

MINNESOTA HIGHWAY DEPARTMENT

*Final Copy
As Executed*

AGREEMENT NO.
53433

DEPT. IDENT. ITEM ALLOT. QTR. FUND
70500 06 572 6(63) 270

AMOUNT ENCUMB.

\$ 154,500.00

EST. AM'T. RECEIVABLE

S.P. No. 2783-9340

\$ None

Agreement between the
State of Minnesota,
Department of Highways, and
Sverdrup & Parcel and Associates, Inc.
Consulting Engineers
For T.H. 35W Bridge (No. 9340) over
Mississippi River in Minneapolis

AGREEMENT FOR

ENGINEERING SERVICES

THIS AGREEMENT made and entered into by and between the State of Minnesota, Department of Highways, hereinafter referred to as the "State", and Sverdrup & Parcel and Associates, Inc., a firm of registered professional engineers, having its principal place of business at 915 Olive Street, St. Louis, Missouri, hereinafter referred to as the "Consultant",

WITNESSETH:

WHEREAS the State proposes to construct as part of Trunk Highway No. 35W in Minneapolis a bridge over the tracks of the Chicago, Great Western Railway Company, the tracks of the Chicago and Northwestern Railway Company, the Mississippi River, the tracks of the Great Northern Railway Company and over Second Avenue S.E. (upstream from the present "Tenth Avenue" Bridge), said bridge to be approximately 1917 feet in length, and

WHEREAS the State desires to have complete construction contract plans prepared for said bridge which is hereinafter referred to as the "Bridge Project", and

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WHEREAS by virtue of Laws of Minnesota, 1961, Chapter 71, the Commissioner of Highways is authorized to employ and engage the services of registered professional engineers to act as consultants in connection with, and to make surveys and to prepare plans and specifications themselves or by their organization and employees for the construction of Trunk Highways, and the Commissioner of Highways is authorized to negotiate for and agree upon the terms and compensation for such employment and services, and

WHEREAS said "Bridge Project", designated as State Project No. 2783, Bridge No. 9340, and as U. S. Bureau of Public Roads project No. Minn. I 35W-3 (47) 112, is a part of the National System of Interstate and Defense Highways it is contemplated that the cost of engineering services to be performed in the design and preparation of said bridge construction plans will be financed in part with Federal Funds.

NOW, THEREFORE, IT IS MUTUALLY AGREED AS FOLLOWS:

Article I

Scope of the Work

The Consultant shall make the necessary preliminary studies and designs, and prepare detailed designs and complete construction contract plans, estimates of construction quantities and costs, and special construction contract provisions or requirements for the aforesaid Bridge Project. The bridge will consist of two distinctly different types of structural spans, namely:

1. Two or more deck-trusses as the main supporting members for the river span and the spans adjacent to the river with cantilevers.
2. Steel girder spans composit with deck as the main supporting members for the remaining spans.

The Consultant shall use the data contained in the attached "Schedule A" designated as "Preliminary Design and Survey Data" as a basis for designing the bridge.

The State will make application to the United States Army Corps of Engineers for permission to construct that portion of the Bridge Project which will span the Mississippi River. Final plans for said river crossing shall not be started until permission for said structure with approved clearances has been received by the State from said Corps of Engineers and the Consultant is advised of such permission.

Article II

Regarding Surveys

Section 1. State Surveys

The State will make a complete field survey for the Bridge Project, and will furnish to the Consultant all survey data obtained by it and listed and identified in the attached "Schedule A" designated as "Preliminary Design and Survey Data".

Section 2. Consultant's Responsibility.

It will be the responsibility of the Consultant to make his own analysis and evaluation of these data in the preparation of plans. The Consultant shall request the State to furnish him any additional survey data that he may require. (The State will evaluate the Consultant's request and furnish such additional survey data it deems necessary.)

The Consultant shall plot the structure on the final survey sheets and make any minor revisions or additions that may be necessary to the final completed survey sheets.

Article III

Regarding Preliminary Studies

Section 1. State Preliminary Layout.

The State has made preliminary layout studies of the Bridge Project and will furnish the Consultant the results thereof in the form of prints listed and identified in the aforesaid "Schedule A" attached hereto.

Section 2. Consultant's Responsibility.

(a) It will be the responsibility of the Consultant to make his own analysis and evaluation of the State's preliminary studies as a basis for the preparation of final bridge plans.

