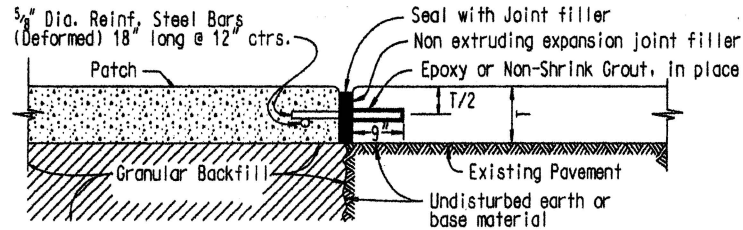
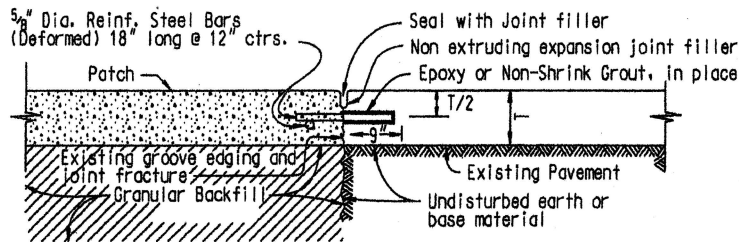


PATCH CONSTRUCTION DETAILS



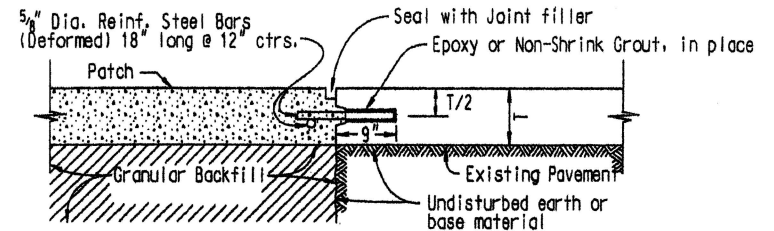
DETAIL "A"

To be used where patch is adjacent to transverse joints-
See Patch Types ① ② and ③



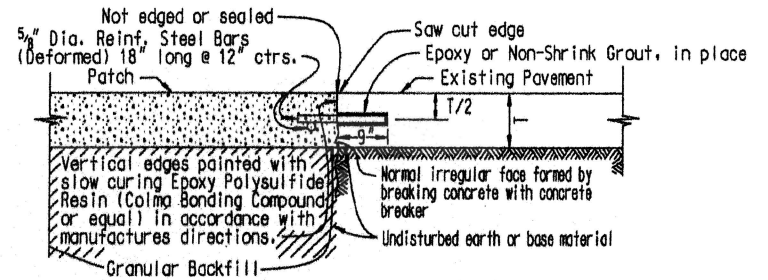
DETAIL "B"

To be used where patch is adjacent to transverse joints-
See Patch Types ① ② and ③



DETAIL "C"

To be used where patch is adjacent to longitudinal
keyed joint - See Patch Type ③



DETAIL "D"

To be used where patch is adjacent to existing concrete where no joint
is located - See Patch Types ① ② ③ and ④

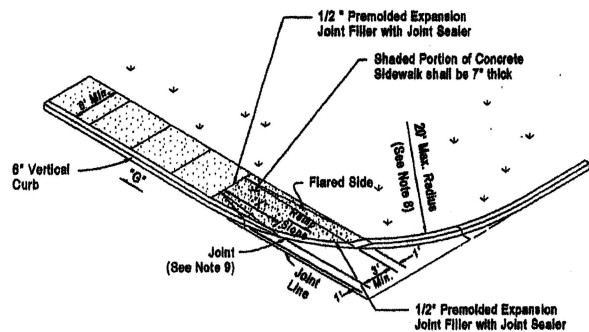
GENERAL NOTES

Minimum Thickness for Pavement
Replacement is:

