MEETING MINUTES FROM THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS COMMITTEE

July 5, 2006

Maricopa Association of Governments Office, Cholla Room
302 North First Avenue
Phoenix, Arizona

AGENCY MEMBERS

Jim Badowich, Avondale
David Fern, Chandler
Steven Borst, Buckeye
Mark Weiner, Gilbert
* Greg Rodzenko, Glendale
Tom Vassallo, Goodyear
Bob Herz, MCDOT, Chairman
* Kelly Jensen, Mesa
Jesse Gonzales, Peoria
Jeff Van Skike, Phoenix (St. Trans.)
Matthew Woodland, Phoenix (Water)
Rodney Ramos, Scottsdale
* Don Moseley, Surprise
* James Bond, Tempe

ADVISORY MEMBERS

John Ashley, ACA
* Jeff Benedict, AGC
Brian Gallimore, AGC
* Peter Kandaris, SRP, Vice Chairman
* Don Cornelison, ARPA
Don Green, ARPA
Paul R. Nebeker, Independent
William Ast, NUCA
* Dale Phelan, NUCA

MAG ADMINISTRATIVE STAFF

Gordon Tyus

* Members not attending or represented by proxy.

GUESTS/VISITORS

Bill Naugle, N-Direct CAST in TACT
Paul Jacob, N- Direct CAST in TACT
Rita Chihanik, Neenah Foundary
Dustin Dunham, Herzog Contracting
Susan Dehart, Herzog Contracting
Stacy Walgraeve, Atlas Construction Supply
Laddie Fromelius, CC Environmental
Pat Glenn, Advanced Drainage Systems
Jim Ficker, Advanced Drainage Systems
Stew Waller, Arizona Cement Association
Joe Zicaro, ASTM Chairman C 76, 506, 507
Aaron Avery, AZ-FLASH
Chris Fiori, AZ-FLASH

1. Call to Order

   Chairman, Bob Herz, called the meeting to order at 1:33 p.m.

2. Approval of Minutes

   The members reviewed the June 7, 2006 meeting minutes. Jeff Van Skike introduced a motion to accept the minutes as shown. Jesse Gonzales seconded the motion. The motion passed unopposed.

3. 2006 Cases

   a. **Case 06-01 – Safety Rail addition to Concrete Scupper Detail 206.** The committee had no discussion on this item.

   b. **Case 06-02 – Clarifications to Detail 440.** The committee had no discussion on this item.

   c. **Case 06-03 – Miscellaneous Corrections,** drafting correction to Details 533-3 and 533-4. The committee had no discussion on this item.

   d. **Case 06-04 – Reduced cement content for Reinforced Concrete Pipe (RCP) mixes, Section 735.** Mr. Fern reported that a check with the local plants including Rinker and Ameron indicated that the cement content of their mix designs varies and may exceed the MAG requirements on an individual basis. Joe Zicaro, Chairman ASTM C 76 committee provided background information on the ASTM committee's past considerations for Portland cement quantity requirements. The designated cement content originated as part of a prescriptive specification, the present standard is primarily a performance-based specification and there have been committee discussions to delete the minimum cement content requirement from the standard.

   e. **Case 06-05 – Survey Marker revisions to Detail 120-2**. The committee had no discussion on this item.

4. New cases

   a. **Case 06-06 – Detail 426 Drop Sewer Connections.** Paul Nebeker proposed that the detail requirement to use of vitrified clay be deleted since not all sewer lines are constructed with vitrified clay pipe (see attachment). When an alternative pipe material is used, some inspectors have required the drop sewer portion be constructed only with vitrified clay pipe. An additional change to revise the callouts for *Caulder Coupling connection or approved equal* to indicate a generic flex coupling was suggested. Flex coupling requirements will need to be defined on the detail or in the specifications.

b. **Case 06-07 – Detail 220, Add Mountable Curb & Gutter (Type M-24) with Transition Detail.** Rod Ramos proposed the addition of a mountable curb detail used by Scottsdale to enable maintenance vehicles to access areas back of curb (see attachment).

c. **Case 06-08 – Detail 220, Add Mountable Curb & Gutter (Type M-30) with Transition Detail.** Rod Ramos proposed the addition of a mountable curb detail used by Scottsdale to enable emergency vehicles such as fire trucks to better traverse through restrictive traffic calming installations (see attachment).

d. **Case 06-09 – Detail 221, Modified Transition Detail.** Rod Ramos proposed to have Section A-A replaced with a View A-A depicting the desired curb transition geometrics. Rod suggested that a digital photo of an acceptable transition installation be used in the detail view. Photos showing how various contractors have interpreted the transition requirements were distributed. (See attachnents)

