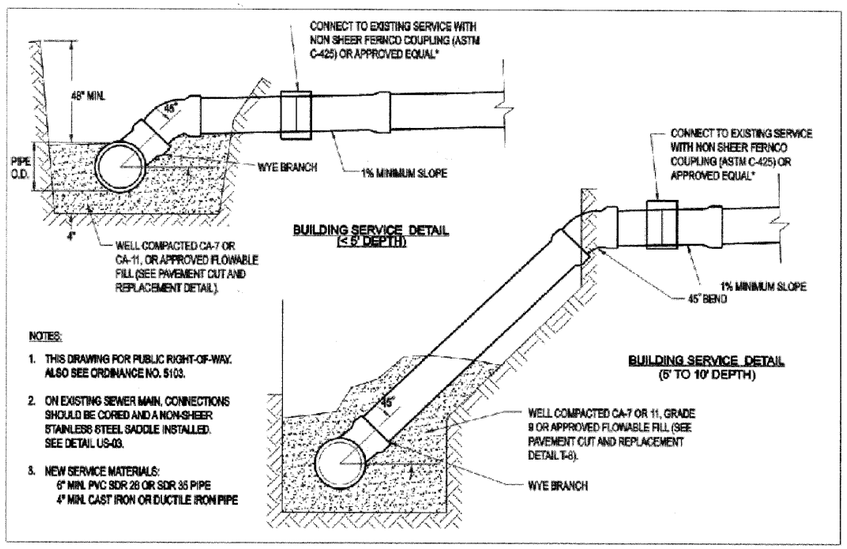
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	234
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

US-01



NOTES:

1. THIS DRAWING FOR PUBLIC RIGHT-OF-WAY. ALSO SEE ORDINANCE NO. 5103.
2. ON EXISTING SEWER MAIN, CONNECTIONS SHOULD BE CORED AND A NON-SHEER STAINLESS STEEL SADDLE INSTALLED. SEE DETAIL US-03.
3. NEW SERVICE MATERIALS:
   6" MIN. PVC SDR 26 OR SDR 35 PIPE
   4" MIN. CAST IRON OR DUCTILE IRON PIPE

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: **SANITARY SERVICE RISER (DEPTH < 10')**

Drawing Number: US-01
Date: 4/15/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

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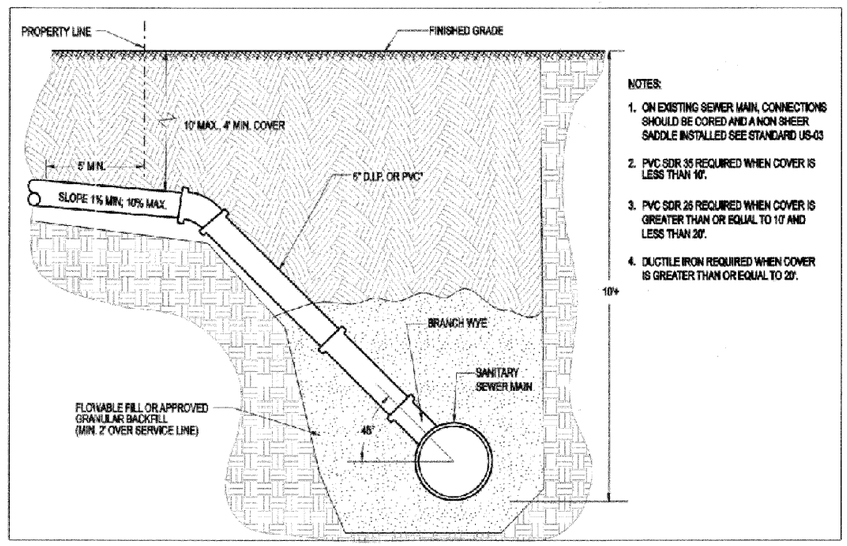
US-02



NOTES:

1. ON EXISTING SEWER MAIN, CONNECTIONS SHOULD BE CORED AND A NON SHEER SADDLE INSTALLED SEE STANDARD US-03
2. PVC SDR 35 REQUIRED WHEN COVER IS LESS THAN 10'.
3. PVC SDR 26 REQUIRED WHEN COVER IS GREATER THAN OR EQUAL TO 10' AND LESS THAN 20'.
4. DUCTILE IRON REQUIRED WHEN COVER IS GREATER THAN OR EQUAL TO 20'.

