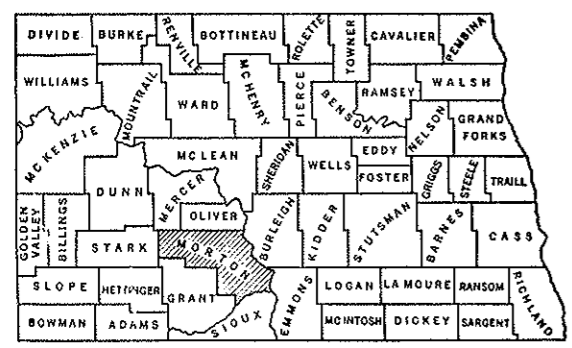


strip

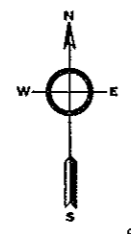
28

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	N. D.	F-1-094(03)917	1	

GOVERNING SPECIFICATIONS:
Standard Specifications adopted by the North Dakota State Highway Department Oct. 1976 and approved by the Federal Highway Administration on December 17, 1976 and other Contract Provisions submitted herewith.



SKETCH-MAP OF NORTH DAKOTA SHOWING COUNTIES



SCALES
LAYOUT SHEET: 1 IN. = 1000 FT.
PLAN AND PROFILE DRAWINGS: 1 IN. = 50 FT.
STRUCTURAL DRAWINGS: AS SHOWN
CROSS SECTION SHEETS: 1 IN. = 10 FT.

