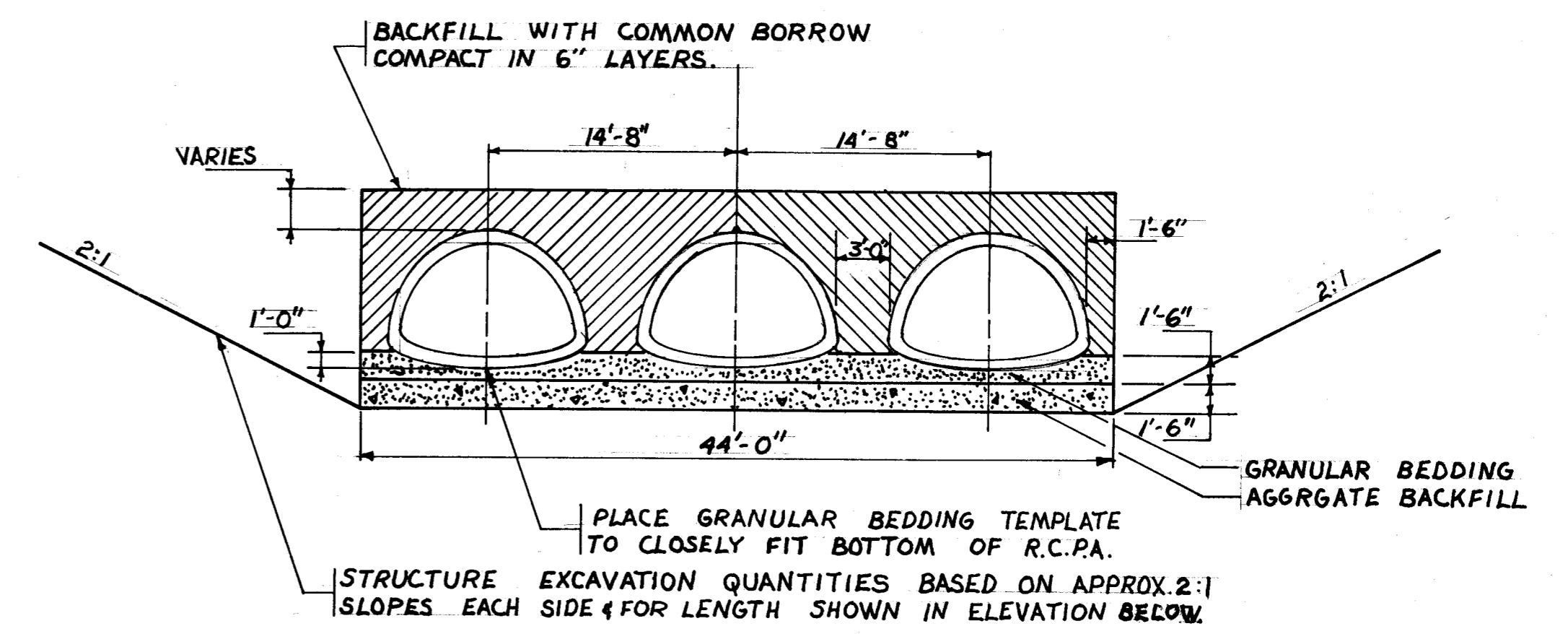
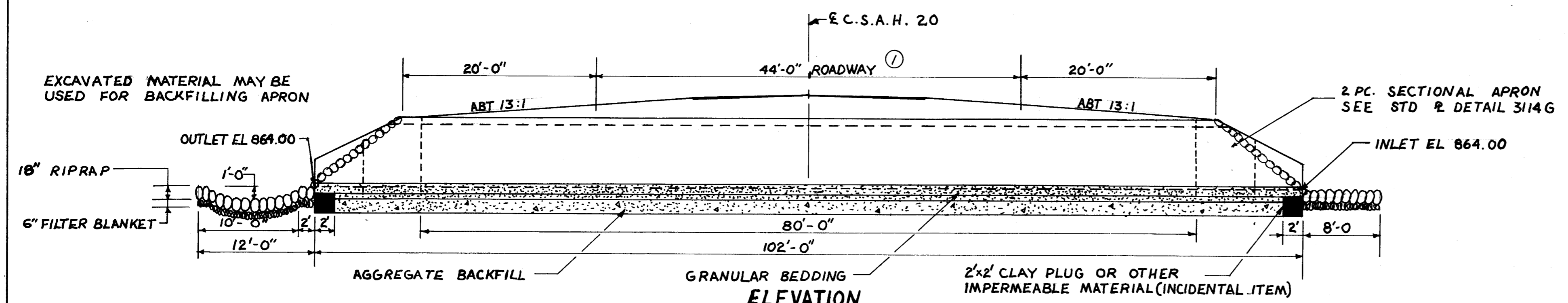


