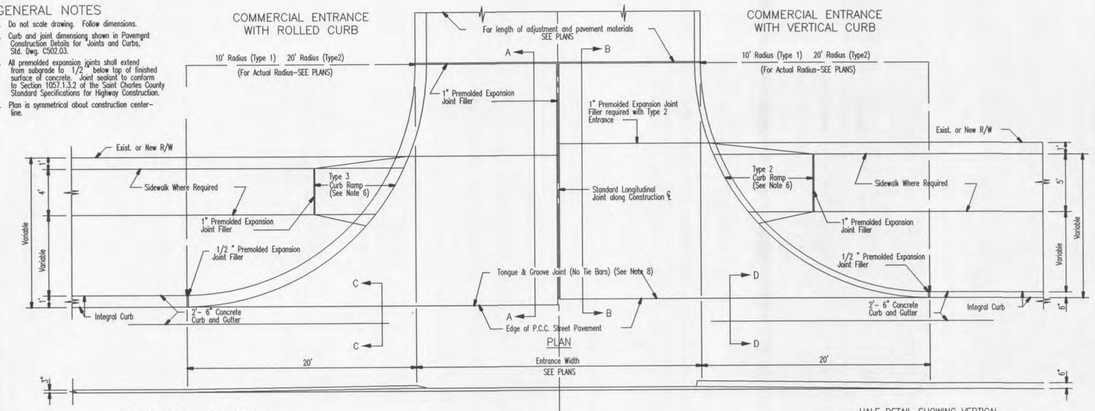
## GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Curb and joint dimensions shown in Pavement Construction Details for Joints and Curbs, Std. Dwg. C502.03.
3. All premolded expansion joints shall extend from subgrade to 1/2" below top of finished surface of concrete. Joint sealant to conform to Section 1057.1.3.2 of the Saint Charles County Standard Specifications for Highway Construction.
4. Plan is symmetrical about construction center-line.

COMMERCIAL ENTRANCE WITH ROLLED CURB

COMMERCIAL ENTRANCE WITH VERTICAL CURB

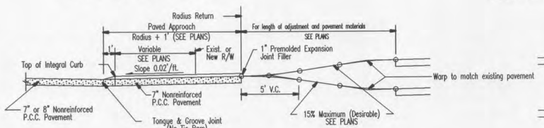



PLAN

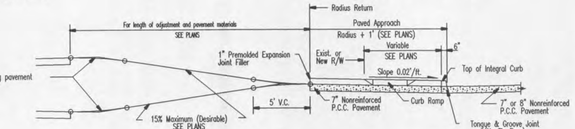
ELEVATION

HALF DETAIL SHOWING ROLLED INTEGRAL CURB OR CURB AND GUTTER

HALF DETAIL SHOWING VERTICAL INTEGRAL CURB OR CURB AND GUTTER

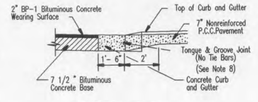



SECTION A–A

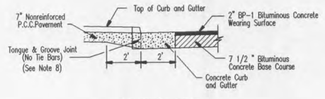



SECTION B–B

5. The thickness of the first section of sidewalk and/or curb ramp on each side of the entrance shall be increased to match the driveway pavement thickness (7").
6. Curb ramps are required with sidewalk and curb.
7. Premolded Expansion Joint Filler material shall consist of a solid polymer foam or sponge rubber product that exhibits at least 90% recovery when tested in accordance to ASTM D-5249.
8. For new concrete entrance at existing pavement and curbing, sawcut at 1 foot and install tie bars. 5/8 " diameter, 18" long, at 12" centers along all saw cut edges. New tie bars shall be placed in drilled holes with Non-Shrink Grout. Tie bars, where existing, shall be cleaned and straightened for incorporation in the new concrete.



