MINN. PROJ. NO. .....
MINN. PROJ. NO. .....

MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

CONSTRUCTION PLAN FOR STORM SEWER, GRADING, BASE & BITUMINOUS PAVING, BRIDGE CONSTRUCTION

LOCATED ON CR 116 RUM RIVER CROSSING BETWEEN T.H. # 47 AND C.S.A.H. # 7 (Geographic Description)

COUNTY PROJECT NO. 85-05-116
COUNTY PROJECT NO. 88-09-116

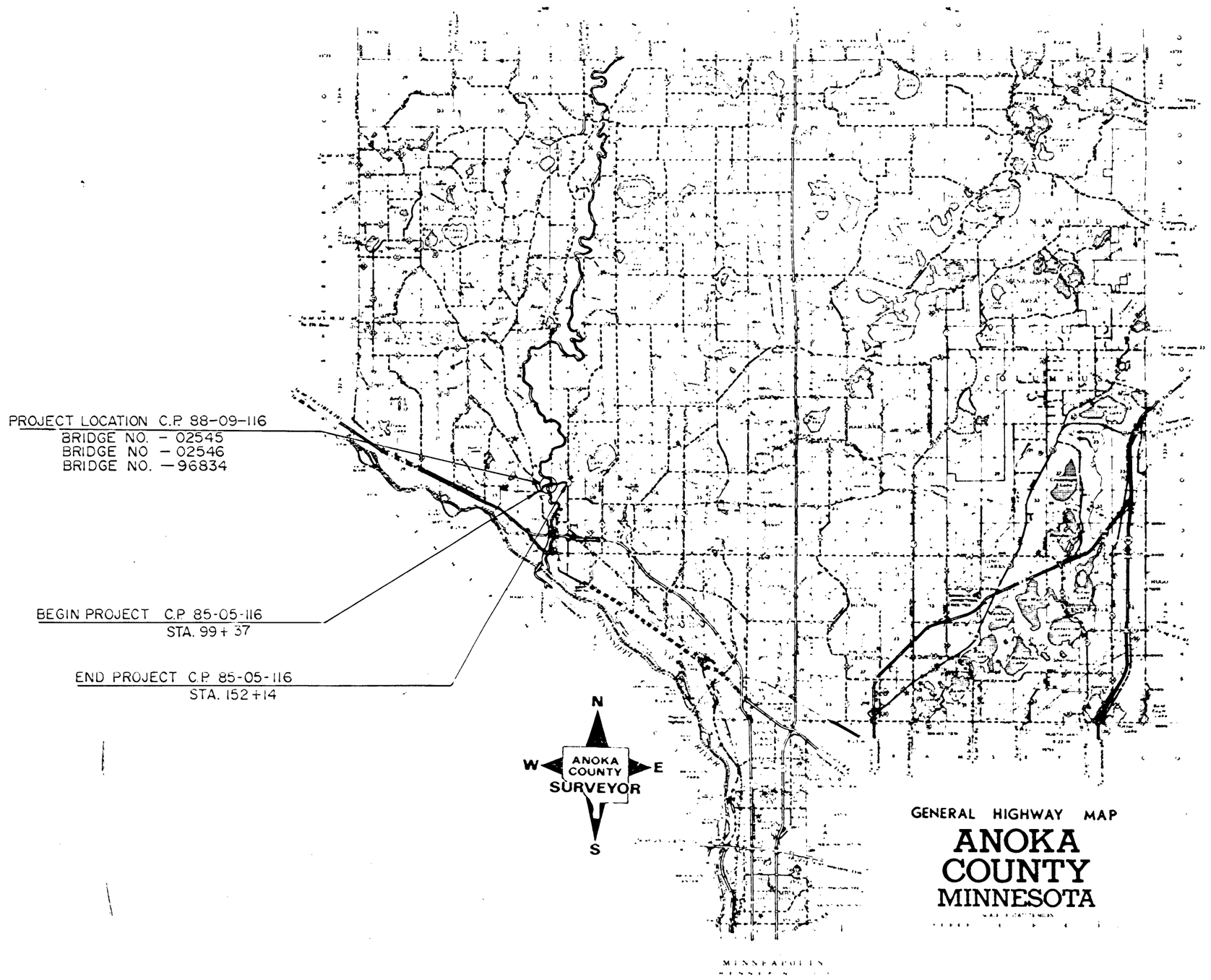
FROM ..... TO ..... (Legal Description)

STATE AID PROJ. NO. .....

GROSS LENGTH	5277.000	FEET	0.999	MILES
BRIDGES-LENGTH	724.990	FEET	0.137	MILES
EXCEPTIONS-LENGTH	724.990	FEET	0.137	MILES
NET LENGTH	4522.010	FEET	0.862	MILES

STATE AID PROJ. NO. .....

GROSS LENGTH	FEET		MILES
BRIDGES-LENGTH	FEET		MILES
EXCEPTIONS-LENGTH	FEET		MILES
NET LENGTH	FEET		MILES



PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT-OF-WAY LINE
SLOPE EASEMENT
PRESENT RIGHT-OF-WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE CONCRETE OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE TERMINAL
GAS MAIN
WATER MAIN
CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE & CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE

SCALES

PLAN ..... 50'
PROFILE ..... 10'
INDEX MAP ..... 2.56 MI
CROSS SECTION ... 10'

GOVERNING SPECIFICATIONS

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

C.P. 85-05-116	SHEET NO. 1	TITLE SHEET
	" " 2	STATEMENT ESTIMATED QUANTITIES
	" " 3	TYPICAL DETAILS
	" " 4	CONCRETE DETAILS & MISC. DETAILS
	" " 5	GUARD RAIL DETAILS
	" " 6	PLANTING DETAILS
	" " 7	DRAINAGE CHART
	" " 8-9	STORM DETAILS
	" " 10	SUPERELEVATION CHART
	" " 11-12	MITIGATION POND DETAILS
	" " 13-16	PLAN & PROFILE SHEETS
	" " 17-21	WATERMAIN DETAILS
	" " 22-32	CROSS SECTION SHEETS
C.P. 88-09-116	" " 1A-4A	BRIDGE NO. 02545
	" " 1B-3B	BRIDGE NO. 02546
	" " 1C-1OC	BRIDGE NO. 96834

THIS PLAN CONTAINS 124 SHEETS

DESIGN DESIGNATION

$ESN18_{20}$ .....
R Value .....
ADT ( ) = ...
Proj. ADT (2010) = 19,150
Proj. HCADT (2010) = 1100 +
Soil Factor A3 50%
9 Ton Design
Shoulder Width 10'

Design Speed 40 MPH
Based on STOPPING Sight Distance
Height of eye 3.5' Height of object 0.5'
Design Speed not achieved at:
STA. ..... TO STA. ..... MPH .....
STA. ..... TO STA. ..... MPH .....
STA. ..... TO STA. ..... MPH .....

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.

DATE 9/29/89 REG. NO. 6549 ENGR. Paul K. Lund
COUNTY Anoka

Recommended for Approval ..... 19.....
DISTRICT STATE AID ENGINEER

Recommended for Approval ..... 19.....
STATE AID PLANS AND SPECS ENGINEER

Approved ..... 19..... .....
STATE AID ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED .....
....
DIVISION ADMINISTRATOR DATE

STATE AID PROJ. NO. .....
STATE PROJ. NO. C.P. 85-05-116, C.P. 88-09-116 SHEET NO. 1 OF 32 SHEETS

SHEET w map blueprint Order Form # 432 REV 2 88