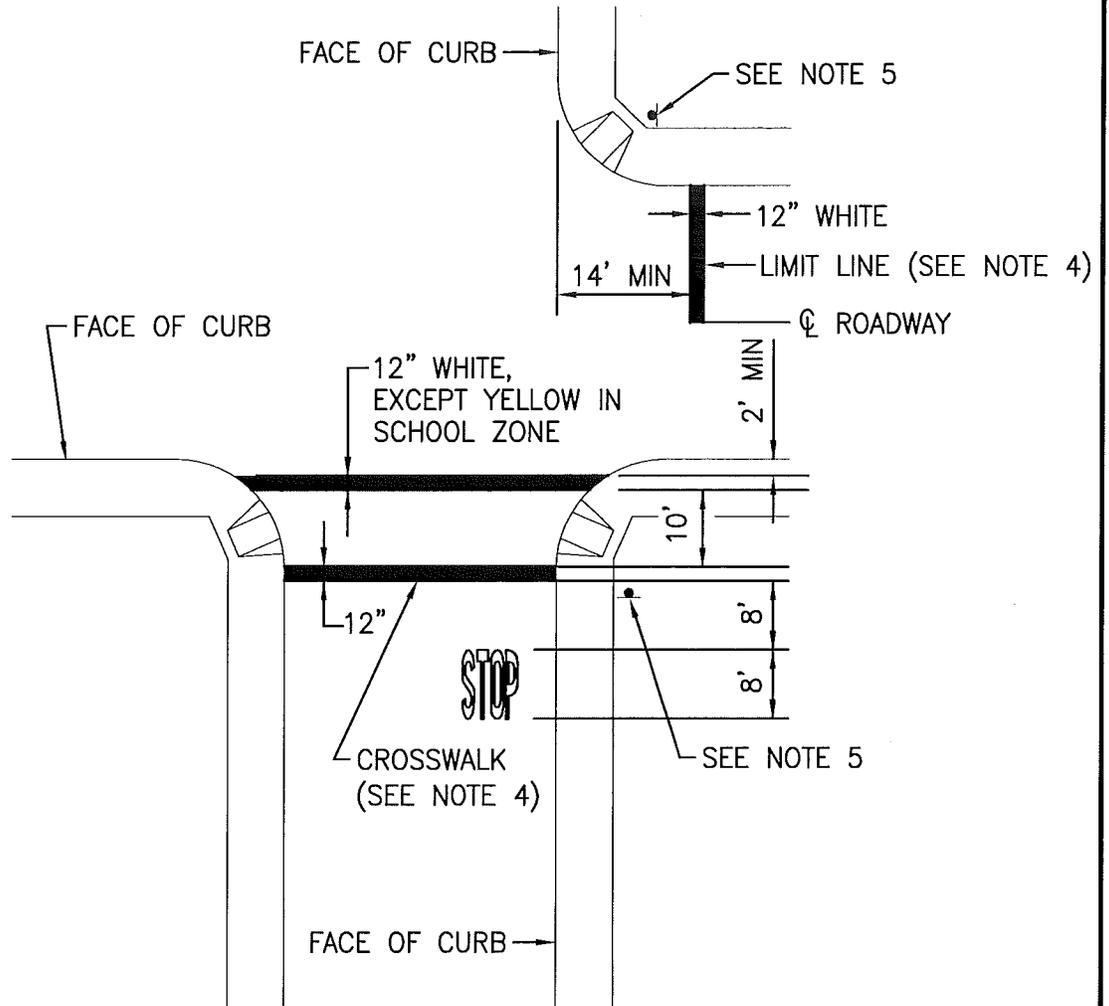
1. APPLY ZINC PRIMER AFTER WELDING AS NEEDED.
2. APPLY 3" WIDE BAND OF YELLOW "SCOTCHLITE" ADHESIVE.



