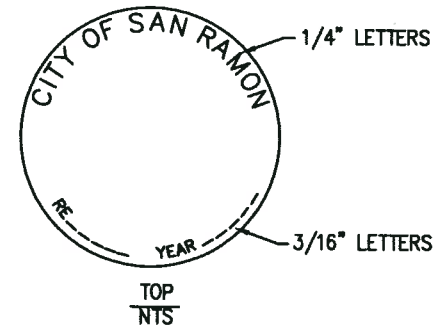
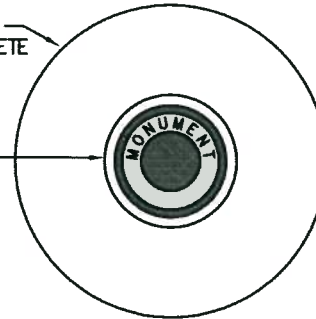


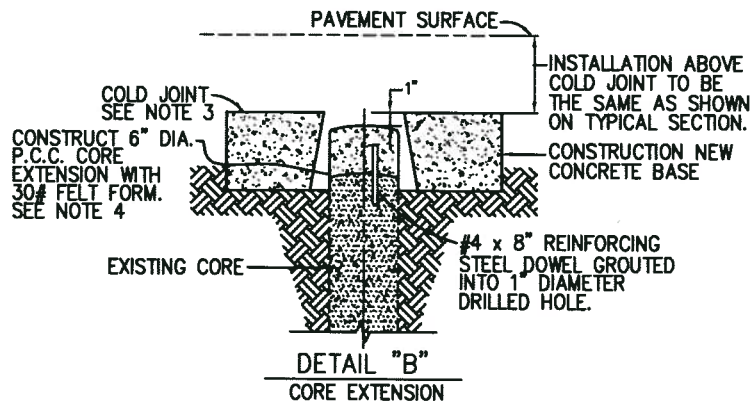
DETAIL "A"
FRAME ADJUSTMENT

24" DIAMETER PORTLAND CEMENT CONCRETE JACKET COVERED WITH 2" OF ASPHALT CONCRETE SEE NOTE 1.

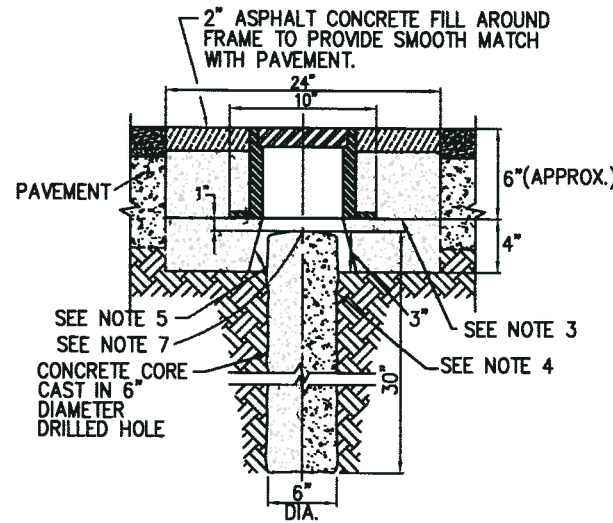
METAL COVER AND FRAME (SCHEMATIC ONLY)-SEE NOTE 2



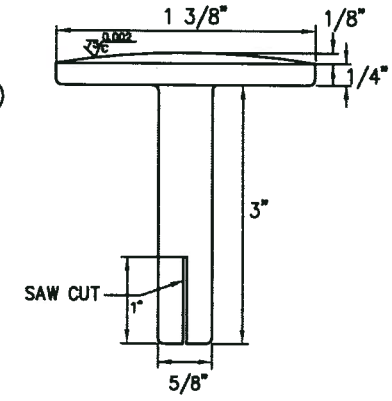
TOP
NTS



DETAIL "B"
CORE EXTENSION



TYPICAL SECTION
ORIGINAL INSTALLATION



SECTION
NTS
MONUMENT DISK
NTS

NOTES:

1. PORTLAND CEMENT CONCRETE FOR JACKET AND CORE SHALL BE CLASS 1 PER CURRENT CALTRANS SPECIFICATIONS. ASPHALT CONCRETE SHALL BE TYPE B 1/2" MAX. - MED. GRADING.
2. APPROVED COVERS AND FRAMES ARE THOSE MANUFACTURED BY FORNI CORP. ("IRONSIDES"), AMERICAN BRASS AND IRON FOUNDRY, AND MONROE CASTING. OTHER TYPES MUST BE APPROVED BY THE CITY ENGINEER. COVERS SHALL BE MARKED "MONUMENT", SHALL BE NON-ROCKING, & DESIGNED FOR A 16,000 POUND WHEEL LOAD.
3. 30# FELT TO CREATE A "COLD JOINT".
4. 6" DIAMETER COLLAR FORMED WITH 30# FELT, 1" BELOW "COLD JOINT".
5. TAPERED METAL CONE OR 3/32" MINIMUM CHIPBOARD CONE.
6. SOLID BRASS MARKER (1 3/8" DIAMETER TOP AND 5/8" x 3" SHANK) WITH DISTINCTIVE PUNCH AND R.E. OR L.S. NUMBER.
7. ADJUSTMENT RINGS (NOT SHOWN) ARE AVAILABLE FOR BOTH TYPES OF FRAMES. MAXIMUM HEIGHT OF ADJUSTMENT BY RINGS: 3" FOR FORNI FRAME, 3" FOR A.B. AND I. FRAME. WHEN REQUIRED ADJUSTMENT EXCEEDS ABOVE LIMITS, THE FRAME SHALL BE RAISED TO CONFORM TO THE NEW PAVEMENT SURFACE AS SHOWN IN DETAIL "A".
8. WHEN DIMENSION "H" FROM TOP OF FRAME TO TOP OF CONCRETE CORE (SEE DETAIL "A") EXCEEDS 12", THE CORE SHALL BE EXTENDED AS SHOWN IN DETAIL "B".
9. ALL LETTERING TO BE STAMPED 1/16" DEEP.
10. ALL FILLETS AND ROUNDS TO BE 1/16" RADIUS.