PLAN
SCALE 1/8" = 1'-0"



SECTION THRU CULVERT
SCALE 1/8" = 1'



ELEVATION
SCALE 1/8" = 1'-0"

① RESTORATION OF THE BASE & THE BITUMINOUS PORTION OF THE ROADWAY SHALL BE DONE BY THE COUNTY.

GOVERNING SPECIFICATIONS
THE 1983 EDITION OF THE MINNESOTA
DEPARTMENT OF TRANSPORTATION "STANDARD
SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"
SHALL GOVERN.

APPROVED: *Paul K. Lund*
COUNTY ENGINEER
ANOKA COUNTY
DATE: _____

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.

Robert K. Lund
DATE: 7-2-72 REG. NO. 6224

PLANS PREPARED BY
ERICKSON ENGINEERING
3340 REPUBLIC AVE.
ST. LOUIS PARK, MN 55426

C.S.A.H. 22 ANOKA COUNTY
MINNESOTA DEPARTMENT
OF TRANSPORTATION

CULVERT NO. 95167
LOCATED ON C.S.A.H. 22 0.4 MILES
EAST OF JCT OF C.R. 67

IDENT. NO. 115
SEC. 27 TWP 33N R 24W
TOWNSHIP: OAK GROVE COUNTY: ANOKA
APPROVED: _____
BRIDGE ENGINEER

GENERAL PLAN & ELEVATION
S.A. 02-622-1B
SHEET NO. 2 OF 4 SHEET

| ESTIMATED QUANTITIES | | | | | |
|----------------------|--------------------------------|-----------|---------------|-------------------|-------|
| ITEM NO. | ITEM | UNIT | PARTICIPATING | NON-PARTICIPATING | TOTAL |
| 2105.523 | COMMON BORROW (C.V.) | CU. YD. | 1000 | 200 | 1200 |
| 2451.501 | STRUCTURE EXCAVATION CLASS U | CU. YD. | 900 | | 900 |
| 2442.501 | REMOVE OLD BRIDGE #90719 | LUMP SUM. | | 1 | 1 |
| 2451.505 | AGGREGATE BACKFILL (C.V.) | CU. YD. | 240 | | 240 |
| 2451.507 | GRANULAR BEDDING (C.V.) | CU. YD. | 170 | | 170 |
| 2501.521 | F41 122" SPAN R.C.P.A. CULVERT | LIN. FT. | 240 | | 240 |
| 2501.525 | F41 122" SPAN R.C.P.A. APRONS | EACH | 6 | | 6 |
| 2511.501 | RANDOM RIPRAP CLASS B | CU. YD. | 80 | | 80 |
| 2511.504 | FILTER BLANKET TYPE 1 | CU. YD. | 20 | | 20 |

NOTE:
AN APPROVED AGGREGATE MAY BE SUBSTITUTED FOR AGGREGATE
BACKFILL PENDING APPROVAL OF THE ENGINEER IN THE FIELD.