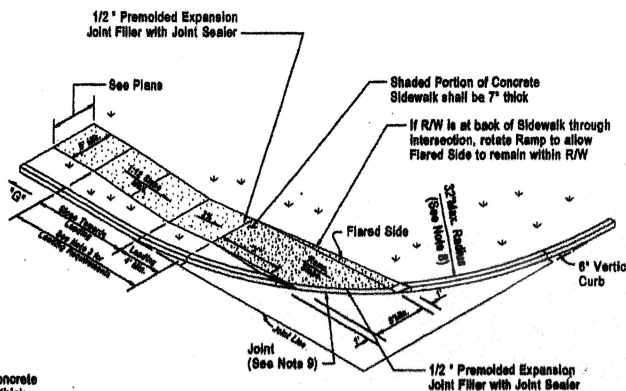
	CONCRETE (T)
All Residential Minor and Local Streets	6"
Residential Collector, All County and Non-Residential Streets	7"

MOSCOW MILLS

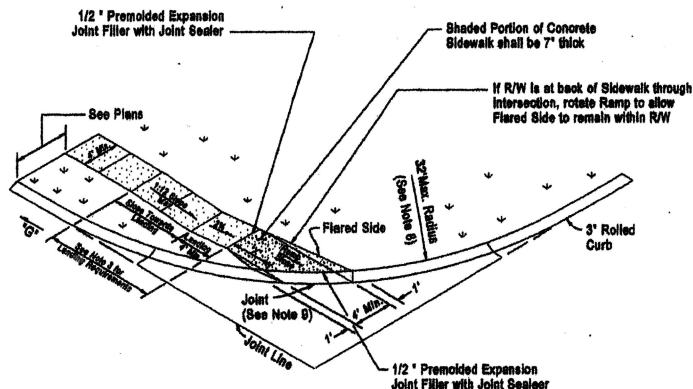
**CONC. PAVEMENT PATCH
CONSTRUCTION DETAILS**



Sidewalk at Back of Curb
STRAIGHT CURB RAMP - 6" VERTICAL CURB
(TYPE 1)



Treelawn at Back of Curb
STRAIGHT CURB RAMP - 6" VERTICAL CURB
(TYPE 2)



Treelawn at Back of Curb
STRAIGHT CURB RAMP - 3" ROLLED CURB
(TYPE 3)

TYPE 1 AND TYPE 2 CURB RAMPS	
"G" GRADE ALONG CURB (%)	"X" MIN. LENGTH OF RAMP SLOPE (L.F.)
NEGATIVE (-) VALUES	6
0 TO +1	7
+1.01 TO +2	8
+2.01 TO +3	10
+3.01 TO +4	12
GREATER THAN +4	15

NOTE: Positive (+)"G"- Proceeding away from intersection and up a grade.

Negative (-)"G"- Proceeding away from intersection and down a grade.

GENERAL NOTES

1. Do not scale drawing, follow dimensions.
2. Sidewalks and sidewalk curb ramps shall be constructed in accordance with these details and the current approved "Americans with Disabilities Act Accessibility Guidelines" (ADAAG)
3. Provide a landing at the top of each straight ramp when the Grade Along Curb ("G") is greater than +2% and less than +7%. For other values of "G", including all negative (-) values, no landing is required.
4. Minimum sidewalk width along 6" vertical curb shall be 6 feet.
5. Maximum sidewalk cross slope 0.02'/ft..
6. All sidewalk sections shall be 4" thick, except where indicated as 7" thick by shaded portions shown on details. All sidewalk sections and curb ramps, regardless of thickness, shall be paid for as "Concrete Sidewalk."
7. Where curb ramp meets pavement, bullnose will not be permitted.
8. Construct a diagonal ramp when the maximum corner radius allowed for a straight ramp is exceeded.
9. If monolithic concrete curb is constructed, strike a dummy joint across bottom of ramp at curb line. If concrete curb is doweled-on, block out pavement to provide full depth curb across ramp from outer point of curb taper to outer point of curb taper.