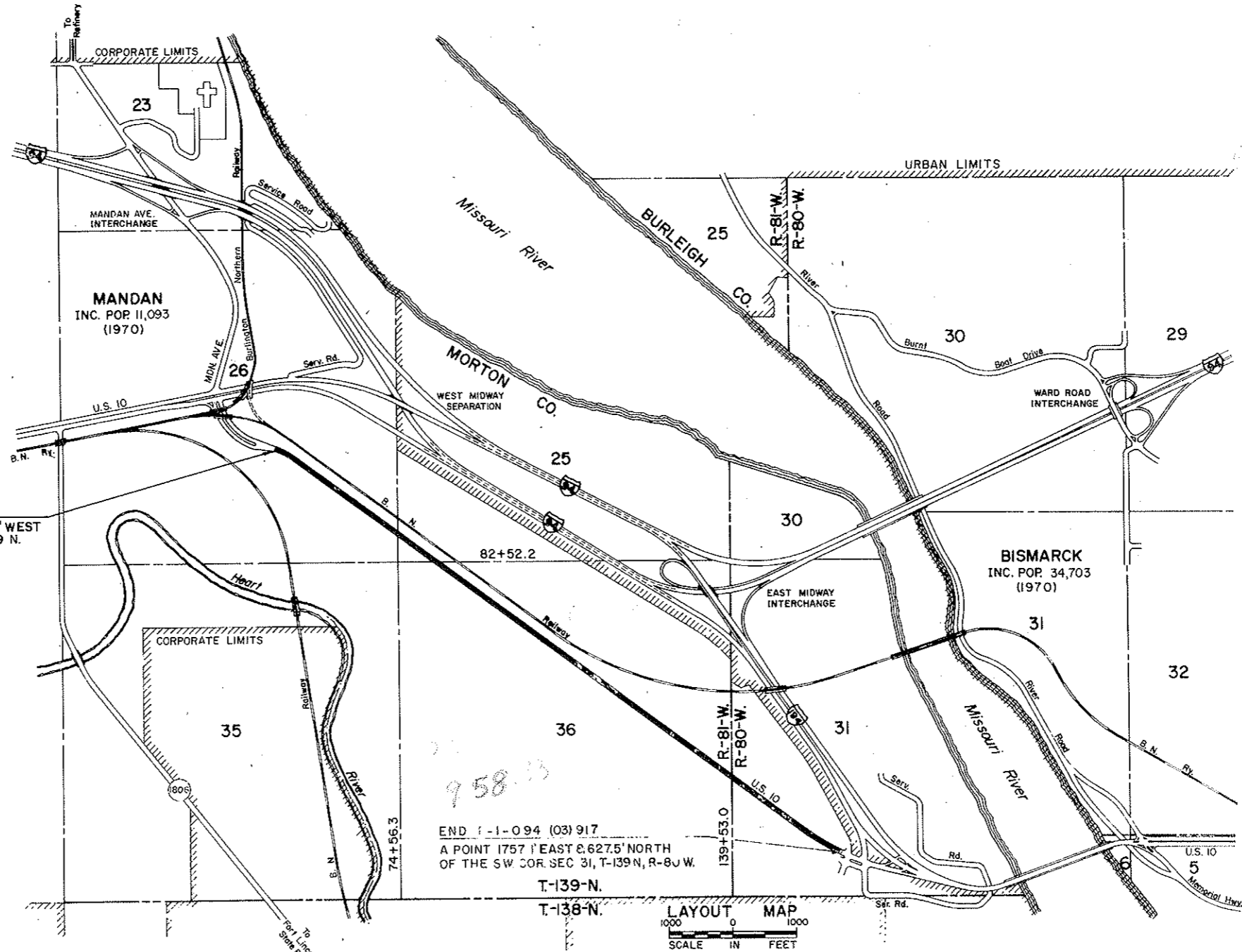
NORTH DAKOTA STATE HIGHWAY DEPARTMENT

PLANS FOR THE PROPOSED IMPROVEMENT OF A STATE HIGHWAY IN MORTON COUNTY FEDERAL AID PROJECT NO. F-1-094(03)917 GRADING, SURFACING, LIGHTING & INCIDENTALS

LENGTH OF PROJECT		
PROJECT	MILES-GROSS	MILES-NET
F-1-094(03)	2.174	2.174
TOTALS	2.174	2.174

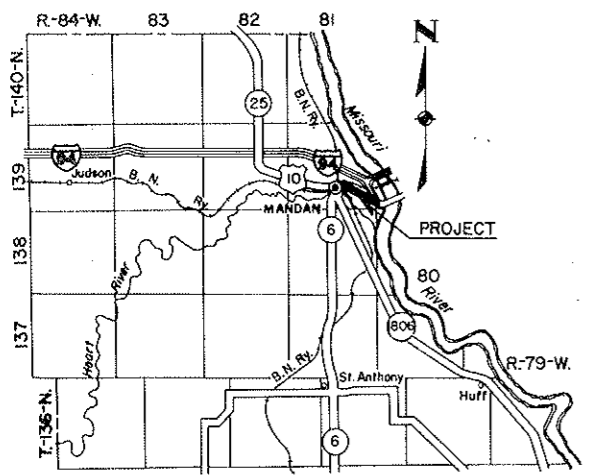
DESIGN DATA

TRAFFIC AVERAGE DAILY EST. 30TH MAX. HR.
CURRENT TRAFFIC (1979) 9325 PASS. 675 TRUCKS 10000 TOTAL 1000
TRAFFIC FORECAST (1999) 11425 PASS. 775 TRUCKS 12200 TOTAL 1220
DESIGN SPEED 40 MPH
TRAFFIC CLASSIFICATION "M"
MINIMUM SIGHT DISTANCE (STOPPING) 300'



BEG. F-1-094(03)917 STA. 9+93.2 = STA. 46+29.5
A POINT 1960.7' NORTH & 2372.32' WEST OF THE S.E. COR. OF SEC. 26, T. 139 N. R. 81 W.

END F-1-094(03)917
A POINT 1757' EAST & 627.5' NORTH OF THE SW COR. SEC. 31, T-139N, R-81W.