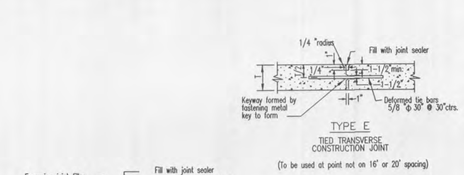

SECTION C–C

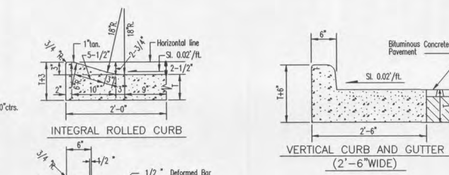


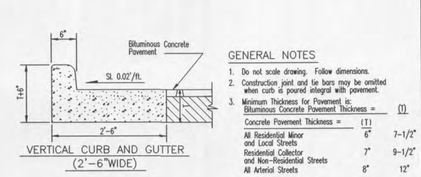

SECTION D–D

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

ENTRANCE CONSTRUCTION DETAILS
TYPE 1 & 2 SPECIAL
COMMERCIAL
CONCRETE ENTRANCES




## GENERAL NOTES

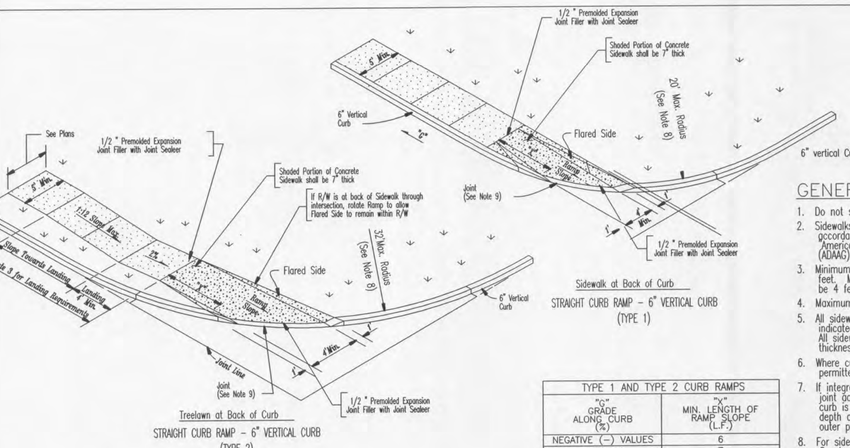
1. Do not scale drawing. Follow dimensions.
2. Construction joint and tie bars may be omitted when curb is poured integral with pavement.
3. Minimum Thickness for Pavement is:

| Bituminous Concrete Pavement Thickness = | (1) |
|---|---|
| Concrete Pavement Thickness = | (1) |
| All Residential Minor and Local Streets | 6" 7-1/2" |
| Residential Collector and Non-Residential Streets | 7" 9-1/2" |
| All Arterial Streets | 8" 12" |

4. Type "C" Transverse Joint is required for Arterial and Non-Residential streets. Use Type "C" Transverse Joint for all others.
5. For Subdivision or Minor Streets having 6" concrete pavement. 1/2 "ϕ deformed tie bars 30" long at 30" centers shall be used for Type "B" Longitudinal Joints and 1/2"ϕ deformed tie bars 18" long at 30 " centers shall be used for Type "I" Longitudinal Joints.
6. Refer to Pavement Construction Details for Integral Vertical Curb and Concrete Pavement Typical Sections and Details and Integral Rolled Curb and Concrete Pavement Typical Sections and Details. for joint and bar requirements for different street classifications. Note that width and location of each poured portion of the pavement may change the type and location of joint required.
7. All deformed bars for joints and curbs shall be Billet Steel Bars conforming to A.S.T.M.615-75, Grade 40.
8. Length of the tie bars shall equal the thickness of pavement plus the height of curb less 3". Tie bars shall be placed @ 24"centers.
9. Transverse or longitudinal construction joints in slip formed pavements may be made with a groover or tool, if such device has been approved in advance by the Department.
10. The free end of the dowel bar for a length of at least 11 inches shall be coated with an approved graphite grease.
11. All dowel bars 18"lg. @ 12"ctrs. shall be epoxy coated.
12. Expansion joint A-2 from St. Louis County pavement construction details, shall be allowed in addition to Type A and AA expansion joints.

