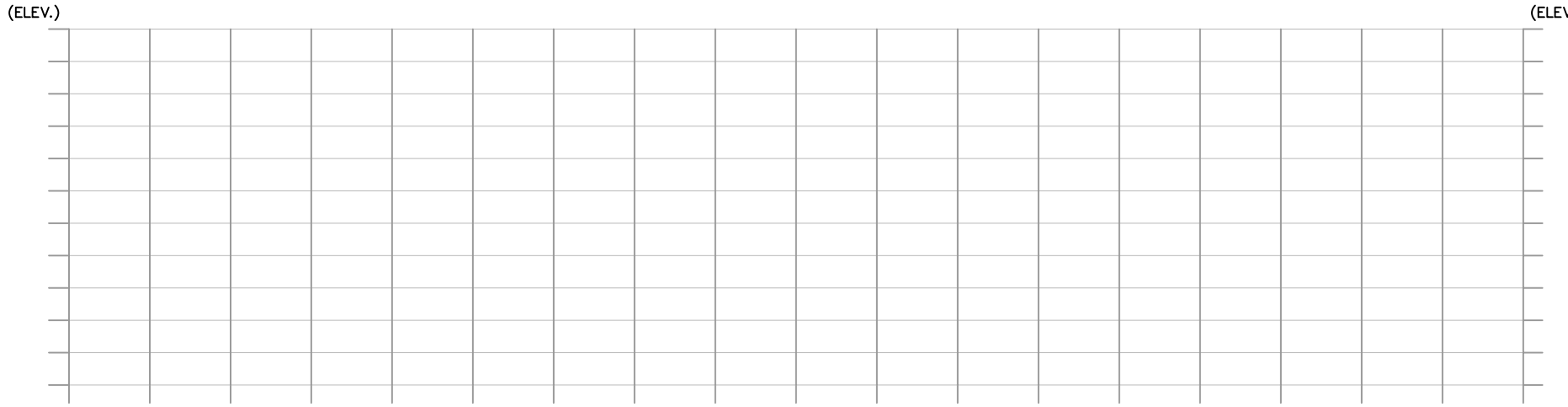
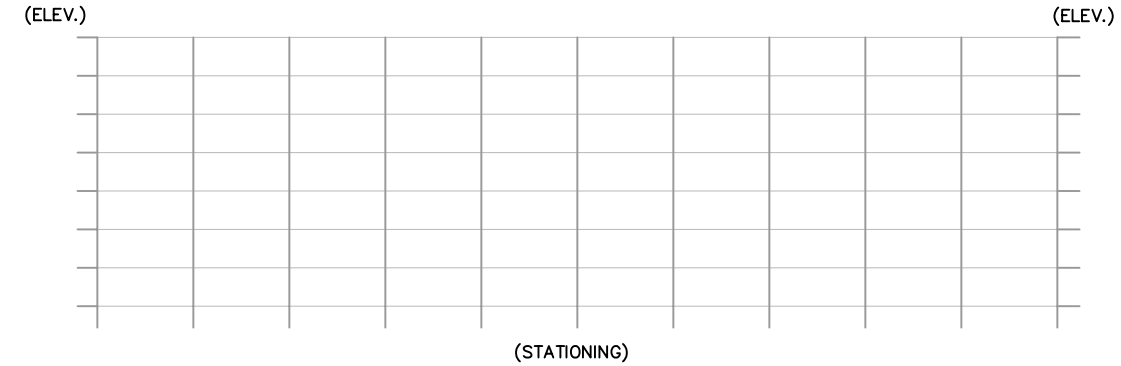


PROFILE ALONG CL OF PLANNED EMBANKMENT

HORZ. SCALE: 1" = _____ FT.



PROFILE ALONG CL OF PLANNED SPILLWAY

HORZ. SCALE: 1" = _____ FT.