DRAWING NO.: 3-23
 DATE: 6/14/05
 SCALE: NONE
 APPROVED BY: *Joe Han* R.C.E. C59003
 DEPUTY DIRECTOR OF PUBLIC WORKS
 ENGINEERING SERVICES

CITY OF VACAVILLE
STANDARD DRAWING

BOLLARD



NOTES:

1. CROSSWALKS SHALL BE INSTALLED PER TYPICAL DETAIL. WHEN ACCESSIBLE RAMPS EXIST., CENTER THE CROSSWALK ON THE EXISTING RAMPS. SEE STANDARD DRAWING 3-15C.
2. LEGENDS SHALL BE INSTALLED IN ACCORDANCE WITH MUTCD UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS.
3. COLOR OF CROSSWALK SHALL BE IN ACCORDANCE WITH MUTCD UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS.
4. LIMIT LINE AND/OR CROSSWALK SHALL BE LOCATED PRIOR TO REACHING THE LIMITS OF THE ACCESSIBLE RAMP AND A MIN OF 14' FROM THE EXTENSION OF THE CURB LINE.
5. STOP SIGN AND/OR STREET NAME SHALL BE PLACED EITHER AT OR NEAR THE LIMIT LINE OUTSIDE OF THE LIMITS OF THE SIDEWALK.

