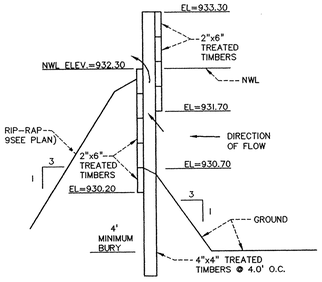
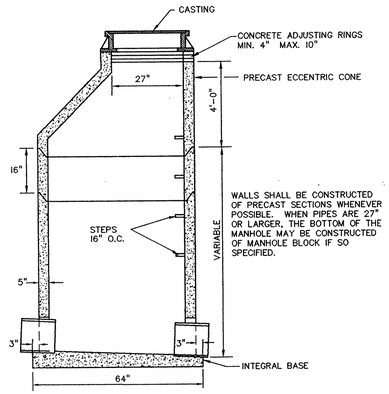
RECORD DRAWINGS



NOTE: ALL LUMBER SHALL BE PRESSURE TREATED

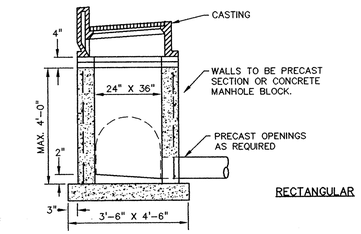
WOODEN SKIMMER



NOTES:

1. WHEN MANHOLE DEPTH IS LESS THAN 8' OR CASTING IS RECTANGULAR, A SLAB TOP SHALL BE USED IN PLACE OF THE CONE. THE SLAB SHALL BE SUITABLE FOR AASHTO HS 20 HIGHWAY LOADINGS. THE SLAB SHALL BE ON A MORTAR BED.
2. MANHOLE INVERT SHALL BE SLOPED TO PROVIDE SMOOTH FLOW FROM INLET TO OUTLET.
3. MANHOLE JOINTS MAY BE MADE WITH CEMENT MORTAR INSIDE AND OUT.

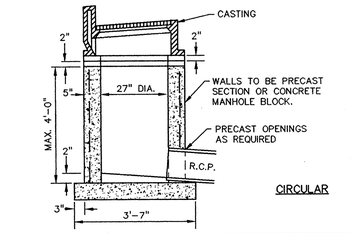
STANDARD STORM SEWER MANHOLE (D-01)



RECTANGULAR

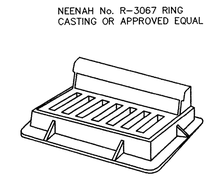
NOTES:

1. CONCRETE ADJUSTING RINGS, MIN. 4" MAX 10" NO MINIMUM WITH FINAL ADJUSTMENT.
2. CONCRETE BASE SHALL BE 6" POURED IN PLACE OR 5" PRECAST SLAB.

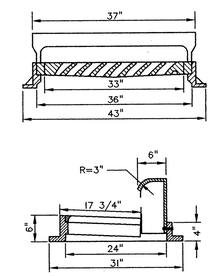


CIRCULAR

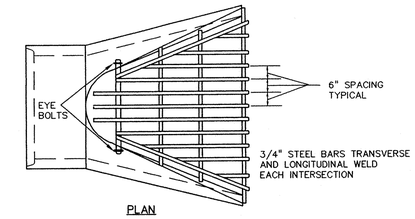
SHALLOW STORM SEWER MANHOLE OR CATCH BASIN (D-03)



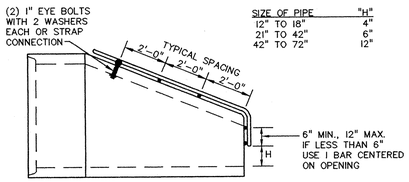
TYPE V GRATE



STANDARD INLET CASTINGS (C-03)



PLAN



ELEVATION

NOTES:

1. TRASH GUARD TO BE GALVANIZED AFTER FABRICATION.
2. THE SIZE OF EACH TRASH GUARD WILL VARY TO FIT APRON.
3. THE LAST 3 PIPE JOINTS SHALL BE TIED.

