

JULY 22, 1958

STATE OF IOWA  
 STATE HIGHWAY COMMISSION  
 DESIGN FOR  
 42'-6" x 20' PRE-STRESSED CONCRETE BEAM BRIDGE  
 SECONDARY ROAD SYSTEM PROJ. DS-2780(1)  
 CRAWFORD COUNTY  
 JANUARY 1958.

MILEAGE SUMMARY: = 44'-6" = 0.00842 MILES.

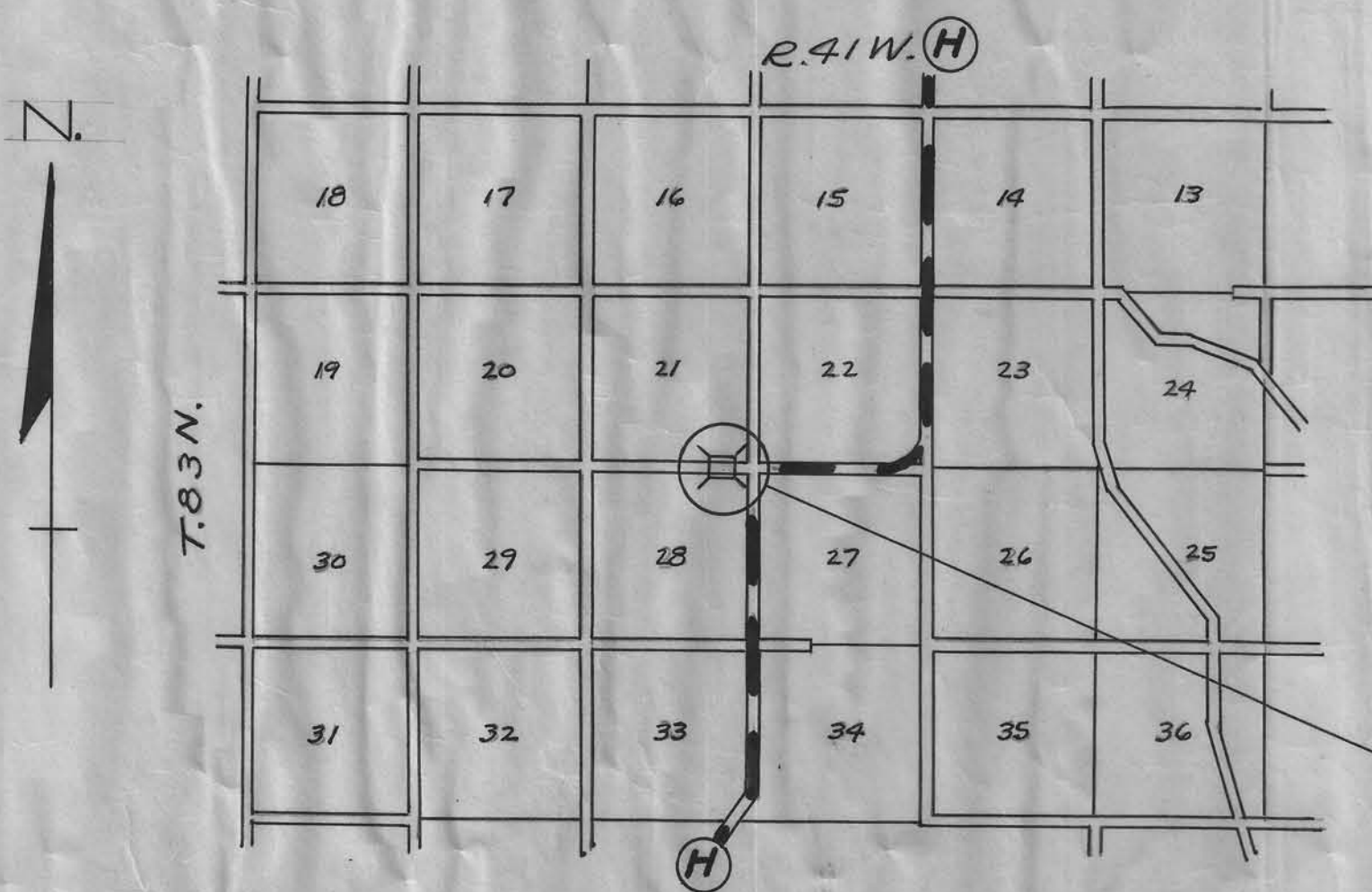
SPECIFICATIONS:  
 Design: A.A.S.H.O. Series of 1953.  
 Construction: Standard Specifications of the Iowa State Highway Commission, Series of 1956, plus Current Special Provisions except as noted.

