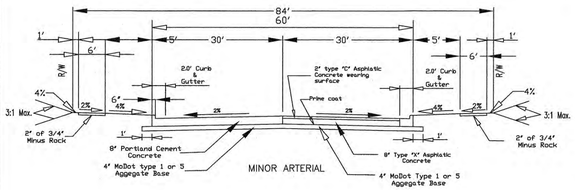
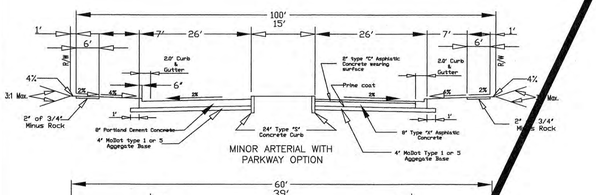
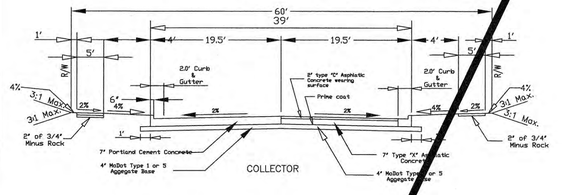
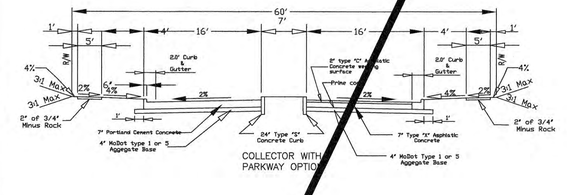
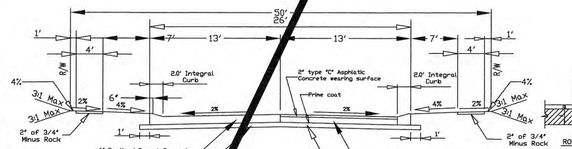
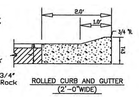


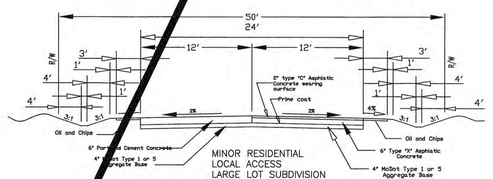












	ROW Width	Pavement Width	Lane Width	No. of Drive Lanes	Utility Easement	Design Speed
Minor Arterial	84	60	12	5	10	40
Collector	60	39	12	3	10	35
Residential Collector	56	32**	N/A	2	10	25
Minor Residential Local Access	50	26	N/A	2	10	25*

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

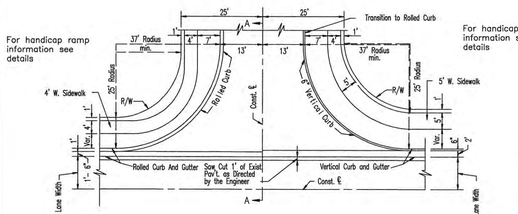
Designer will provide roadway cross section and joint locations in a seperate detail drawing.

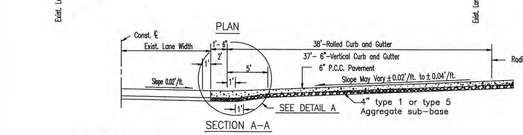
Residential streets shall be a minumum of 6" P.C. concrete over 4" rock base on compacted subgrade per ordinance number 4875.

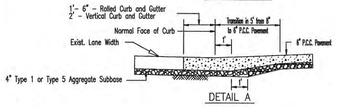
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

