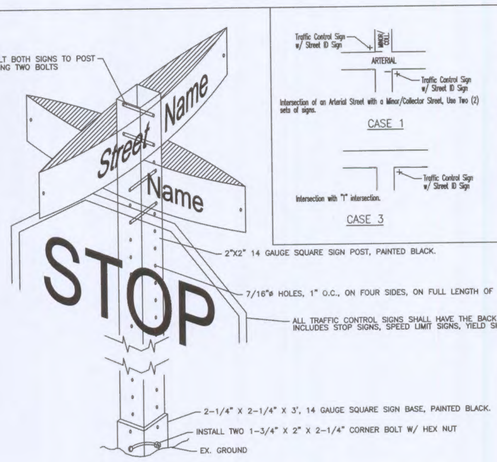
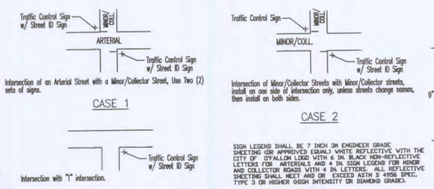
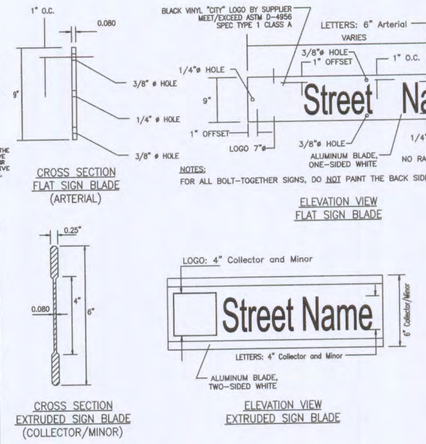


CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

ARTERIAL SIGNS



SIGN LEGEND SHALL BE 7" INCH SM ENGINEER GRADE SHEETING (OR APPROVED EQUAL) WHITE REFLECTIVE WITH THE SHEETING OR ALLOWED EQUAL WHITE REFLECTIVE WITH THE LEGEND AND BORDER ON GREEN REFLECTIVE SHEETING SHALL MEET AND OR EXCEED ASTM D-4956 SPEC, TYPE 3 OR HIGHER (HIGH INTENSITY OR DIAMOND GRADE).

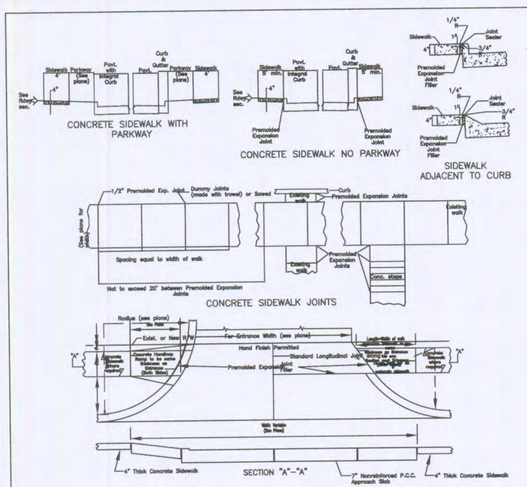


GENERAL NOTES:

1. ALL SIGN POST AND BACK OF SIGNS THAT ARE TO BE PAINTED BLACK SHALL USE A PAINT SYSTEM THAT PROVIDES A MINIMUM 7 YEAR LIFE EXPECTANCY. MAY USE:
   a) "CARBOLINE RUSTBOND" BASE AT 1-2 MILS THICK, "CARBOLINE 893 SG" MID-LAYER AT 3-5 MILS THICK, "CARBOLINE 133 HB" TOP COAT OR APPROVED EQUAL,
   OR
   b) ELECTROSTATIC APPLIED, BLACK POWDER COATED AND BAKED ON PAINT SYSTEM AT 2-3 MILS THICKNESS OR APPROVED EQUAL.
2. ALL SIGN LEGENDS AND SIZES MUST BE APPROVED BY THE ENGINEERING DIVISION PRIOR TO INSTALLATION.
3. STREET NAME SIGN PLATES SHALL BE 9 INCHES WIDE FLAT, BOLT TOGETHER FOR ANY ARTERIAL INTERSECTIONS AND 6 INCHES WIDE EXTRUDED ALUMINUM PANELS FOR ALL MINOR AND COLLECTOR ROADS. TYPICAL LENGTHS FOR MINOR AND COLLECTOR SIGNS SHALL BE 24, 30 & 36 INCH LENGTHS, OR LONGER AS NEEDED, TO ACCOMODATE STREET NAME.
4. SIGN LEGEND SHALL BE 7 INCH SM ENGINEER GRADE SHEETING (OR APPROVED EQUAL) WHITE REFLECTIVE WITH THE CITY OF O'FALLON LOGO WITH 6 INCH BLACK NON-REFLECTIVE LETTERS FOR ARTERIALS AND 4 INCH SIGN LEGEND FOR MINOR AND COLLECTOR ROADS WITH 4 INCH LETTERS. ALL REFLECTIVE SHEETING SHALL MEET AND OR EXCEED ASTM-D-4956 SPEC, TYPE 3 OR HIGHER (HIGH INTENSITY OR DIAMOND GRADE).
5. "CLEARVIEW" FONT SHALL BE USED ON ALL STREET SIGNS.
6. SIGN POSTS SHALL BE HEAVY "U" CHANNEL (2 LBS./FT) PAINTED BLACK STEEL POSTS FOR COLLECTOR/MINOR STREETS. ARTERIAL STREETS SHALL HAVE 2" SQUARE POSTS WITH BREAKAWAY ASSEMBLY.
7. SIGN POSTS SHALL EXTEND A MINIMUM OF 30 INCHES INTO THE GROUND AND PLUM.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOWN OR NOT SHOWN. PLEASE CONTACT THE CITY OF O'FALLON FOR LOCATION OF CITY UTILITIES NOT FOUND BY DIG-RITE SERVICES.
9. SIGNS SHALL NOT CREATE A SIGHT DISTANCE PROBLEM OR CONFLICT WITH PEDESTRIAN TRAFFIC.
10. SPEED LIMIT SIGNS MUST BE PLACED EVERY ENTRANCE TO A SUBDIVISION OR LOT LINE BETWEEN THE FIRST AND SUBDIVISION LOT AND APPROXIMATELY EVERY TWO THOUSAND (2,000) FEET THERE AFTER. ALSO, EVERY CONNECTING SIDE STREET MUST HAVE ONE SPEED LIMIT SIGN APPROXIMATELY FIFTY FEET FROM THE INTERSECTION AND APPROXIMATELY EVERY TWO THOUSAND (2,000) FEET THERE AFTER.
11. ALL SIGNS UNLESS OTHERWISE STATED, SHOULD BE CONSTRUCTED AND INSTALLED PER MUTCD.

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

SIGNS, DETAILS AND LOCATIONS



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. Sidewalk thru private and commercial driveways will be paid for as 6" and 7" approaches, see "Integral Curb Detail 'B' At Driveways".
5. For sidewalk locations on Cul-De-Sacs see "Pavement Construction Details".
6. For longitudinal and transverse joints, dowel, and tie bar requirements and dimensions refer to the "Integral Curb Pavement Typical Sections and Details".
7. All necessary pavement markings by St. Charles County.
8. For roodway cross slopes, pavement types, and thickness, refer to "Standard Typical Section".
9. See "Integral Curb Detail 'B' at Driveways" for premolded expansion joint requirements.

