

ORDINANCE NO. 2006-12

AN ORDINANCE ENACTING SECTION 906 (CONCRETE FOR DRIVEWAYS, SIDEWALKS, PATIOS, AND STREETS) OF THE CODIFIED ORDINANCES AND DECLARING AN EMERGENCY

WHEREAS: Council desires to create Section 906 (Concrete for Driveways, Sidewalks, Patios and Streets) of the Codified Ordinances of the City of Parma Heights by requiring rules, regulations for the installation and widening of driveways and sidewalks.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of Parma Heights, County of Cuyahoga and State of Ohio:

Section 1. That Section 906 (Concrete for Driveways, Sidewalks, Patios and Streets) of the Codified Ordinances of the City of Parma Heights is hereby enacted to read as follows:

**Section 906 Concrete for Driveways, Sidewalks, Patios, and Streets**

**906.01 APPLICATION.**

The regulations of this chapter shall be applicable to the construction of any driveway, sidewalk, or patio is intended for or used for public or private use. Further, these regulations shall be applicable to the construction of streets, whether or not intended for dedication to the City, to the extent that these regulations are not in conflict with specific street regulations contained elsewhere in these Codified Ordinances. For further detail please refer to Exhibit A and Exhibit B as attached hereto.

**906.02 CONCRETE QUALITY.**

Any concrete used for any of the purposes set forth in Section 906.02 shall:

- (a) Contain a cement content of six and one-half bag mix, at ninety-four pounds per bag, of Portland cement; with a minimum compressive strength of 4000 PSI at 28 Day,
- (b) Contain no more water than will permit a slump between a minimum of two inches and a maximum of four inches;
- (c) Contain small, clean, durable and well-graded aggregates of a diameter of one inch or smaller; and
- (d) Contain a total air content from all sources of six percent to eight percent at the time of the pour.

Notwithstanding the foregoing, if a contractor elects to utilize a super plasticizer as an additive in concrete, a slump between a minimum of eight inches and a maximum of nine

and one-half inches shall be required, and the total air content from all sources may exceed eight percent at the time of the pour.

#### **906.03 PROPORTIONING; MIXING; FINISHING**

Concrete shall be proportioned, mixed, handled, and finished as follows:

- (a) It shall be proportioned in accordance with ACI 211.1-81 (Revised 1985).
- (b) It shall be mixed and handled in accordance with Chapter 499 of ODOT Construction Material Specifications (latest edition), except where Section 499.03 has been superseded by ACI 211.1-81 (Revised 1985).
- (c) Calcium or other admixtures shall be added by the contractor at the job site.
- (d) Finishing shall not occur with bleed or free water standing on the surface.
- (e) Cement shall not be dusted upon a plastic-like surface.
- (f) Water shall not be sprinkled upon a surface as a finishing aid.
- (g) The surface texture shall be finished by trowel, brush, broom or stamped in accordance with this chapter. All the edges are to be tool finished.

#### **906.04 CURING**

- (a) Concrete shall be cured by the application of a curing compound immediately after finishing, according to the manufacturer's recommendation.
- (b) Newly poured and finished concrete shall be protected by placing the necessary barricades to keep traffic off as well as provide protection from rain or other elements until surface has properly set.

#### **906.05 THICKNESS**

Concrete shall be a uniform thickness, at least six inches thick when used to construct an apron for residential use, and at least eight inches thick when used for commercial use, and at least four inches thick otherwise.

#### **906.06 REINFORCING**

Concrete shall be reinforced with steel.

#### **906.07 BASE AND SUBGRADE**

A granular leveling course of not less than two inches in depth and made of stone, gravel, limestone screening or other nonsettling material approved by the Building Commissioner shall be installed as a base. Excavations or trenches under a drive shall be compacted or filled with a nonsettling material and tamped. The subgrade or base shall be dampened if dry before pouring.

#### 906.08 JOINTS

- (a) It is recommended that jointing be done in accordance with the Standard Jointing Plan kept on file with the Building Commissioner.
- (b) Joints may be sealed however not required.
- (c) Isolation joints shall be installed between all concrete work and adjacent public sidewalks, public or private streets, utility castings and drains, and structures. Isolation joints in sidewalks need not be spaced closer than thirty feet, center to center, except for those required between the sidewalk and the driveway. The thickness of the isolation joints shall not exceed one-half inch.
- (d) Control joints, whether hand-tooled or sawn, shall be to a depth of one-fourth of the thickness of the slab. The dimension of any control joint panel shall not exceed ten feet or as shown on City detail.

#### 906.09 GRADING

The center of any driveway shall be lower than each other edge thereof to permit running water to flow freely to catch basin or street.