(b) Preliminary studies to be submitted by the Consultant shall include drawings or sketches showing all the pertinent information that may affect the determination of locations and types of substructure and superstructure units. They shall consist of plan, elevations and cross sections. The preliminary engineering shall include studies and reports to show the most feasible and advantageous arrangement of both the truss and girder spans. The girder spans shall show the number of girders (4 or more) in cross section and the methods proposed to obtain the best results. The truss spans shall have sufficient detail to permit thorough review and analysis. The use of steels of various strengths shall be investigated to determine advisability for use either in whole or in part for stress carrying members. These preliminary studies are to be accompanied by a narrative report and cost estimate based on unit prices and estimated quantities. The narrative report must present a discussion as to the reasons for basic selections of recommended types. The Consultant shall furnish to the State four copies and one paper transparency of the preliminary studies for review by the State. If the State determines that revisions of preliminary data is necessary, the Consultant shall furnish an equal number of revised copies. No work on final design shall be started until the Consultant has received written notice from the State that the selected type of bridge layout or layouts have been approved by the State and the Bureau of Public Roads. The purpose of the preliminary plans is to give the Consultant the basis for preparing the final plans. The State may require the Consultant to furnish additional preliminary design plans at no additional cost to the State, if the plans submitted are inadequate or found to be unacceptable by the State or the Bureau of Public Roads.

Article IVRegarding General Plan

After approval of the Consultant's preliminary study by the State in writing, the Consultant shall prepare a portion of the "General Plan and Elevation" sheet which is to be included in the final plans for the Bridge Project. This sheet shall be completed only to the extent necessary to show general dimensions, elevations, architectural features and basic design data to be used in the preparation of final plans. Four copies and a paper transparency of the plan sheets referred to in this paragraph and the completed survey sheets shall be submitted to the State for review and approval of the principal features of architecture, geometrics and basic design. Because of the length and type of structure the State will require the Consultant to prepare the plans for stage construction. The State will determine the extent of each construction stage and will so notify the Consultant.

Article VPreparation of Detailed Design and
Construction Contract PlansSection 1. Design Standards.

(a) The Consultant shall prepare a complete set of final plans in accordance with the approved work performed under Articles III and IV of this agreement and any subsequent instructions given by the State to the Consultant. Unless such instructions involve a substantial change in the bridge plans requiring the Consultant to do extra work not previously contemplated by the parties, the Consultant shall not receive additional compensation for completing the plans pursuant to the directions of the State.

(b) The Bridge Project shall be designed to standards which conform to "Geometric Design Standards for the National System of Interstate and Defense Highways" adopted July 12, 1956 by the American Association of State Highway Officials and approved by the United States Bureau of Public Roads on July 17, 1956 as provided by Title 23, United States Code, section 109 (b). These standards shall be considered as minimum standards. Higher standards shall be used

where it is feasible and economically sound to do so. All work to be performed by the Consultant shall be done in accordance with the requirements and recommendations of and subject to the approval of the State and the Bureau of Public Roads.

(c) Division II (Construction Details) of the Minnesota Department of Highways "Specifications for Highway Construction" dated May 1, 1959, and supplements thereto on file in the office of the Commissioner of Highways at St. Paul, Minnesota, and which are made a part hereof by reference with the same force and effect as though fully set forth herein shall be incorporated in all plans prepared by the Consultant. Where applicable design details shall conform to the Minnesota Department of Highways' current edition of Standard Detail Plates, supplements thereto and modifications thereto in the form of Design Memoranda issued from time to time by the Minnesota Department of Highways.

(d) The State will furnish the Consultant with the final survey sheets referred to in Article II, prints of certain standard plan details that may be used by the Consultant, and available prints of State plans of other bridge projects that may be considered useful to the Consultant.

(e) The Bridge Project shall be designed in accordance with the principles set forth in "A Policy and Geometric Design of Arterial Highways in Urban Areas of the American Association of State Highway Officials" edition of 1957 or subsequent revisions, on file in the office of the Commissioner of Highways at St. Paul, Minnesota, and which are made a part hereof by reference with the same force and effect as though fully set forth herein to the extent that such principles are applicable and not in conflict with specific instructions or other requirements of the State.

(f) The Bridge Project shall be designed to provide for H20-S16 loading as defined by the American Association of State Highway Officials' design standards

as modified by Section 4c of the Bureau of Public Roads' Policy and Procedure Memorandum 20-4.

(g) For continuous type bridge spans the Consultant shall also furnish to the State the Moment Influence Line diagrams, together with the bridge rating computed in accordance with the requirements of American Association of State Highway Officials' Specifications. This data shall be inked on tracing cloth in approved form on sheets 11-inches high insofar as practicable.