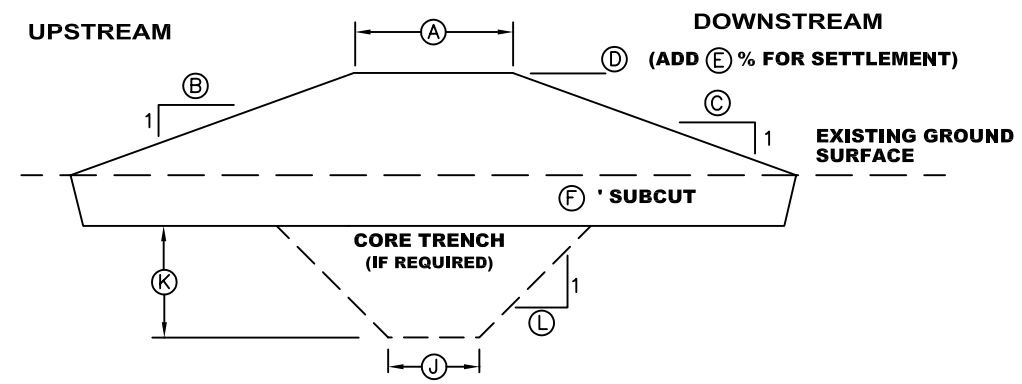
LEGEND

PROPERTY LINE _____ ——PL——
EXISTING FENCE _____ —x——x—
PROPOSED TILE LINE ____ —o——o—
EXISTING DITCH CL _____ —··—··—
EXISTING TILE LINE _____ ——o——
PROPOSED TILE BLOCK ____ ——▨——o——
TBM _____

BENCH MARK DESCRIPTION: ELEV. _____ FT.

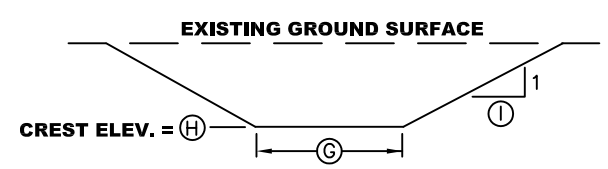
_____

_____



TYPICAL X-SECTION OF EMBANKMENT

NOT TO SCALE



TYPICAL X-SECTION OF SPILLWAY

NOT TO SCALE

DESIGN DATA

FOLLOWING NRCS MN PRACTICE STANDARDS

STRUCTURE/WETLAND BASIN # _____

DRAINAGE AREA = _____ACRES

POOL AREA = _____ACRES

DRAINAGE AREA TO POOL AREA RATIO = _____

DESIGN ZONE: _____

(A) TOP WIDTH OF EMBANKMENT= _____ FT.

(B) UPSTREAM SIDE SLOPE = _____: 1

(C) DOWNSTREAM SIDE SLOPE = _____ : 1

(D) SETTLED TOP OF FILL ELEV. = _____ FT.

(E) SETTLEMENT ALLOWANCE = _____ %

(F) SUBCUT DEPTH = _____ FT.

(G) BOTTOM WIDTH OF SPILLWAY = _____FT.

(H) CREST ELEV. OF SPILLWAY = _____ FT.

(I) SIDE SLOPES OF SPILLWAY = _____ : 1

COMPACTION REQUIREMENTS

COMPACTION METHOD (Select one)

A ☐ B ☐ C ☐

PRIOR TO COMPACTION, FILL SHALL BE PLACED IN _____ INCH LIFTS, (9 INCH MAXIMUM)

CORE TRENCH

_____ IS REQUIRED _____ IS NOT REQUIRED

(J) BOTTOM WIDTH OF CORE TRENCH = _____ FT.

(K) TRENCH DEPTH = _____ FT. OR _____ (VARIES SEE PROFILE)

(L) SIDE SLOPES OF CORE TRENCH = _____:1

CONSTRUCTION REQUIREMENTS:

BORROW AREA

Suitable material for embankment construction shall be obtained from the spillway excavations and designated borrow areas.

COMPACTION

The maximum thickness of each layer of fill before compaction shall be as specified. The entire surface of each layer of fill shall be compacted by at least two (2) passes of the compaction equipment. Compaction equipment shall consist of: (Choose one)

A) A 200 p.s.i. tamping roller or an approved compactor as specified in MnDot spec. 2105.3.F2.

B) Rubber tired hauling and spreading equipment "loaded" traveling in a direction parallel to the main axis of the fill.

C) Metal track-type tractor or similar type equipment as approved by Project Technician.
Equipment shall travel in a direction parallel to the main axis of the fill.

PLAN VIEW

SCALE: 1" = _____ FT.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: _____

SIGNATURE: _____

DATE: _____ LICENSE #: _____

Project Name:

EMBANKMENT/SPILLWAY DETAILS

Approved By Date

Title

BWSR
NRCS
USFWS

Easement OR Project No.

Plan Sheet of

DWG# MN-ENG-202

Prepared by Minnesota Board of Water & Soil Resources-Rev 09/17/02