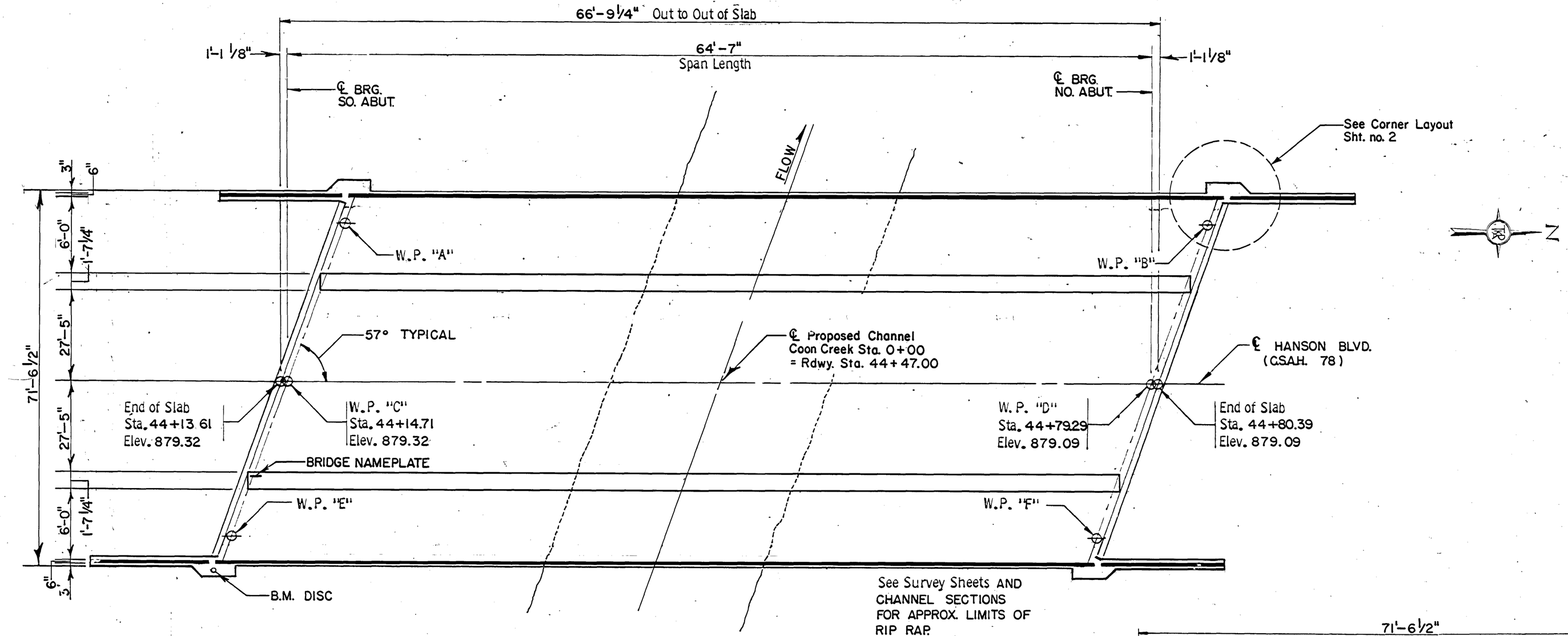
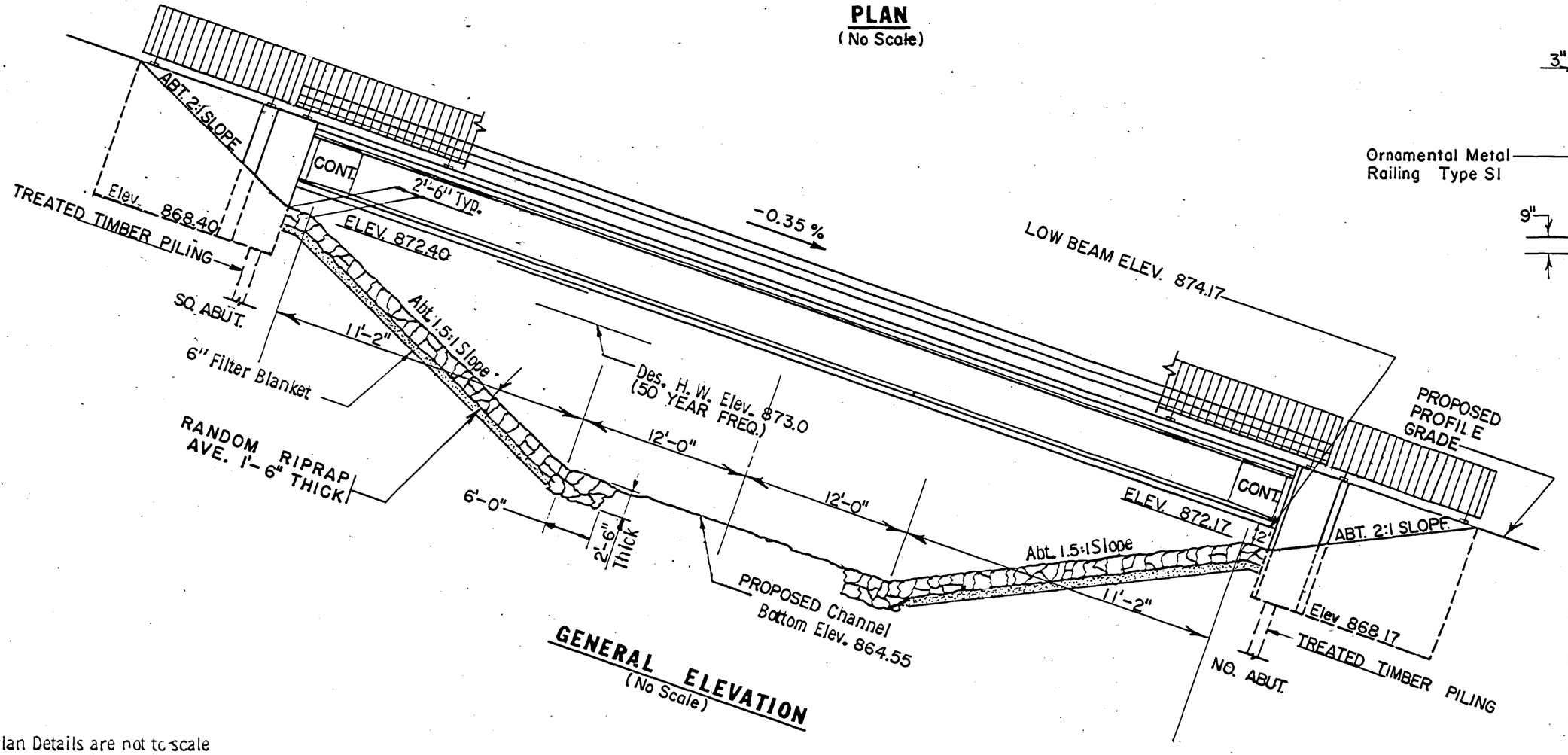