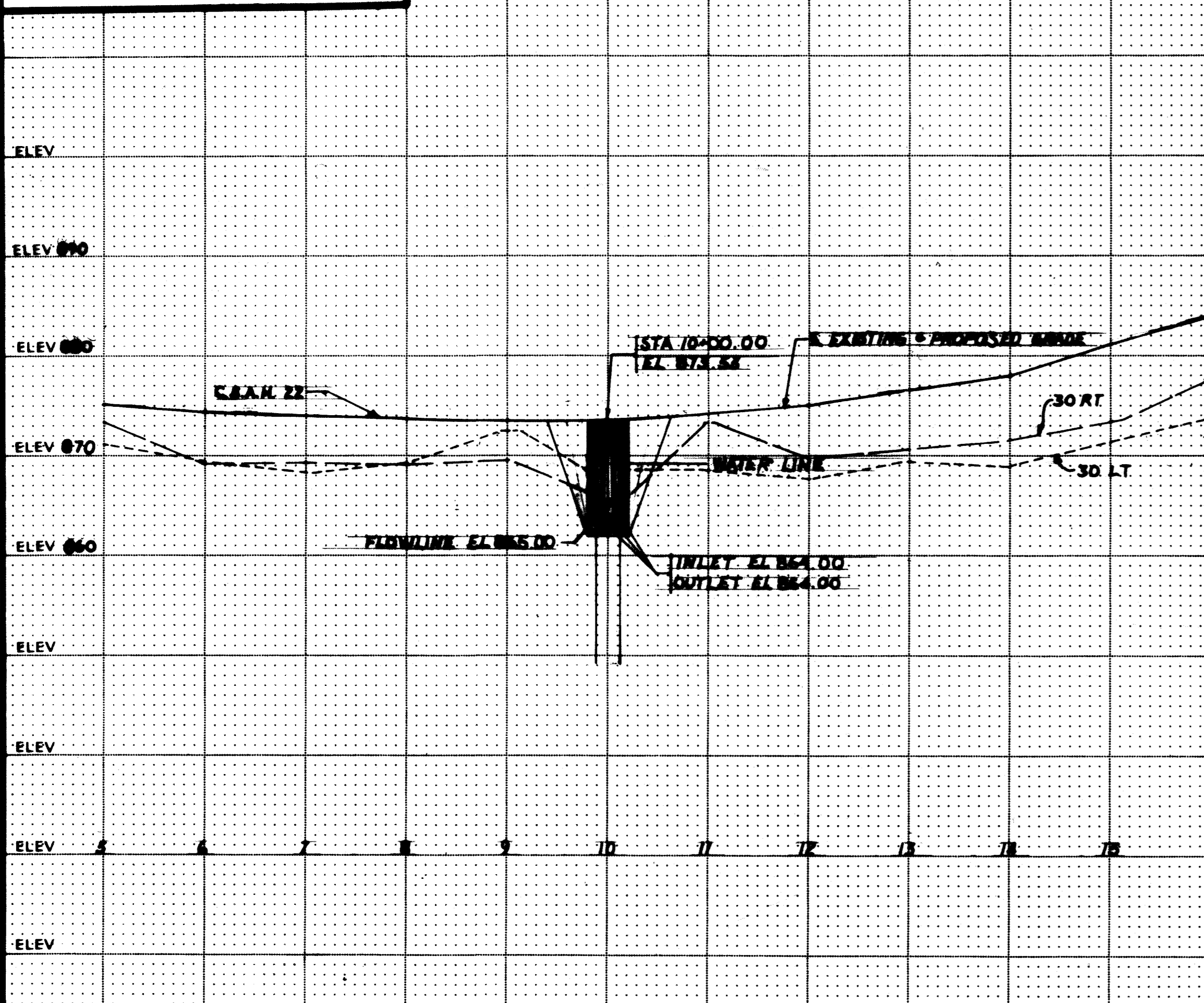
| STANDARD PLATES AS APPROVED BY F.H.W.A. SHALL APPLY STANDARD PLATES | |
|--|--|
| 0002A | SPECIFICATION REFERENCES TO STANDARD PLATES. |
| 3014 J | REINFORCED CONCRETE PIPE-ARCH DETAIL. |
| 3114 G | SECTIONAL CONCRETE APRON FOR R.C.P.A. |
| 3145 C | CONCRETE PIPE JOINT TIES. |
| 8000 H | STANDARD BARRICADES. |

THE PLACING OF THE FILTER BLANKET MAY BE ELIMINATED IF IN
THE OPINION OF THE ENGINEER THE MATERIAL IN PLACE WILL DRAIN
PROPERLY WITHOUT SCOURING.

LIMITS OF RANDOM RIPRAP AS SHOWN ARE APPROX. ONLY
EXACT LIMITS ARE TO BE DETERMINED BY THE
ENGINEER IN THE FIELD.