SKETCH MAP OF PART OF MORTON COUNTY

APPROVED DATE 12-8-78
Richard
CHIEF ENGINEER
NORTH DAKOTA STATE
HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
APPROVED **4**
DIVISION ENGINEER DATE

9:17:42

SYMBOLS

STATE & NATIONAL LINES	
COUNTY LINE	
TOWNSHIP & RANGE LINES	
SECTION LINE	
QUARTER SECTION LINE	
SECTION CORNER	
QUARTER SECTION CORNER	
OLD RIGHT OF WAY LINE	
NEW RIGHT OF WAY LINE	
GRADE LINE	
CENTERLINE OF CONSTRUCTION	
RAILROAD RIGHT OF WAY LINE	
CITY OR VILLAGE CORPORATE LIMITS	
PROPERTY LINE	
EASEMENT LINE	
FENCES	
SNOW FENCE	
DRAINAGE	
WATERS EDGE	
MARSH OR SWAMP	
RIPRAP	
DRAINAGE DITCH	
APPROACH	
TRAVELED WAY	
RAILROADS	
GUARD RAIL	
GUIDE POSTS	
DELINEATORS	
HEDGES AND TREES	
INTERCHANGE	
HIGHWAY GRADE SEPARATION- NO CONNECTION	
OTHER BRIDGE	
SERVICE ROAD	
TERMINATED CROSS-ROAD	

BUILDINGS	
TELEGRAPH LINES	
TELEPHONE LINES	
POWER LINES	
CULVERTS (In Place)	
CULVERTS (Install)	
CONCRETE BOX CULVERTS (Install)	
BRIDGES (Install)	
CONCRETE CURB	
CONCRETE CURB AND GUTTER	
CONCRETE WALK	
CATCH BASIN (Existing)	
CATCH BASIN (New)	
MANHOLE (Existing)	
MANHOLE (New)	
CURB INLET (Existing)	
CURB INLET (New)	
GROUND MOUNTED SIGNS	
OVERHEAD SIGNS	
HYDRANT	
LIGHT STANDARDS	
TRAFFIC SIGNALS (Plan & Profile Sheets)	
HIGH MAST LIGHTING ASSEMBLY	
GROUND ELEVATION	
GRADE	
CENTERLINE	
SECTION LINE	
DEFLECTION ANGLE (Delta)	
500 OR JUTE MESH	
POLES TO BE MOVED	
POLES TO BE LOWERED	
CONCRETE FOUNDATION	
CONDUIT	
CONDUCTOR	
CONCRETE PULL BOX	
FEED POINT	
250 WATT LIGHT STANDARDS	
400 WATT LIGHT STANDARDS	
700 WATT LIGHT STANDARDS	
1000 WATT LIGHT STANDARDS	
FLASHING BEACON	
TRAFFIC SIGNAL - MAST ARM MOUNTED	
TRAFFIC SIGNAL - POST MOUNTED	
SIGNAL HEAD	
PEDESTRIAN PUSHBUTTON POST	
TRAFFIC SIGNAL CONTROLLER	
FEED POINT - PAD MOUNTED	