CITY OF SAN RAMON

DETAIL R-1

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

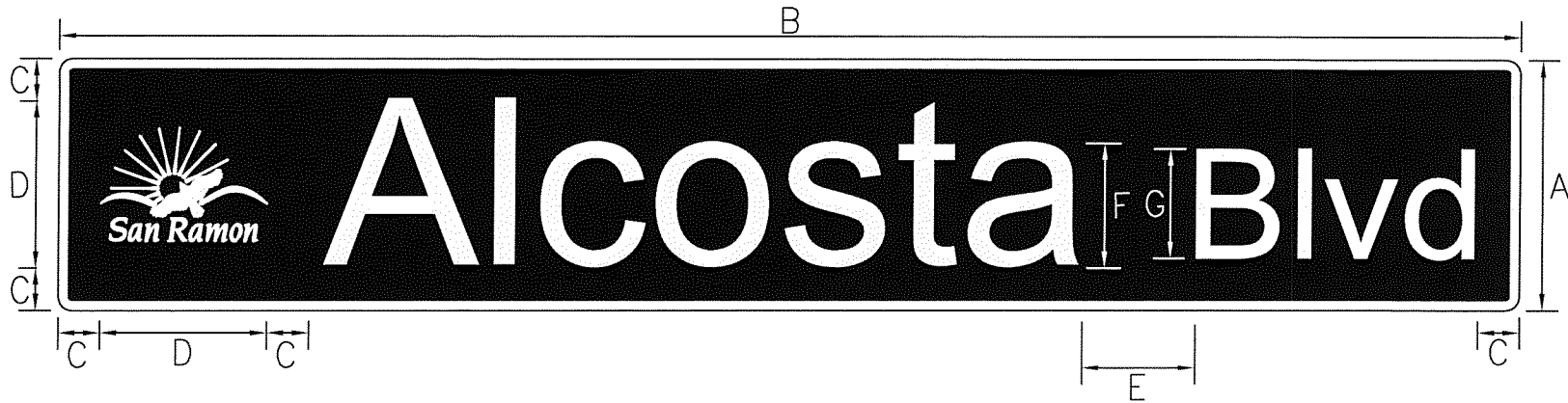
DATE: 05/20/11

STANDARD DETAIL

STREET SURVEY
MONUMENT

APPROVED BY: DATE: *05/20/11*
Brian A. Brunstein
CITY ENGINEER

SHT 1 of 1



A	B	C	D	E	F	G
9"	30", 36", or 42" with 1/2" corner radius	1.5"	6"	>=1.5"	4.5"	4"

Type of Letter	Size	Letter Style
Name of Street (th, nd, st, etc)	6" Uppercase, 4.5" Lowercase	Highway Gothic 'B'
Type of Street (Dr, Ave, St, etc)	3" Uppercase, 2.25" Lowercase	Highway Gothic 'B'
N (north), W(west), etc	3" Uppercase	Highway Gothic 'B'
Logo Size	6" X 6" Max.	N/A

Description	Material Types	Required Min. Retroreflectivity	Thickness of Material/Size
Sign Blank Material	Aluminum Alloy	N/A	0.080 gauge
Border Color	3M #3930 White High Intensity Prismatic	Per MUTCD	3/8"
Background Color	Nikkalite 106 Blue ESM Overlay	Per MUTCD	N/A
Lettering Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above
Logo Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above



CITY OF SAN RAMON

DETAIL R-2a

DRAWN BY: ELR / DF

CHECKED BY: ENG'G., PS

DATE: 10/31/12

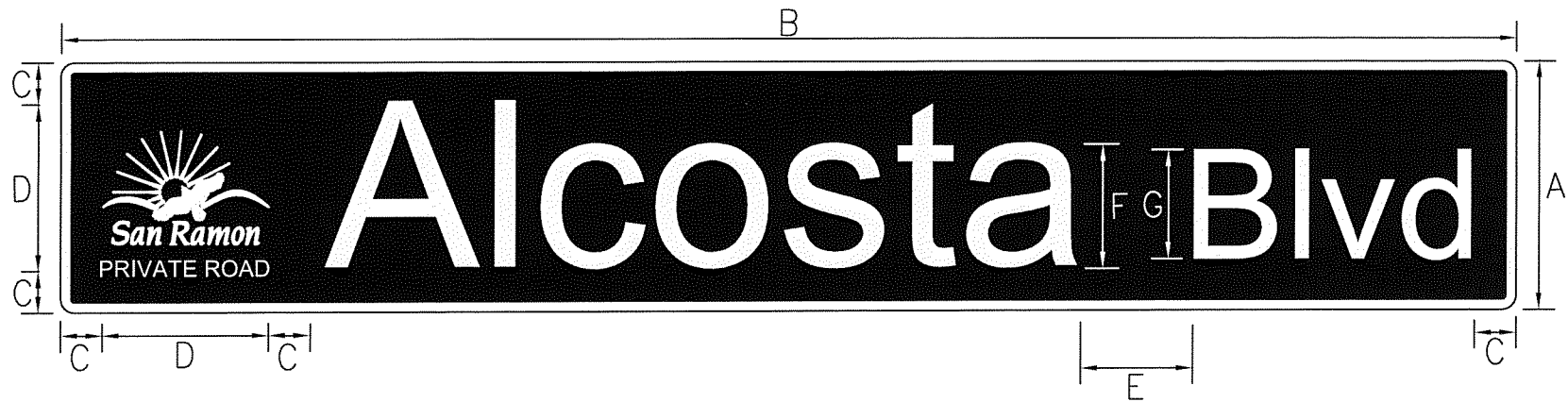
STANDARD DETAIL

STREET NAME SIGN - PUBLIC

APPROVED BY: DATE: 11-14-12

Brian R. Baerstein
CITY ENGINEER

SHT 1 of 2



A	B	C	D	E	F	G
9"	30", 36", or 42" with 1/2" corner radius	1.5"	6"	$\geq 1.5"$	4.5"	4"

Type of Letter	Size	Letter Style
Name of Street (th, nd, st, etc)	6" Uppercase, 4.5" Lowercase	Highway Gothic 'B'
Type of Street (Dr, Ave, St, etc)	3" Uppercase, 2.25" Lowercase	Highway Gothic 'B'
N (north), W (west), etc	3" Uppercase	Highway Gothic 'B'
Logo Size	6" X 6" Max.	Highway Gothic 'B'
PRIVATE ROAD	5/8" Tall, Center Below Logo	Highway Gothic 'B'

Description	Material Types	Required Min. Retroreflectivity	Thickness of Material/Size
Sign Blank Material	Aluminum Alloy	N/A	0.080 gauge
Border Color	3M #3930 White High Intensity Prismatic	Per MUTCD	3/8"
Background Color	Nikkalite 106 Blue ESM Overlay	Per MUTCD	N/A
Lettering Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above
Logo Color	3M #3930 White High Intensity Prismatic	Per MUTCD	See table above