IN LETTING OF JULY 22, 1958

| DESIGN-2458 WILLOW TWP. CRAWFORD COUNTY.<br>Sec.-21-28 STA. 94+74.17 OVER WILLOW CREEK<br>42'-6" x 20' PRESTRESSED CONCRETE BEAM BRIDGE |           |         |              |      |              |
|---|-----------|---------|--------------|------|--------------|
| DESCRIPTION   | ABUTMENTS |         | SUPERSTRUCT. |      | TOTAL        |
| CONCRETE CLASS-"A"  | 12.60     | C.Y.    | 23.50        | C.Y. | 36.10 C.Y.   |
| REIN. STEEL   | 1316      | LBS.    | 4845         | LBS. | 6161 LBS.    |
| STRUCT. STEEL   | 3430      | "       | 858          | "    | 4288 "       |
| PRE-STRESSED BEAMS,   |           |         | 5 @ 42'-6"   |      | 5 @ 42'-6"   |
| HANDRAIL  |           |         | 105'-0" L.F. |      | 105'-0" L.F. |
| WOOD RAIL POSTS 8" x 6'   |           |         | 4            |      | 4            |
| TREATED WOOD TREESTLE PILING  | 6 @ 50'   | 8 @ 35' |              |      | 1050 L.F.    |
|   | 6 @ 45'   | 8 @ 25' |              |      | 6080 F.B.M.  |
| TREATED LUMBER  | 6080      | F.B.M.  |              |      | 6080 F.B.M.  |
| GALVANIZED HARDWARE   | 170       | LBS.    | 32           |      | 202 LBS.     |
| EXCAVATION CLASS #20  | 151       | C.Y.    |              |      | 151 C.Y.     |
| " CLASS #10   |           | C.Y.    |              |      | 202 C.Y.     |
| " CLASS #21   | 15        | C.Y.    |              |      | 15 C.Y.      |
| REMOVAL OF OLD STRUCTURE  |           |         |              |      | LUMP SUM.    |

\* Bearing Piling to be oversize.

NOTE: Bridge Sign Assemblies will be furnished & placed by Crawford County to conform with S. & T. Instruction No. 11, revised March-1, 1956.



DESIGN No. 2458  
 PROJECT No. DS-2780(1)

APPROVED.

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BOARD OF SUPERVISORS DATE

APPROVED

CHIEF ENGINEER, DATE  
 IOWA HIGHWAY COMMISSION.

DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS.