#### 906.10 TIME AND TEMPERATURE OF POUR

- (a) Where the temperature in the surrounding area is below seventy degrees Fahrenheit, the maximum allowable time from loading to pour shall be one and one-half hours.
- (b) Where the temperature in the surrounding area is seventy-degree Fahrenheit or above, the maximum allowable time from loading to pour shall be one hour.
- (c) Where the temperature in the surrounding area falls before thirty-five degrees Fahrenheit within twenty-four hours after the pour, the contractor shall protect the pour with straw or other materials approved by the Building Commissioner for at least five days following the pour.
- (d) This section is also effective with respect to concrete, which is poured to replace a previously existing hard surface or sidewalk.

#### 906.11 PLANT AND CONTRACTOR'S REPORT

- (a) In any construction regulated by this chapter, all concrete suppliers shall, at the time of loading for delivery to a user, shall make available the following data on the contractors delivery ticket:
  - (1) The delivery destination;
  - (2) The size of the load;
  - (3) The concrete mix;
  - (4) The total air content from all sources;
  - (5) The amount of water added at the plant;
  - (6) The admixture added;
  - (7) The amount of calcium chloride added; and

**906.14 PENALTY; EQUITABLE REMEDIES**

Whoever violates or fails to comply with any of the provisions of this chapter is guilty of misdemeanor of the fourth degree and shall be fined not more than two hundred fifty dollars or imprisoned not more than thirty days, or both, for each offense. A separate offense shall be deemed committed each day during or on which a violation or noncompliance occurs or continues.

**Other Legal Action.** The imposition of any penalty shall not preclude the Department of Law from instituting an appropriate action or proceeding in a court of proper jurisdiction to prevent an unlawful repair or maintenance; to restrain, correct or abate violations; to prevent the occupancy of a dwelling, building, structure or premises; or to require compliance with the provisions of this chapter or other applicable laws, ordinance, rules or regulations or with the orders or determination of the Building Inspector.

**Section 2.** This Council finds and determines that all formal actions of this Council concerning and relating to the adoption of this Ordinance were taken in an open meeting of this Council and that all deliberations of the Council and of any of its Committees comprised of a majority of the members of the Council that resulted in those formal actions were in meeting open to the public, in compliance with the law.

**Section 3.** This Ordinance is hereby declared to be an emergency measure necessary for the public peace, health and safety of the Municipality and for the further reason it is necessary to enact Section 906 of the Codified Ordinances of the City of Parma Heights; wherefore, this ordinance shall be in full force and effect immediately upon its passage by Council and approval by the Mayor.

