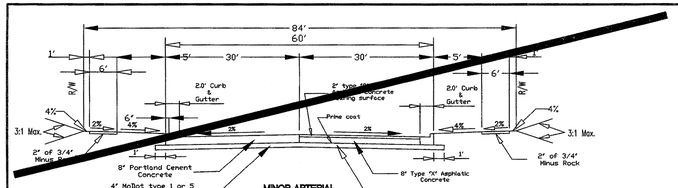
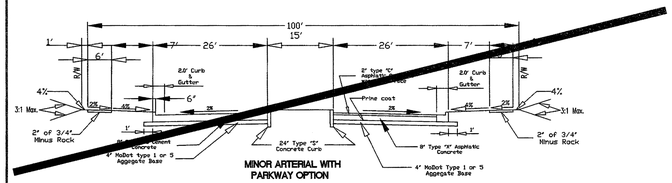
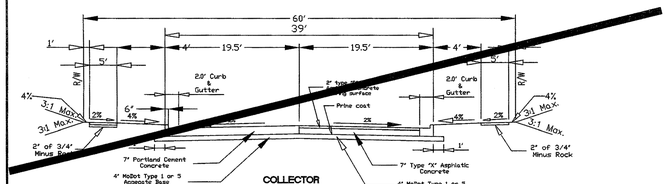
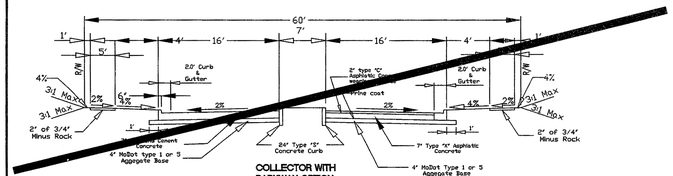
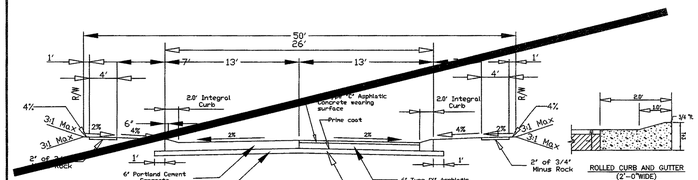
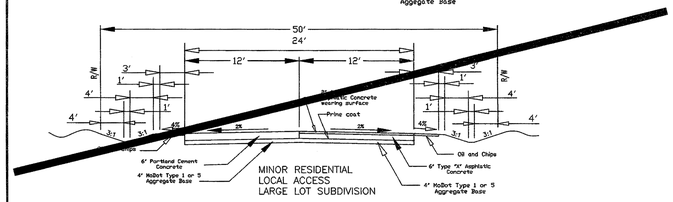












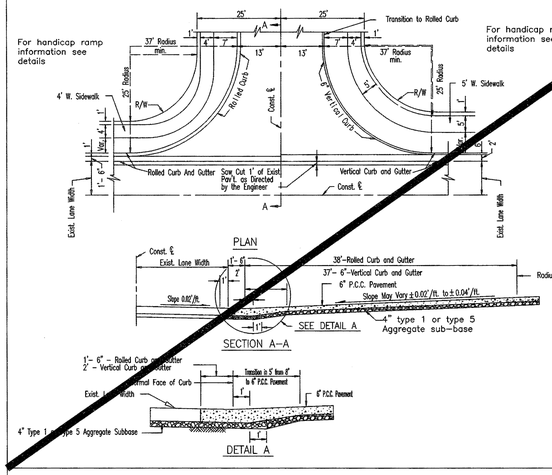
	ROW Width	Pavement Width	Lane Width	No. of Drive Lanes	Utility Easement	Design Speed
Minor Arterial	84	60	12	5	[illegible]	40
Collector	60	39	12	3	10	35
Residential Collector	56	32**	N/A	2	10	25
Minor Residential Local Access	50	26	N/A	2	10	25*