SAINT CHARLES COUNTY
HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI

CONCRETE SIDEWALK

DATE: October, 2002

DRAWING C608.14

NO	DATE	REVISION DESCRIPTION
1	10/15/2013	CITY, DSSD, PWSD COMMENTS
2	11/25/2013	CHANGE LOT NUMBERS

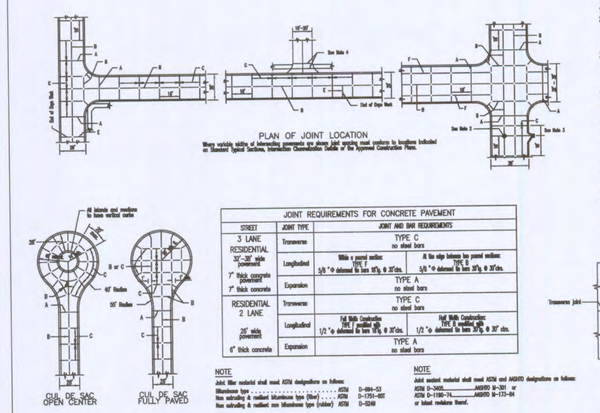
DEVELOPER/OWNER:
PULTE GROUP
16640 CHESTERFIELD GROVE, STE 200
CHESTERFIELD, MO 63005
PHONE: (636) 537-7129

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON WAS IN RESPONSIBLE CHARGE OF THE PREPARATION OF THE PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS RELATING TO, OR INTENDED TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

CIVIL ENGINEERING CORPORATE ENGINEERING CERTIFICATE #001165
STATE OF MISSOURI JOHN F. HARSHBARGER NUMBER E-29716 REGISTERED PROFESSIONAL ENGINEER
JOHN F. HARSHBARGER PE NO. E-29716
DATE: 11/25/15

PRESTON WOODS
PHASE 6
IMPROVEMENT PLANS
PRESTON WOODS LANE
O'FALLON, MO 63366

STORM SEWER DETAILS



GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. All street, biddy shall be separated from the pavement and curb by expansion joint material extending completely through curb and slab. Monolith 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, shorter size 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 28' wide Streets	6"
Residential 32'-38' wide Streets	7"

7. For joint and bar requirements refer to the Pavement Construction Details for Joints and Curbs, Std. Dwg. C502.03. Note that the width and location may change the type of joint required.
8. 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.
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.

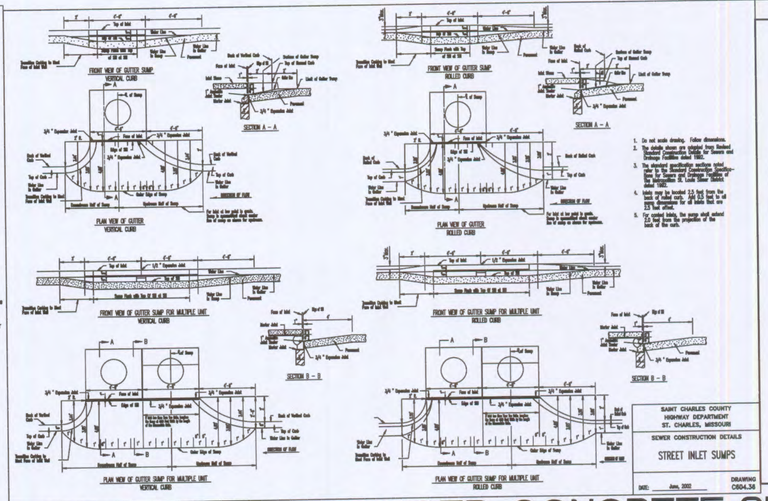
JOINT REQUIREMENTS FOR CONCRETE PAVEMENT

STREET	JOINT TYPE	JOINT AND BAR REQUIREMENTS
3 LANE RESIDENTIAL 32'-38' wide pavement	Transverse	TYPE C no steel bars
	Longitudinal	With a sawed surface: TYPE F 5/8 "ø deformed tie bars 18"L @ 30"ctrs. At the edge between two poured sections: TYPE F 5/8 "ø deformed tie bars 30"L @ 30"ctrs.
7" thick concrete pavement	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 sawed cut 1/2 "ø deformed tie bars 18"L @ 30"ctrs. Half Width Construction: TYPE F sawed cut 1/2 "ø deformed tie bars 18"L @ 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-1751-52T
Non extruding & resilient non bituminous type (rubber) ASTM D-1752