PASSED: April 10, 2006

  
-----  
PRESIDENT OF COUNCIL

ATTEST: Martina Verba

April 10, 2006  
-----  
APPROVED

FILED WITH  
THE MAYOR: April 10, 2006

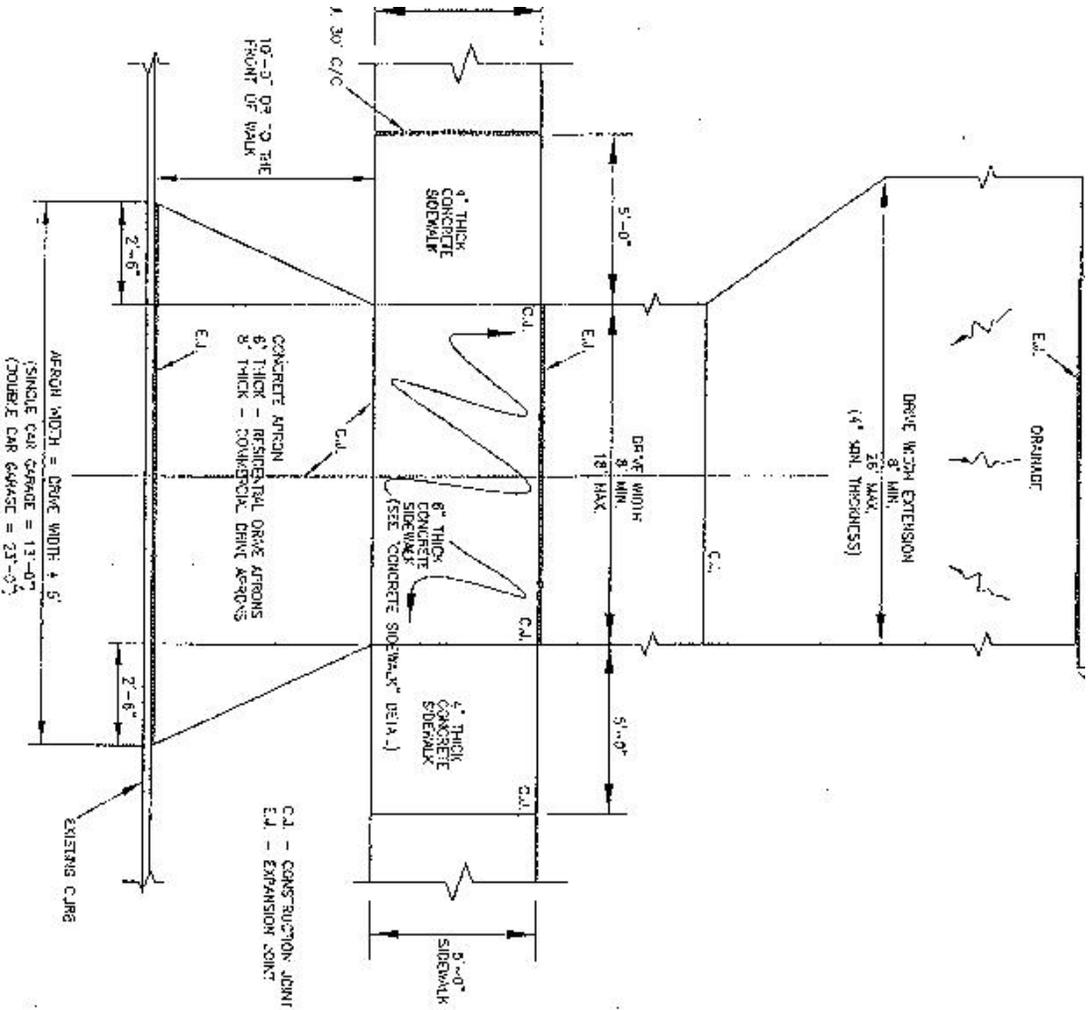
  
-----  
MAYOR

First Reading March 27, 2006

Second Reading March 30, 2006

Third Reading April 10, 2006

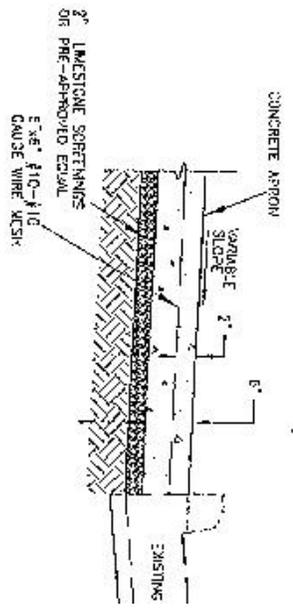
# DRIVEWAY APRON DETAIL C

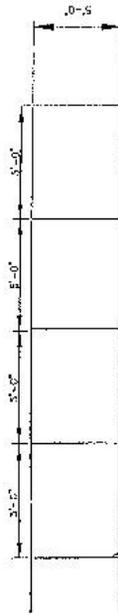


	DRIVE WIDTH	MAINLINE WIDTH
THREE CAR GARAGE	24 TO 25	26
TWO CAR GARAGE	18 TO 18	20
ONE CAR GARAGE	8 TO 10	18

### NOTES:

- 1) ALL BACKFILL, GRADING ALONG WITH SETTING OR SOILING SHALL BE WITH ANY DRIVE APRON CONSTRUCTION.
- 2) USE IRON TIRROLES AND BRASS CAP FOR SEWER CLEANOUTS, SCATED WALK AREA AND ADJUST TO GRADE.
- 3) ALL FINITE UTILITY WAVE BOXES IN THE APRON AREA SHALL BE ADJ TOP OF WALK AS REQUIRED BY THE UTILITY COMPANY.
- 4) EITHER FLOAT OR FINE BRICK FINISH IS ACCEPTABLE.
- 5) CURB AND SEALING REQUIRED FOR ALL WALKS AND CURB RAMPS.
- 6) SEE "DRIVE APRON DETAILS" FOR DRIVE SPECIFICATIONS.
- 7) ALL BASE MATERIAL SHALL BE COMPACTED BY MEANS OF A MECHANICAL OR OTHER APPROVED COMPACTORS.
- 8) ALL JOINTS SHALL BE TOILED.
- 9) CONCRETE SHALL BE CLASS "C" 4,000 PSI WITH 6"x6" - #10-#10 G MESH.
- 10) GUTTER & SIDEWALK JOINTS (IF PERMITTED) SHALL BE SEALED WITH GUMBIT AS DIRECTED BY THE INSPECTOR. THE MATERIAL SHALL BE APRON CURB WIDTH OF APPROXIMATELY FOUR (4) INCHES AND AT A RATE SUFF FILL ANY EXISTING JOINTS.