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER, DATE

APPROVED

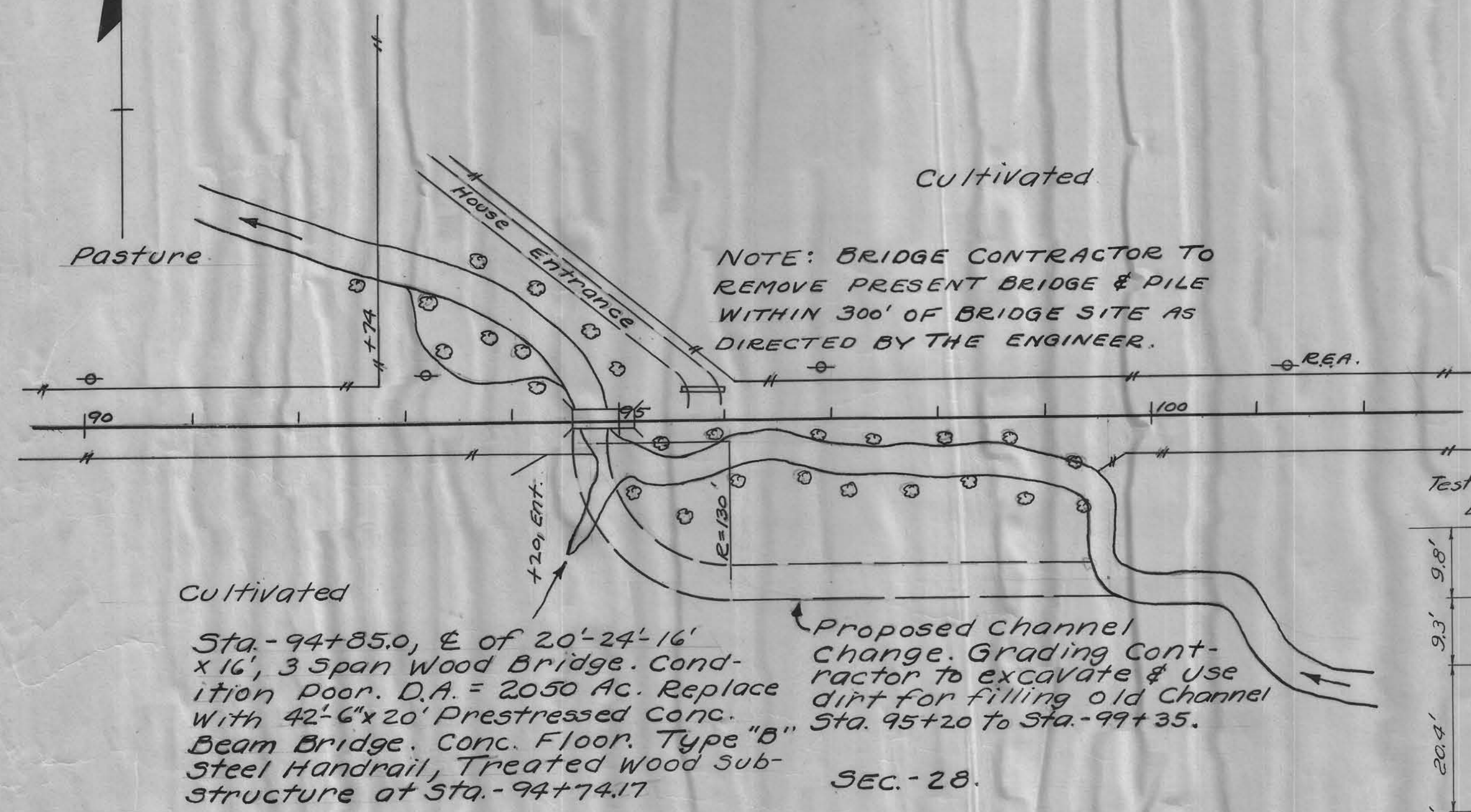
DIVISION ENGINEER, DATE

7-3-58

47 17 July 22/58  
 CRAWFORD COUNTY, Design No. 2458 PROJ. # DS-2780(1)  
 Sheet #1 of 2.

