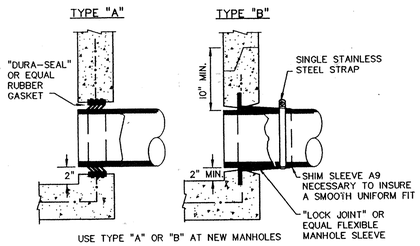
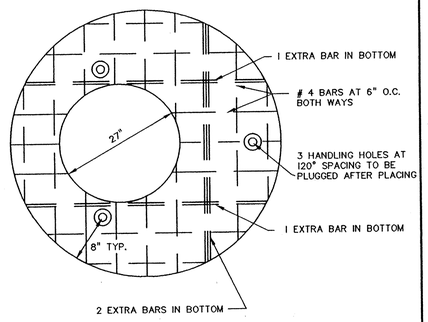
RECORD DRAWINGS

PRIME CONTRACTOR/UTILITIES: C.W. HOULE, INC.
CURB & GUTTER: HALVORSON CONCRETE, INC.
STREETS: BAUERLY BROS., INC.
INSPECTION: HOWARD R. GREEN CO.
SURVEY: JOHN OLIVER & ASSOCIATES, INC.
EARTHWORK: SOIL-CON, INC.
RECORD DRAWINGS: FRED FRITSCHEL, JOHN OLIVER & ASSOCIATES, INC.
CONSTRUCTED: 1998

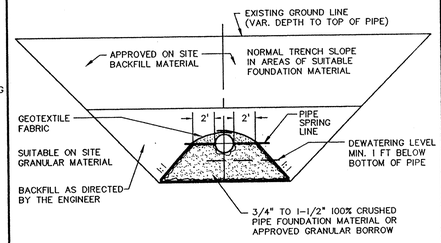


TYPICAL PIPE TO MANHOLE CONNECTIONS (S-SP-07)



NOTE: SLAB SHALL BE DESIGNED FOR AASHTO, H. S. 20 LIVE LOADS.

STANDARD CIRCULAR MANHOLE SLAB TOP (D-04)



TYPICAL PIPE SUBGRADE CORRECTION (S-07)

REV NO.	DATE	DESCRIPTION
1	5/18/99	Record Drawing

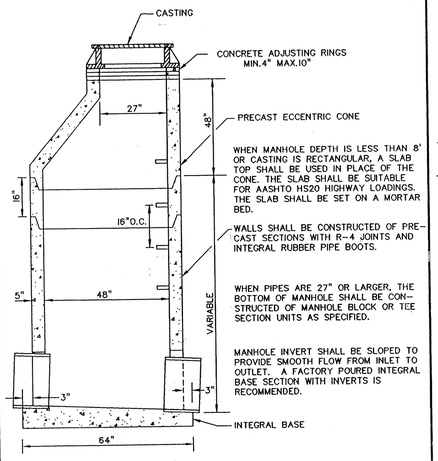
DATE: 9/26/97
DESIGN BY: GD
DRAWN BY: BG
CHECKED BY: GD,JB
DWG FILE: 7-PPDET.
TEXT FILE: NONE
FILE NO.: 7024.20-03

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Signed: _____
Date: 9/26/97 Reg. No. 14960

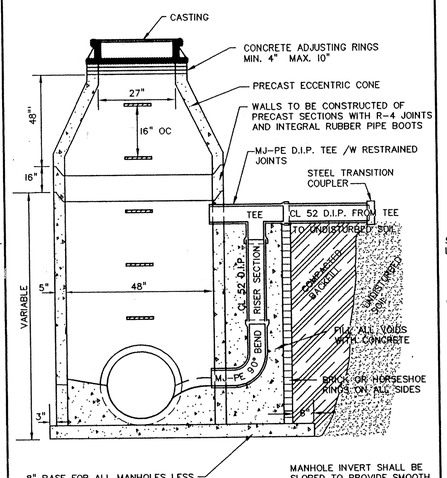
John Oliver & Associates, Inc.
Civil Engineering, Land Surveying, Land Planning
580 Dodge Avenue
Elk River, Minnesota
(612)441-2072 (FAX)441-5665
201 W. Travelers Trail, Suite 200
Burnsville, MN 55337
(612)894-3045 (FAX)894-3049

LAFAYETTE WOODS
SECOND ADDITION
ELK RIVER, MN
WINDSOR DEVELOPMENT L.L.P.
DETAILS

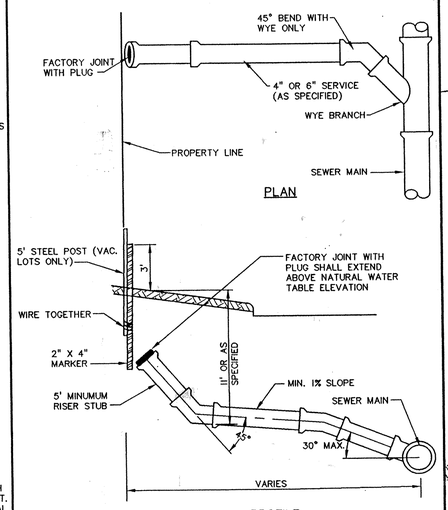
SHEET NO. 7 OF 9



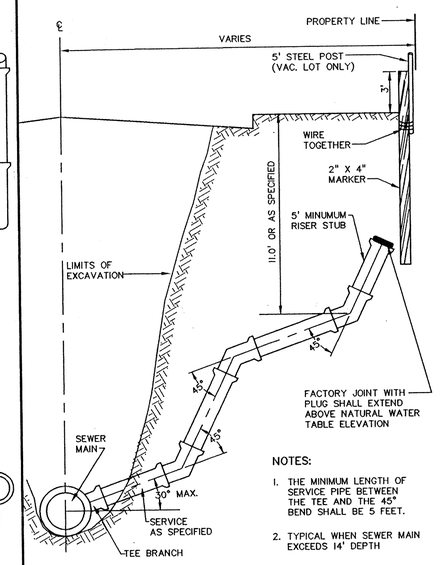
STANDARD SANITARY SEWER MANHOLE (S-01)



STANDARD SANITARY SEWER DROP MANHOLE (SP-02)

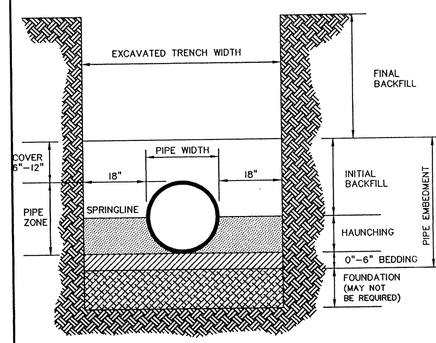


TYPICAL HOUSE SERVICE (STD. DEPTH SEWER MAIN) (S-03)



NOTES:
1. THE MINIMUM LENGTH OF SERVICE PIPE BETWEEN THE TEE AND THE 45° BEND SHALL BE 5 FEET.
2. TYPICAL WHEN SEWER MAIN EXCEEDS 14' DEPTH

TYPICAL HOUSE SERVICE (DEEP SEWER MAIN) (S-04)



NOTE:
PIPE BEDDING SHALL CONFORM TO ASTM D-2321 "RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE" EXCEPT PIPE EMBEDMENT MATERIAL SHALL BE CLASS I OR CLASS II WITH 100% PASSING A 3/4 INCH SIEVE AND NOT MORE THAN 10% PASSING A No. 200 SIEVE.

PLASTIC PIPE BEDDING (S-08)

DRAWING NUMBER 7 LAFAY2S.97

1348