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: **SANITARY SERVICE RISER (DEPTH >= 10')**

Drawing Number: US-02
Date: 4/15/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

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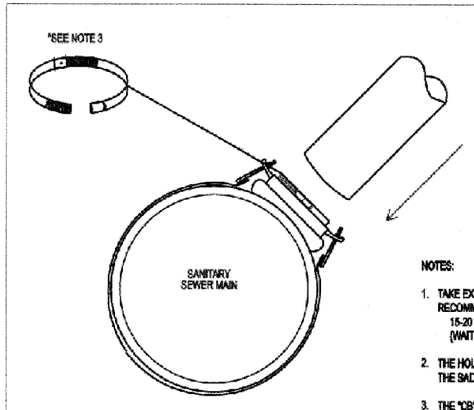
US-03



STYLE "CB" SEWER SADDLE

NOTES:

1. TAKE EXTRA CARE TO FOLLOW PROPER TIGHTENING PROCEDURES AND TORQUE RECOMMENDATIONS:
   15-20 FT/LB FOR 6" - 12" MAINS AND 20-30 FT/LB FOR 14" -48" MAINS
   (WAIT 10 MINUTES AND RETORQUE).
2. THE HOLE CUT IN THE MAIN SHOULD BE NO LARGER THAN THE INSIDE DIAMETER OF THE SADDLE GASKET.
3. THE "CB" "UN" SADDLES ARE PROVIDED WITH A BAND CLAMP (HOSE CLAMP) WHICH ALLOWS IT TO HAVE A RANGE. THE BAND CLAMP COMES WITH TWO ADJUSTING SCREWS WHICH PROVIDE MUCH GREATER CLAMPING FORCE THAN BAND CLAMPS WITH ONLY ONE ADJUSTMENT SCREW. THE BAND CLAMP NEEDS TO BE ASSEMBLED AROUND THE OUTLET AND BOTH ADJUSTING SCREWS TIGHTENED EVENLY.
4. ALL METAL HARDWARE MATERIAL SHALL BE STAINLESS STEEL.

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: **SANITARY SEWER SADDLE CONNECTION**

Drawing Number: US-03
Date: 4/15/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

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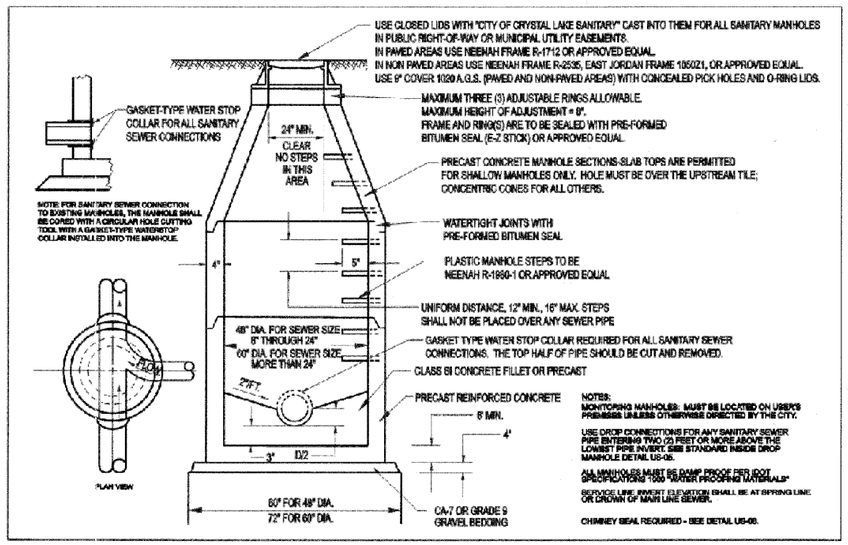
US-04



NOTES:
MONITORING MANHOLES: MUST BE LOCATED ON USER'S PREMISES UNLESS OTHERWISE DIRECTED BY THE CITY.

USE DROP CONNECTIONS FOR ANY SANITARY SEWER PIPE ENTERING TWO (2) FEET OR MORE ABOVE THE LOWEST PIPE INVERT. SEE STANDARD INSIDE DROP MANHOLE DETAIL US-05.

ALL MANHOLES MUST BE RAMP PROOF PER IDOT SPECIFICATIONS 1000 "WATER PROOFING MATERIALS"

SURFACE LINE, INVERT ELEVATION SHALL BE AT SPRING LINE OR CROWN OF MAIN LINE SEWER.

CHIMNEY SEAL REQUIRED - SEE DETAIL US-05.

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: **STANDARD SANITARY AND MONITORING MANHOLE**

Drawing Number: US-04
Date: 11/2/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

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REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

CITY OF CRYSTAL LAKE DETAILS SHEET 7 OF 8

SCALE: N.T.S.
DRAWN BY: MZD
DATE: 04/15/11
CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/616-0003

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STANKRJ