CITY OF SAN RAMON

DETAIL R-2b

DRAWN BY: ELR / DF

CHECKED BY: ENG'G., PS

DATE: 10/31/12

STANDARD DETAIL

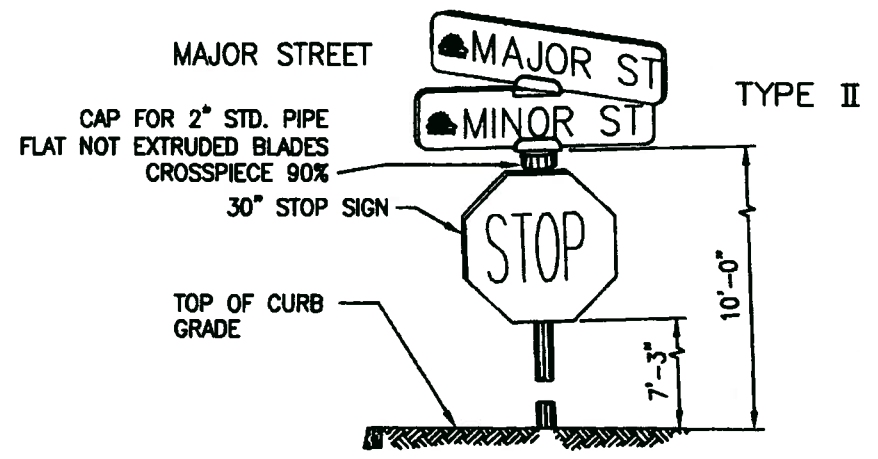
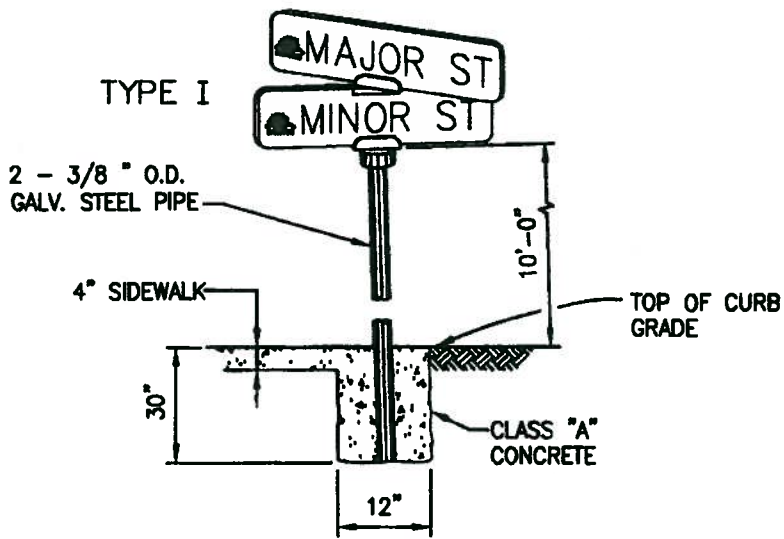
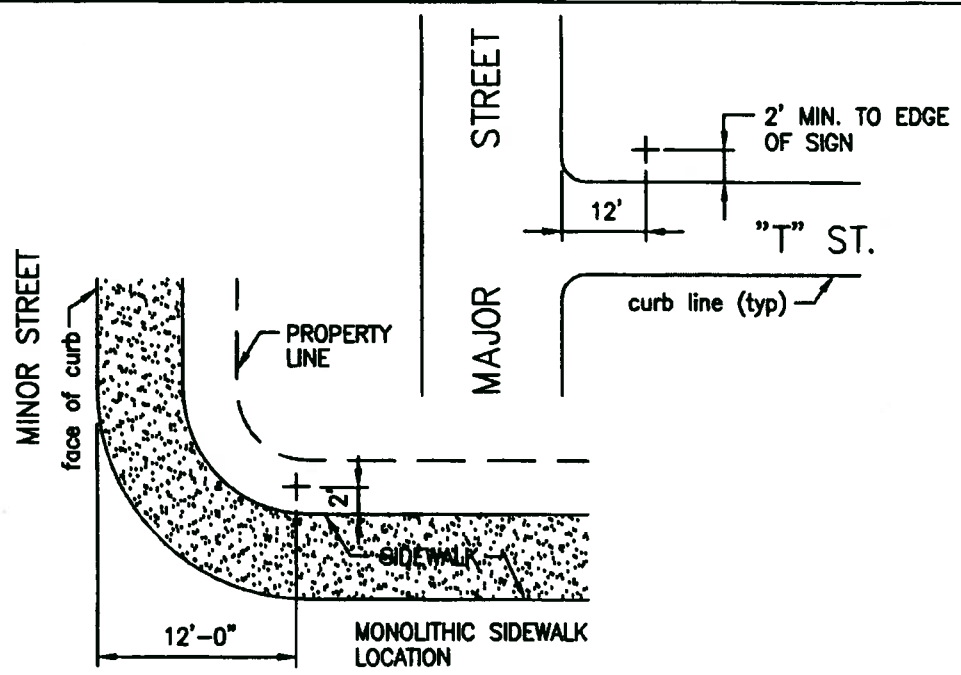
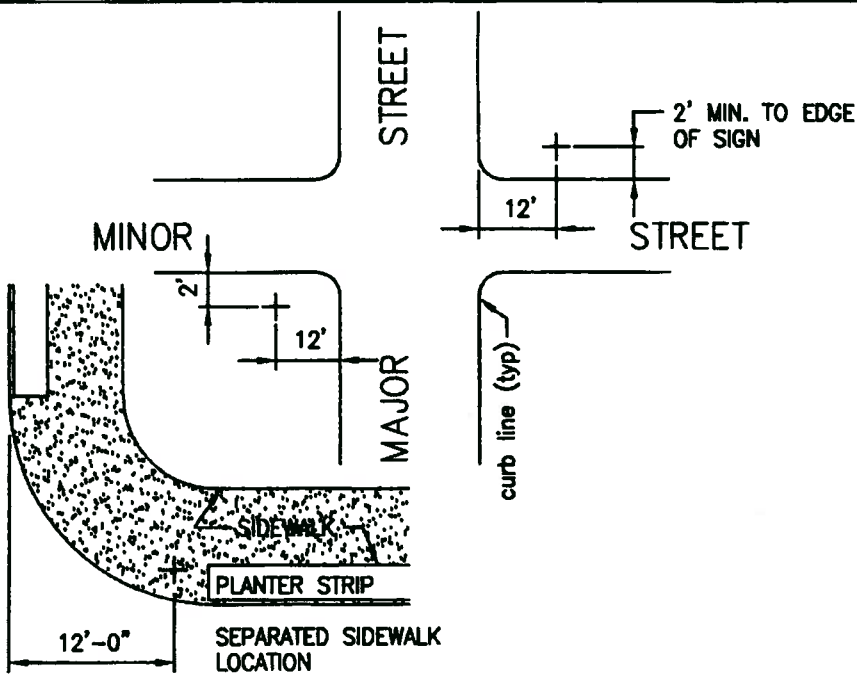
STREET NAME SIGN - PRIVATE