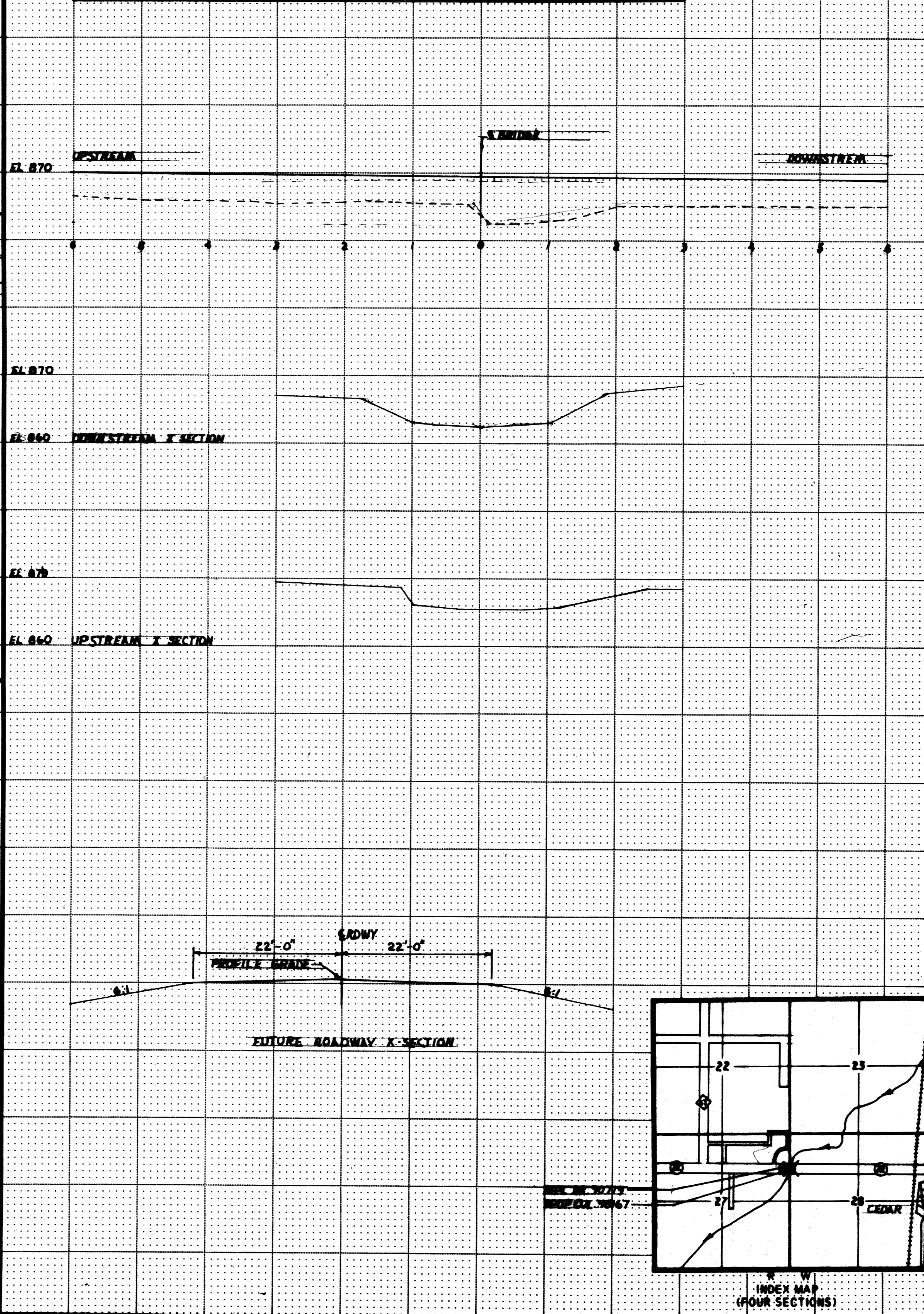
CONTRACTED PROFILE

SCALE: HOR. 0' 50' 100' VER. 0' 5' 10'



