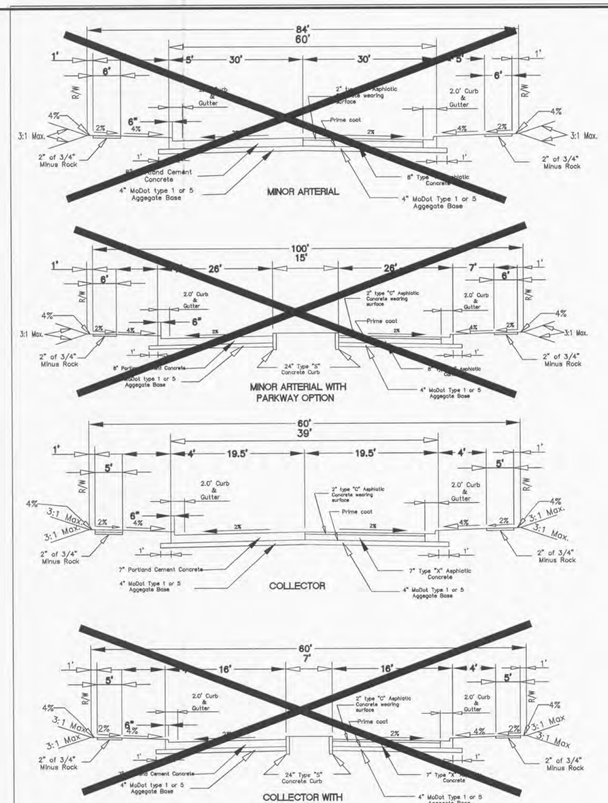
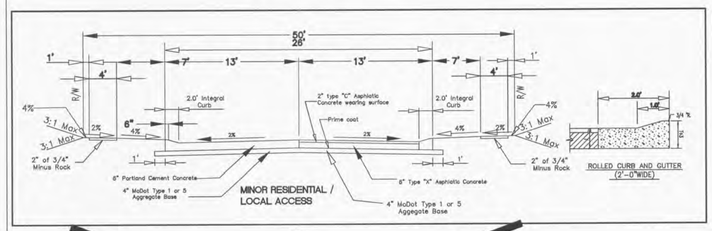
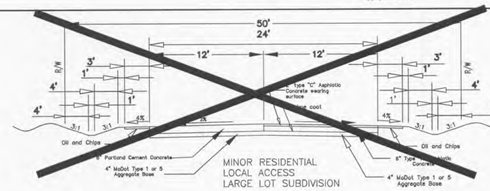






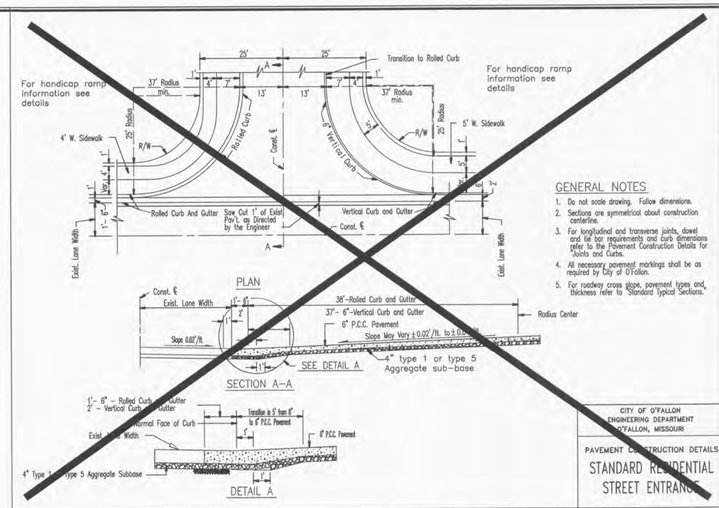
	ROW Width	Pavement Width	Lane Width	No. of Drive Lanes	Utility Easement	Design Speed
Minor Arterial	84	60	12	5	10	40
Collector	60	39	12	3	10	35
Residential Collector	56	32**	N/A	2	10	25
Minor Residential Local Access	50	26	N/A	2	10	25*

Notes: * = Can be varied with City Engineer's approval
** = Detail to match minor residential street with wider pavement
– these requirements may be varied by other City ordinances
– these standards are minimum standards
– Parkway options can be provided as indicated above

Designer will provide roadway cross section and joint locations in a seperate detail drawing.