APPROVED BY: DATE: 11-14-12

Brian R. Barden
CITY ENGINEER

SHT 2 of 2

S: STANDARD DRAWINGS / 2008-3



CITY OF SAN RAMON
 DETAIL R-3

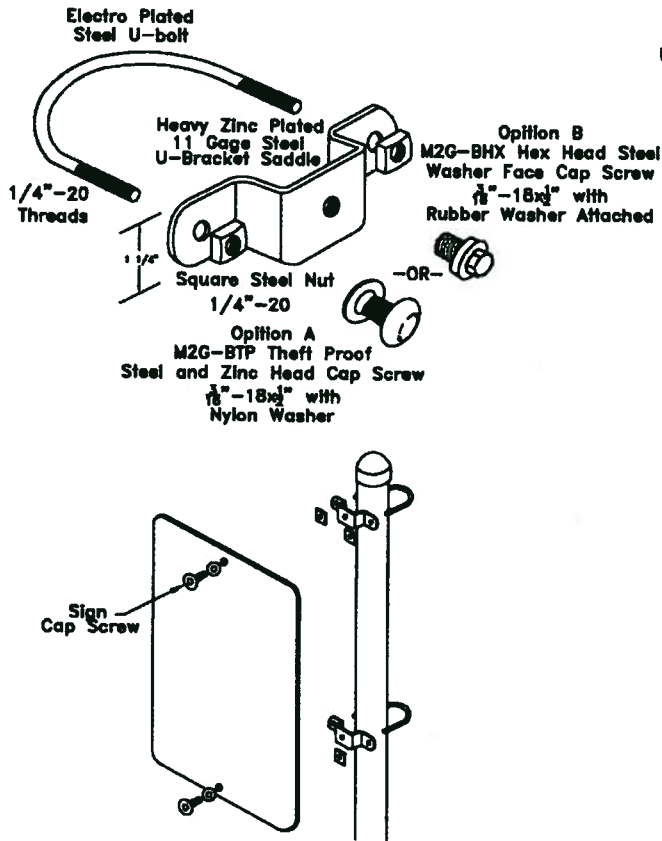
DRAWN BY: AA & AH
 CHECKED BY: ENGINEERING
 DATE: 10/26/00

STANDARD DETAIL
 STREET NAME SIGN
 LOCATION

APPROVED BY: DATE: 9/18/01
Jay Depaolibus
 CITY ENGINEER
 SHT 1 of 1

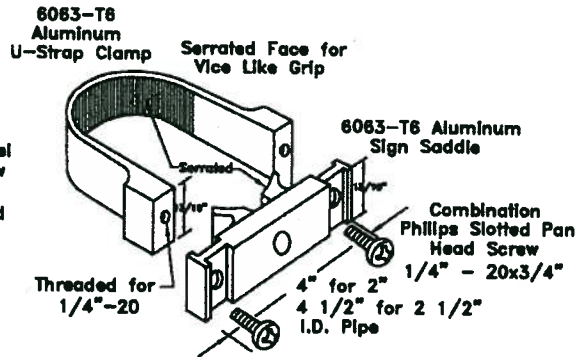
SINGLE CLAMP ON U-BRACKET

FOR 2" or 2 1/2" I.D. STANDARD



SINGLE "STEAL-PROOF" CLAMP ON U-BRACKET

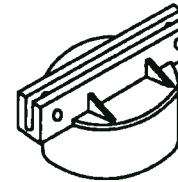
FOR 2" or 2 1/2" I.D. STANDARD



CYLINDRICAL POST CAPS

Western Highway Products
Product # 808F-2 for AF-9 signs

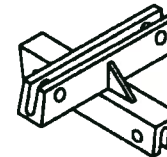
NOTE:
Post caps are recommended for "Single Top of Pole" or "Four-Way Top of Pole" configurations of blade street signs.



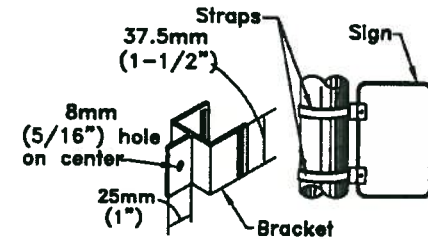
SIGN TO SIGN BRACKET

Western Highway Products
Product # 808FCS for AF-9 signs

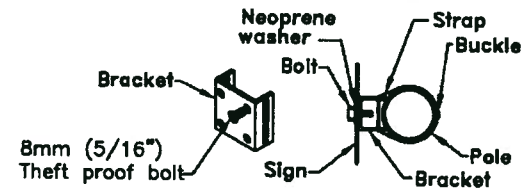
NOTE:
Bracket allows two blade signs to stack on top of one another.



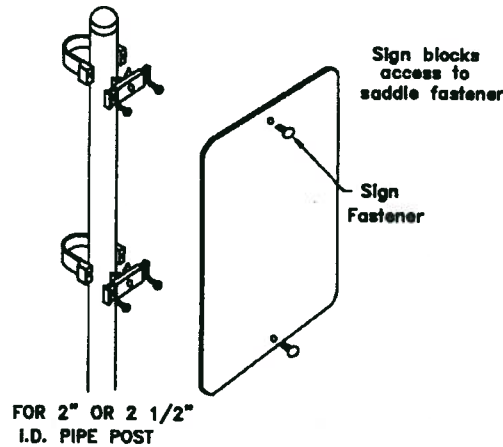
ELECTROLIER MOUNT DETAIL FOR DOUBLE FACED SIGNS



ELECTROLIER MOUNT DETAIL



NOT TO SCALE



SIGN FASTENER SET OPTIONS

- | | |
|---------------------|-------------------------|
| Set to 2" I.D. Pipe | Set to 2 1/2" I.D. Pipe |
| M2G-C2SPB-TP | M2G-C2.5SPB-TP |
| M2G-C2SPB | M2G-C2.5SPB |
| M2G-C2SPB-VPN | M2G-C2.5SPB-VPN |
| M2G-C2SPB-HN | M2G-C2.5SPB-HN |

SIGN CAP SCREW SET OPTIONS

- | | | |
|--------------|-----------|------------------|
| Option A | Option B | To Fit |
| M2G-C2B-TP | M2G-C2B | 2" I.D. Pipe |
| M2G-C2.5B-TP | M2G-C2.5B | 2 1/2" I.D. Pipe |