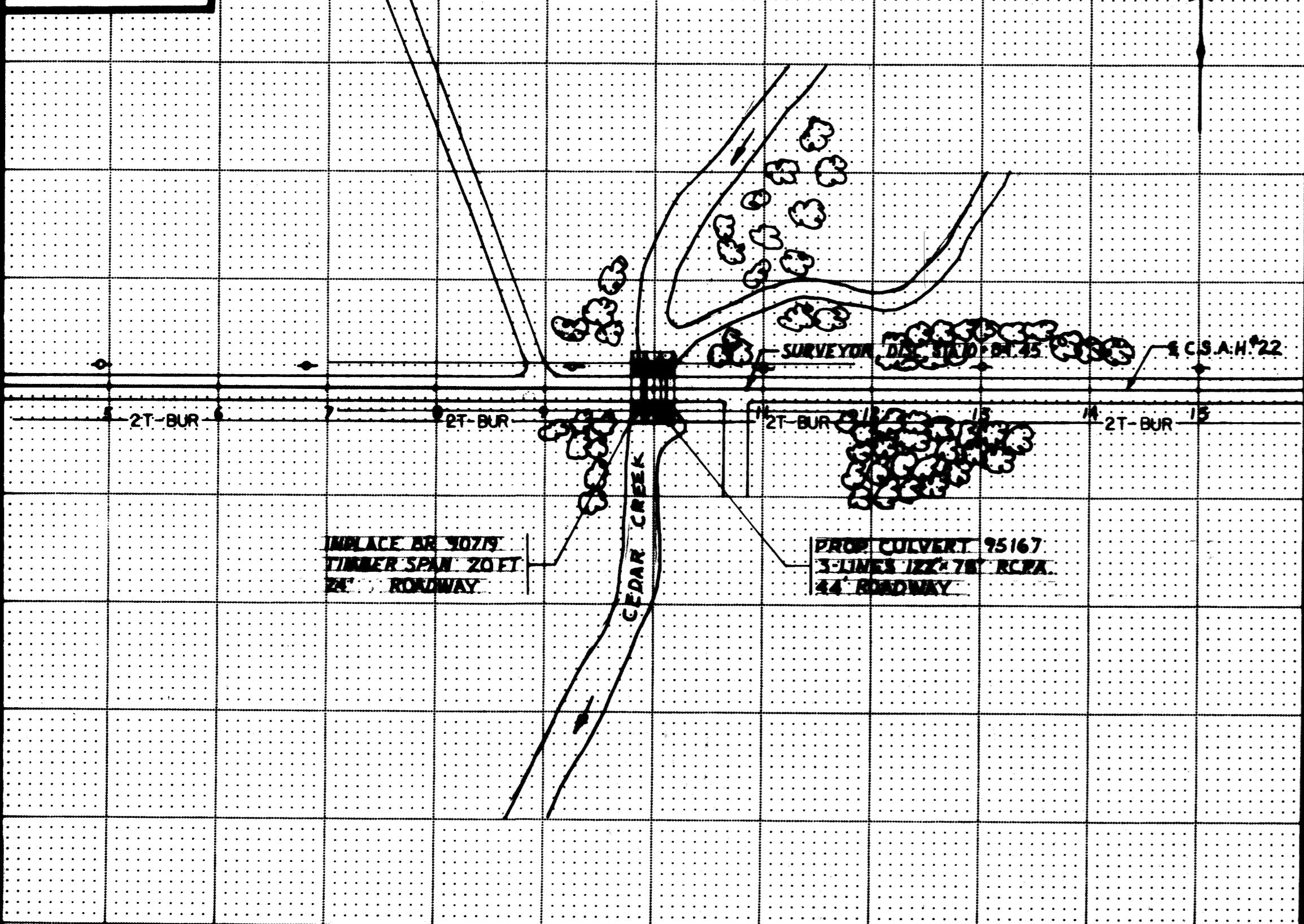
TYPICAL SECTIONS & PERTINENT DATA

SCALES AS SHOWN



PLAT

SCALE: 0' 50' 100'



Fed. Proj. No.

LOCATION ENGINEER'S OBSERVATIONS AT BRIDGE SITE

- Special Features: Waterfalls, dams, floods, ice, debris, sliding banks, recreational boating.
- Other bridges or culverts over the same stream (particularly structures which carry high water without overflow of roadway): Given location, type, length, height above high water, cross-sectional area etc.
- Apparent highwater elevation Obtained from
- Other data: Approx. velocity of water at time of survey

HYDRAULIC ENGINEERS RECOMMENDATION

DATE

Stream or ditch designation CEDAR CREEK
 Drainage area 68.50 AC.
 Max. flood on record UNK. Design flood (50 yr. freq.) 100 C.F.S.
 Max. observed highwater elevation UNK. Design highwater elevation 721.7
 Design mean velocity through structure 3.5 F.P.S.
 Low superstructure at or above elevation