Section 2. Bridge Lighting.

The Consultant shall as part of the construction plans for the Bridge Project make provisions for bridge roadway lighting and navigation lighting facilities with the systems ending at a junction box at each end of the bridge.

Section 3. Drainage.

The Consultant shall design all drainage facilities required for draining the Bridge Project.

Section 4. Form of Plans.

(a) Bridge plans shall be drawn to conventional scales on 23-inch x 37-inch sheets having an outside border line 22-inch x 36-inch and an inside border line of 21-inch x $33\frac{1}{2}$ -inch with a 2-inch margin between border lines at the left-hand side of the sheet. The final plans shall include complete reinforcing bar bending details and bar lists, as well as tabulations of quantities of items of construction work. The concrete shall be computed for each individual pour between construction joints and the Consultant shall furnish to the State four letter size copies of a tabulation listing the checked quantity of concrete in each pour computed to the nearest one-tenth (0.1) of a cubic yard. The quantities of concrete shown in the plans for the superstructure and each sub-structure unit shall be the summation of all pours for each concrete mix. All

drafting and lettering on construction plans shall be of a size and weight suitable for photographic reduction to one-half scale. Final plans shall include the survey sheets which shall contain a pencil sketch of the layout of the selected structure.

(b) Final plan sheets shall be drawn with India Ink on best grade of tracing cloth, or they shall be positive reproductions on one of the following materials:

1. Blue colored photographic process cloth.
2. Blue colored "wash off" process cloth.
3. Black line photographic process on polyester film base, 0.003 thickness and matte finish on the front or working surface.

(c) All final plan sheets shall be of such quality as will permit reducing to one-half scale and the making of first class blue line or black line prints from the reductions.

Section 5. Cost Estimate.

The Consultant shall furnish a complete construction cost estimate of the Bridge Project based on final plan quantities.

Section 6. Special Requirements.

The Consultant shall furnish a written report outlining any special requirements regarding construction which are not covered in the plans, or in said Highway Specifications, and which should be included in the Special Provisions for the construction of the Bridge Project.

Section 7. Conferences.

The Consultant shall confer with the officials of the Minnesota Department of Highways and the Bureau of Public Roads as often as is necessary in regard to design and other features and perform the travel necessary for such

conferences. When requested by the State, the Consultant shall also assist the State in negotiations with Railroad Companies and other interested parties. The Consultant shall not receive any additional compensation for participation in such conferences and negotiations.

Section 8. Progress Reports.

The Consultant shall submit to the State monthly reports in duplicate showing the progress of the preparation of detailed designs and construction plans based on percentage of completion of said detailed designs and construction plans. Sample forms will be furnished by the State upon request.

Section 9. Furnishing Advance Prints.

(a) The Consultant shall from time to time during the progress of the work prepare and present such information and studies as may be pertinent and necessary or as may be requested by the State to enable the State to pass critical judgment on the features of the work. The Consultant shall make such changes, amendments, or revisions in the detail of the plans as may be required by the State.

(b) At the request of the State, the Consultant shall during the progress of the work furnish the State such portions of plans, or other information or data in such detail as may be required, to enable the State to carry out or to proceed with related phases of the Bridge Project not covered by the agreement, or which may be necessary to enable the State to furnish information to the Consultant upon which to proceed with the further work.

(c) During the progress of preparing plans the Consultant shall furnish the State the best available information as to the probable effect of the proposed construction upon any public utility facility, railroads or buildings. Information may be submitted in letter or plan form as requested by the State. Any request

for information from the owners of any public utility facility or railroad or building shall be referred to the State.

Section 10. Checking Prints.

When detail plans have been completed and checked by the Consultant, he shall furnish to the State one set of paper transparencies of the final plans and four copies of the special construction requirements and of a complete estimated construction cost analysis of the Bridge Project, plus an equal number of revised copies if the State's review discloses that revisions are necessary. The Consultant shall also furnish to the State two copies of checked design computations and quantity computation (except four copies as noted in (a) of Section 4 for concrete quantities) and computations for moment influence line diagrams for all parts of the entire structure. Computations shall be submitted on 8 $\frac{1}{2}$ " x 11" sheets insofar as practicable.

Section 11. Approval of Plans.

(a) Approval and acceptance of the plans will be based on the review of the completed plans in their final form.

