

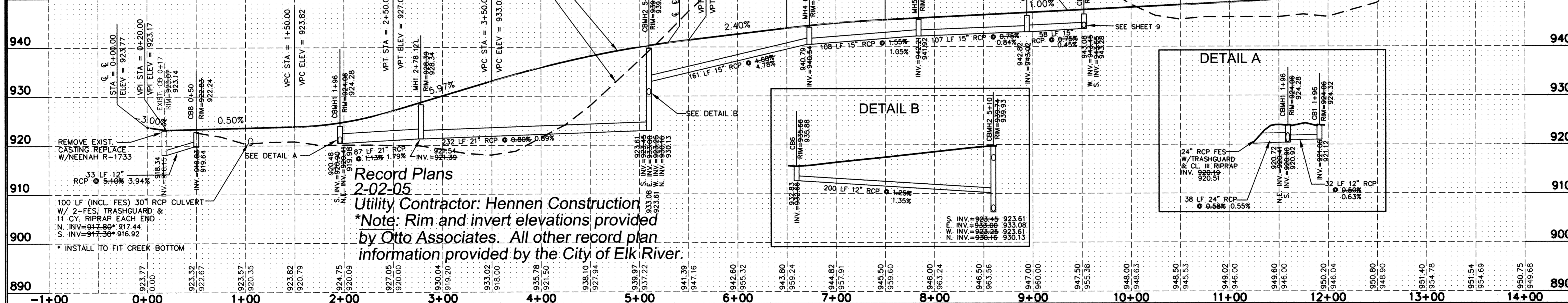
STORM SEWER SCHEDULE		
STRUCTURE	SIZE	CASTING
CB1	24" X 36"	NEENAH R-3067V
CB2	24" X 36"	NEENAH R-3067V
CB4	24" X 36"	NEENAH R-3067V
CB5	24" X 36"	NEENAH R-3067V
CB6	24" X 36"	NEENAH R-3067V
CB7 (CSAH 1)	24" X 36"	NEENAH R-3067V
CB8	24" X 36"	NEENAH R-3067V
CBM1	54" Ø	NEENAH R-3067V
CBM2	48" Ø	NEENAH R-3067V
CBM3	48" Ø	NEENAH R-3067V
CBM4	48" Ø	NEENAH R-3067V
CBM5	48" Ø	NEENAH R-3067V
CBM6	48" Ø	NEENAH R-1733 W/TYP C GRATE
MH1	48" Ø	NEENAH R-1733*
MH2	48" Ø	NEENAH R-1733*
MH3	48" Ø	NEENAH R-1733*
MH4	48" Ø	NEENAH R-1733*
MH5	48" Ø	NEENAH R-1733*

\* LABELED STORM SEWER

SCALES:  
1" = 50' HOR  
1" = 10' VER

- NOTES:
1. STORM SEWER SHALL BE RCP CLASS 5 UNLESS OTHERWISE NOTED.
  2. INSTALL ONE STRIP (2") OF SOD BEHIND BACK OF CURB IMMEDIATELY AFTER BACK FILLING.
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT ACCUMULATION FROM STORMWATER PONDS. COST OF REMOVAL SHALL BE INCIDENTAL TO STORM SEWER CONSTRUCTION.

BENCHMARK:  
TOP NUT HYD. AT THE  
NORTH R/W LINE OF 196TH  
AND 115' NORTH OF THE  
PROPERTY LINE ELEVATION =  
941.27 FEET (N.G.V.D. 1929)



REMOVE EXIST. CASTING REPLACE W/NEENAH R-1733

33 LF 12" RCP @ 5.10% 3.94%

100 LF (INCL. FES) 30" RCP CULVERT W/ 2-FES TRASHGUARD & 11 CY. RIPRAP EACH END  
N. INV. = 917.90' 917.44'  
S. INV. = 917.30' 916.92'

\* INSTALL TO FIT CREEK BOTTOM

NO.	DATE	BY	DESCRIPTION
1	10/20/04	M.L.H.	ADDED CBB
2	11/9/04	M.L.H.	REVISED STORM SEWER SCHEDULE

**Record Plans  
2-02-05**

Utility Contractor: Hennen Construction  
\*Note: Rim and invert elevations provided by Otto Associates. All other record plan information provided by the City of Elk River.

DESIGNED	DRAWN	CHECKED
M.P.C.	M.L.H.	M.P.C.

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.

Martin P. Otto  
DATE: 3/23/05 REG. NO. 19901



Web Site: www.ottoassociates.com

**PRESTIGIOUS WOODLAND HILLS**  
BREUER FAMILY, LLP  
ELK RIVER, MN

**STREET & STORM SEWER PLAN**  
196TH LANE  
SHEET NO. 7 OF 14 SHEETS

PROJECT NO:  
2-02-0628  
DATE: 9/23/04