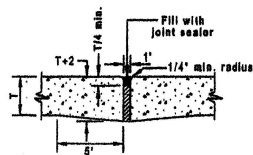
TYPE 3 CURB RAMP	
"G" GRADE ALONG CURB (%)	"X" MIN. LENGTH OF RAMP SLOPE (L.F.)
NEGATIVE (-) VALUES	3
0 TO +2	4
+2.01 TO +3	5
+3.01 TO +4	6
+4.01 TO +5	8
+5.01 TO +6	11
GREATER THAN +6	15

NOTE: Positive (+)"G"- Proceeding away from intersection and up a grade.

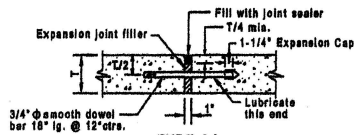
Negative (-)"G"- Proceeding away from intersection and down a grade.

MOSCOW MILLS

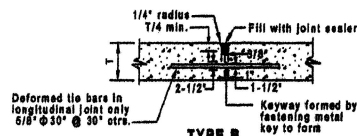
CONCRETE SIDEWALK &
CURB RAMP DETAILS



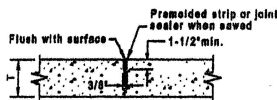
TYPE A
EXPANSION JOINT



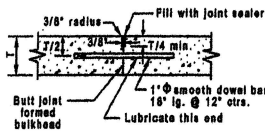
TYPE AA
ALTERNATE EXPANSION JOINT



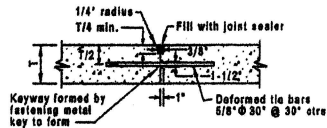
TYPE B
LONGITUDINAL
CONSTRUCTION JOINT
(See Note 6)



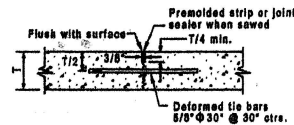
TYPE C
SAWED OR PREMOLDED STRIP
TRANSVERSE OR LONGITUDINAL
CONSTRUCTION JOINT
(See Note 4)



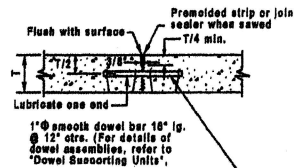
TYPE D
TRANSVERSE CONSTRUCTION JOINT



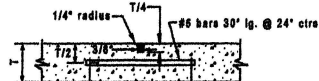
TYPE E
TIED TRANSVERSE
CONSTRUCTION JOINT
(To be used at point not on 20' spacing)



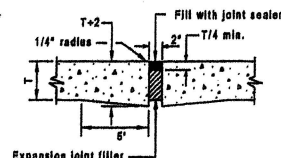
TYPE F
SAWED OR PREMOLDED STRIP
LONGITUDINAL CONSTRUCTION JOINT



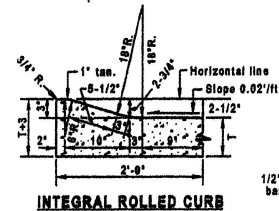
TYPE G
SAWED OR PREMOLDED STRIP
TRANSVERSE CONSTRUCTION JOINT
(See Note 4)



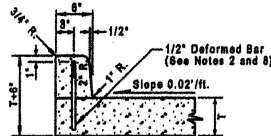
TYPE H
SAWED JOINT WITH TIE BARS



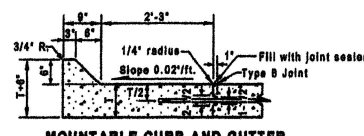
TYPE A2
EXPANSION JOINT



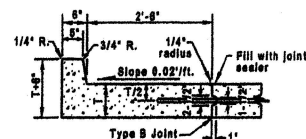
INTEGRAL ROLLED CURB



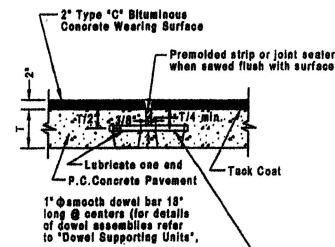
INTEGRAL VERTICAL CURB



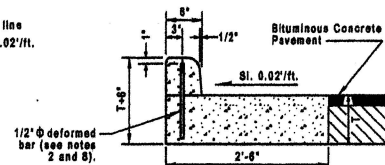
MOUNTABLE CURB AND GUTTER



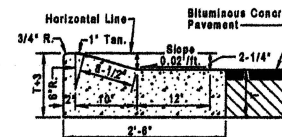
**VERTICAL CURB AND GUTTER
(3'-6" WIDE)**