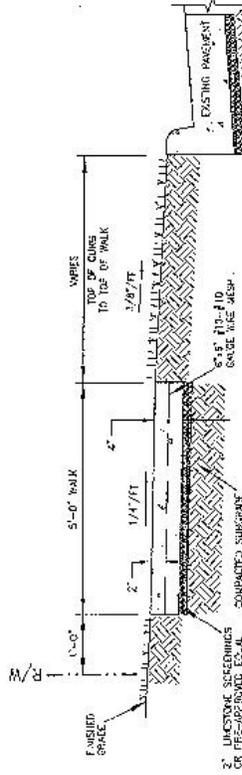


NOTE: JOINTS SHALL BE AT THREE FOOT (3') INTERVALS. USING 1/2" THICK EXPANSION JOINT FILLER MATERIAL SHALL BE SET.

NOTE: JOINTS SHALL BE AT THREE FOOT (3') INTERVALS USING 1/2" THICK EXPANSION JOINT FILLER MATERIAL SHALL BE SET.

### TYPICAL WALK FINISH AND JOINTS

NOT TO SCALE



NOTE: CONCRETE SHALL BE COMPACTED AND CURED FOR UNPAVED CONCRETE AND FOR A 24-HOUR PERIOD. BRUSH-TOOLED FINISH SHALL BE PERPENDICULAR TO DIRECTION OF TRAFFIC. APPLY CURING COMPOUNDS SPECIFIED IN CDDY 45.112.

4'-2" - 4" MINIMUM JOINT SPACING

4'-2" - 4" MINIMUM JOINT SPACING

### CONCRETE SIDEWALK DETAIL

NOT TO SCALE

#### NOTES:

- 1.) ALL REINFORCING BARS SHALL BE SET WITH SPOONING SHALL BE INCLUDED WITH ANY SPECIAL CONSTRUCTION.
- 2.) USE JOINT FILLER AND BRASS CAP FOR JOINTS LOCATED IN THE WALK AREA AND ADJUST TO GRADE.
- 3.) ALL JOINTS SHALL BE ADJUSTED TO TOP OF WALK AS REQUIRED BY THE UTILITY COMPANY.
- 4.) 150-3-TUMBLE-FLAT OR FINE BROOK FILLERS ARE ACCEPTABLE.
- 5.) CARE AND SEALING REQUIRED FOR ALL WALKS AND CURBS RAUFS.
- 6.) SEE "JOINT APPROX DETAILS" FOR DETAILED SPECIFICATIONS.
- 7.) FOR JOINTS, REINFORCING BARS SHALL BE SET WITH SPOONING SHALL BE INCLUDED WITH ANY SPECIAL CONSTRUCTION.
- 8.) ALL JOINTS SHALL BE ADJUSTED TO TOP OF WALK AS REQUIRED BY THE UTILITY COMPANY.
- 9.) ALL JOINTS SHALL BE COMPACTED BY MEANS OF A MECHANICAL TAMPER OR OTHER APPROVED COMPACTORS.
- 10.) ALL JOINTS SHALL BE TOOLED BY SAW CUT.



PERMIT # C \_\_\_\_\_  
 PARCEL # \_\_\_\_\_  
 FEES \$ \_\_\_\_\_  
 DATE \_\_\_\_\_

CONCRETE PERMIT APPLICATION

PROPERTY OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE # \_\_\_\_\_

CONTRACTOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE \_\_\_\_\_

ESTIMATED VALUE OF CONSTRUCTION WORK \$ \_\_\_\_\_

CHECK OFF ALL THAT APPLY:

DRIVEWAY  APRON  SIDEWALK  YARDWALK  PATIO  PARKING LOT

TOTAL SQUARE FOOTAGE: \_\_\_\_\_

\*DRAWING MUST BE INCLUDED ALONG WITH ANY MISCELLANEOUS NOTES

WAIVER UNDER CODIFIED ORDINANCE SECTION 906.12 (d)

The undersigned, the owner of premises located at above address do hereby certify that I am acting as my own contractor with respect the above concrete work to be performed and will perform the actual work myself. I waive the requirements of Section 906.12 and waive any subsequent claim against the City in connection with said work. I agree to indemnify the City and its officials for any losses, judgments, costs or expenses that may be incurred by the City and its officials as a result of the above work that is being performed by me.

\_\_\_\_\_  
 Signature of Owner

\_\_\_\_\_  
 Date

The acceptance of the permit herein shall constitute an agreement to abide by all the conditions therein contained; and to comply with all ordinances of the City of Parma Heights and State of Ohio. Permits must be obtained prior to beginning work and posted on the site. Whoever violates or fails to comply with any of the provisions of this chapter is guilty of a misdemeanor of the fourth degree and shall be fined not more than \$250.00 or imprisoned not more than thirty days, or both for each offense.

\_\_\_\_\_  
 Signature of Owner or Contractor

\_\_\_\_\_  
 Date