3-LINES 12x14 R.C.P.A.
44' ROADWAY
PROV. CULVERT 95167

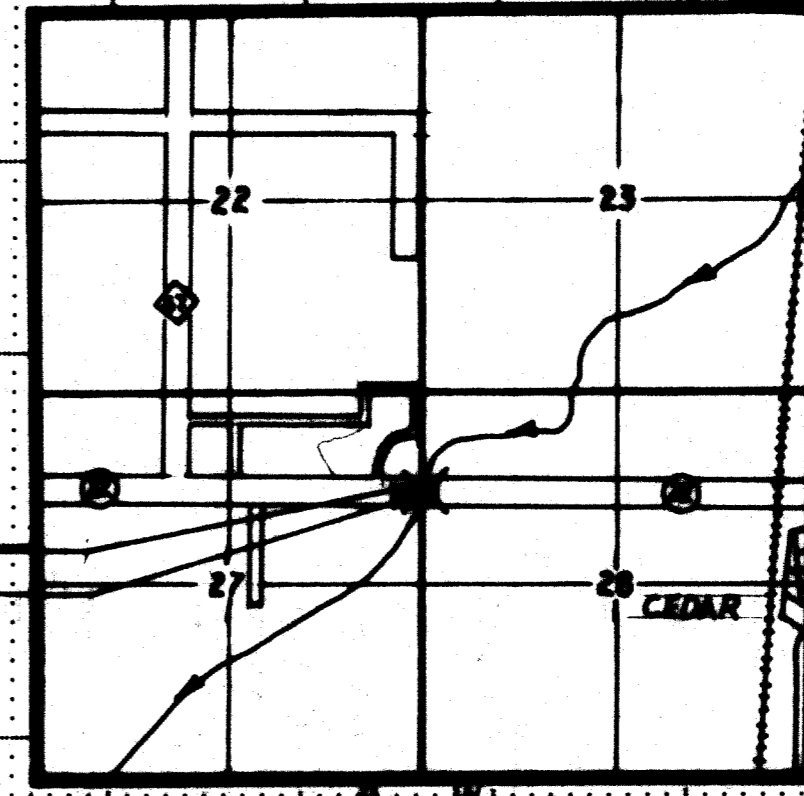
Bridge survey sheets made from: NOTES BY ERIKSSON ENGINEERING

Bench mark elevation 722.36 (M.S.L. 1929 Adj.)
 Location SIKE IN N.E. ABUT CURB

MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE SURVEY

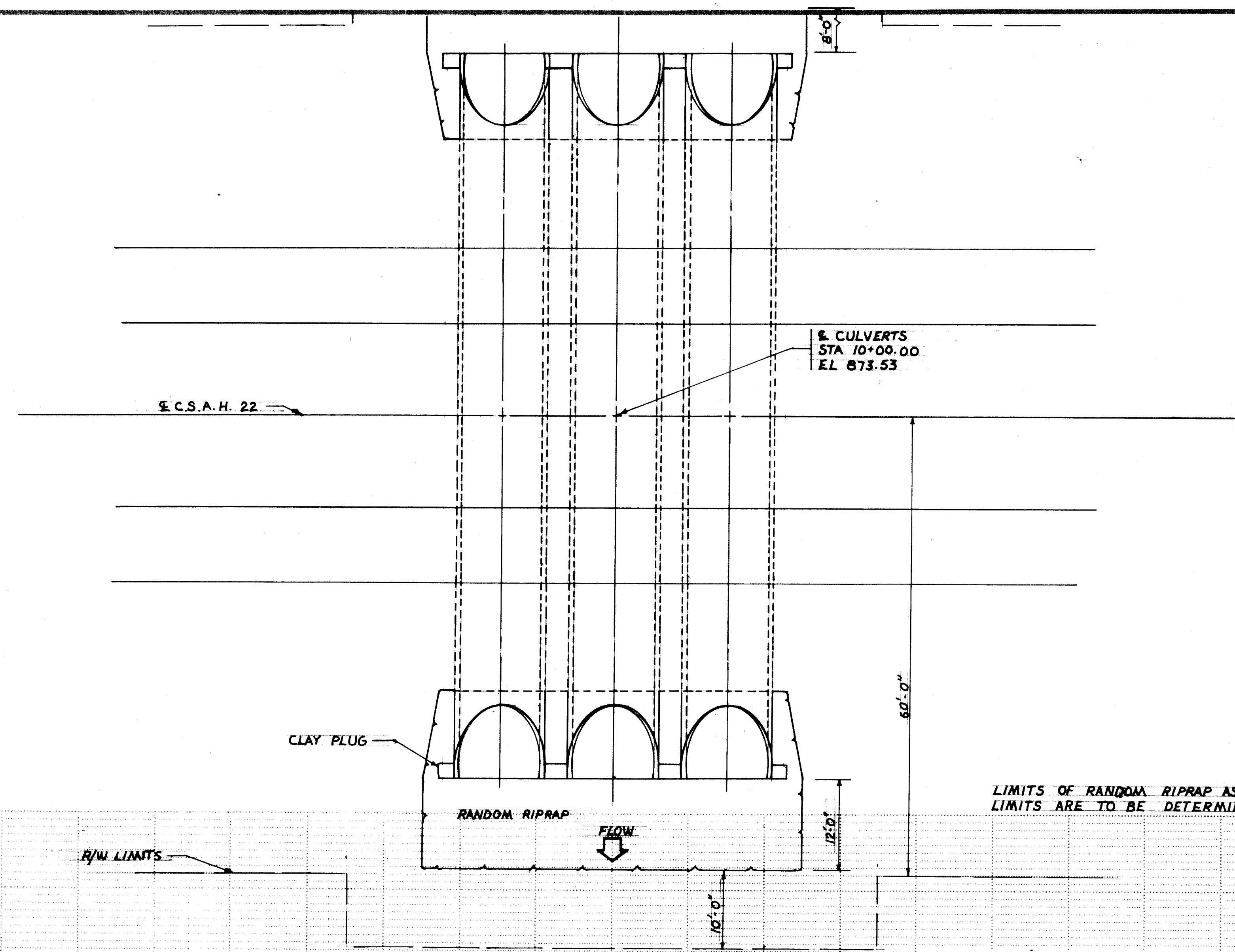
AT MILE POINT ON C.S.A.H. 22
 (T.H., C.S.A.H., C.R., etc.)
 PROPOSED BRIDGE LOCATED 0.4 MILES EAST OF
JCT. CR. 67
 SEC. 27 TWP. 33 N R. 24 W
 TOWNSHIP DAK GROVE COUNTY ANDWA
 BRIDGE NO. 96167



