MWRDGC NOTES

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
LOCAL SEWER SYSTEMS SECTION

GENERAL NOTES

1. Local Sewer Systems Section must be notified at least [illegible] working days prior to the comm[illegible] any work (call 708/588-4055).

2. Elevation datum is U.S.G.S.
   Conversion equation is N/A

3. All roof drains shall discharge [illegible] system. (NOT APPLICABLE)

4. All downspouts and footing [illegible] storm sewer system. (NOT APPLICABLE)

All sanitary sewer pipe ma[illegible] and [illegible] sewer pipe materials and joints [illegible] a combined sewer [illegible] shall [illegible]

Pipe Material Spec.	Joint Sp[illegible]
Vitrified Clay Pipe	
VCP (C-700)	C-425
VCP (No-Bel)(C-700)	
Joint	C-425
Collar	D-1784
Concrete Pipe (C-14)	C-44[illegible]
RCP (C-76)	C-443
ACP (C-428)	D-1869
ABS Sewer Pipe	
Solid Wall 6" dia. SDR 23.5	
ABS D-2751	D-275[illegible]
ABS Composite/Truss Pipe	
8" - 15" dia.	
ABS D-2680	
PVC Gravity Sewer Pipe	
6" - 15" dia. SDR 26	
D-2241	D-3139
AWWA-C-900	D-3139
18" - 27" dia. F/dy=46	
F-679	
CISP A-[illegible]	[illegible]
DIP A-[illegible]	[illegible]

"Note: [illegible] District has appro[illegible] common pipe materials [illegible] basis in additio[illegible] above. Please [illegible] District if consid[illegible] pipe not listed above.)

[illegible] sanitary sewer constructi[illegible] storm sewer construction in com[illegible] sewer [illegible] requires stone beddi[illegible] 1/4" to 1" in size, with mi[illegible] bedding thickness equal to [illegible] side diameter of the sewer pip[illegible] but not less than four (4) inches [illegible] eight (8) inches. Materials [illegible] CA-[illegible] or CA-13 and shall [illegible] at least 12" above the top o[illegible] pipe when using PVC.

"Band-Seal" or similar flexi[illegible] couplings shall be used in the com[illegible] sewer pipe of dissimilar ma[illegible]

When connecting to an ex[illegible] sewer main by means o[illegible] an e[illegible] tee, or an existing manhole, a[illegible] following methods sh[illegible]:

1. Circular saw-cut of sew[illegible] by proper tools ("Shewer-Tap" machi[illegible] installation of hub-wy[illegible] and proper [illegible] or hub-tee saddle [illegible] (breaking only the top of one bell) and [illegible] a wye or tee bran[illegible] section.
2. Remove an entire sect[illegible]
3. With pipe cutter, neatly [illegible] accurately cut out desire[illegible] length of pipe for inse[illegible] proper fitting, using "Band-Seal" or simila[illegible] gs to hold it firmly in place.

[illegible] crosses under a water main, the [illegible] sewer to the bottom of the wa[illegible] minimum horizontal distance of [illegible] and water mains shall be maintaine[illegible] keeping a minimum 18" vertic[illegible] same trench with a water mai[illegible] of undisturbed earth shelf [illegible] vertical or horiz[illegible] sewer crosses above [illegible] water main standards.

[illegible] abandoned tanks sh[illegible]

[illegible] combined sewe[illegible] shall be cast [illegible] conforming [illegible] sanitary and [illegible] sewer

[illegible] forced [illegible] between [illegible]

IEPA REQUIREMENTS FOR SEPARATION OF SEWERS AND WATER MAINS

Section 653.119 Protection of Water Main and Water Service Lines

Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

a) Water Mains

1) Horizontal Separation

A) Water mains shall be laid at least ten feet horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.

B) Water mains [illegible] laid closer than ten feet to a sewer [illegible] w[illegible]

) [illegible] prevent a lateral separation of [illegible] feet

) the water main invert is at least 18 inches above the crown of the sewer; and

) water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.

C) Both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, asbestos-cement pressure pipe prestressed concrete pipe, or PVC pipe meeting the requirements of Section 653.[illegible] when it is impossible to meet (A) or (B) above. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling.

2) Vertical Separation:

A water main sha[illegible] so th[illegible] invert is 18 inches above [illegible] of the [illegible] or sewer whenever water [illegible] sta[illegible] sewer, sanitary sewers or sewe[illegible] connect[illegible] vertical separation sho[illegible] determined [illegible] portion of the water [illegible] lo[illegible] [illegible] ten fe[illegible] horizontal of any sewer or drain [illegible] water main pipe shall be center[illegible] over [illegible] crossed with joints equidistant from [illegible] sewer [illegible] main.

Both the water main and [illegible] constructed of slip-on or mechanical jo[illegible] ile iron pipe, asbestos-cement pressure pipe [illegible] sed concrete pipe, or PVC pipe meeting requir[illegible] of Section 653.111 when:

[illegible] it is impossible to obtain the [illegible] vertic[illegible] separation as describe[illegible] above; [illegible]

C) A vertical separation of 18 inches between the invert of the sewer or drain and the crown of the water main shall be maintained where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the water main.

D) Construction shall extend on each side of the crossing until the normal distance from the water main at the sewer or drain lines is at least ten feet.

b) Water Service Lines:

1) The horizontal and vertical separation between water service lines and all storm sewers, sanitary sewers, combined sewers or any drain or sewer service connection shall be the same as water main separation described in (a) above.

2) Water pipe described in (a) above shall be used for sewer service lines when minimum horizontal and vertical separation [illegible] maintained.

c) Sp[illegible] conditions [illegible] ate solutions shall be presented to [illegible] Agency when [illegible] the topographical, geological or e[illegible] structural c[illegible] ns make strict compliance with (a) and (b) above te[illegible] ally and economically impractical. A[illegible] ate solutions w[illegible] approved provided watertight construction structurally equivalent to approved water main material is proposed.

W[illegible] mains sha[illegible] be separated from septic tanks, disposal and seepage beds by a minimum of 25 feet.

[illegible] mains and wate[illegible] service lines shall be protected [illegible] entrance of hydrocarbons through diffusion through [illegible] aterial used in construction of the line.

[illegible] holes shall be inspe[illegible] and leakage tested for [illegible] tness in accordance w[illegible] ASTM C969-94-- "Standard [illegible] for Infiltration and Exfiltration Acceptance Testing of [illegible] Precast Concrete Pipe Sewer Lines", Vol. 04.05, [illegible] Resistant Materials, Vitrified Clay, Concrete, [illegible] Products; Mortars; Masonry (1996) (no later [illegible] amendments) or ASTM C1244-93 "Standard Test [illegible] Concrete Sewer Manholes by the Negative Pressure [illegible] Test", Vol. 04.05, Chemical Resistant Materials, Vitrified Clay, Concrete, Fiber-Cement Products; Mortars; [illegible] 1996) (no later editions or amendments, [illegible] to service.

[illegible] Frank Nov[illegible] [illegible] Wilmington, [illegible] ILLINOIS PROFES[illegible]

[illegible] ciates, Inc. [illegible] Fax (630) 887-0102

SEAL SHEET

[illegible]	[illegible]	REVISED	[illegible]
[illegible]	[illegible]	REVISED	[illegible]
[illegible]	[illegible]	REVISED	[illegible]
[illegible]	DATE	REVISED	[illegible]

VILLAGE [illegible]
STREET AND METER[illegible]
AVENUE TO VETERAN DRIVE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MWRDGC NOTES
IEPA REQUIREMENTS

SHEET NO. [illegible] OF SHEETS [illegible]