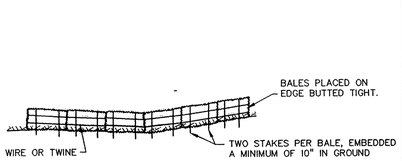
TRASH GUARD FOR CONCRETE PIPE (D-06)

REV NO.	DATE	DESCRIPTION
1	2/3/99	CHANGED FROM 4TH TO 3RD
2	3/15/99	CITY COMMENTS
3	1/5/00	RECORD DRAWINGS

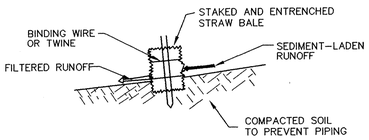
DATE: 10/31/97
DESIGN BY: JB
DRAWN BY: BG
CHECKED BY: JB
DWG FILE: S-PPDET.
TEXT FILE: NONE
FILE NO.: 7024-40-03

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: John C Hunt
Date: 2/4/99 Reg. No. 14960



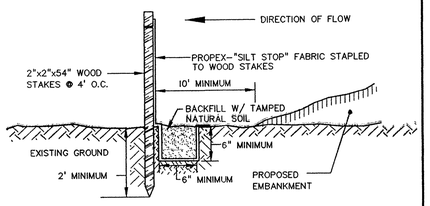
PROPERLY INSTALLED STRAW BALE BARRIER



NOTES:

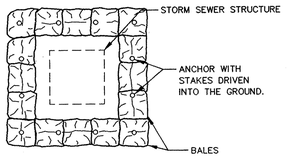
1. THE BALES SHOULD BE TRENCHED 4" INTO THE GROUND AND SHOULD BE STAKED BY STEEL FENCE POSTS OR 2"X 2" WOOD STAKES. THE STAKES SHOULD BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE.
2. SOIL SHOULD BE COMPACTED ON THE UPSLOPE SIDE OF BALES. LOOSE STRAW SHOULD BE WEDGED BETWEEN THE BALES.

EROSION CONTROL STRAW BALE CHECK DAM (E-01)



SILT FENCE

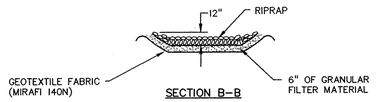
(TO BE PLACED AS DIRECTED BY THE ENGINEER)



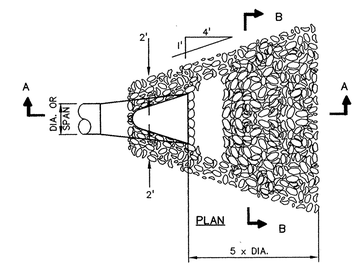
TEMPORARY BARRIER OF SEDIMENT CONTROL BALES TO PREVENT SEDIMENT - LADEN WATER FROM ENTERING INCOMPLETE STORM SEWER SYSTEM.

SUGGESTED PLACEMENT OF SEDIMENT CONTROL BALES

EROSION CONTROL MEASURES (E-02)



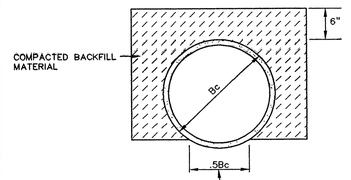
SECTION B-B



SECTION A-A

RANDOM RIPRAP (D-10)

PRIME CONTRACTOR/UTILITIES: C. W. HOULE, INC.
CURB & GUTTER: HALVORSON CONCRETE, INC.
STREETS: BAUERLY BROS., INC.
INSPECTION: STEVE TORGESON, HOWARD R. GREEN CO.
SURVEY: JOHN OLIVER & ASSOCIATES, INC.
EARTHWORK: SOIL-CON, INC.
RECORD DRAWINGS: FRED FRITSCHEL, JOHN OLIVER & ASSOCIATES, INC.
CONSTRUCTED: 1999



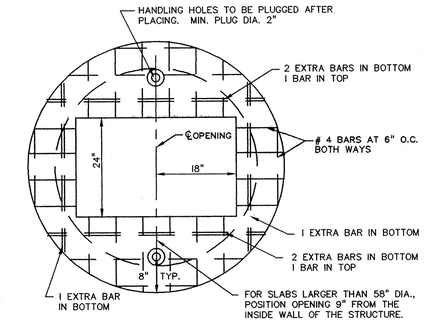
REFERENCE:

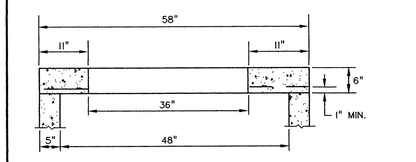
CONCRETE PIPE DESIGN MANUAL
PREPARED BY AMERICAN CONCRETE PIPE INSTITUTE

NOTE:

FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHOULD BE OVER EXCAVATED A MINIMUM OF 6" AND BACKFILLED WITH GRANULAR MATERIAL.

CLASS C CONCRETE PIPE BEDDING (S-10)





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

STANDARD RECTANGULAR MANHOLE SLAB TOP (D-05)

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
THIRD ADDITION
ELK RIVER, MN
WINDSOR DEVELOPMENT L.L.P.
DETAILS

SHEET NO. 5 OF 8

DRAWING NUMBER
LAFAY3.99
5

DRAWING NUMBER
SIGECO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6506