CITY OF SAN RAMON

DETAIL R-4

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/08/08

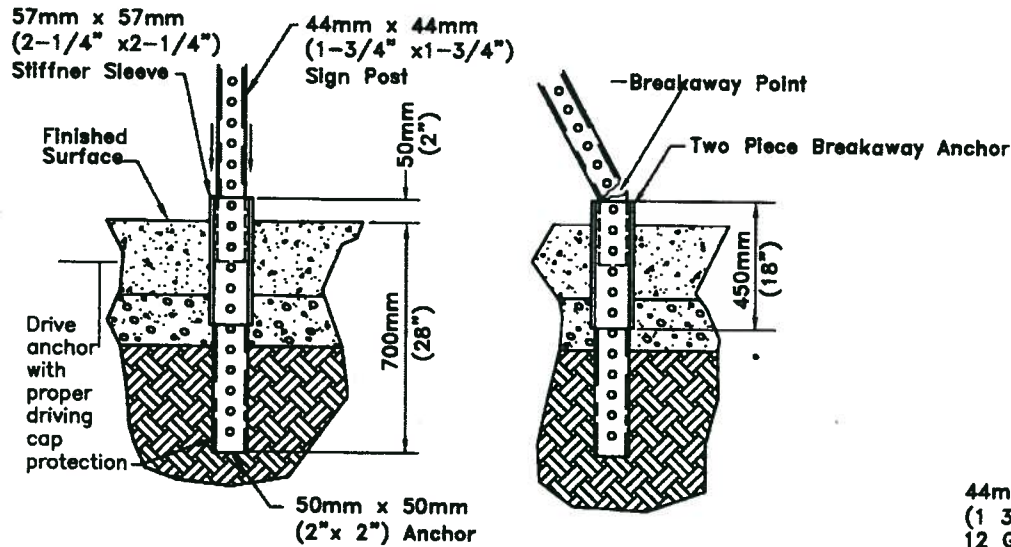
STANDARD DETAIL

STREET NAME AND SIGN MOUNTING DETAIL

APPROVED BY: DATE: 6/15/09

Jose F. Jarama
CITY ENGINEER

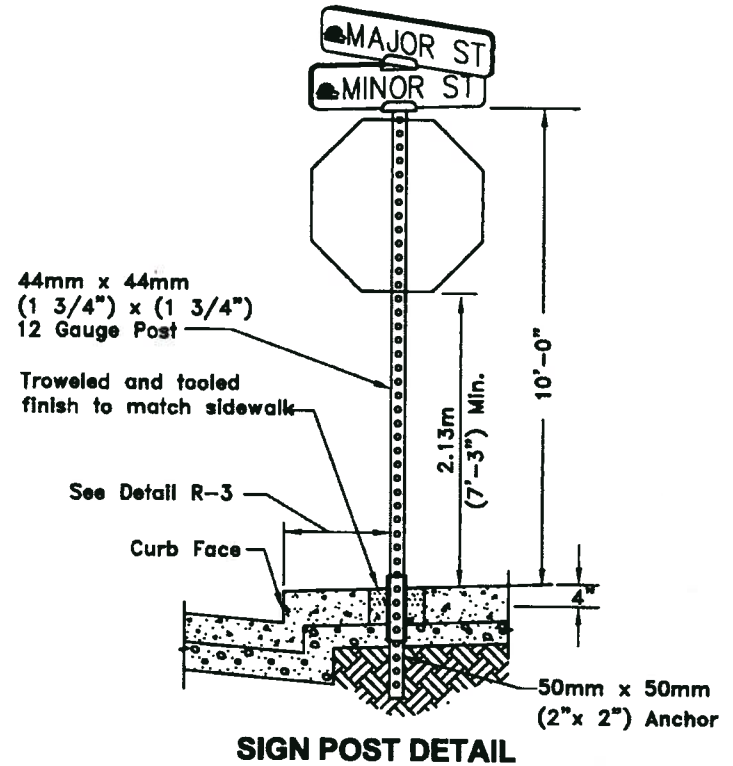
SHT 1 of 1



FOOTING DETAIL

FOR SINGLE FACE SIGNS

1. Use Qwik Punch Unistrut Telespar System or approved equal.
2. Use Two Piece Breakaway Anchors 12 gauge Telespar tubing.
3. All sign locations shall be approved by a Traffic Engineer.
4. Fasten signs to posts with Telespar Drive Rivets or approved equal.
5. Posts shall be pre-galvanized per ASTM A-525 coating designation G90.
6. Core drill sidewalk or remove complete sidewalk panel.
7. Use Hot Dipped Galvanized or SS bolts and hardware. Do not over torque bolts.



SIGN POST DETAIL



CITY OF SAN RAMON

DETAIL R-5

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/08/08

STANDARD DETAIL

SIGN BREAKAWAY
POST INSTALLATION

APPROVED BY: DATE: 6/15/09

Greg Tubert
CITY ENGINEER

SHT 1 of 1

TRAFFIC STRIPES, ARROWS, PAVEMENT MESSAGE MARKINGS AND LEGENDS SHALL CONFORM TO THE CURRENT STANDARDS AND DIMENSIONS OF SECTION 84 OF THE CALTRANS STANDARD SPECIFICATIONS AND SHALL BE INSTALLED PER THE APPROVED TRAFFIC CONTROL PLANS OR BY THE CITY TRAFFIC ENGINEER.

ALL TRAFFIC STRIPES, MARKINGS, AND LEGENDS SHALL BE THERMOPLASTIC UNLESS THE PLANS DESIGNATE THE USE OF "TRAFFIC PAINT" OR RAISED PAVEMENT MARKERS.

PRIOR TO PLACING THE THERMOPLASTIC ALL, DIRT, OIL, GREASE PAINTED STRIPES AND PAVEMENT MARKINGS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

ALL MATERIALS REQUIRED TO INSTALL THE STRIPES, MARKERS, AND LEGENDS SHALL BE FURNISHED BY THE CONTRACTOR.

ALL TRAFFIC STRIPES, MARKINGS AND LEGENDS SHALL BE REFLECTORIZED WITH GLASS BEADS.

ADVANCE SPOTTING FOR THE LOCATION OF ALL TRAFFIC STRIPES, MARKINGS AND LEGENDS SHALL BE PERFORMED BY THE CONTRACTOR. INSTALLATION OF THE STRIPING SHALL NOT BE COMMENCED UNTIL THE LOCATION AND ALIGNMENT OF THE ADVANCE SPOTTING HAS BEEN APPROVED BY THE CITY ENGINEER.