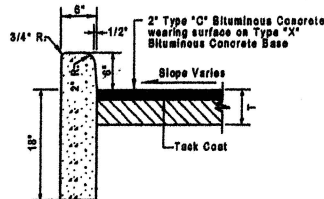
TYPE J
SAWED OR PREMOLDED STRIP
TRANSVERSE CONSTRUCTION JOINT
WITH BITUMINOUS OVERLAY



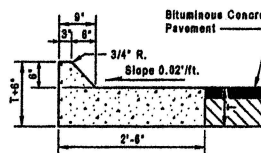
**VERTICAL CURB AND GUTTER
(2'-6" WIDE)**



**ROLLED CURB AND GUTTER
(2'-6" WIDE)**



TYPE S CONCRETE CURB



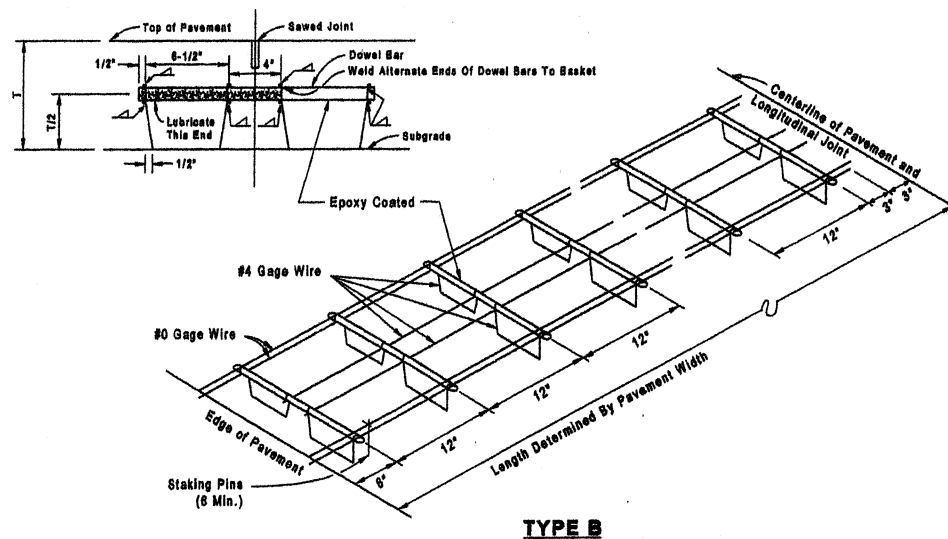
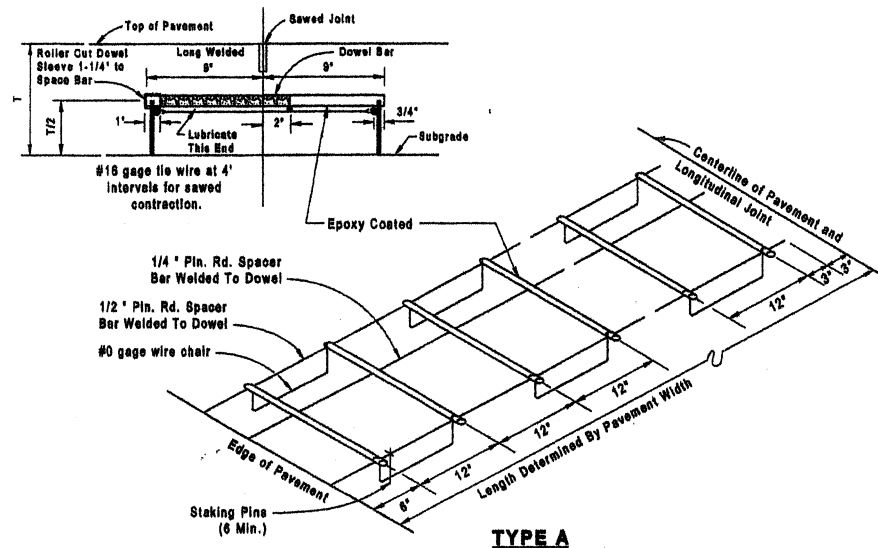
**MOUNTABLE CURB AND GUTTER
(2'-6" WIDE)**