File # 19845

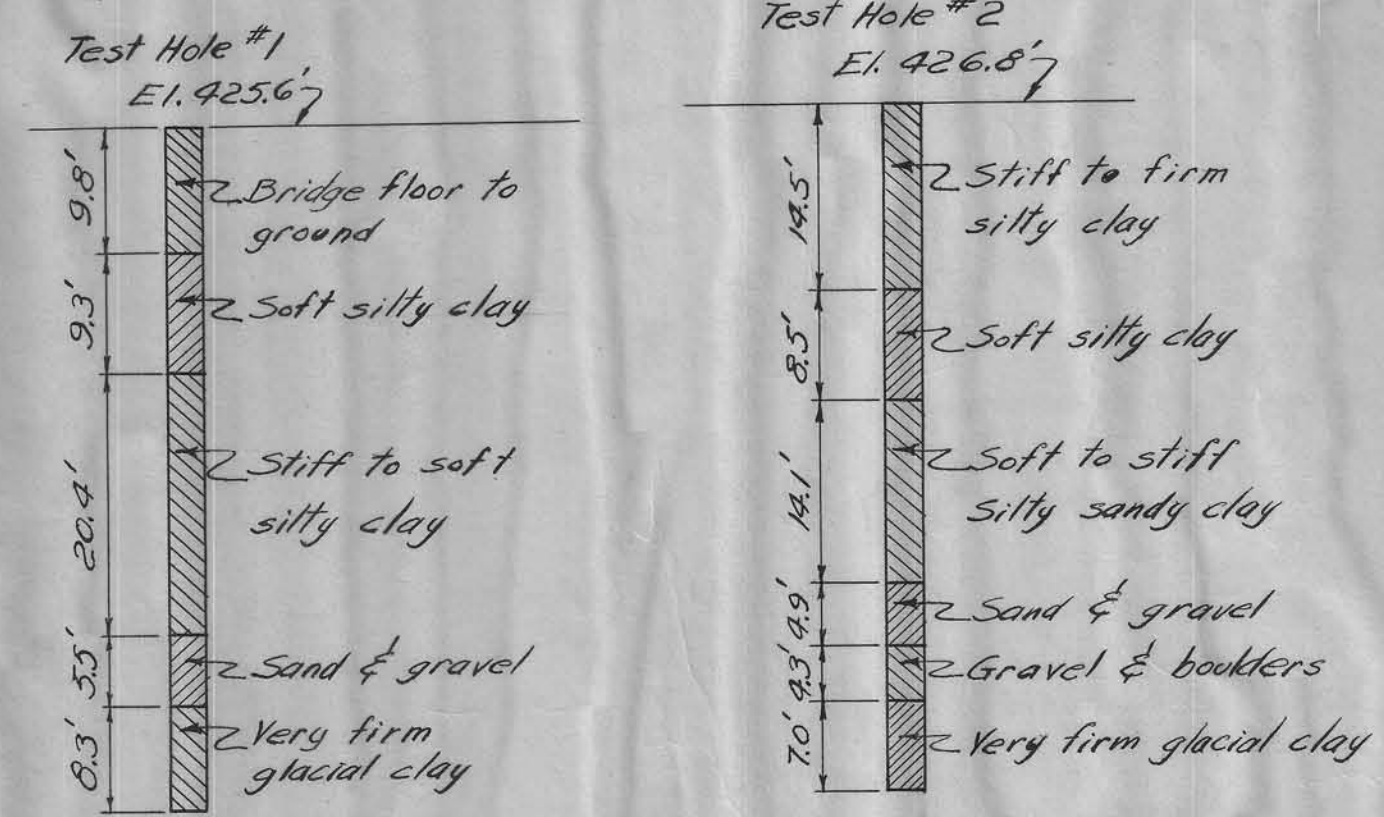
WILLOW TOWNSHIP  
T.83N. R.41W.  
SEC. - 21.



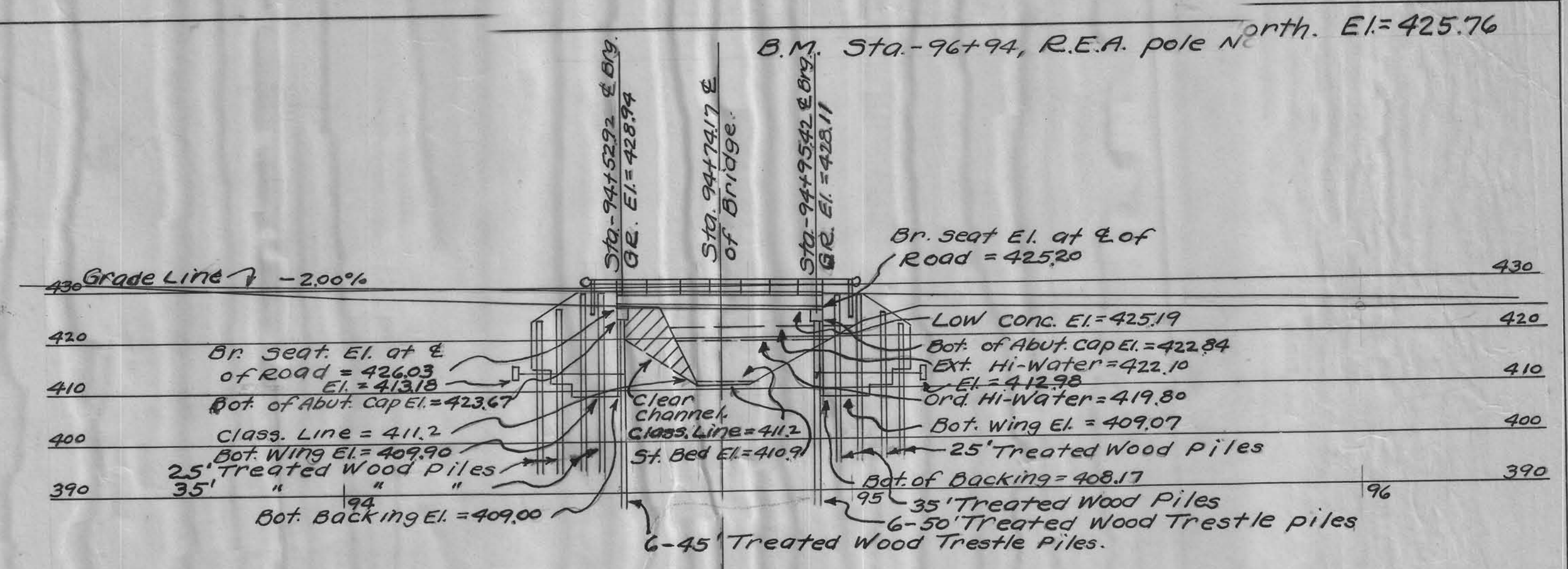
GENERAL PLAN  
SCALE 1" = 100 FT.