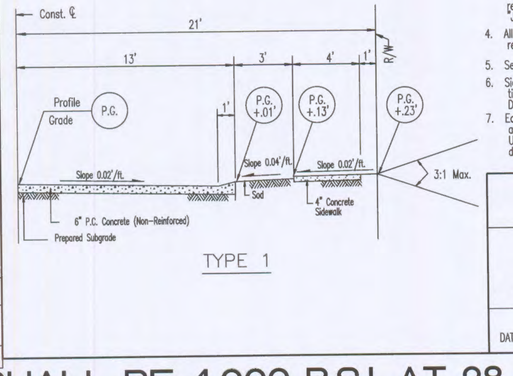
NOTE
Joint sealant material shall meet ASTM and AASHTO designations as follows:
ASTM D-3405 ..... AASHTO M-281 or
ASTM D-1190-74 ..... AASHTO M-173-64
or latest revisions thereof.

SAINT CHARLES COUNTY
HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI
PAVEMENT CONSTRUCTION DETAILS
INTEGRAL ROLLED CURB AND CONCRETE PAVEMENT TYPICAL SECTIONS AND DETAILS
DATE: October, 2002
DRAWING C502.02



1. Do not scale drawing. Follow dimensions.
2. The details shown are circular Area Standard Inlet Grates and Curb Inlet Hoods for Sewers and Drainage Structures.
3. The standard specification castings called for in the Standard Specifications for Sewer and Drainage Facilities of the Metropolitan St. Louis Sewer District.
4. Inlets may be located 1.5 feet from the end of radius curb. Add 0.5 feet to all dims accordingly for all inlets that are 2.5 feet from the end of radius curb.
5. For curbed inlets, the gutter shall extend 2.0 feet beyond the opposite of the back of the curb.

SAINT CHARLES COUNTY
HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI
SEWER CONSTRUCTION DETAILS
STREET INLET SUMPS
DATE: June, 2002
DRAWING C604.36



GENERAL NOTES

1. Do not scale drawing. Follow dimensions.
2. Sections shown 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," Std. Dwg. C502.03.
4. All necessary pavement markings shall be as required by Saint Charles County.
5. Sections shown may not apply at intersections.
6. Sidewalk thickness increases to 6" at Residential Driveways. See "Entrance Construction Details."
7. Easements when required shall be established as a "Permanent Roadway Improvement, Maintenance, Utility, Sewer and Sidewalk Easement" and dedicated to Saint Charles County.

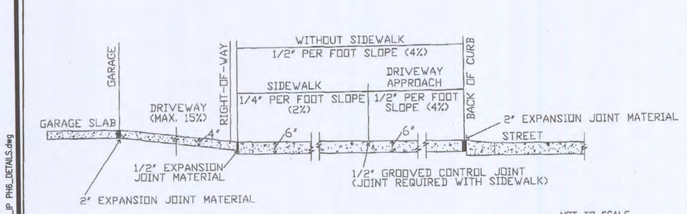
SAINT CHARLES COUNTY
HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI

STANDARD TYPICAL SECTION
RESIDENTIAL
42' R/W 26' PAVT.