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

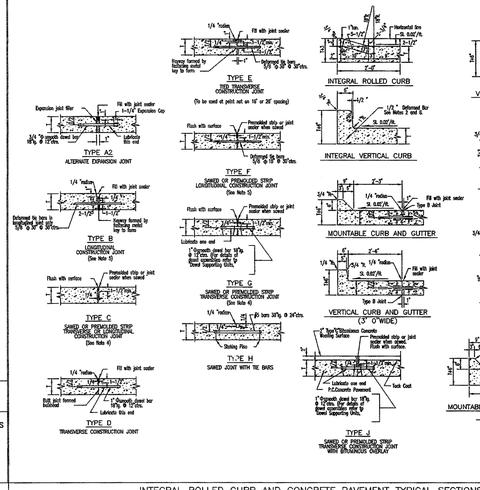


GENERAL NOTES

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 can be omitted when curb is poured integral with pavement.
3. Minimum Thickness for Pavement is:

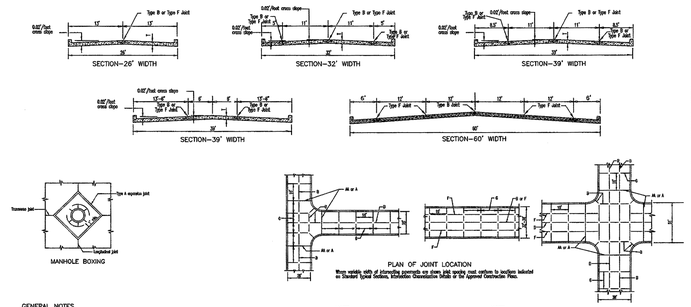
Minimum Concrete Pavement Thickness =	(1)
Residential Alley	6"
Residential Street	7" 7-1/2"
Residential Collector	7" 8-1/2"
and Non-Residential Streets	8" 10"
All Arterial Streets	8" 10"

4. Type "D" transverse joint is required for Arterial and Non-Residential streets. Use Type "C" transverse joint for all others.
5. For Subdivision or Street Projects having 4' parcels garnished 1/2 of deficiency is less, 30' long at 30' centers and 18' and 24' long at 18' centers and 12' long at intervals of 12' long at 30' centers shall be used for Type "F" longitudinal joints.
6. Refer to Pavement Construction Details for Joints and Curbs. Refer to Concrete Pavement Repair Details and Details.
7. All dowelled bars for joints and curbs shall be 18" long and bars continuous at 4'-0" intervals.
8. Length of tie bars shall equal the thickness of pavement plus the depth of curb less 2". Tie bars shall be placed 3" in curbs.
9. Transverse or longitudinal construction joints shall be constructed at the end of a day's work or when a work delay has been approved in advance by the Department.
10. The free end of the dowel bar for a length of 6" shall be painted or chemically coated with the approved graphite paint.
11. All dowel bars 1/2" ø 18"lon. shall be epoxy coated.
12. Expansion Joint A-2 From St. Louis Metropolitan Sewer District standard detail specifications 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 street inlets 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, shorten one or more panels either side of opening to permit joint to fall on round 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 Streets	26'-32' wide	6"
Residential Streets	36' wide	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 (Bev) . . . . ASTM D-1751-62T
Non extruding & resilient non bituminous type (rubber) ASTM D-5249

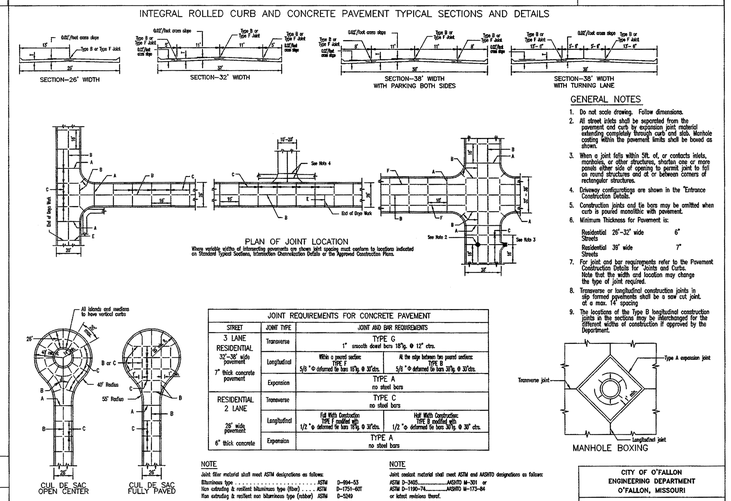
NOTE
Joint sealant material shall meet ASTM and MUTCD designations as follows:
ASTM D-3405 ..... MUTCD M-301 or
ASTM D-1190-74 ..... MUTCD M-173-64
or latest revisions thereof.