(b) When required to do so by the State, the Consultant shall make at no additional cost to the State such revisions in plans which have been approved and accepted by the State as are necessary to correct errors in the plans.

Section 12. Checking of Shop Drawings.

The services to be furnished by the Consultant hereunder do not include the checking of any shop detail drawings for the fabrication of structural metals.

Section 13. Revision of Plans.

(a) If the State orders alterations or revisions without a written request for an adjustment in fee, or, if the Consultant fails to submit a written request for an adjustment in fee within five days after being notified

of such alterations or revisions, it will be understood that the parties mutually agree that all work shall be completed in accordance with such alterations or revisions without any adjustment in the fee provided for herein.

(b) Should the State find it desirable for its own purposes to have previously satisfactorily completed and approved Plans or parts thereof revised, the Consultant shall make such revisions if requested and as directed by the State and such revisions shall be deemed extra work for which a supplement to this agreement will be executed.

Section 14. Utilities.

(a) When designs have reached the stage of progress that the effect of the Bridge Project on existing utilities can be determined, the Consultant shall furnish the State one transparency and two prints of plan and cross section sheets showing the existing utilities and his recommendations for such protection and relocations as may be necessary. The State will thereupon contact the owners and operators of all such utilities and determine whether or not the rearrangement or protection of the utility is to be performed by the owner thereof. The final locations of such utilities will be determined by the State and such information will be furnished to the Consultant who shall show said new locations on the final construction plans. The plans for the bridge shall provide for steel supports for utilities that are to be placed on the bridge.

(b) For those utilities which are to remain within the area affected by the proposed construction, the present, temporary and the future locations and elevations shall be shown in the plans. For those utilities which are to be permanently removed from the proposed construction area, the present (and temporary, if any) locations and elevations shall be shown, and the removal thereof shall be indicated by notes in the plans.

Article VIRegarding Payment to the Consultant
For Services PerformedSection 1. Amount of Payment.

The State shall pay the Consultant, and the Consultant agrees to accept, as compensation in full for the services to be done and performed hereunder the sum of One Hundred Fifty-four Thousand, Five Hundred Dollars (\$154,500.00).

Section 2. Invoices - Partial Payments

The Consultant may submit invoices to the State, not oftener than once each month during the progress of the work for partial payment on account, for the work completed to-date. Such invoices shall represent the value to the State of the partially completed work based on the proportion which its percentage of completion bears to the total value or total estimated value of the fully completed plans. Such invoices will be checked by the State and payments will be made in an amount of 90 percent of such amount thereof as has been found to reasonably represent the value to the State of the partially completed work, less any amounts previously paid on account.

Section 3. Reports.

(a) The Consultant shall submit monthly accomplishment reports to the State. The form for the report will be a standard one prescribed by the State, which will be the bar graph - progress curve type using weighted averages, a sample of which will be furnished to the Consultant by the State. The listing of accomplishment will be made by the State on the sample form, but the Consultant shall assign the cost percentages and have them approved by the State. The Consultant shall prepare and have available his own supply of such form.

(b) If requested by the State, the Consultant shall submit prints of partially completed plans to support this request for partial payments. The State will use these to determine the reasonable value to the State of the partially completed work and the amount of the partial payment.

Section 4. Final Payment.

Final Payment of any balance due the Consultant hereunder will be made promptly by the State after the completion of the work and its approval and acceptance by the State, and the receipt of the plans, notes, reports and other related documents which are required to be furnished.

Section 5. Material and Data furnished by the State.

It is understood that the material and data to be furnished to the Consultant by the State hereunder have been evaluated by the parties to this agreement and that their value has been taken into consideration in the determination of the fees to be paid to the Consultant.

Section 6. Extra Work.

(a) It is distinctly understood and agreed that no claim for extra work done or materials furnished by the Consultant will be allowed by the State unless such additional work is ordered by the State and a supplement to this agreement is first entered into setting forth the nature and the scope thereof and the compensation if any to be paid by the State to the Consultant for such additional work.

(b) Any such work or materials which may be done or furnished by the Consultant without such supplemental agreement shall be at his own risk, cost and expense, and he hereby agrees that without such supplemental agreement he will make no claim for compensation for work or materials so done or furnished.

Section 7. Disputes.

In any case where the Consultant believes extra compensation is due him for work and services not clearly covered by this agreement or supplement thereto,

he shall notify the State in writing of his intention to make claim for such extra compensation before he begins the work on which he bases his claim. If such notification is not given, no claim for such extra compensation will be considered. Such notice by the Consultant shall not in any way be construed as proving the validity of the claim. The claim must be passed upon by the State. If the claim qualifies as extra work within the preview of this agreement it shall be allowed and paid for as Extra Work in accordance with the terms of a supplemental agreement entered into before such work is started.