GENERAL NOTES

- Do not scale drawing, follow dimensions.
- Construction joint and tie bars may be omitted when curb is poured integral with pavement.
- Minimum thickness for pavement is:
Concrete pavement thickness = (T)
Bituminous Concrete pavement thickness = (T)
All residential minor and local streets 6" 9"
Residential collector, residential major collector, non-residential streets 7" 10-1/2"
- Type "G" Transverse Joint is required for Non-Residential and Residential Major Collector Streets. Use Type "C" Transverse Joint for all others.
- For Subdivision or Minor Streets having 6" concrete pavement 1/2" deformed tie bars 30' long at 30' centers shall be used for Type "B" Longitudinal Joints.
- All deformed bars for joints and curbs shall be in accordance with AASHTO M 31, Grade 40 and epoxy coated, conforming to the requirements in Section 1057.4 of the St. Louis County Standard Specifications.
Length of the tie bars shall equal the thickness of pavement plus the height of curb less 3". Tie bars shall be placed at 24' centers.
- All dowel bars 18" long @ 12' centers shall be epoxy coated.

MOSCOW MILLS

CURB & JOINT
DETAILS



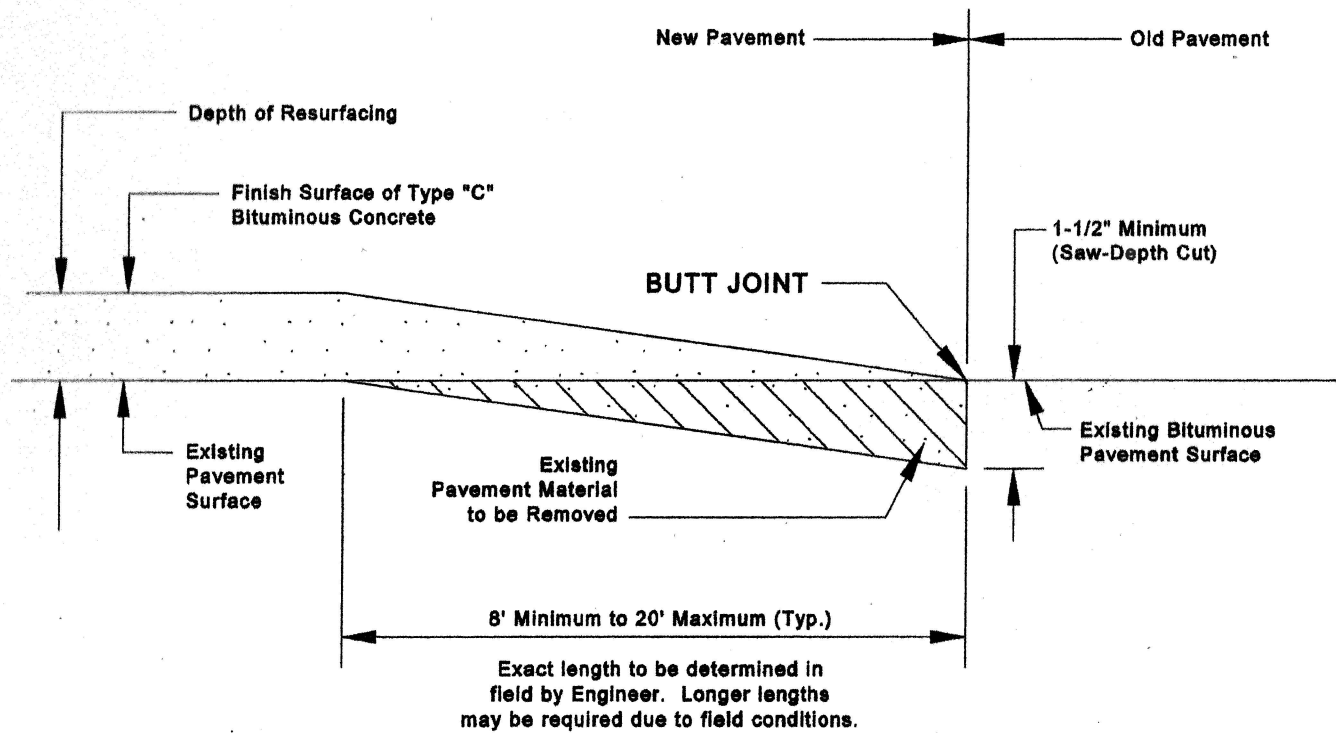
GENERAL NOTES

1. Do not scale drawing, follow dimensions.