ABBREVIATIONS

Aggr.	Aggregate	M. L.	Main Line
Ahd.	Ahead	N. R.	North Roadway
Alt.	Alternate	Off. Loc.	Office Location
Approx.	Approximate or Approximately	O to O.	Out to Out
Appr.	Approach	P. & P.	Plan and Profile
Asph. Cem. or A.C.	Asphalt Cement	P. C.	Point of Curvature
Asph. Conc.	Asphaltic Concrete	P. C. C.	Point of Compound Curve
Bit.	Bituminous or Bitumen	P. C. C. Pvm't	Portland Cement Concrete Pavement
Bk.	Back	P. D.	Private Drive
B. M.	Bench Mark	Pen.	Penetration
Bldg.	Building	Perf.	Perforated
Br.	Bridge	P. I.	Point of Intersection
C. A. E. S.	Corrugated Aluminum End Section	P. O. C.	Point on Curve
C. A. P.	Corrugated Aluminum Pipe	P. O. T.	Point on Tangent
C. B.	Catch Basin	P. P.	Power Pole
C. & G.	Curb and Gutter	P. R. C.	Point of Reverse Curvature
Ch. Bk.	Channel Block	Pref.	Preformed
Ch. Ch.	Channel Change	P. S. D.	Passing Sight Distance
C. I.	Curb Inlet	P. T.	Point of Tangency
C. I. P.	Cast Iron Pipe	P. V. C.	Polyvinyl Chloride Sewer Pipe
Cl.	Class	Quant.	Quantity or Quantities
C. S. E. S.	Corrugated Steel End Section	R	Radius
C. S. P.	Corrugated Steel Pipe	R or Rge.	Range
C. M. S.	Cationic Medium Setting	R. C.	Rapid Curing
Comp.	Compression	R. C. E. S.	Reinforced Concrete End Section
Const.	Construction	R. C. P.	Reinforced Concrete Pipe
Conc.	Concrete	R. C. P. S.	Reinforced Concrete Pipe Sewer
Cont. Reinf. Conc. Pvm't	Continuously Reinforced Concrete Pavement	Rd.	Road
Confr.	Contraction	Rdbd.	Roadbed
Crn.	Crown	Rdwy.	Roadway
CRS	Cationic Rapid Setting	Refl.	Reflectorized
Crse.	Course	R. R.	Railroad
C. S.	Curve to Spiral	Rt.	Right
C. to C.	Center to Center	R/W	Right of Way
C. Y.	Cubic Yard	Salv.	Salvage
D	Degree of Curvature	San.	Sanitary
D-Load	Dead Load	S. C.	Spiral to Curve
D. B.	Ditch Block	SC	Slow Curing
Def.	Deformed	Sc	Spiral Deflection Angle
Del.	Deliver	S. D.	Sight Distance
D. G.	Ditch Grade	S. E.	Superelevation
El. or Elev.	Elevation	Sec.	Section
Ellipt.	Elliptical	Sec. Line Appr.	Section Line Approach
Emb.	Embankment	Sep.	Separation
Emul.	Emulsified	Serv.	Service
Engr.	Engineer	Sgr. Prep.	Subgrade Preparation
Eq.	Equation	Shldr.	Shoulder
E. R.	East Roadway	SP	Special Provision
E. S.	End Section	S. P. P.	Structural Plate Pipe
Esmt	Easement	S. P. P. A.	Structural Plate Pipe Arch
Exc.	Excavation	S. R.	South Roadway
Exp.	Expansion	SS	Slow Setting or Supplement Specification
F. D.	Field Drive	S. S. D.	Stopping Sight Distance
Found.	Foundation	S. T.	Spiral to Tangent
F. P.	Fence Post	Sta.	Station
Furn.	Furnish	Std.	Standard
Go.	Gage or Gauge	Std. Specs.	Standard Specifications
Gr.	Gravel	Struct.	Structure
Grd.	Graded	Surf.	Surface or Surfacing
G. V.	Gate Valve	Surv.	Survey
Hel.	Helical	S. W.	Sidewalk
Hyd.	Hydrant	S. Y.	Square Yard
Ident.	Identification	T	Tangent Length (circular curve)
Interch.	Interchange	T or Twp.	Township
I. M.	Iron Monument	Tel.	Telephone
Inst.	Install	Temp.	Temporary
Inter.	Intersection	T. P.	Telephone Pole
Invt.	Invert	Tr.	Traffic
Jt.	Joint	Trans.	Transverse or Transition
L	Length of Curve	Trtd.	Treated
Lc	Length of Spiral	Ts	Tangent Length (curve with spirals)
Levg.	Leveling	T. S.	Tangent to Spiral
L. F.	Linear or Lineal Foot	U. S. C. & G. S.	United States Coast and Geodetic Survey
Liq.	Liquid	V. C.	Vertical Curve
Long	Longitudinal	V. C. P.	Vitrified Clay Pipe
L. P.	Light Pole	W. M.	Water Main
Li.	Left	W. M. V.	Water Main Valve
"M"	One Thousand	W. R.	West Roadway
Matl.	Material	Wring.	Wearing
Max.	Maximum	W. S. V.	Water Service Valve
MC	Medium Curing	X-Sec.	Cross Section
M. H.	Manhole	Xc	Spiral Coordinate
Min.	Minimum	Yc	Spiral Coordinate

A