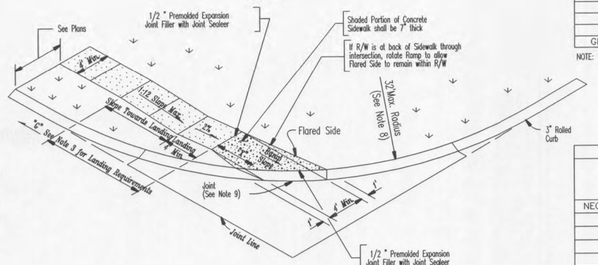
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
JOINTS AND CURBS




| 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.

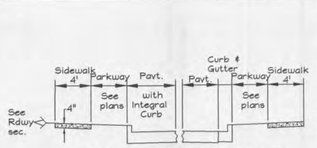


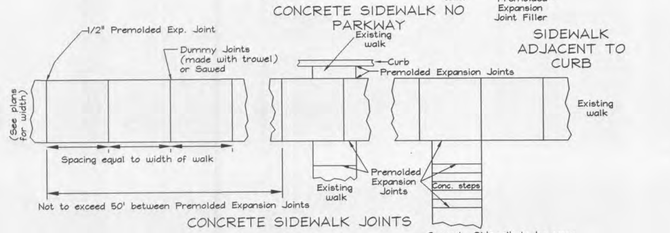

| TYPE 3 CURB RAMP | |
|---|---|
| "G" GRADE ALONG CURB (%) | "X" MIN. LENGTH OF RAMP SLOPE (L.F.) |
| NEGATIVE (–) VALUES | 3 |
| 0 to +2 | 4 |
| +2.01 to +3 | 5 |
| +3.01 to +4 | 6 |
| +4.01 to +5 | 8 |
| +5.01 to +6 | 11 |
| GREATER THAN +6 | 15 |

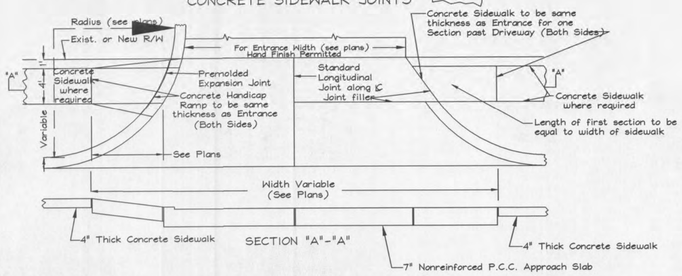
NOTE: Positive (+)"G"– Proceeding away from intersection and up a grade.
Negative (–)"G"– Proceeding away from intersection and down a grade.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CONCRETE SIDEWALK
WITHIN CUL-DE-SACS




## GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Sidewalk cross slope 0.02'/ft.
3. Sidewalk thickness increases to 6" on each side of Private Driveways and 7" on each side of Commercial Driveways for one section of sidewalk equal in length to the width of the sidewalk. See "Entrance Construction Details".
4. For sidewalk locations on Cul–De–Sacs see "Pavement Construction Details".
5. For longitudinal and transverse joints, dowel, and tie bar requirements and dimensions refer to the "Integral Curb Pavement Typical Sections and Details".
6. For roadway cross slopes, pavement types, and thickness, refer to "Standard Typical Section".

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

CONCRETE SIDEWALK
THROUGH
COMMERCAL ENTRANCES

SEAL
STATE OF MISSOURI
WILLIAM
AUGUST
HEYSE
NUMBER
E-24297
9-27-13
WILLIAM AUGUST HEYSE P.E.
PROFESSIONAL ENGINEER E-24297

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1687 REMBRANDT DR.
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LDC INCORPORATED
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M.O. CERT. OF AUTHORITY FOR ENGINEERING SERVICES
SERIAL NO. E-1596-D


Consultants:
Frazier Land Surveying Services, Inc
705 Ballantrae Dr
Wentzville, Missouri 63358
Phone: (636) 332-0610
Fax: (636) 332-0710

PROJECT
WALK-IN COOLER ADDITION
1228 BRYAN RD.
O'FALLON, MISSOURI

REVISION

DRAWN BY GMK
CHECKED BY JPT
DATE 9–25–13
JOB. NO. 13.560
SCALE NTS
SHEET C4