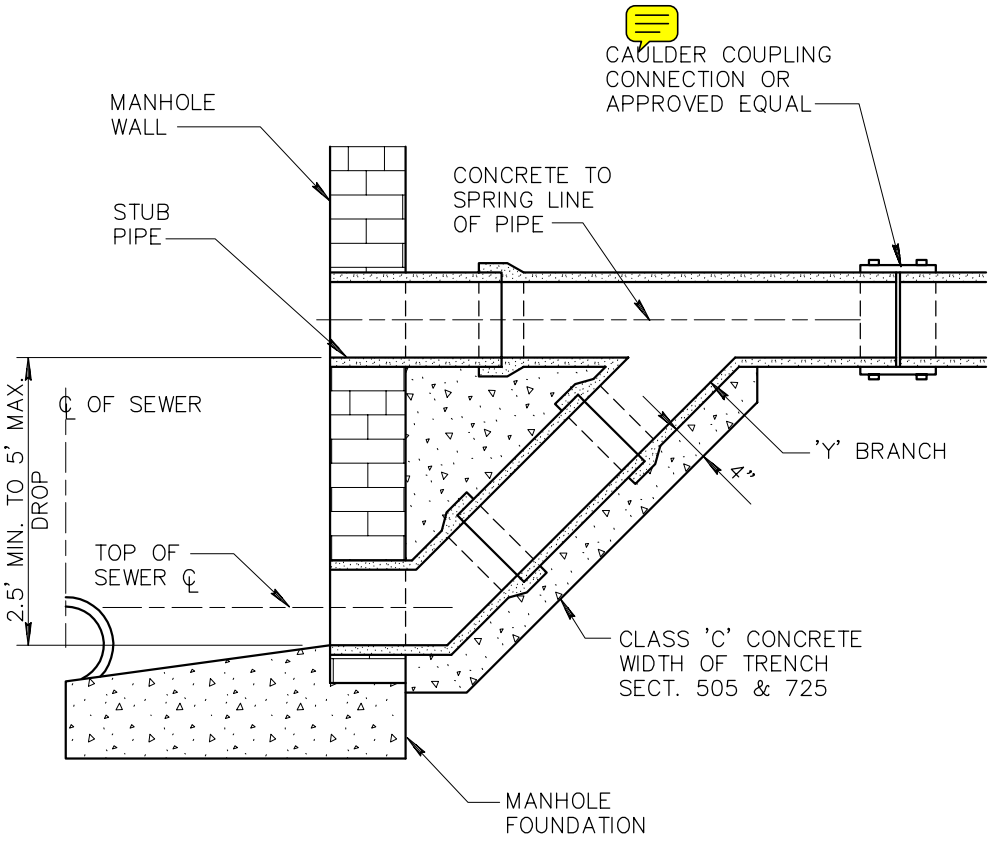
5. General Discussion:

a. Bill Naugle of N-Direct CAST in TACK distributed informational notebooks on detectable warnings and orally presented the material.

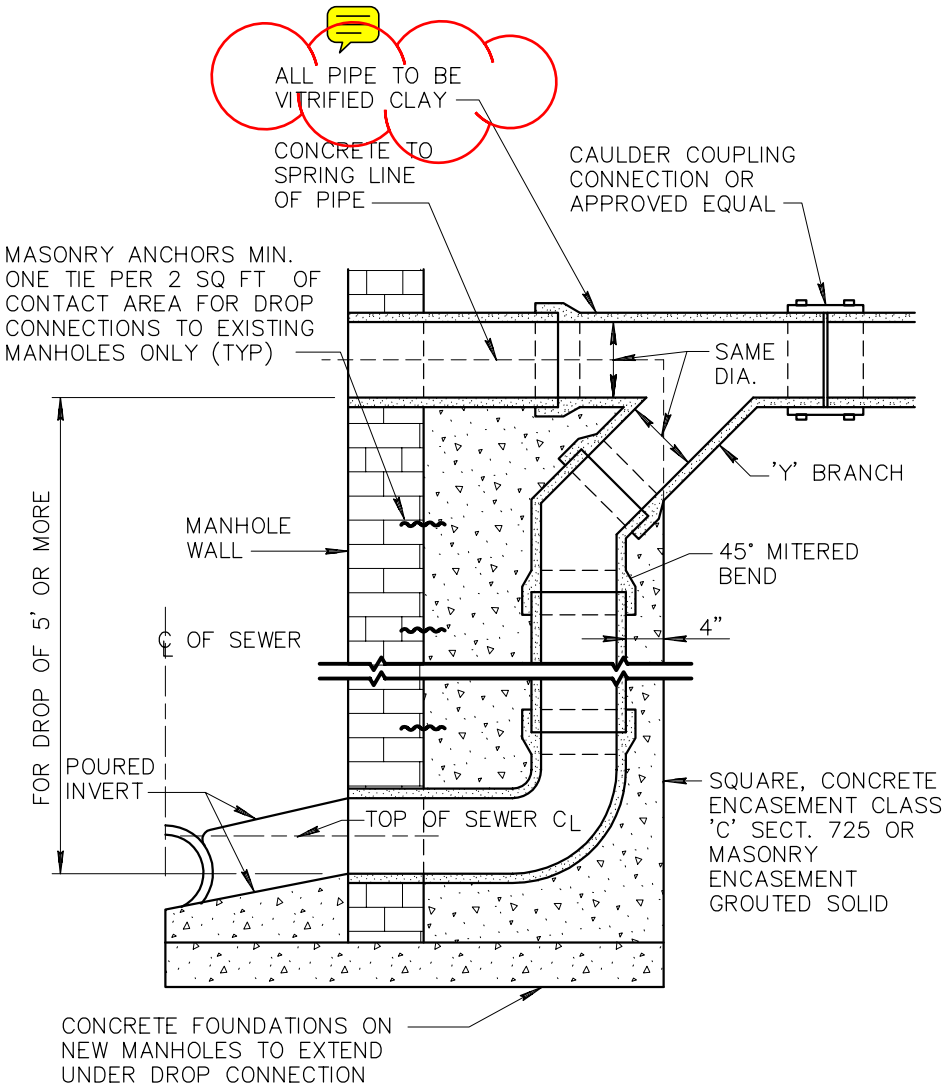
b. Christine Fiori of AZ-FLASH distributed a proposed chart layout to be used for the initial phase of the MAG Specifications and Details Inventory (see attachment).