2. The dowel supporting units shall be factory assembled and capable of holding the dowels in their required positions. In the completed joint installation, no dowels shall vary from its required position more than 1 in 36.
3. The dowel bar spacing shall be 12 inches on centers, beginning 6 inches from outer edge of the pavement.
4. Staking pins shall be fabricated from 0ga. (0.3068) wire minimum with suitable hook. Staking pins shall have a length of 18 inches Type A and Type B Assemblies unless otherwise directed by the engineer.
5. Wires, bars, or clips shall be used as necessary to strengthen the assemblies.
6. Minor variations in the configuration of the support units will be allowed.
7. The wire end of each epoxy coated dowel shall be marked with a spot of paint at least one inch in diameter and contrasting in color with the epoxy coating.
8. The free end of the dowel bar for a length of at least 11 inches shall be coated with an approved graphite grease.

DOWEL BARS-EPOXY COATED		
PAVEMENT THICKNESS	BAR SIZE	
	DIAMETER	LENGTH
7"	1"	18"
8"	1"	18"
9" or 10"	1-1/4"	18"

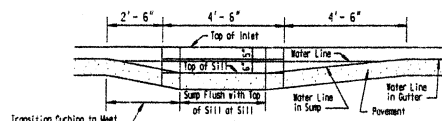
MOSCOW MILLS

DOWEL SUPPORT
UNIT DETAILS
(FOR TRAVERSE
JOINTS ONLY)

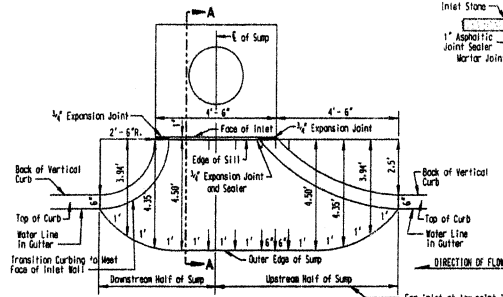


MOSCOW MILLS

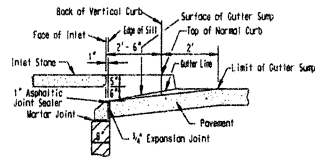
BUTT JOINT
DETAILS



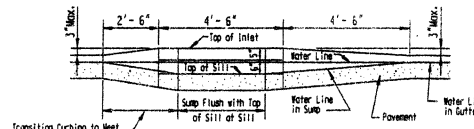
**FRONT VIEW OF GUTTER SUMP
VERTICAL CURB**