Section 8. Termination.

This Agreement may be terminated by the State at any time upon written notice to the Consultant. In the event that such termination should take place at any time other than at the completion of the work to be performed hereunder then, and in that event, the State will pay the Consultant the same percentage of the fee to be paid, therefor, as the completed work bears percentage-wise to the total work to be performed under this contract. The original copies of all drawings, prints, plans and field notes prepared by the Consultant prior to said termination shall become the property of the State. Such termination shall not affect any legal right of the State against the Consultant for any breach of this Agreement.

Article VII

Regarding Time Schedule

(a) The Consultant shall complete and deliver to the State the preliminary plans, study reports and preliminary cost estimates to be prepared by him under Article III of this agreement within 75 calendar days after execution of this agreement and receipt by him of written notice from the State to proceed with the work to be performed by him hereunder.

(b) The Consultant shall complete and deliver to the State the "General Plan and Elevation" sheet in accordance with Article IV of this agreement within 60 calendar days after receipt by him of written notice of approval by the State of his preliminary studies and plans.

(c) The Consultant shall complete and deliver to the State the final plans, special requirements and detail cost estimates to be prepared by him hereunder within 210 calendar days after receipt by him of written notice from the State to proceed with work on the final plans. It is understood that the time necessary for the State to review and approve the material furnished by the Consultant under Article IV will not be charged against said 210 calendar days.

(d) The State may extend the aforesaid time completion periods upon written request from the Consultant for delays encountered that are beyond his control. The amount of such time extension shall be determined by the Chief Engineer or the Deputy Chief Engineer of the Department of Highways who are authorized to grant such time extension by letter to the Consultant.

Article VIII

General Provisions

Section 1. Compliance with Laws.

The Consultant shall comply with all Federal, State and local laws, together with all ordinances and regulations applicable to the work. He shall procure all licenses, permits, or other rights necessary for the fulfillment of his obligation under this agreement.

Section 2. Claims.

(a) Any and all employees of the Consultant or other persons while engaged in the performance of any work or services required by the Consultant under the agreement shall not be considered employees of the State, and any and all claims that may or might arise under the Workmen's Compensation Act of

Minnesota on behalf of said employees or other persons while so engaged, and any and all claims made by any third party as a consequence of any act or omission on the part of the Consultant's employees or other persons while so engaged on any of the work or services to be rendered shall in no way be the obligation or responsibility of the State.

(b) The Consultant indemnifies, saves and holds harmless the State and any agents or employees thereof from any and all claims, demands, actions or causes of action of whatsoever nature or character arising out of or by reason of the execution or performance of the work of the Consultant provided for under this agreement.

Section 3. Contingent Fee.

The Consultant warrants that he has not employed or retained any Company or persons, other than a bona fide employee working solely for the Consultant, to solicit or secure this agreement, and that he has not paid or agreed to pay any Company or person, other than bona fide employees working solely for the Consultant, any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon or resulting from the award or making of the agreement. For breach or violation of this warranty the State shall have the right to cancel the agreement and in the event of such cancellation, the State shall be relieved of any obligation to compensate the Consultant for work performed up to the time of such cancellation.

Section 4. Inspection.

Duly authorized representatives of the State and Bureau of Public Roads shall have the right to inspect the work of the Consultant whenever they deem it necessary.

Section 5. Subletting.

The services of the Consultant to be performed hereunder are personal and shall not be assigned, sublet or transferred unless written authority to do so is granted by the State and approved by the Bureau of Public Roads.

Section 6. Registration.

Plans prepared in accordance herewith shall be prepared by or under the direct supervision of a professional engineer registered in the State of Minnesota and said plans shall be certified by him as required by law.

Section 7. Use of Plans.

All plans survey notes and copies of design computations shall become the property of the State, who shall have the right to use any or all of said plans or designs for any public purpose.

Section 8. Insurance.

The Consultant shall furnish satisfactory evidence of insurance from loss by any means of all surveys notes and other data furnished to him by the State and of partially completed plans for which the State has made payment.

Section 9. Employees.

The Consultant shall not engage, on a full or part-time or other basis for work covered by the terms of this contract, any professional or technical personnel who are or have been at any time during the period of the contract in the employ of the State, except regularly retired employees, without written consent of the public employer of such person.