6. Adjournment:

The meeting was adjourned at 2:58 p.m.



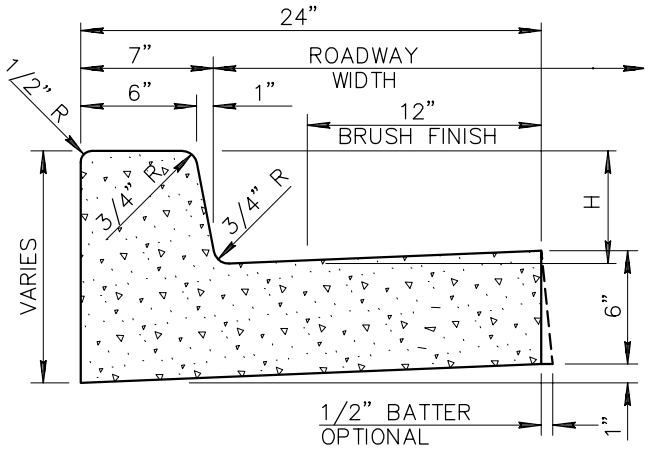
TYPE A
2.5' TO 5' DROP



TYPE B
5' OR MORE

DETAIL NO.			REVISED	DETAIL NO.
426	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	DROP SEWER CONNECTIONS	01-01-2004	426

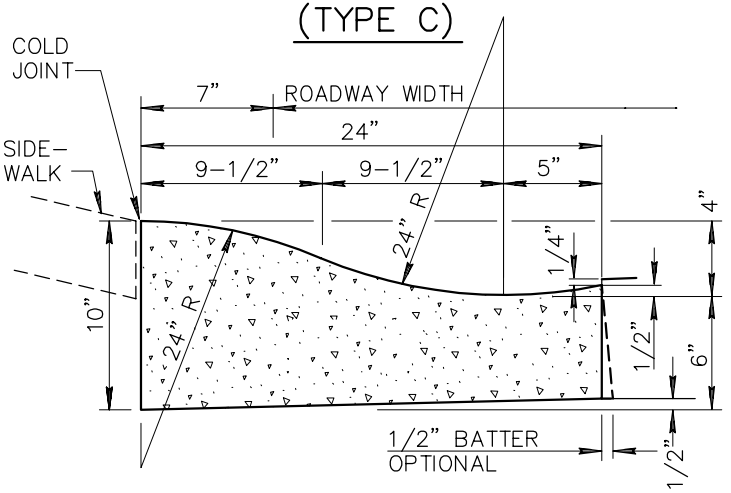
VERTICAL CURB AND GUTTER (TYPE A)



NOTES: (TYPE A)