DATE: May, 2002

DRAWING C203.82A

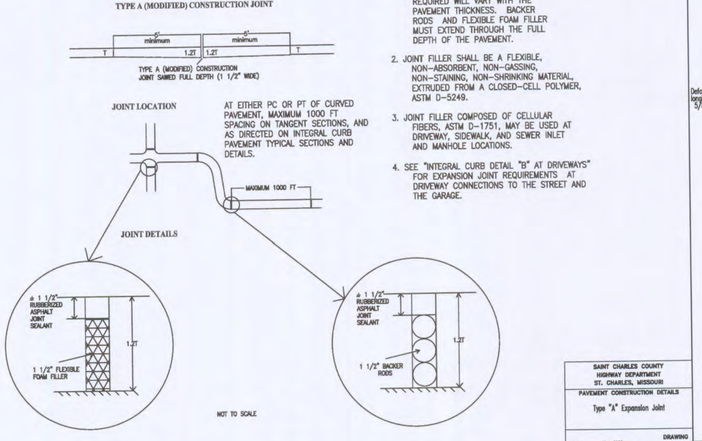
ALL NON-REINFORCED CONCRETE SHALL BE 4,000 P.S.I. AT 28 DAYS.



NOT TO SCALE

NOTES:
1. 4" OF MoDOT TYPE 1 OR TYPE 5 AGGREGATE BASE IS REQUIRED.
2. A 2" EXPANSION JOINT IS REQUIRED AT THE CURB AND GARAGE FOR ALL DRIVEWAYS.
3. EXPANSION JOINT MATERIAL MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.
4. SIDEWALK THICKNESS SHALL BE A MINIMUM OF 7" THROUGH COMMERCIAL DRIVEWAYS.

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI
PAVEMENT CONSTRUCTION DETAILS
Integral Curb Detail "B" at Driveways
DATE: APRIL, 2007

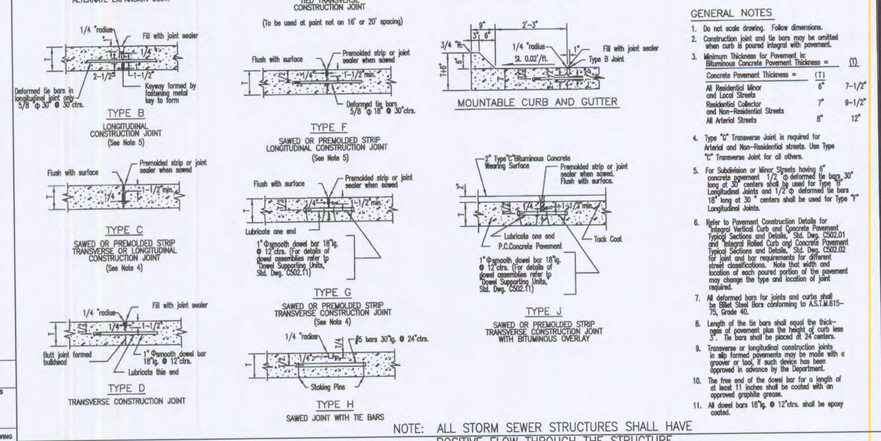


NOT TO SCALE

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, NON-ABSORBENT, 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.

SAINT CHARLES COUNTY
HIGHWAY DEPARTMENT
ST. CHARLES, MISSOURI
PAVEMENT CONSTRUCTION DETAILS
Type "A" Expansion Joint
DATE: May, 2002
DRAWING C502.04



GENERAL NOTES

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

Bituminous Concrete Pavement Thickness =	(T)	CD.
Concrete Pavement Thickness =		
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 "G" 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 "ø deformed tie bars 30" long at 30" centers shall be used for Type "F" Longitudinal Joints and 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 "Integral Vertical Curb and Concrete Pavement Typical Sections and Details, Std. Dwg. C502.01 and "Integral Rolled Curb and Concrete Pavement Typical Sections and Details, Std. Dwg. C502.02 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 at 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.

NOTE: ALL STORM SEWER STRUCTURES SHALL HAVE POSITIVE FLOW THROUGH THE STRUCTURE.

+ ST. CHARLES
1520 S. Fifth Street
Suite 307
St. Charles, MO 63303
636.978.7508 tel

cole
CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITECTURE
Cole & Associates, Inc.

DESIGN/CALC BY	RJG
DRAWN BY	RJG
CHECKED BY	TCA
DRAWING SCALE	NOT TO SCALE
DATE	09/04/2013
Job Number	13-0054
Sheet Number	C8.5

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