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT		
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
All Arterial, Non-Residential	Transverse	TYPE C 1"ø smooth dowel bars 18"lg. @ 12" ctrs.
26'-32' wide pavement	Longitudinal	Within a paved surface: TYPE F; At the strip between two paved surfaces: TYPE B 5/8 "ø deformed tie bars 18"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 street inlets 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, shorten one or more panels either side of opening to permit joint to fall on round 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 Streets	26'-32' wide	6"
Residential Streets	36' wide	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.

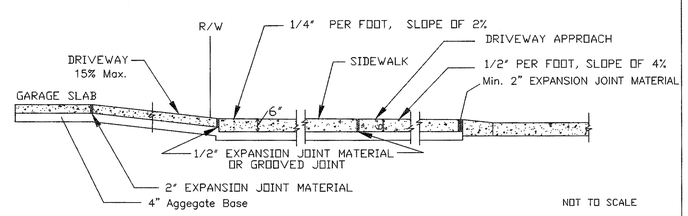
NOTE
Joint filler material shall meet ASTM designations as follows:
Bituminous type . . . . . ASTM D-994-52
Non extruding & resilient bituminous type (Bev) . . . . ASTM D-1751-62T
Non extruding & resilient non bituminous type (rubber) ASTM D-5249

NOTE
Joint sealant material shall meet ASTM and MUTCD designations as follows:
ASTM D-3405 ..... MUTCD M-301 or
ASTM D-1190-74 ..... MUTCD M-173-64
or latest revisions thereof.

JOINT REQUIREMENTS FOR CONCRETE PAVEMENT		
STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
3 LANE RESIDENTIAL 32'-36' wide pavement	Transverse	TYPE C 1" smooth dowel bars 18"lg. @ 12" ctrs.
7" thick concrete pavement	Longitudinal	Within a paved surface: TYPE F; At the strip between two paved surfaces: TYPE B 5/8 " ø deformed tie bars 18"lg. @ 30"ctrs.
	Expansion	TYPE A no dowel bars
RESIDENTIAL 2 LANE 28' wide pavement	Transverse	TYPE C no dowel bars
6" thick concrete	Longitudinal	Full Width Construction: TYPE B modified with 1/2 " ø deformed tie bars 18"lg. @ 30"ctrs.; Half Width Construction: TYPE B modified with 1/2 " ø deformed tie bars 18"lg. @ 30" ctrs.
	Expansion	TYPE A no dowel bars

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

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

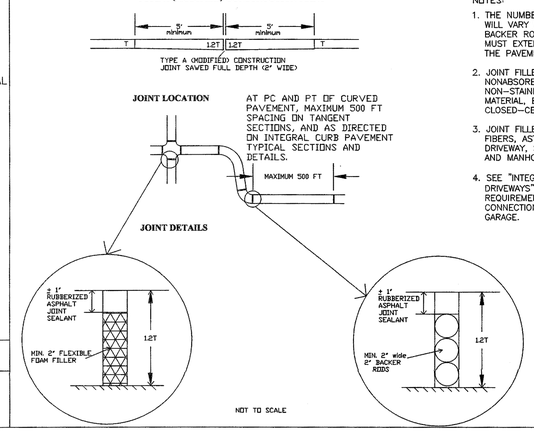


NOTES:

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



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.

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

PAVEMENT CONSTRUCTION DETAIL

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

PROJECT TITLE:
TAUC PROPERTIES
O'FALLON MAIN
507 S. MAIN ST.

Bax Project # 95-6396A | Issue Date: 8-14-16

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

DISCLAIMER OF RESPONSIBILITY
I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

REFERENCE DRAWINGS ONLY

REVISIONS

Developer / Owner:
DR. MATT BRUCKEL
TAUC PROPERTIS LLC
9556 MANCHESTER ROAD
ST. LOUIS, MO 63119

PAVEMENT DETAILS

P+Z No.
19-16 (approved 7-7-16)

City No.
16-000028