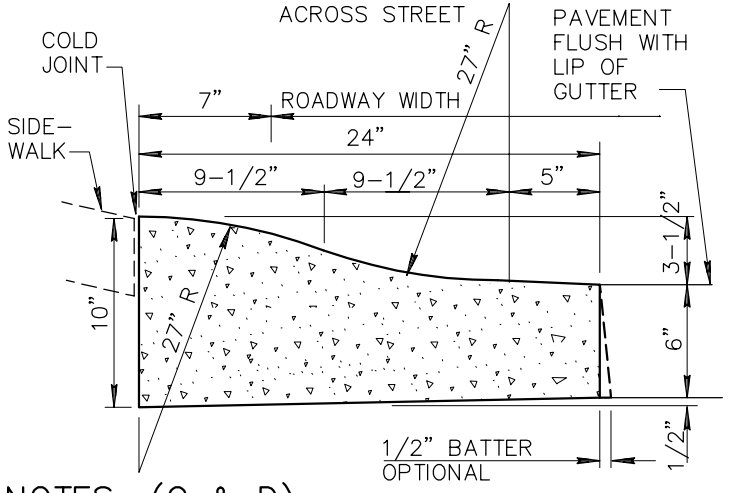
1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER SECT. 340.
5. CLASS 'B' CONCRETE PER 725.

ROLL CURB AND GUTTER (TYPE C)

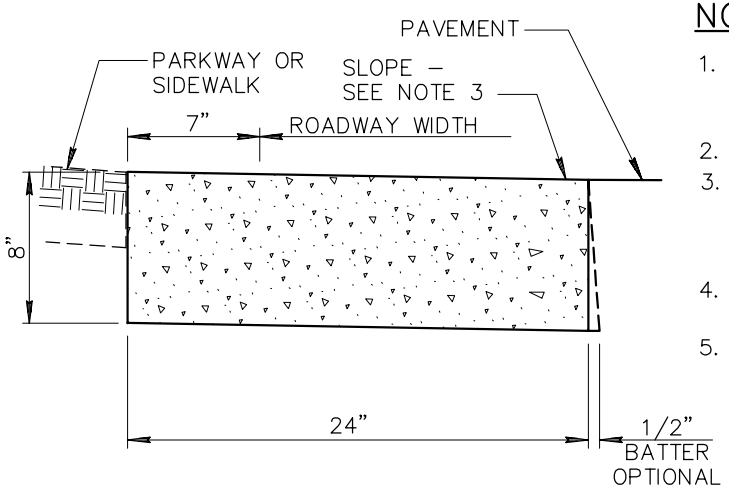


(TYPE D)

SPECIAL SECT. USE FOR HIGH SIDE CURB WITH SHEET DRAINAGE ACROSS STREET



RIBBON CURB (TYPE B)



NOTES: (TYPE B)

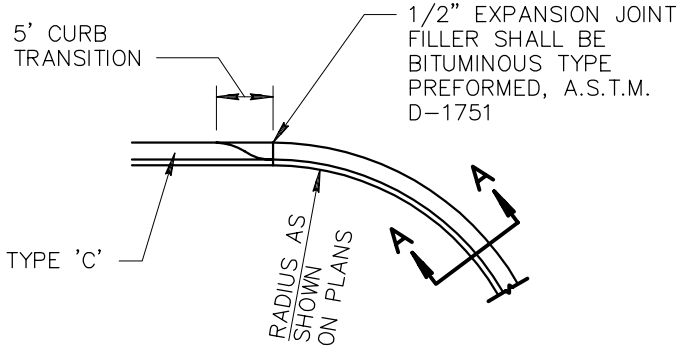
1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751. SECT. 340.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONTRACTION JOINT SPACING 10' MAXIMUM.
5. CONCRETE SHALL BE CLASS 'B' PER SECT. 725 AND INSTALLED PER SECT. 505.

NOTES: (C & D)

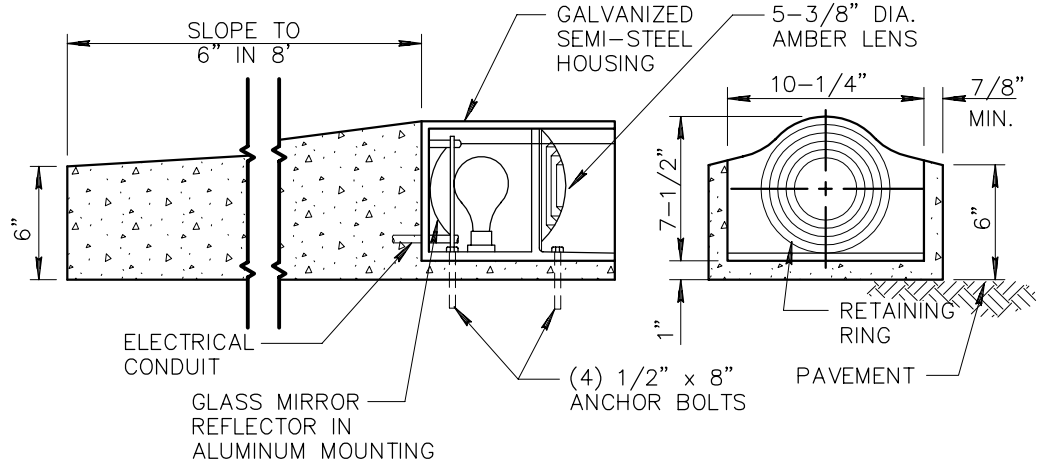
1. ALL WORK AND MATERIALS SHALL CONFORM TO SECT. 304, 505 AND 725. BROOM FINISH TO EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