GENERAL NOTES:

All Lumber is to be creosoted. Backing & Wing plank in 10" & 12" widths may be substituted for 8" plank shown but payment will be made on basis of quantities shown. All piling are to be creosoted & are to comply with the Specifications for Treated Timber Trestle Piles. All hardware is to be galvanized. C.I. ogee or malleable Washers are to be used under all heads & nuts bearing on wood. All bolts to have square heads & nuts. For details of Super-structure refer to Iowa Highway Commission Standard H11-1. For details of Abutments refer to Standard H11-4 With Height of 18 feet. All materials & construction to conform with the Iowa Highway Commission Standard Specifications, Series of 1956. Steel bearing plates to be used under all beams.

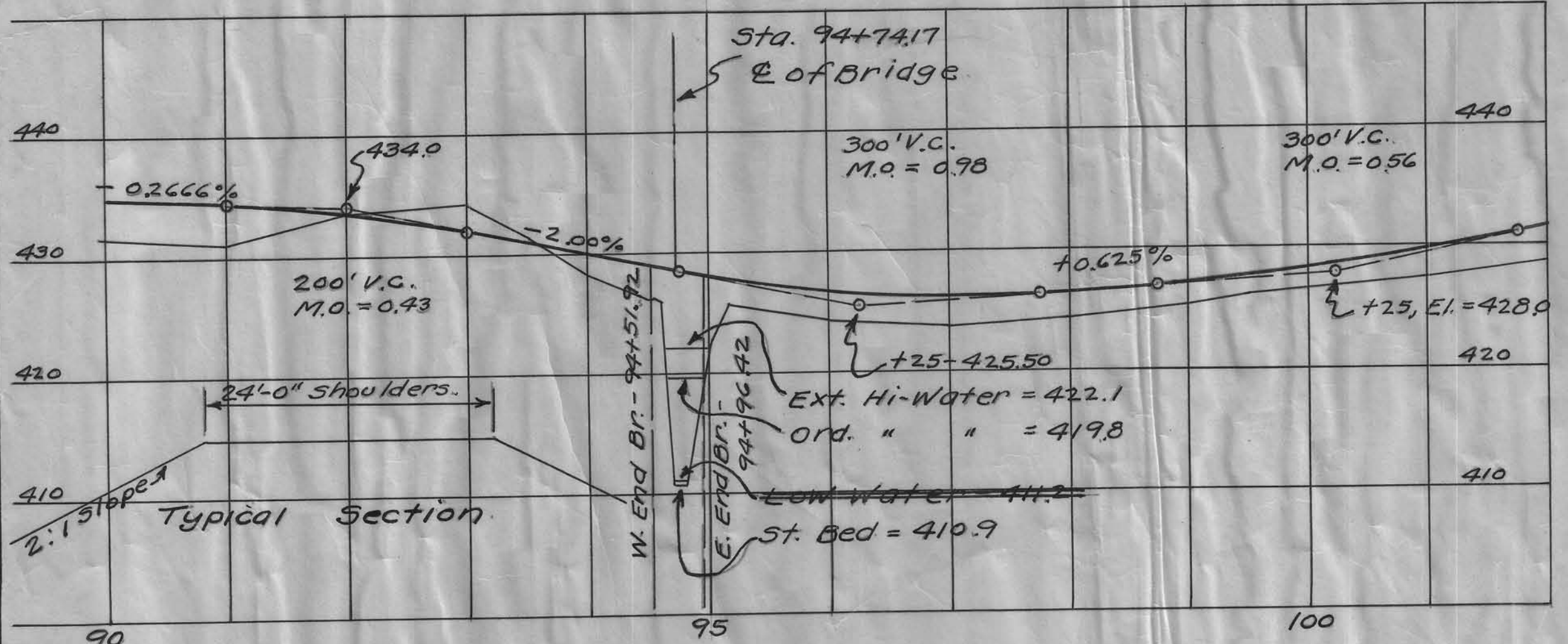
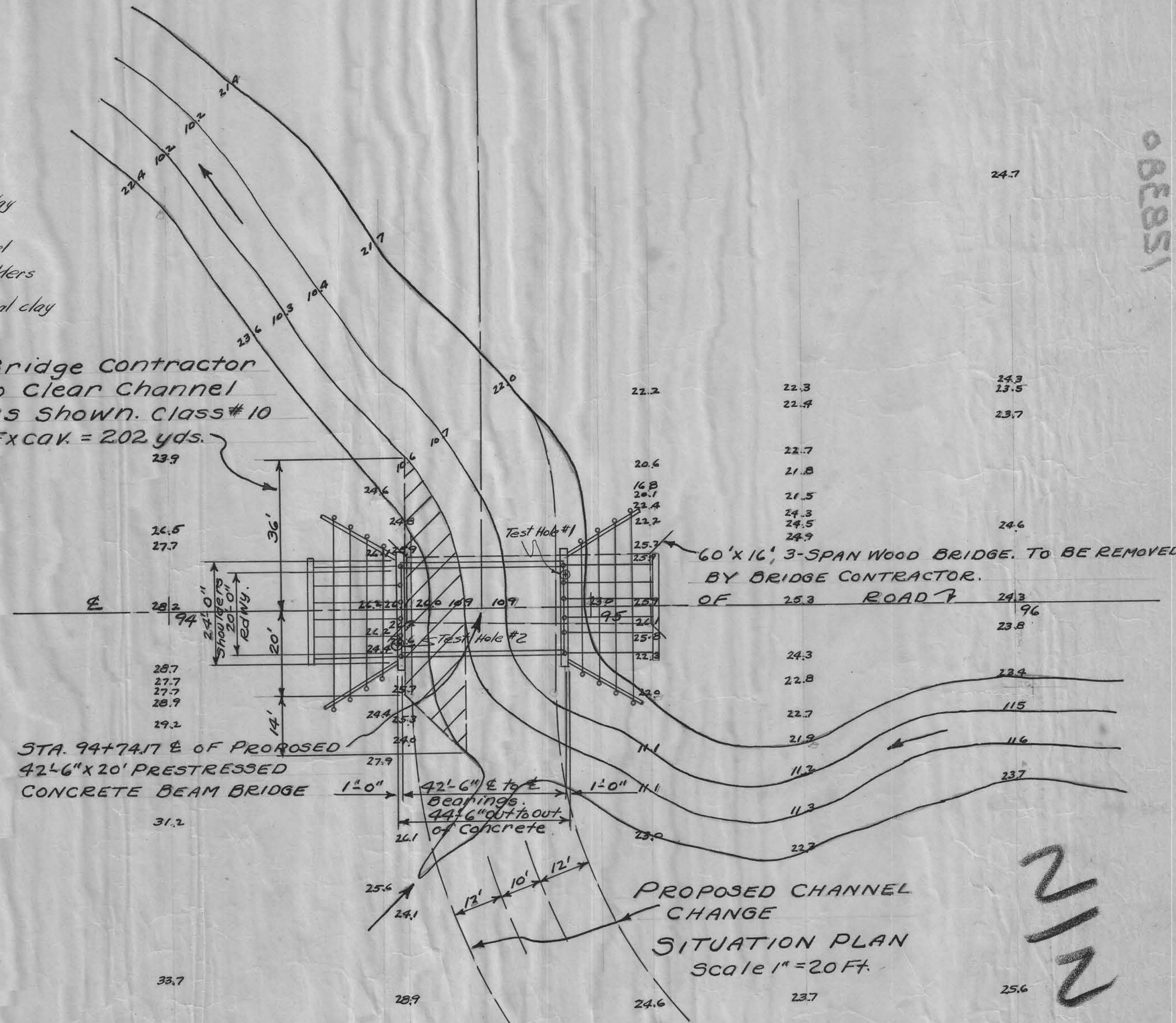


SOUNDING DATA  
5-21-1958



SECTION ALONG E OF ROADWAY  
Scale 1" = 20 Ft.

Bridge Contractor to Clear Channel as shown. Class # 10 Exca. = 202 yds.



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