Typical Pavement Design
SECTION NO. 405.370

For handicap ramp information see details



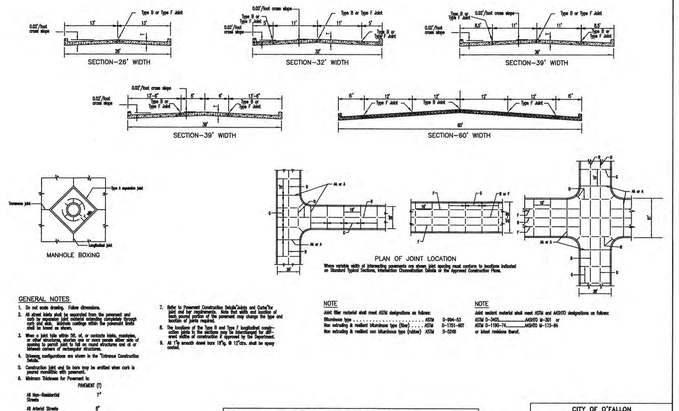




CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

PAVEMENT CONSTRUCTION DETAILS
STANDARD RESIDENTIAL STREET ENTRANCE

INTEGRAL VERTICAL CURB AND CONCRETE JOINT DETAILS



GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. All street slabs shall be separated from the pavement and curb by expansion joint material extending completely through curb and slab. Manhole casting within the pavement limits shall be boxed as shown.
3. When a joint falls within 5ft. of, or contacts inlets, manholes, or other structures, the joint shall be made across either side of opening to permit the use of round structures and at a 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 36' 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. 1/4" spacing
9. The location of the Type B longitudinal construction joints in the sections may be interchanged for the different widths of construction if approved by the Department.

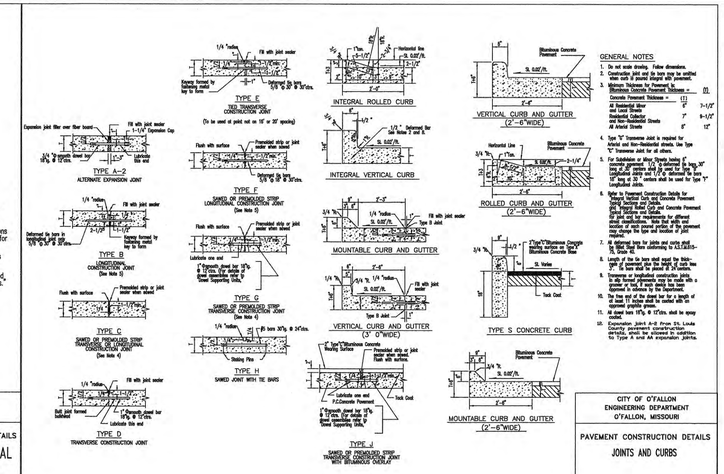
NOTE
Joint filler material shall meet ASTM designations as follows:
Bituminous type . . . . . ASTM D-994-52
Non extruding & resilient bituminous type (fiber) . . . ASTM D-1751-52T
Non extruding & resilient non bituminous type (rubber) ASTM D-1752

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

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT		
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
All Arterial, Non-Residential 28'-0" wide pavement 7"-8" thick concrete	Transverse	TYPE C 1" smooth dowel bars 18"lg. @ 12" ctrs.
	Longitudinal	Within a paved section: TYPE B 5/8 "ø deformed tie bars 18"lg. @ 30"ctrs. At the edge between two paved sections: TYPE B 5/8 "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 D modified with 1/2 "ø deformed tie bars 30"lg. @ 30" ctrs.
	Expansion	TYPE A no steel bars

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

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



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:

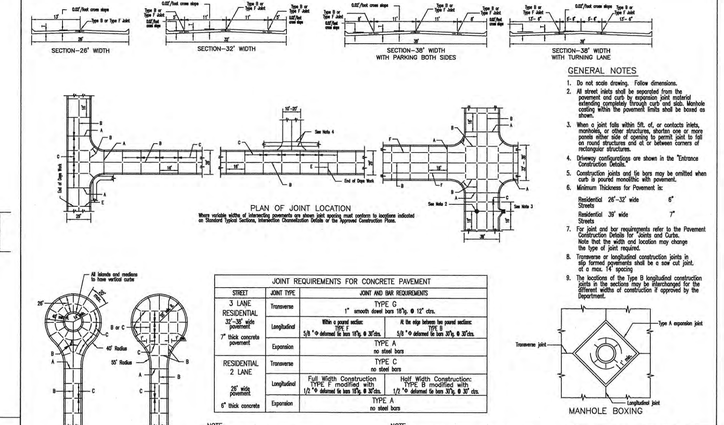
Residential Concrete Pavement Streets	(7)
All Residential Minor Collector and Non-Residential Streets	6" 7"
All Arterial Streets	8" 12"