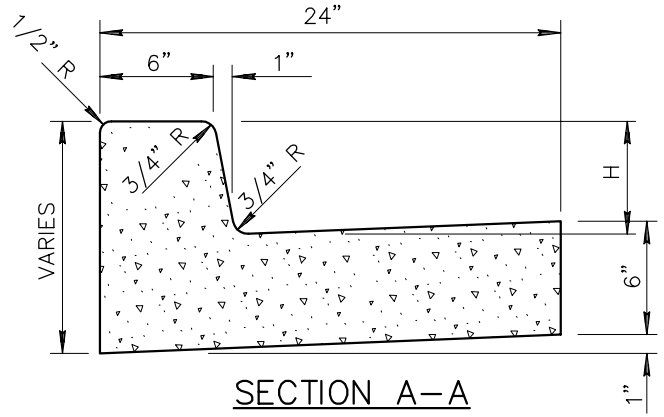
DETAIL NO.			REVISED	DETAIL NO.
220	MARICOPA ASSOCIATION of GOVERNMENTS **STANDARD DETAIL ENGLISH**	**CURB AND GUTTER TYPES A, B, C AND D**		220

CURB AND GUTTER TRANSITION



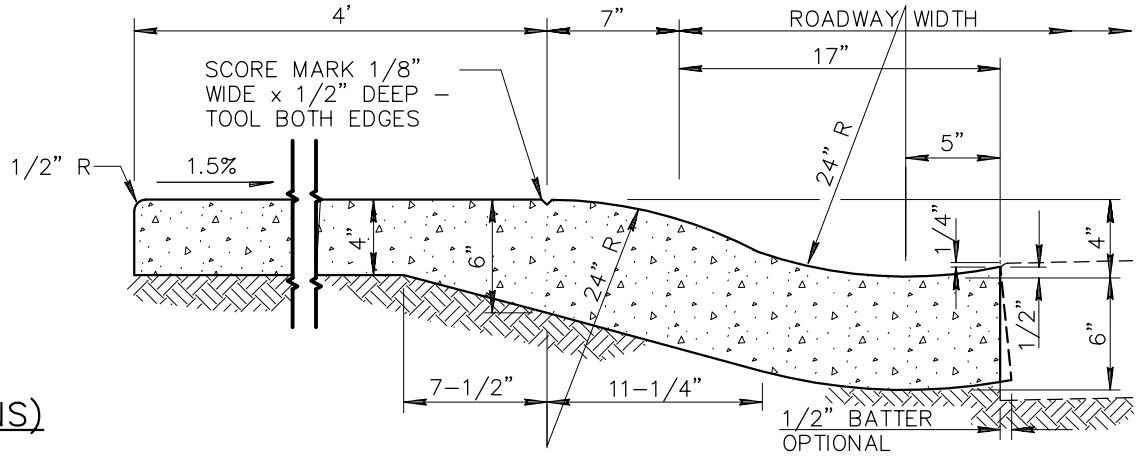
CURB WARNING BEACON





SECTION A-A

INTEGRAL ROLL CURB, GUTTER AND SIDEWALK



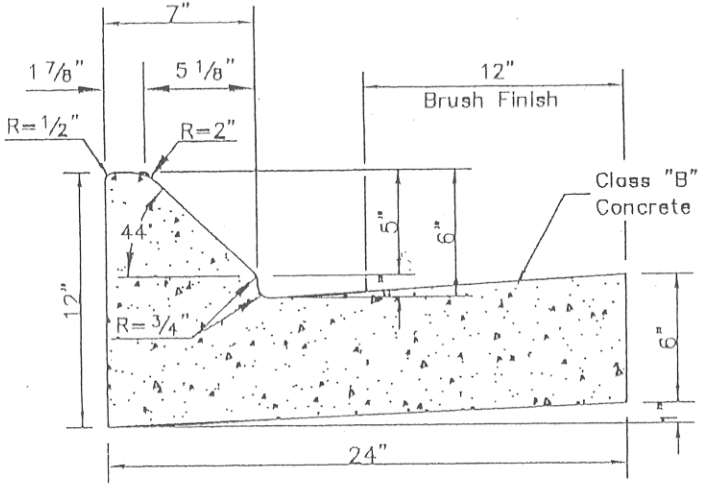
NOTES: (CURB AND GUTTER TRANSITIONS)