Article IXServices That May Be Furnished by the ConsultantAfter Completion and Acceptance of Plans

This agreement shall not be considered terminated upon completion and acceptance of the plans and specifications, or upon final payment therefor, but

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shall be considered in full force and effect for the purpose of permitting the State to require the Consultant to:

1. Make such revisions in the plans as may be necessary after the starting of construction of the Project.
2. Furnish the State advice and consultation in the event that unforeseen or unusual conditions arise during construction. Payment by the State to the Consultant for services furnished by the Consultant after completion and acceptance of the plans will be made only upon execution of a supplemental agreement in writing setting forth the services to be furnished by the Consultant and any payment to be made therefor by the State.

Article X

Execution of Agreement

Before this agreement shall become binding and effective, it shall receive the approval of the Federal Bureau of Public Roads and of such State Officers as the law may provide in addition to the Commissioner of Highways.

IN WITNESS WHEREOF the parties hereof have duly executed this Agreement by their proper officers and representatives.

(Corporate Seal)

SVERDRUP & PARCEL AND ASSOCIATES, INC.

(R) [Redacted]
By _____

President

(R) [Redacted]
By _____

Vice-President

DEPARTMENT OF HIGHWAYS

Recommended for Approval:

(R) [Redacted]
By _____
Bridge Engineer

(R) [Redacted]
By _____
Chief Engineer

STATE OF MINNESOTA:

(R) [Redacted]
By _____
ASS'T Commissioner of Highways

Date 10/22/62
(Date of Agreement)

Approved:

Department of Administration

(R) [Redacted]
By _____
Authorized Signature

Approved as to form and execution:

(R) [Redacted]
By _____
Special Assistant Attorney General

\$154,500.00
HAS BEEN ENCUMBERED FOR THE OBLIGATION HEREOF AGAINST THE PREVIOUSLY UNENCUMBERED BALANCES OF THE PROPER APPROPRIATION AND ALLOTMENT.
OCT 24 1962
STAFFORD KING, State Auditor
By (R) [Redacted]
Authorized Signature

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Agreement No. 53433

Schedule A
For Bridge No. 9340

PRELIMINARY DESIGN AND SURVEY DATA

Alignment of Bridge No. 9340 - as shown in preliminary layout sketch dated 10-3-62
Net span length - Bridge No. 9340 - approximately 1917 feet (See Item 1 below.)

Width of roadway on bridge: Two - 52 foot roadways, 4 foot center island (Roadways
curbs flared by ramps at north end.)

Number and width of ~~side roads~~: Two - 1.5 foot curbs

Alignment of piers and abutments to centerline of roadway: Square or skewed as
necessary to fit various in-place facilities.

Data to be Furnished to Consultant:

1. Preliminary layout sketch approved on October 3, 1962 showing general plan and elevation for Bridge No. 9340 and transverse profile of finished floor surface.
2. Nine bridge survey sheets for Bridge No. 9340 showing plat, profiles, typical cross-sections of T.H. 35W=394.
3. Three sheets of in-place utilities.
4. Split tube soil sample records will be furnished by the State.
5. Standard sheets to be furnished to the Consultant:

Standard Railing Sheet
Standard Miscellaneous Detail Sheets

Agreement No. 53433

Schedule A
For Bridge No. 9340

Agreement No. 53433

Schedule A
For Bridge No. 9340

PRELIMINARY DESIGN AND SURVEY DATA

Alignment of Bridge No. 9340 - as shown in preliminary layout sketch dated 10-3-62
Net span length - Bridge No. 9340 - approximately 1917 feet (See Item 1 below.)

Width of roadway on bridge: **Two - 52 foot roadways, 4 foot center island (Roadways**
curbs flared by ramps at north end.)

Number and width of ~~sidewalks~~ **curbs: Two - 1.5 foot curbs**

Alignment of piers and abutments to centerline of roadway: **Square or skewed as**
necessary to fit various in-place facilities.

Data to be Furnished to Consultant:

1. Preliminary layout sketch approved on October 3, 1962 showing general plan and elevation for Bridge No. 9340 and transverse profile of finished floor surface.
2. Nine bridge survey sheets for Bridge No. 9340 showing plat, profiles, typical cross-sections of T.H. 35W-394.
3. Three sheets of in-place utilities.
4. Split tube soil sample records will be furnished by the State.
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Standard Railing Sheet
Standard Miscellaneous Detail Sheets

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Schedule A
For Bridge No. 9340