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

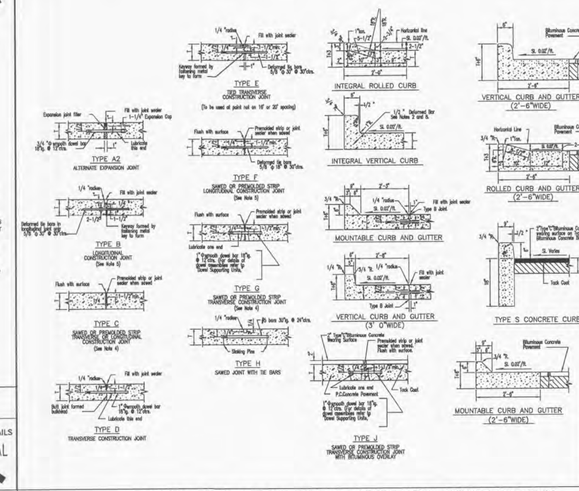
Typical Pavement Design
SECTION NO. 405.370



GENERAL NOTES
1. Do not scale drawing. Follow dimensions.
2. Sections are symmetrical about construction centerline.
3. For longitudinal and transverse joints, dowel and tie bar requirements and curb dimensions refer to the Pavement Construction Details for Joints and Curbs.
4. All necessary pavement markings shall be as required by City of O'Fallon.
5. For roadway cross slope, pavement types and, thickness refer to Standard Typical Sections.

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

PAVEMENT CONSTRUCTION DETAILS
STANDARD RESIDENTIAL STREET ENTRANCE

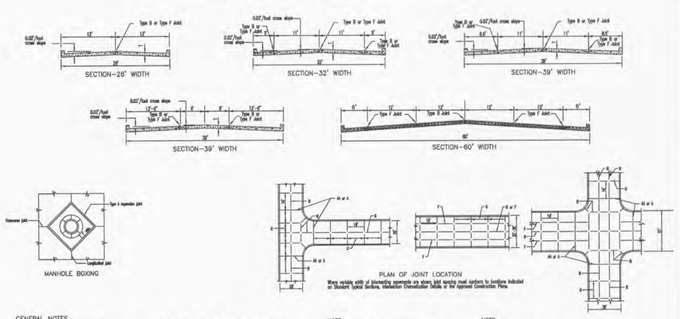


GENERAL NOTES
1. Do not scale drawing. Follow dimensions.
2. Construction joint and tie bars may be omitted when curb is poured integral with pavement.
3. Minimum Thickness for Pavement is:
Monolithic Concrete Pavement Thickness = (T)
Concrete Pavement Thickness = (T)
Residential Minor and Local Streets 6" 7-1/2"
Residential Collector Streets 7" 9-1/2"
Arterial Streets 8" 12"
4. Type "V" 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 of concrete pavement less than 26' in width, 30' in length, and 6" in thickness, a 3/4" smooth dowel bar 18"lg. @ 12" c/c shall be used for Type "C" transverse joints and 1/2"ø deformed tie bars 30"long @ 30" centers shall be used for Type "V" longitudinal joints.
6. Refer to Pavement Construction Details for "Integral Vertical Curb and Concrete Pavement Typical Sections and Details", "Integral Rolled Curb and Concrete Pavement Typical Sections and Details".
7. Refer to Pavement Construction for different small dimensions, the true width and location of each dowel pattern of the pavement will change the type and location of joint required.
8. All deformed bars for joints and curbs shall be 1/2"ø, Grade 60 bars conforming to A.S.T.M.Designation A-615.
9. Length of the tie bars shall equal the thickness of pavement plus the length of each bar 3". Tie bars shall be placed 30 3" centers.
10. Transverse or longitudinal construction joints, in slip formed pavements may be made with a transverse or longitudinal "Keyed" joint approved in advance by the Department.
11. The free end of the dowel bar for a length of 2 dowel 1" inches shall be coated with an approved graphite grease.
12. Dowel bars 1/2"ø & 12"lns. shall be epoxy coated.
13. Expansion joint A-1-2 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

INTEGRAL VERTICAL CURB AND CONCRETE JOINT DETAILS



GENERAL NOTES
1. Do not scale drawing. Follow dimensions.
2. All dowel bars shall be separated from the pavement and curb by a bituminous material extending through curb and gutter, section shallow where the pavement depth shall be based as shown.
3. When a joint falls within 20' of, or contacts inlets, manholes, or other structures, shortens one or more panels either side of opening to permit joint to fall on neared structures and at or between corners of rectangular structures.
4. Driveway configurations are shown in the "Entrance Construction Details".
5. Construction joints and tie bars may be omitted when curb is poured monolithic with pavement.
6. Minimum Thickness for Pavement is:
Residential 26'-32' wide Streets 6"
Residential 39' wide Streets 7"
7. For joint and bar requirements refer to the Pavement Construction Details for Joints and Curbs. Note that the width and location may change the type of joint required.
8. Transverse or longitudinal construction joints in slip formed pavements shall be a saw cut joint. at a max. 14' spacing
9. The locations of the Type B longitudinal construction joints in the sections may be interchanged for the different widths of construction if approved by the Department.