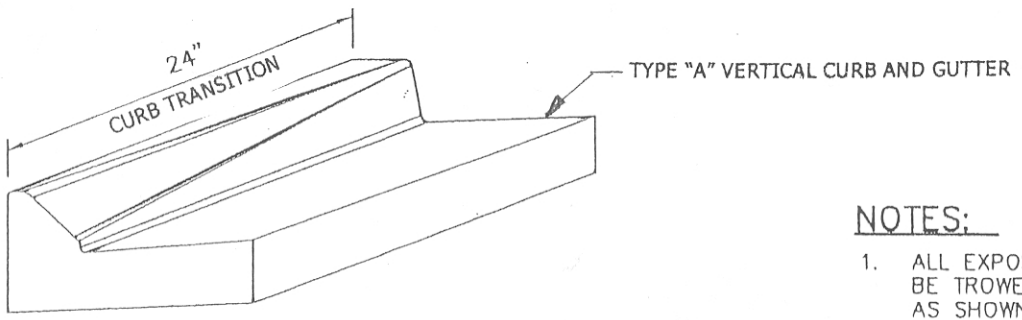
1. THE CURB TRANSITION WILL BE PAID FOR AS TYPE 'C'. WHEN A PROJECT CONSISTS OF TYPE 'C' CURB AND GUTTER THROUGHOUT, THE ENTIRE RETURN SHALL BE MEASURED AND PAID FOR AS TYPE 'A'.
2. WHERE PROPOSED CONSTRUCTION IS TO BE CONNECTED TO EXISTING CURB AND GUTTER, THE TRANSITION SHALL BE INDICATED ON PLANS.
3. CLASS 'B' CONCRETE PER SECT. 725.

NOTES:

1. CONCRETE TO BE MONOLITHIC POUR. EXPOSED SURFACE FINISH AS PER SIDEWALK AND GUTTER DETAIL.
2. CONTRACTION JOINT SPACING 16' MAXIMUM.
3. EXPANSION JOINTS PER SECT. 340.
4. CLASS 'B' CONCRETE PER SECT. 725.

DETAIL NO.			REVISED	DETAIL NO.
221	MARICOPA ASSOCIATION of GOVERNMENTS **STANDARD DETAIL ENGLISH**	**CURB AND GUTTER (TRANSITION, INTEGRAL & WARNING BEACON)**		221





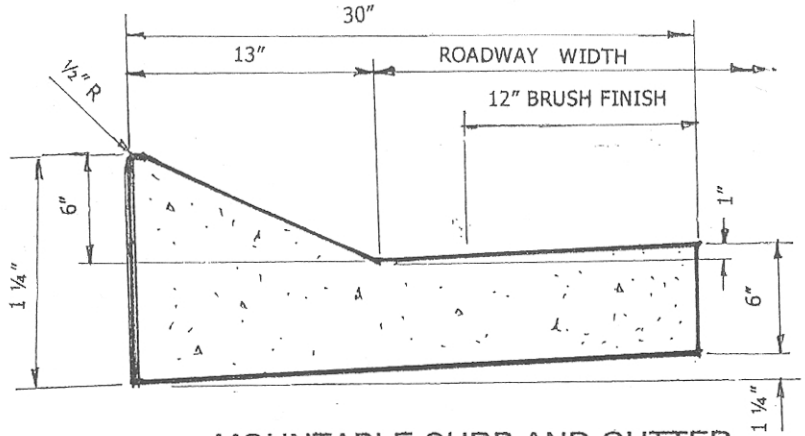
MOUNTABLE CURB TO VERTICAL CURB TRANSITION

MOUNTABLE CURB AND GUTTER (TYPE M-24)

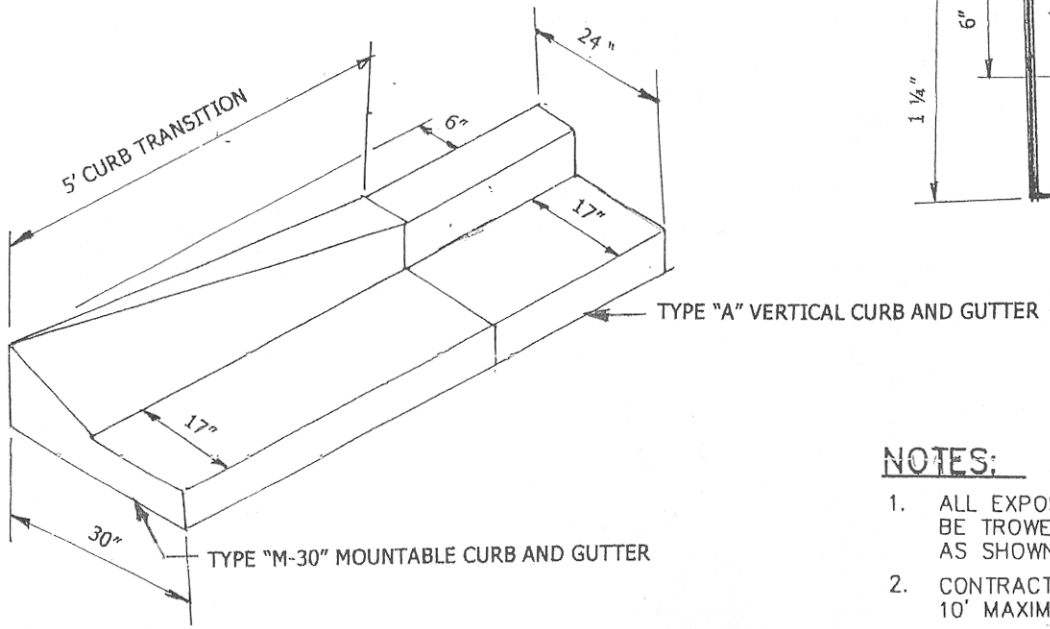
NOTES:

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

DETAIL NO.				REVISED	DETAIL NO.
220-1	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB AND GUTTER TYPE M-24			220-1



MOUNTABLE CURB AND GUTTER
(TYPE M-30)



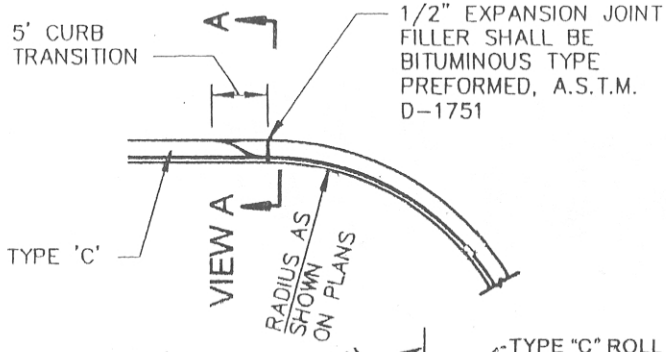
MOUNTABLE CURB TO VERTICAL CURB TRANSITION

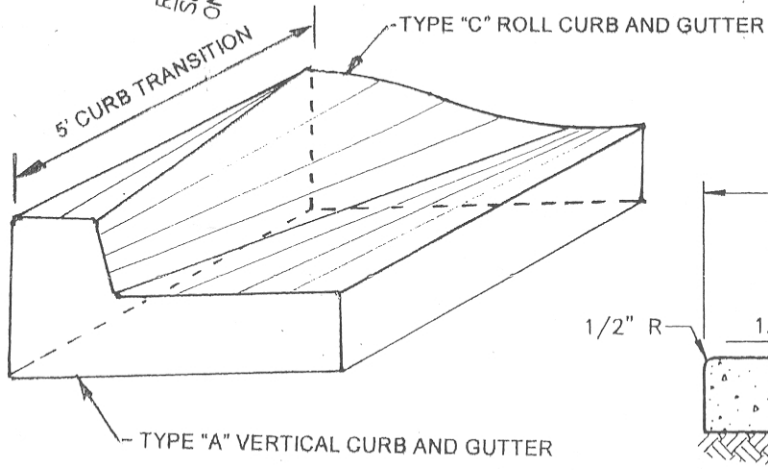
NOTES:

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

DETAIL NO.		CURB AND GUTTER TYPE M-30	REVISED	DETAIL NO.
220-2	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH			220-2