4. Type "S" transverse joint is required for Arterial and Non-Residential streets. See Type "C" transverse Joint for all others.
5. For Subdivision or Minor Streets having 6" concrete pavement 1/2 "ø deformed tie bars 18" long at 30" centers shall be used for Type "F" Longitudinal Joints. For Subdivision or Major Streets having 7" or greater concrete pavement 1/2 "ø deformed tie bars 18" long at 30 " centers shall be used for Type "F" Longitudinal Joints.
6. Refer to Pavement Construction Details for "Joints and Curbs" for Joint and Concrete Pavement Typical Sections and Details. Refer to Pavement Construction Details for "Integral Rolled Curb and Concrete Pavement Typical Sections and Details."
7. All sawed joints for joints other than curb shall be filled with liquid joint sealant. Note that width and location of each pavement pattern of the pavement may change the type and location of joint required.
8. All sawed joints for joints other than curb shall be filled with liquid joint sealant. Note that width and location of each pavement pattern of the pavement may change the type and location of joint required.
9. Construction Joint A–2 from St. Louis County standard construction joint details, shall be allowed in addition to Type A and A2 expansion joints.

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

PAVEMENT CONSTRUCTION DETAILS
JOINTS AND CURBS

INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS



GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. All street slabs shall be separated from the pavement and curb by expansion joint material extending completely through curb and slab. Manhole casting within the pavement limits shall be boxed as shown.
3. When a joint falls within 5ft. of, or contacts inlets, manholes, or other structures, the joint shall be made across either side of opening to permit the use of round structures and at a 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 36' 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. 1/4" spacing
9. The location of the Type B longitudinal construction joints in the sections may be interchanged for the different widths of construction if approved by the Department.

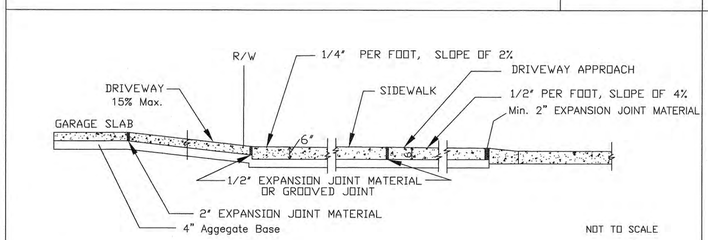
JOINT REQUIREMENTS FOR CONCRETE PAVEMENT		
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
3 LANE RESIDENTIAL 31'–32' wide pavement 7" thick concrete pavement	Transverse	TYPE C 1" smooth dowel bars 18"lg. @ 12" ctrs.
	Longitudinal	Within a paved section: TYPE B 5/8 "ø deformed tie bars 18"lg. @ 30"ctrs. At the edge between two paved sections: TYPE B 5/8 "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 D 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-994-53
Non extruding & resilient bituminous type (fiber) . . . ASTM D-1751-60T
Non extruding & resilient non bituminous type (rubber) ASTM D-1752

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 there of.

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

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



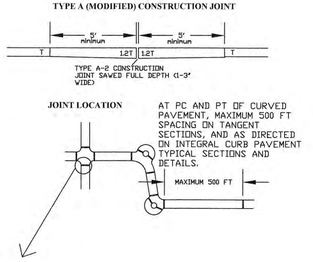
NOTES:

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. JOINT FILLER COMPOSED OF CELLULAR FIBERS, ASTM D–1751, MAY BE USED AT DRIVEWAY, SIDEWALK, AND SEWER INLET AND MANHOLE LOCATIONS.
2. 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

PROJECT TITLE:
FALLON CREST TOWNHOMES

Bax Project # 65-1820F Issue Date: 7/22/2019

ENGINEERING
PLANNING
SURVEYING
221 Point West Blvd.
St. Charles, MO 63301
636-928-5552
FAX 928-1718

REFERENCE DRAWINGS ONLY, ENGINEERS SEAL DOES NOT APPLY TO THESE DETAILS

REVISIONS

8–15–19	city comments
9–3–19	city comments

Developer / Owner:
CORPORATE GROUP INC.
2500 S. OLD HWY 94, SUITE 200
ST. CHARLES, MO. 63303
636-946-0761

PAVEMENT DETAILS

P+Z No. # 19-005136
Approval Date: July 18, 2019
City No. #

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