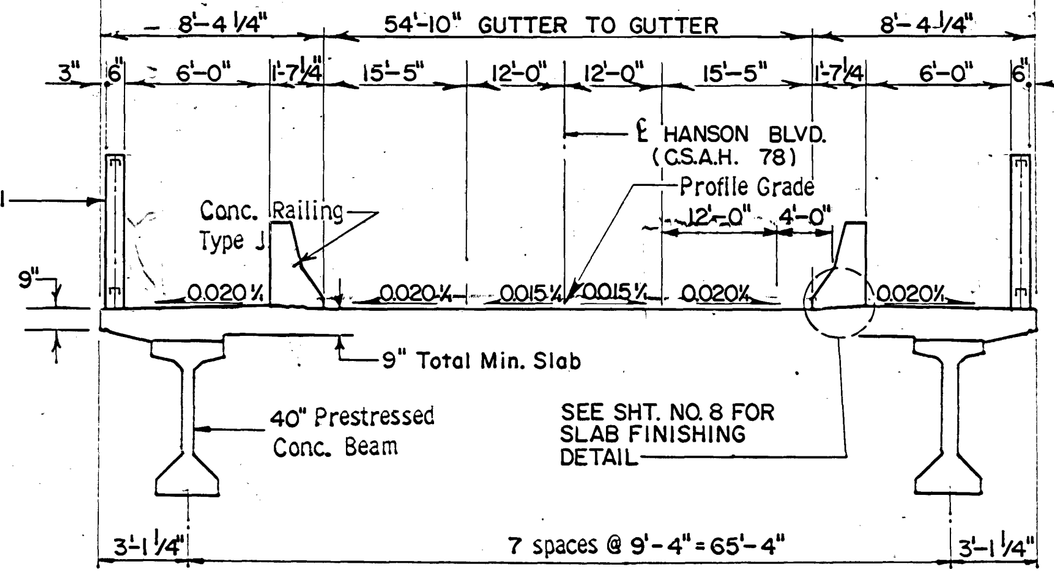