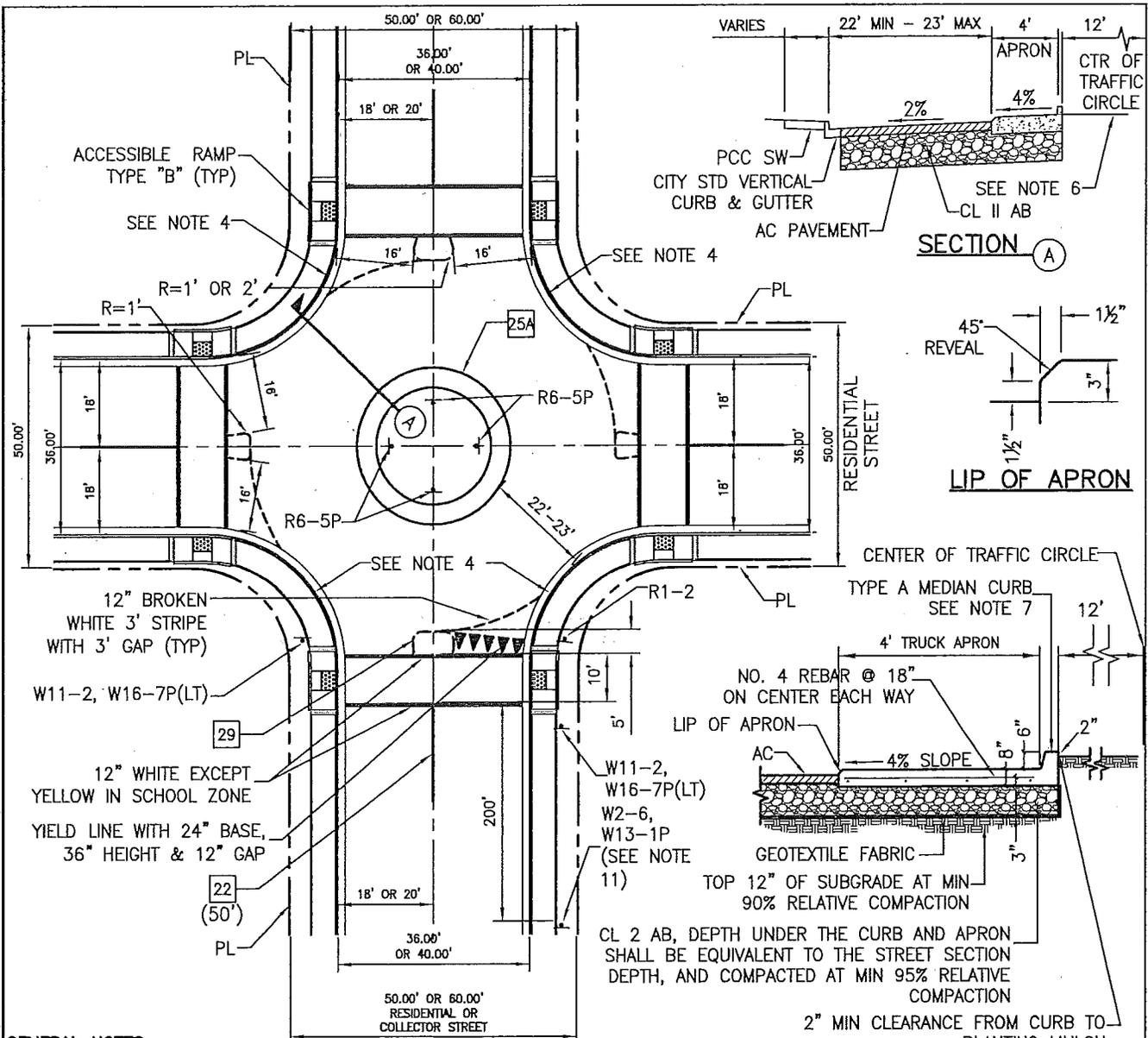


DRAWING NO.: 3-24
 DATE: REVISED ON 04/09/12
 SCALE: NONE
 APPROVED BY: *[Signature]*
 R.C.E. 38521
 DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

**CITY OF VACAVILLE
 STANDARD DRAWING**

CROSSWALK & STOP BAR

DWG File: G:\CIP\600's\653\Standard Drawings\AutoCad\All Current Standard Drawings\Residential Traffic Circle.dwg



GENERAL NOTES:

1. TRAFFIC CIRCLE MAY BE USED ONLY WITH THE PRIOR APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.
2. TRAFFIC CIRCLE MAY ONLY BE USED ON ROADWAYS WITH A POSTED SPEED OF 30 MPH OR LESS.
3. TRAFFIC CIRCLE IS APPLICABLE TO INTERSECTIONS OF RESIDENTIAL WITH OTHER RESIDENTIAL OR COLLECTOR STREETS.
4. ADJUST ALL CURB RETURN RADII BETWEEN 27'-32' TO ACHIEVE 22' MIN -23' MAX OF CIRCULATORY ROADWAY WIDTH
5. DEEP JOINTS AT 10' O.C. AND SCORE LINE AT 5' O.C. MEASURED ON OUTER CIRCUMFERENCE OF THE APRON.
6. APRON AND MEDIAN CURB SHALL BE POURED MONOLITHICALLY.
7. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD.
8. PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST CA MUTCD. SPLITTER ISLAND SHALL BE A STRIPED ISLAND.
9. TRAFFIC CIRCLE SHALL CONFORM TO INTERSECTION STOPPING SIGHT DISTANCE STANDARD DRAWING NO. 3-04A. NO MOUND OR LANDSCAPING OVER A 3' HIGH LINE OF SIGHT ABOVE THE STREET PAVEMENT GRADE IN CENTER OF TRAFFIC CIRCLE.
10. SIGNAGE AND PAVEMENT MARKINGS FOR ALL APPROACHES OF TRAFFIC CIRCLE SHALL BE MIRROR IMAGE OF APPROACH "A".
11. W13-1P SHALL BE 15 MPH FOR ROADWAYS WITH POSTED SPEED OF 25 MPH. W13-1P SHALL BE 20 MPH FOR ROADWAYS WITH POSTED SPEED OF 30 MPH.
12. FG OF SSMH, WATER VALVE BOXES AND SURVEY MONUMENT BOXES INSIDE THE ISLAND SHALL MATCH FG OF ISLAND CURB.



DRAWING NO.:	3-25
DATE:	JUNE 23, 2015
SCALE:	NONE
APPROVED BY:	<i>[Signature]</i>
	R.C.E. 43666
DIRECTOR OF PUBLIC WORKS CITY ENGINEER	

**CITY OF VACAVILLE
STANDARD DRAWING**

RESIDENTIAL TRAFFIC CIRCLE