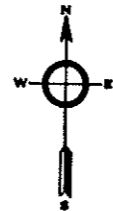


SKETCH-MAP OF NORTH DAKOTA SHOWING COUNTIES



SCALES
LAYOUT SHEET: 1 IN. = 2000 FT.
PLAN AND PROFILE DRAWINGS: 1 IN. = 30 FT.
STRUCTURAL DRAWINGS: AS SHOWN
CROSS SECTION SHEETS: 1 IN. = 5 FT.

NORTH DAKOTA STATE HIGHWAY DEPARTMENT

PLANS FOR THE PROPOSED IMPROVEMENT OF A STATE HIGHWAY IN MORTON COUNTY FEDERAL AID PROJECT NO. BRS-I-806(05)069 GRADING, SURFACING, & STRUCTURE

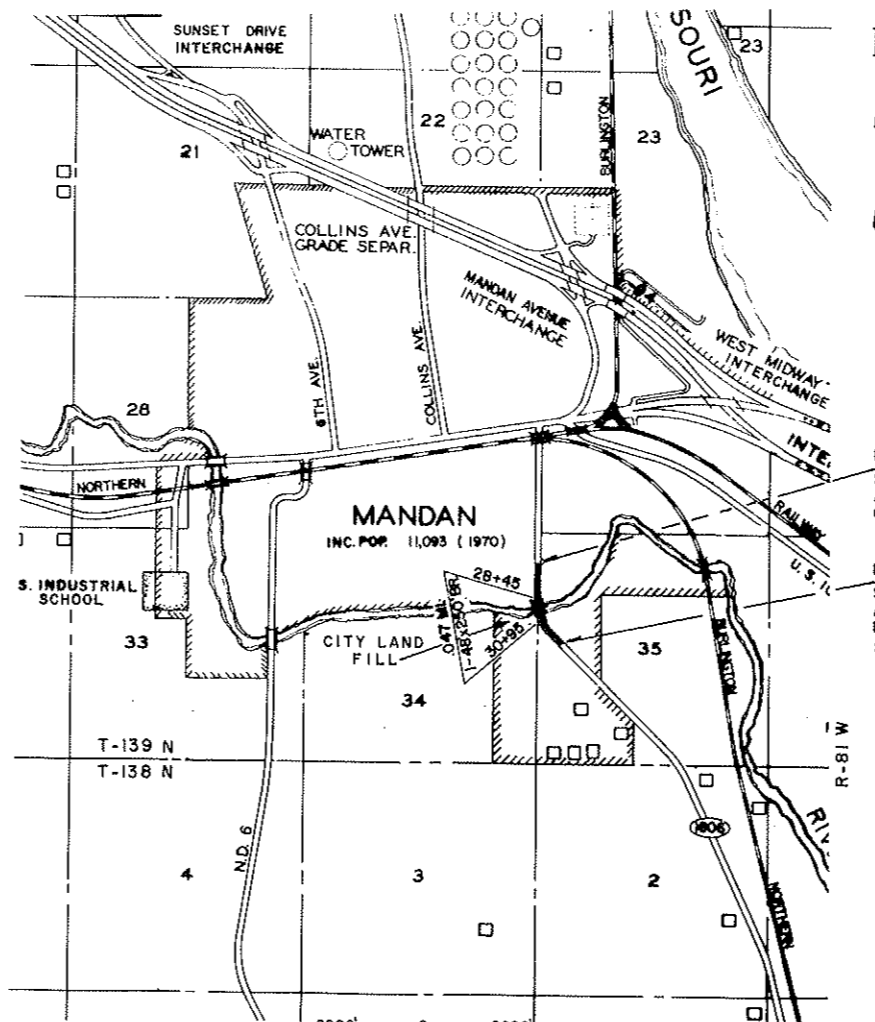
| LENGTH OF PROJECT | | |
|-------------------|-------------|-----------|
| PROJECT | MILES-GROSS | MILES-NET |
| BRS-I-806(05) | .322 | .322 |
| TOTALS | .322 | .322 |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. |
|---------------------|-------|--------------------|-----------|
| 8 | N.D. | BRS-I-806(05)069 | 1 |

GOVERNING SPECIFICATIONS:
Standard Specifications adopted by the North Dakota State Highway Department July 1971 and approved as standard by the Federal Highway Administration Sept. 29, 1971. Required Contract Provisional Form PR-1273) dated April 1974 and others submitted herewith.

DESIGN DATA

| TRAFFIC | AVERAGE DAILY | EST. 1974 MAX. HR. |
|---------------------------------------|--|-------------------------|
| CURRENT TRAFFIC (1975) | 3102 PASS. 198 TRUCKS | 3500 TOTAL 826 |
| TRAFFIC FORECAST (1995) | 4200 PASS. 300 TRUCKS | 4500 TOTAL 900 |
| DESIGN SPEED | 40 MPH | |
| TRAFFIC CLASSIFICATION | M | |
| MINIMUM SIGHT DISTANCE (STOPPING) | 275' | |
| MINIMUM SIGHT DISTANCE (SAFE PASSING) | 3200' | |
| MINIMUM PASSING DISTANCE FOR MARKING | 1200' | |
| BRIDGE | | |
| STA. 29+70 | CLEAR RDWY. WIDTH 40' + 8' SIDEWALK | DESIGN LOADING HS 20 |



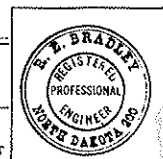
BEG. BRS-I-806 (05)069 STA. 20+67.9 =
STA. 20+67.9 ON S-1-1806
A POINT 561.9' SOUTH OF THE N.E.
COR. OF SEC. 35 T-139 N R-81 W.

END BRS-I-806 (05)069 STA. 37+70.9 OFF LOC. = 37+74.4 SURV. =
STA. 37+92.6 ON S-1-1806
A POINT 2101.7' SOUTH & 874.6'
EAST OF THE N.E. COR. OF
SEC. 35 T-139 N R-81 W.

2000' 0 2000'
SCALE IN FEET
LAYOUT MAP

APPROVED DATE: 6-27-75

R. T. Bradley
CHIEF ENGINEER
NORTH DAKOTA
STATE HIGHWAY DEPARTMENT



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ENGINEER DATE

211

Copy A

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) | |
| SOD 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'l | 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. Blk | Channel Block | Preformed | 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 |
| CMS | Cationic Medium Setting | RC | 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'l | Continuously Reinforced Concrete Pavement | Rd. | Road |
| Contn. | 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 | Solv. | 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 | Equalization | Shldr. | Shoulder |
| E. R. | East Roadway | SP | Special Provision |
| E. S. | End Section | S. P. P. | Structural Plate Pipe |
| Esm't | 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) |
| Inchq | 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 |
| JI | Joint | Trans | Transverse or Transition |
| L | Length of Curve | Trid. | Treated |
| L. C. | 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 |