PLAN
(No Scale)



GENERAL ELEVATION
(No Scale)



TRANSVERSE SECTION
(No Scale)

Contractor shall dress slopes and place filter blanket and riprap in approximate areas shown as directed by the Engineer. Limits of riprap and filter blanket shown are approximate. Limits to be determined by the Engineer in the field. Filter blanket material may be eliminated if in the judgement of the Engineer the material in place will drain properly without scouring.

CONSTRUCTION OF EACH ABUTMENT SHALL NOT BE STARTED UNTIL THE CHANNEL REALIGNMENT AND EXCAVATION IS COMPLETE. (SEE SPECIAL PROVISIONS)

NOTE: BEAM SPACING WILL ACCOMMODATE STANDARD FORM LUMBER SIZES.

Plan Details are not to scale
(P) Denotes Plan Quantity Pay Item Per Spec. 1901

DESIGN DATA

1977 and Interim AASHTO Design Specifications
Load Factor Design Method HS 20 Loading
Maximum Allowable Design Stresses:
Reinforced Concrete
f'c = 4,000 PSI n = 8 f'y = 60,000 PSI Reinf.
Prestressed Concrete
f'c = 6,000 PSI n = 6 f's = 270,000 PSI Strands

Deck Area 4777 Sq. Ft.
4000 Projected ADT for 2001
Includes 17 P.S.F. Dead Load Allowance For Future Wearing Course Modifications.

NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	BRIDGE LAYOUT
3	ABUTMENT DETAILS
4	ABUTMENT REINFORCEMENT
5	SUPERSTRUCTURE DETAILS
6	SUPERSTRUCTURE DETAILS
7	40" PRESTRESSED CONC. BEAM TYPE 40-6S
8	CONCRETE RAILING TYPE J
9	ORNAMENTAL METAL RAILINGS TYPE SI
10	SOLE PLATES/ELASTOMERIC BEARING PAD
11	CONCRETE END DIAPH./CONC. INTERM. DIAPH.
12	PROTECTION ANGLE/STEEL INTERM. DIAPH.
13	BRIDGE NAME PLATE
14	CHANNEL SECTIONS
15	BRIDGE SURVEY
16	BRIDGE SURVEY PLAN & PROFILE

CONSTRUCTION NOTES:

The 1978 edition of the Minnesota Department of Transportation "Standard Specifications for Highway Construction" shall govern.

THE FIRST DIGIT OR THE FIRST TWO DIGITS OF EACH BAR MARK INDICATE THE BAR SIZE.

BAR MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH THE SPEC. PROVISIONS.

DESIGNED BY
TOLTZ KING DUVALL ANDERSON AND ASSOCIATES, INC.
ENGINEERS AND ARCHITECTS
ST PAUL, MINN.

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 D. Lidenberg
DATE 12/10/81 REG. NO. 13865

B.M. ELEV. 879.09 (M.S.L. 1929 ADJ.)
S.E. CORNER BASE PLATE OF TRANSMISSION POLE 95'LT. STA. 41+50.

MODIFIED
Fig. 5-395.116
Approved: February 21, 1980

SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE

ITEM NO.	2402.583	2401.501	401.606	2401.541	2401.541	2402.590	2405.501	2511.501	2511.504	2105.511	2405.511	2452.503	202 : 501	2105.521	401.605	401.601	2452.504	2452.517
ITEM	Ornamental Metal Railing Type SI	Conc., Mix. No. 3Y43	Type J Railing Conc. Mix 3X46	Reinforcement Bars	Reinforcement Bars (Epoxy Coated)	Elastomeric Bearing Pads Type 1	Prestressed Conc. Beams, Type 40-66	Random Rip Rap Class B	Filter Blanket, Type 1	COMMON CHANNEL EXCAVATION (EV)	Diaph. For Type 40 Prest. Beams	TREATED TIMBER PLG. DELIVERED	MOBILIZATION	GRANULAR BORROW (LV)	Bridge Slab Concrete Mix No. 3X33	Structure Excavation	TREATED TIMBER PLG. DRIVEN	TRT. TIMBER TEST PILES 45 FT. LONG
UNIT	Lin. Ft.	Cu. Yd.	Lin. Ft.	Pound	Pound	Each	Each	Cu. Yd.	Cu. Yd.	CU. YD	Lin. Ft.	LIN. FT.	Lump Sum	CU. YD.	Sq. Ft.	Lump Sum	LIN. FT.	EACH
QUANTITY	171 (P)	196 (P)	132 (P)	33990 (P)	16100 (P)	16	8	750	160	1700 (P)	66 (P)	1260	1	1720	4777 (P)	1	1260	2

C.S.A.H. NO. 78 ANOKA COUNTY
STATE OF MINNESOTA

Bridge No. 02539

HANSON BLVD. (C.S.A.H. NO. 78) OVER COON CREEK 0.7 MILES NORTH OF CO. RD. NO. 116 IN THE CITY OF ANDOVER
54'-10" RDWY. ONE 65' SPAN
Conc. Beam Span No. 501

GENERAL PLAN AND ELEVATION

SEC. 26,27 T. 32 N R. 24 W
ANDOVER CITY ANOKA COUNTY
APPROVED: 12-22-81
BRIDGE ENGINEER

DES. JDS DR. LDM
CHK. DHB CHK. JDS
02539

Area No. **Job No.** Design Group

State AID PROJ. NO. 02-678-03

Sheet No. 1R **of** 16 **Sheets**