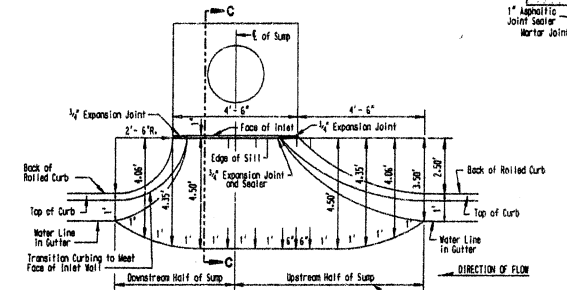
**PLAN VIEW OF GUTTER
VERTICAL CURB**



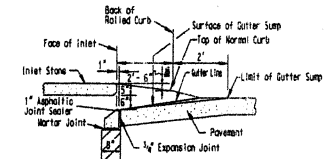
SECTION A - A



**FRONT VIEW OF GUTTER SUMP
ROLLED CURB**



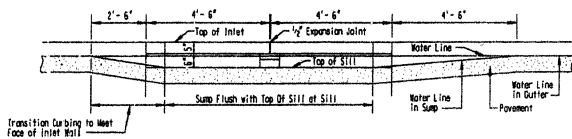
**PLAN VIEW OF GUTTER
ROLLED CURB**



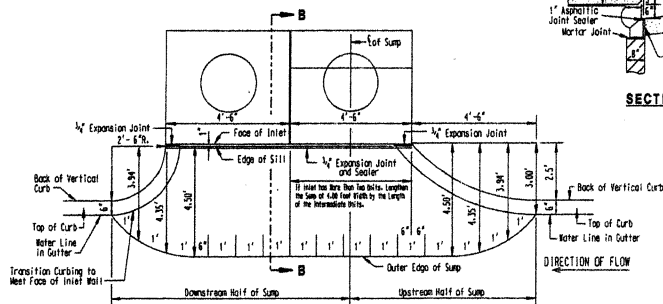
SECTION C - C

GENERAL NOTES

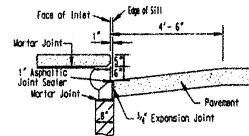
- 1) Do not scale drawing, follow dimensions.
- 2) The details shown are adapted from "Revised Standard Construction Details for Sewer and Drainage Facilities", dated 2000.
- 3) The standard specification sections noted refer to the "Standard Construction Specifications for Sewers and Drainage Facilities" of the Metropolitan St. Louis Sewer District, dated 2000.
- 4) Curb and inlet sumps may be modified due to field conditions.
- 5) All expansion joints to be sealed.



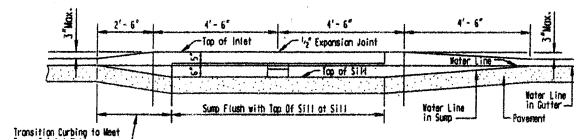
**FRONT VIEW OF GUTTER SUMP FOR MULTIPLE UNIT
VERTICAL CURB**



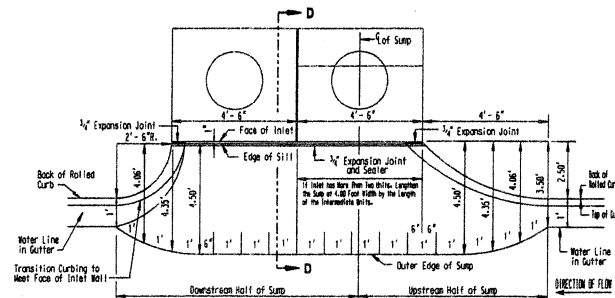
**PLAN VIEW OF GUTTER SUMP FOR MULTIPLE UNIT
VERTICAL CURB**



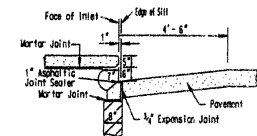
SECTION B - B



**FRONT VIEW OF GUTTER SUMP FOR MULTIPLE UNIT
ROLLED CURB**



**PLAN VIEW OF GUTTER SUMP FOR MULTIPLE UNIT
ROLLED CURB**



SECTION D - D

MOSCOW MILLS

**STREET INLET
SUMPS**