NOTE
Joint filler material shall meet ASTM designations as follows:
Bituminous type ..... ASTM D-994-52
Non extruding & resilient bituminous type (fiber) ..... ASTM D-1751-52T
Non extruding & resilient non bituminous type (rubber) ASTM D-5249

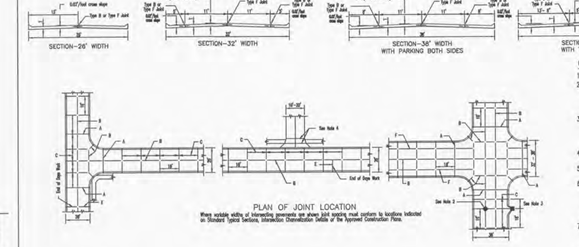
NOTE
Joint sealant material shall meet ASTM and AASHTO designations as follows:
ASTM D-3405 ..... AASHTO M-301 or
ASTM D-1190-74 ..... AASHTO M-173-84
or latest revisions thereof.

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT			
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS	
All Arterial, Non-Residential	Transverse	TYPE A 1"ø smooth dowel bars 18"lg. @ 12" ctrs.	
26'-51' wide pavement	Longitudinal	Within a paved surface: TYPE F 1/2"ø deformed tie bars 18"lg. @ 30"ctrs.	At the edge between two paved sections: TYPE E 1/2"ø deformed tie bars 30"lg. @ 30"ctrs.
7"-8" thick concrete	Expansion	TYPE A or Type A Modified	

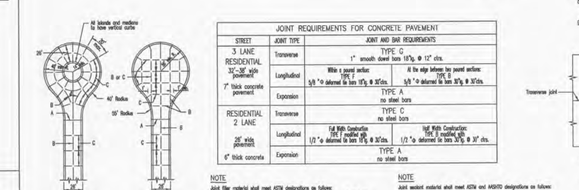
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
INTEGRAL VERTICAL CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS

INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS



GENERAL NOTES
1. Do not scale drawing. Follow dimensions.
2. All dowel bars shall be separated from the pavement and curb by expansion joint material extending through curb and gutter section shallow where the pavement depth shall be based as shown.
3. When a joint falls within 20' of, or contacts inlets, manholes, or other structures, shortens one or more panels either side of opening to permit joint to fall on neared structures and at or between corners of rectangular structures.
4. Driveway configurations are shown in the "Entrance Construction Details".
5. Construction joints and tie bars may be omitted when curb is poured monolithic with pavement.
6. Minimum Thickness for Pavement is:
Residential 26'-32' wide Streets 6"
Residential 39' wide Streets 7"
7. For joint and bar requirements refer to the Pavement Construction Details for Joints and Curbs. Note that the width and location may change the type of joint required.
8. Transverse or longitudinal construction joints in slip formed pavements shall be a saw cut joint. at a max. 14' spacing
9. The locations of the Type B longitudinal construction joints in the sections may be interchanged for the different widths of construction if approved by the Department.



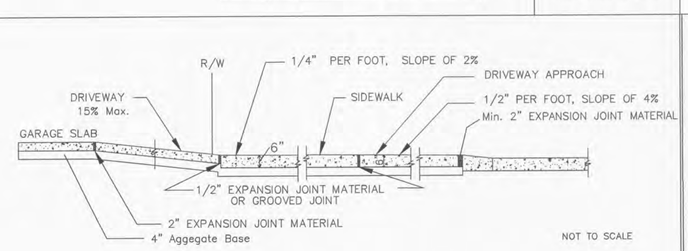
JOINT REQUIREMENTS FOR CONCRETE PAVEMENT			
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS	
3 LANE RESIDENTIAL 32'-38' wide pavement	Transverse	TYPE C 1" smooth dowel bars 18"lg. @ 12" ctrs.	
7" thick concrete pavement	Longitudinal	Within a paved surface: TYPE F 1/2"ø deformed tie bars 18"lg. @ 30"ctrs.	At the edge between two paved sections: TYPE E 1/2"ø deformed tie bars 30"lg. @ 30"ctrs.
	Expansion	TYPE A no steel bars	
RESIDENTIAL 2 LANE 26' wide pavement 6" thick concrete	Transverse	TYPE C no steel bars	
	Longitudinal	Full Width Construction: TYPE F modified with 1/2"ø deformed tie bars 18"lg. @ 30"ctrs.	Half Width Construction: TYPE E modified with 1/2"ø deformed tie bars 30"lg. @ 30" ctrs.
	Expansion	TYPE A no steel bars	

NOTE
Joint filler material shall meet ASTM designations as follows:
Bituminous type ..... ASTM D-994-52
Non extruding & resilient bituminous type (fiber) ..... ASTM D-1751-52T
Non extruding & resilient non bituminous type (rubber) ASTM D-5249

NOTE
Joint sealant material shall meet ASTM and AASHTO designations as follows:
ASTM D-3405 ..... AASHTO M-301 or
ASTM D-1190-74 ..... AASHTO M-173-84
or latest revisions thereof.