Area No. Job No.

STATE AID PROJ. NO. 08-622-18

Sheet No. 3 of 4 Sheets



3 CULVERTS
STA 10+00.00
EL 873.53

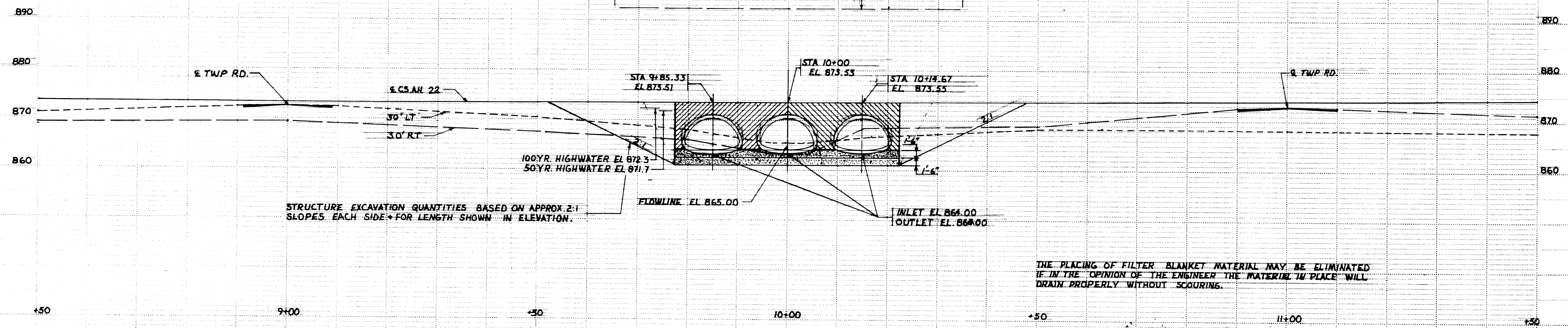
C.S.A.H. 22

CLAY PLUG

RANDOM RIPRAP

FLOW

LIMITS OF RANDOM RIPRAP AS SHOWN ARE APPROX. ONLY. EXACT LIMITS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.



STRUCTURE EXCAVATION QUANTITIES BASED ON APPROX 2:1 SLOPES EACH SIDE FOR LENGTH SHOWN IN ELEVATION.

THE PLACING OF FILTER BLANKET MATERIAL MAY BE ELIMINATED IF IN THE OPINION OF THE ENGINEER THE MATERIAL IN PLACE WILL DRAIN PROPERLY WITHOUT SCOURING.