EXCEPTIONS TO THE THERMOPLASTIC REQUIREMENT ARE AS FOLLOWS:

1. BIKE LANES AND BIKE LANE PAVEMENT MARKINGS SHALL CONTINUE TO BE PAINTED AS CURRENTLY SPECIFIED, UNLESS THERMOPLASTIC IS SKID RESISTANT.
2. RAISED PAVEMENT MARKERS (RPM'S) SHALL CONTINUE TO BE USED FOR LANE DELINEATION AS CURRENTLY SPECIFIED PER CALTRANS STANDARD SPECIFICATIONS.
3. CROSSWALKS SHALL CONSIST OF SOLID THERMOPLASTIC STRIPES. ANY "ZEBRA STRIPING" BETWEEN THE BORDERS SHALL BE PAINTED.
4. IF CONSTRUCTION IS PHASED PROJECT AND MARKINGS OF DELINEATIONS ARE TEMPORARY.



CITY OF SAN RAMON

DETAIL R-6

DRAWN BY: ELR

CHECKED BY: ENG'G., PS

DATE: 12/30/08

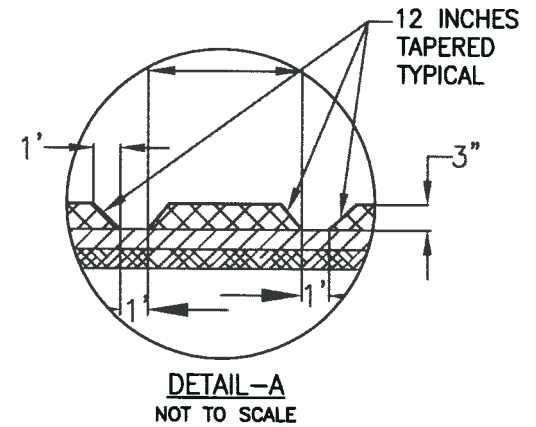
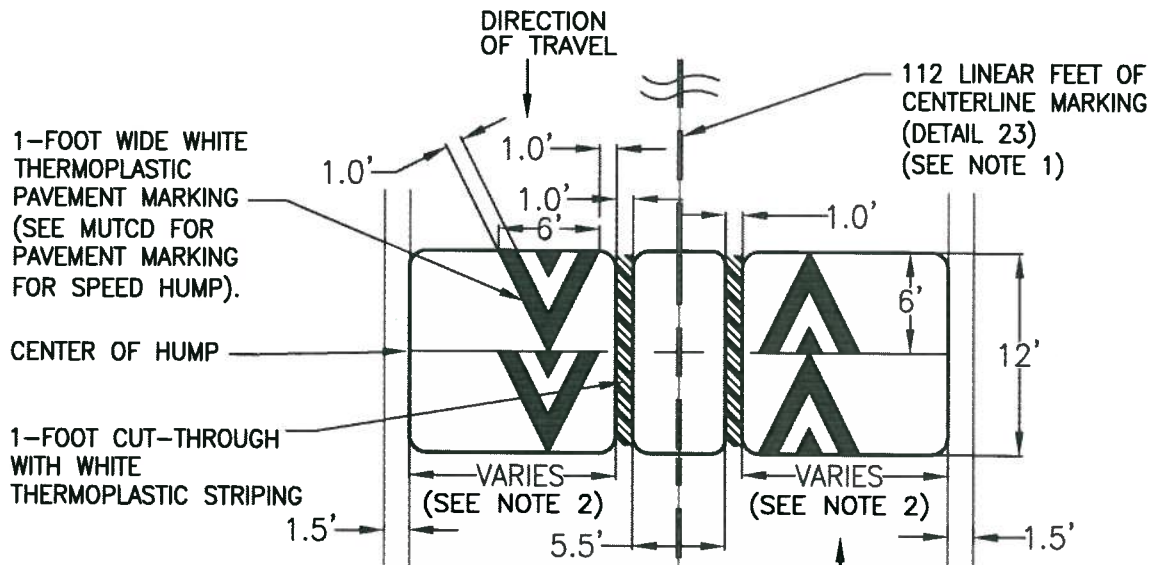
STANDARD DETAIL

STRIPING DETAIL

APPROVED BY: DATE: 6/15/09

John J. ...
CITY ENGINEER

SHT 1 of 1



PLAN VIEW
NOT TO SCALE

DIRECTION OF TRAVEL

CROSS-SECTIONAL VIEW
NOT TO SCALE

EDGE OF PAVEMENT
TACK COAT
EX. BASE

SPEED LUMP

CENTERLINE OF ROAD

SEE
DETAIL-A

EX. CURB & GUTTER OR
ASPHALT CURB WITHOUT GUTTER
TYPE B, 3/8" MAX. AC
EX. AC PAVEMENT

NOTES:

1. 50' OF CENTERLINE MARKING (DETAIL-23) ON EACH SIDE OF THE SPEED LUMP AND 12' ON TOP OF THE SPEED LUMP.
2. AVERAGE WIDTH OF STREET IS LESS THAN 34' EXCLUDING THE CURB AND GUTTER.
3. MINIMUM STREET WIDTH OF 23.5' EXCLUDING THE CURB AND GUTTER.



CITY OF SAN RAMON

DETAIL R-7a

DRAWN BY: ELR, DF

CHECKED BY: ENG'G., PUBL. SV.

DATE: 05/20/11

STANDARD DETAIL

SPEED LUMP < 34' WIDE

APPROVED BY:

DATE:

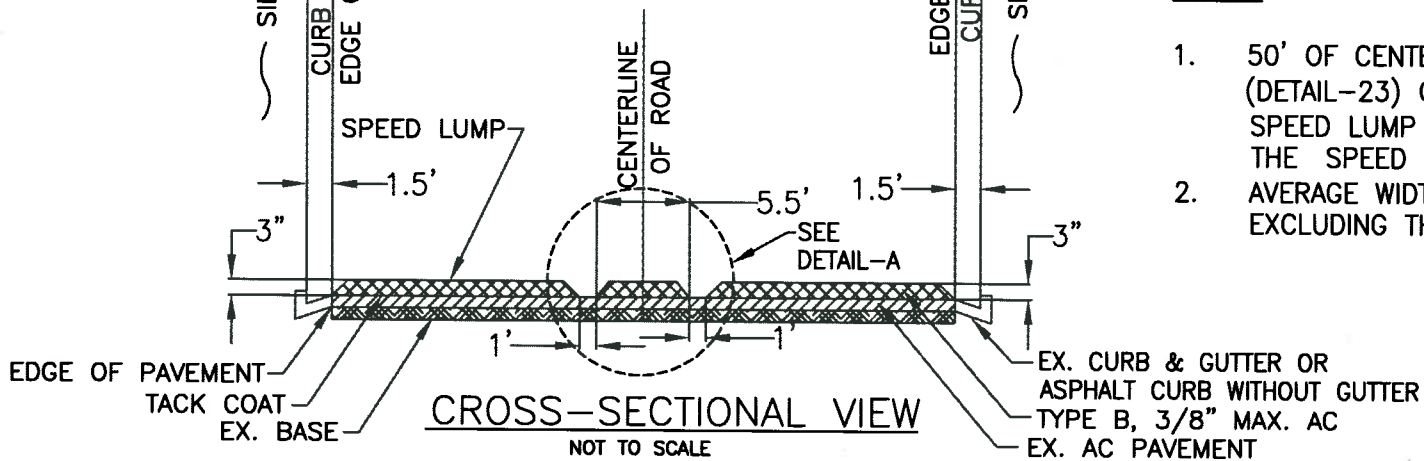
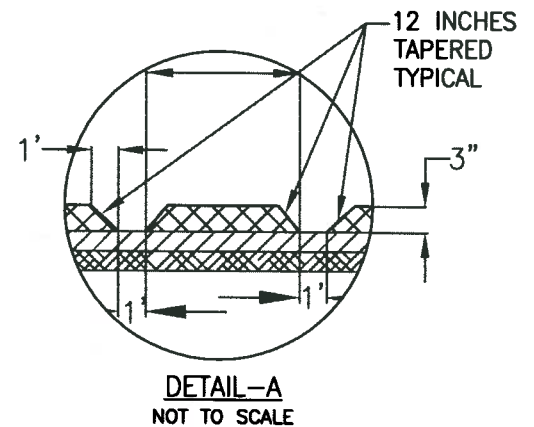
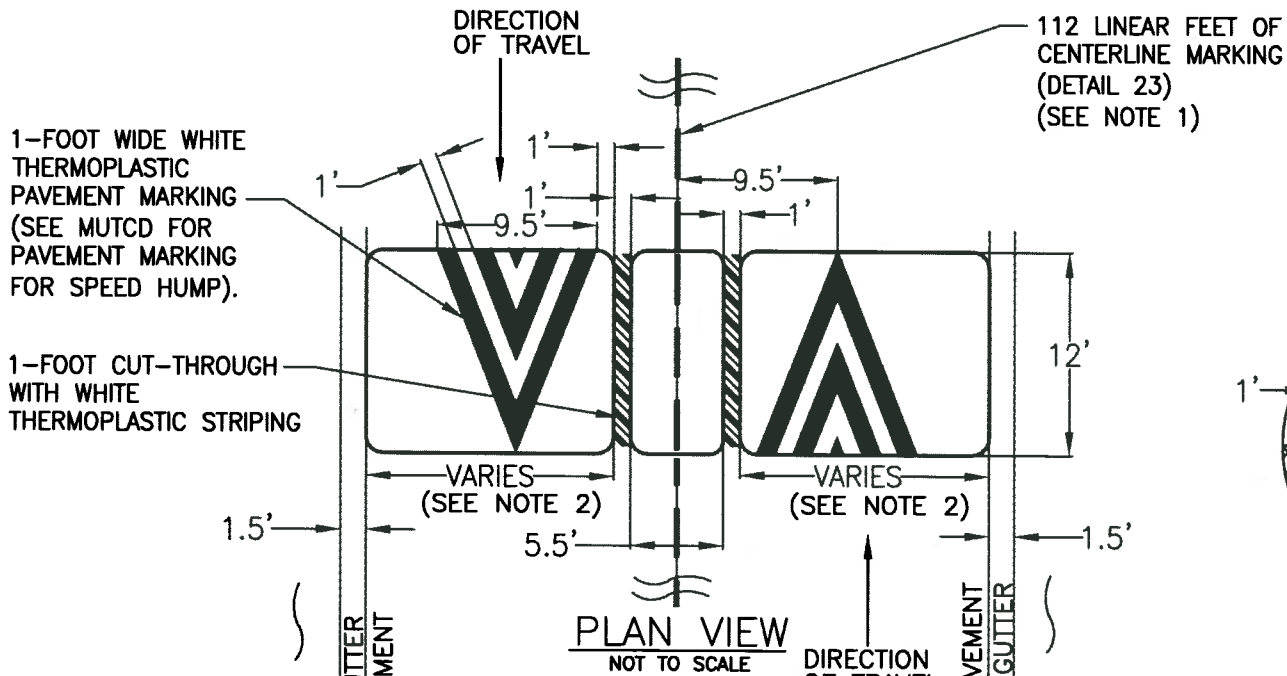
Paul R. Bente
CITY ENGINEER

SHT

1

of

4



NOTES:

1. 50' OF CENTERLINE MARKING (DETAIL-23) ON EACH SIDE OF THE SPEED LUMP AND 12' ON TOP OF THE SPEED LUMP.
2. AVERAGE WIDTH OF STREET IS 34' EXCLUDING THE CURB AND GUTTER.



CITY OF SAN RAMON

DETAIL R-7b

DRAWN BY: ELR

CHECKED BY: ENG'G., PUBL. SV.

DATE: 05/20/11

STANDARD DETAIL

SPEED LUMP > 34' WIDE

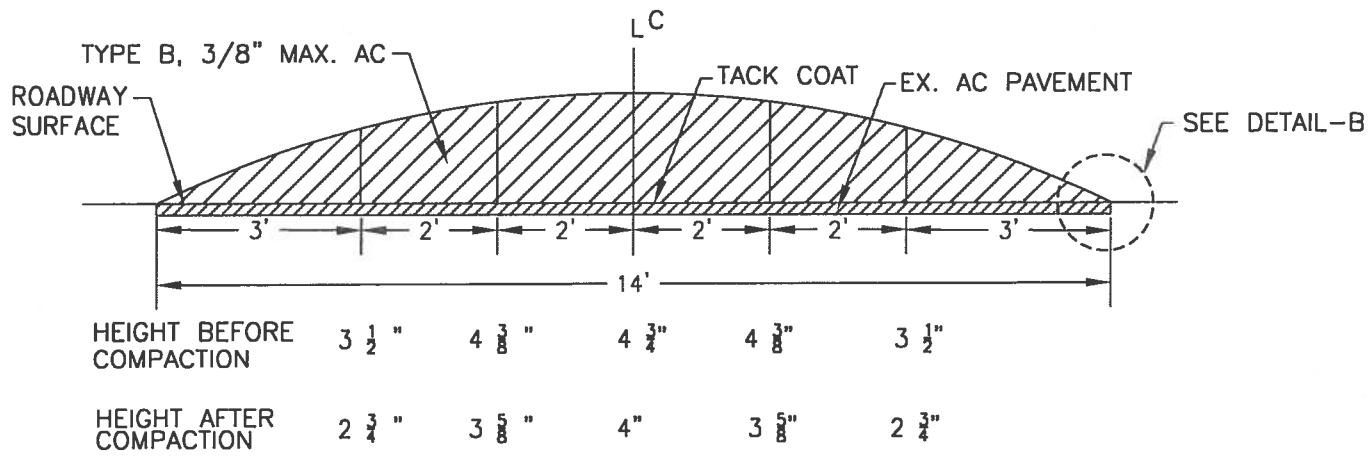
APPROVED BY:

DATE: 6/1/11

Brian A. Barte

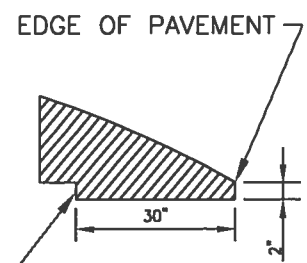
CITY ENGINEER

SHT 2 of 4



HEIGHT BEFORE COMPACTION	3 1/2"	4 3/8"	4 3/4"	4 3/8"	3 1/2"
HEIGHT AFTER COMPACTION	2 3/4"	3 5/8"	4"	3 5/8"	2 3/4"

TYPICAL PROFILE
NOT TO SCALE



DETAIL-B
NOT TO SCALE

EXCAVATE AND FILL WITH ASPHALT 18" WIDE X 2" DEEP X 14' LONG PAVEMENT SECTION ALONG THE EDGE OF SPEED LUMP (BOTH SIDES)



SIGN ADJACENT TO SPEED LUMP
(IN BOTH DIRECTIONS)



ADVANCED WARNING SIGN
(IN BOTH DIRECTIONS)

NOTES:

1. USE HIP (HIGH INTENSITY PRISMATIC) GRADE SIGNS.
2. SIGNS SHALL BE PLACED ONTO THE NEXT ELECTROLIER POLE AT LEAST 200 FEET IN ADVANCE OF THE SPEED LUMP. IF NO ELECTROLIER POLE IS AVAILABLE USE THE CITY OF SAN RAMON STANDARD DETAILS FOR THE INSTALLATION OF SIGN POSTS (DETAIL R-5).
3. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MUTCD CALIFORNIA SUPPLEMENT FOR SIGN DETAILS.

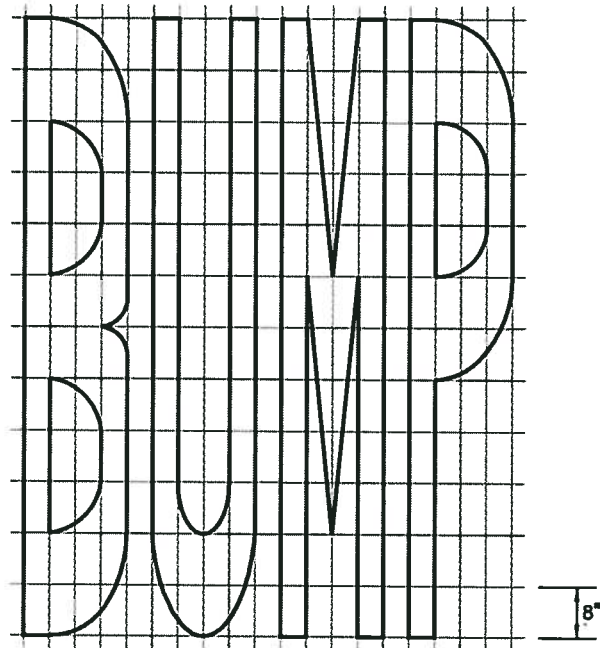


CITY OF SAN RAMON
DETAIL R-7c

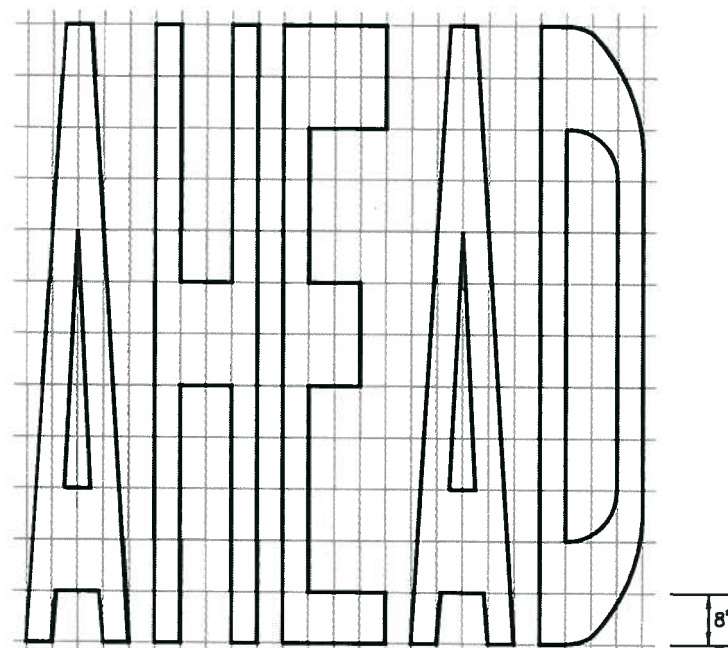
DRAWN BY: ELR
CHECKED BY: ENG'G., PUBL.SV.
DATE: June 2016

FOR AMADOR RANCHO LOOP DETAIL
SPEED LUMP

APPROVED BY: DATE: 6-27-16
Brian R. Bernstein
CITY ENGINEER
SHT 3 of 4



SCALE = 1 : 30



SCALE = 1 : 30

NOTES:

1. ALL LETTERS AND NUMERALS SHALL BE THERMOPLASTIC IN CONFORMANCE WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS APPROVED BY DEPARTMENT OF TRANSPORTATION.
2. THE DESIGN DETAILS FOR VARIOUS WORDS ARE ALSO SHOWN IN DEPARTMENT OF TRANSPORTATION STANDARD PLANS.
3. "BUMP AHEAD" LEGENDS SHALL BE PLACED IN BOTH DIRECTIONS OF TRAFFIC AT 100 FEET IN ADVANCE OF THE SPEED LUMP.



CITY OF SAN RAMON

DETAIL R-7d

DRAWN BY: ELR

CHECKED BY: ENG'G., PUBL. SV.

DATE: 05/20/11

STANDARD DETAIL

SPEED LUMP

APPROVED BY:

DATE: 6/1/11

Brian R. Bounstein

CITY ENGINEER

SHT 4 of 4