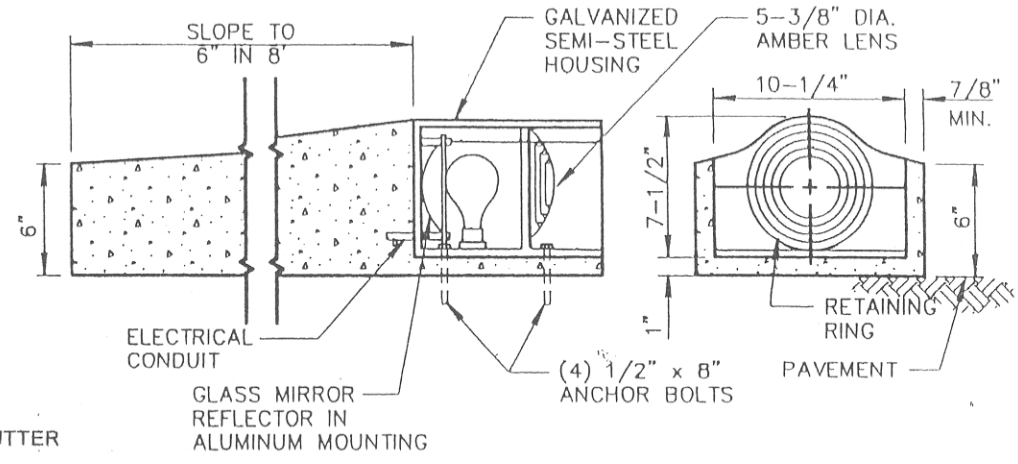
CURB AND GUTTER TRANSITION



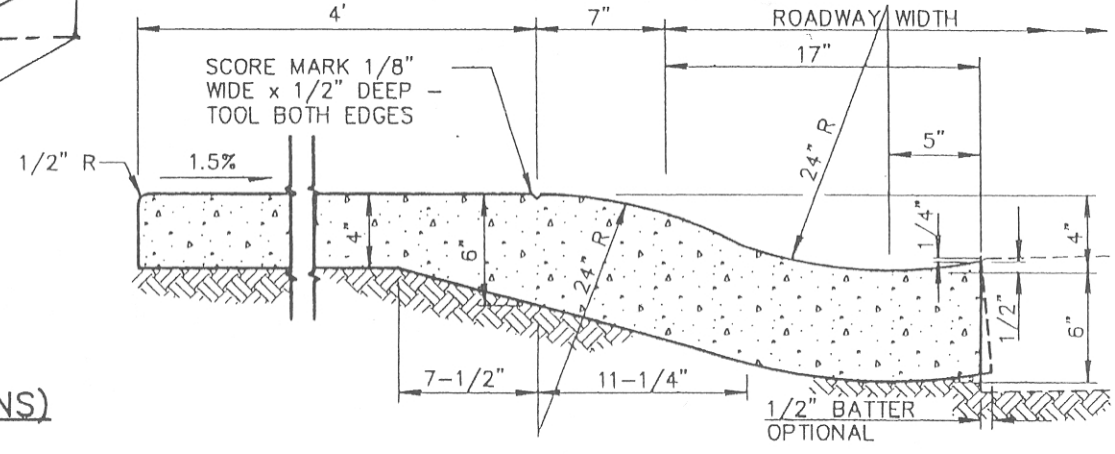


VIEW A-A

CURB WARNING BEACON



INTEGRAL ROLL CURB, GUTTER AND SIDEWALK



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2. CONTRACTION JOINT SPACING 16' MAXIMUM.
3. EXPANSION JOINTS PER SECT. 340.
4. CLASS 'B' CONCRETE PER SECT. 725.

DETAIL NO.				REVISED	DETAIL NO.
221	MARICOPA ASSOCIATION of GOVERNMENTS — STANDARD DETAIL ENGLISH	CURB AND GUTTER (TRANSITION, INTEGRAL & WARNING BEACON)			221

Detectable Warnings Seminar--

I. What are Detectable Warnings?

1. How are they used by blind community? **N-Direct FAQ Enclosed**
   Dome size and shape correct—as not to impede the use of the long cane.
2. Definitions of a marker?
3. Considerations for the mobility community as well- Dome spacing
4. Color and finishing the surrounding concrete-
   - A. Color (main choices)
     - I. Most popular colors
     - II. Contrast
   - B. Finishing the surrounding concrete
5. Two most important issues for products chosen-
   - A. Slip Resistance
   - B. Integral Color

MAG Spec Enclosed

II. Placement of Detectable Warnings-

1. Curb line- face of curb, back of curb, flow line **N-Direct Placement Doc Enclosed**
2. Depth of dome placement issues **N-Direct Proper Width/Depth Guide Doc Enclosed**
3. No more lines, grooves, exposed aggregate or striations

Accessible Sidewalks and Street Crossings-an information guide Enclosed
(An FHWA study completed in conjunction with Access Board in Washington, DC.)

III. Long-term Problems and/or Issues to consider-

1. Color and Fading-- UV Stability over time
2. Ability to Repair and Maintain
3. Moisture and air transference—hydration, cure times, etc.

N-Direct Moisture and Water Transference-Something to Consider Doc Enclosed

IV. Ramp Design-

1. Quarter round Design-toughest to design
2. One corner within 6 to 9 inches
3. Driveways
4. Effective Use of Curb

1995 Chapter 4 of Sidewalk Design from ADAAG
Color Ramp drawings for reference

V. Product Choice Selection

1. Brief Checklist

N-Direct Concerns with Bonding Long-Term to Concrete Doc Enclosed

VI. Specification writing

1. Control Joints **N-Direct Purpose of Control Joints Doc Enclosed**
2. Dome Spacing
3. Warranty and inspection
4. Make sure you review product data sheets to understand what is required, especially warranty and installation requirements.
5. Why would you ever let the contractor choose?

VII. Legal Issues

1. USDOJ-The ADA and City Government-Common Problems
2. City of Omaha recent agreement with DOJ

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Bill Naugle (623) 321-1665-fax Chandler, AZ 85249