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

PAVEMENT CONSTRUCTION DETAILS
INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS



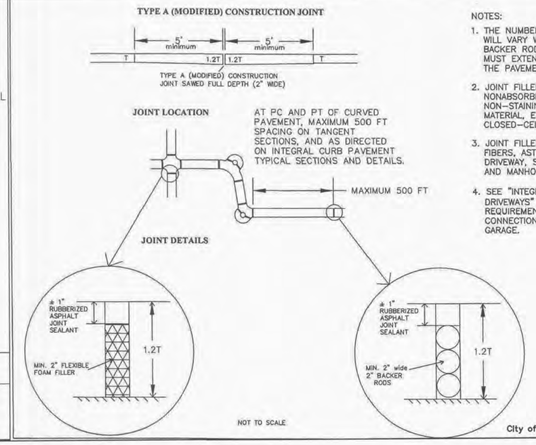
NOT TO SCALE

NOTES:
1- All driveway entrances shall be six (6) inches P.C.C. in depth from the curb to the property line.
2- All driveway approaches constructed in conjunction with sidewalk shall give the appearance that the sidewalk is continuous. That portion of the driveway approach that doubles as a sidewalk shall have a one-fourth (1/4) inch per foot cross slope the same as the abutting sidewalk.
3- A two (2) inch expansion joint is required between the street and driveway approach. One (1) additional two (2) inch expansion joint is required between the garage floor and the termination of the driveway.

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

Integral Curb Detail "B" at Driveway
SECTION NO. 505.080

TYPE A (MODIFIED) CONSTRUCTION JOINT



NOTES:
1. THE NUMBER OF BACKER RODS REQUIRED WILL VARY WITH THE PAVEMENT THICKNESS. BACKER RODS AND FLEXIBLE FOAM FILLER MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.
2. JOINT FILLER SHALL BE A FLEXIBLE, NONABSORBENT, NON-GASSING, NON-STAINING, NON-SHRINKING MATERIAL, EXTRUDED FROM A CLOSED-CELL POLYMER, ASTM D-5249.
3. JOINT FILLER COMPOSED OF CELLULAR FIBERS, ASTM D-1751, MAY BE USED AT DRIVEWAY, SIDEWALK, AND SEWER INLET AND MANHOLE LOCATIONS.
4. SEE "INTEGRAL CURB DETAIL "B" AT DRIVEWAYS" FOR EXPANSION JOINT REQUIREMENTS AT DRIVEWAY CONNECTIONS TO THE STREET AND THE GARAGE.

NOT TO SCALE

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

PAVEMENT CONSTRUCTION DETAIL

City of O'Fallon Standard Subdivision Notes and Details – June 2010

NOTE: ALL NON-REINFORCED CONCRETE SHALL BE 4,000 p.s.i. AT 28 DAYS.

PROJECT TITLE
BROOKSIDE VILLAGE A

PRS No. 03029.LOMB.01R

PICKETT, RAY & SILVER INC
CIVIL ENGINEERING, LAND SURVEYING, AND NATURAL RESOURCES SERVICES
St. Peters: 22 Ridgeview Court, St. Peters, MO 63376
Branson: 110 Westport Plaza Drive, Suite 201, Branson, Mo 65616
Phone (636) 397-1211 Fax (636) 397-1104
www.prs3.com 1-800-708-3918

ENGINEERS AUTHENTICATION
THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS HEREBY LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE HEREUNDER ATTACHED. RESPONSIBILITY IS DISCLAIMED FOR ALL OTHER ENGINEERING PLANS INVOLVED IN THIS PROJECT AND SPECIFICALLY EXCLUDES REVISIONS AFTER THIS DATE UNLESS REAUTHENTICATED.

PICKETT, RAY & SILVER, INC. MO LICENSE #000325

STATE OF MISSOURI
DOUGLAS S. TIEMANN
NUMBER E-23345
PROFESSIONAL ENGINEER

DOUGLAS S. TIEMANN
PROFESSIONAL ENGINEER LICENSE E-23345

Developer / Owner Information
Lombardo Homes of St. Louis, LLC
2299 Technology Drive, Suite 150
O'Fallon, Missouri 63368
50 YEARS Lombardo HOMES OF EXCELLENCE

CITY OF O'FALLON Pavement Details

P+Z No. 2603.04

City No.