

# INDEX OF SHEETS

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# COLORADO

## STATE HIGHWAY DEPARTMENT

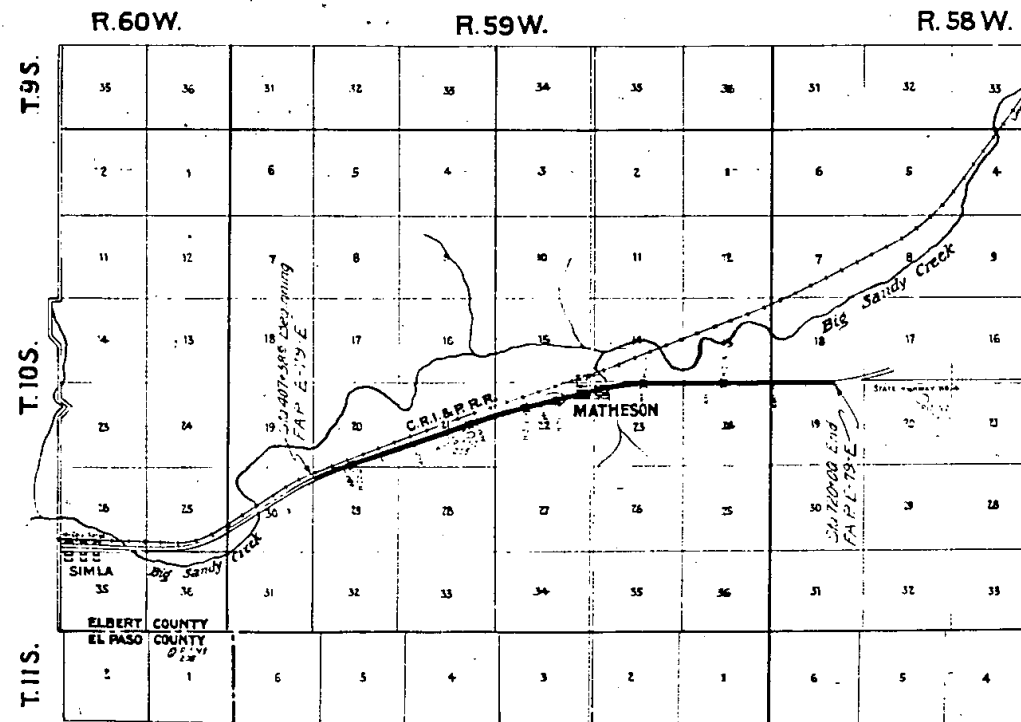
### PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO.E-79-E STATE HIGHWAY NO.4 ELBERT COUNTY

#### SCALES

ON PLAN, 1 IN. = 100 FT.  
ON PROFILE 1 IN. = 100 FT. HORIZONTAL  
1 IN. = 10 FT. VERTICAL  
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD  
GROSS LENGTH OF PROJECT 31,099.7 Ft. = 5.889 Mi.  
NET LENGTH OF PROJECT

#### CONVENTIONAL SIGNS

Center Line \_\_\_\_\_  
Section Lines \_\_\_\_\_  
Quarter Section Lines \_\_\_\_\_  
Right of Way Boundary \_\_\_\_\_  
Railroad Lines \_\_\_\_\_  
Telegraph and Telephone Poles \_\_\_\_\_  
Fences \_\_\_\_\_



SCALE, 1 INCH = 1 MILE

RECOMMENDED FOR APPROVAL 2/11/53

APPROVED  
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL  
DIST. ENG. BUREAU PUBLIC ROADS

RECOMMENDED FOR APPROVAL  
CHIEF ENG. BUREAU PUBLIC ROADS

APPROVED  
DIRECTOR BUREAU PUBLIC ROADS

| FED ROAD DIST. N.Y. | -1978 | FED AID PROJ. NO. | SHRST. NO. | STATE AID PROJECT |
|---------------------|-------|-------------------|------------|-------------------|
| 1                   | C210  | E-79-8            | 2          |                   |

Rev. 2-23-33 - RCL.  
 Rev. 3-2-33 - W.E.G.  
 Rev. 7-7-33 - W.E.G.  
 Rev. 3-11-33 A.O.M. Added Item #1104,  
 New 3-11-33 135A Added 12571 open Six in March  
 1933  
 Rev. 4-10-33 - W.E.G.  
 Rev. 4-26-33 - W.E.G.  
 Rev. 8-9-33 - H.S.D.

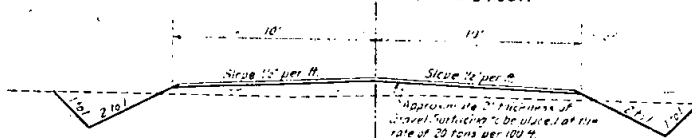
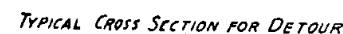


### FENCING REQUIREMENTS

### STRUCTURE LIST

| CONSTRUCTION DIVISION 190.1 |                                          |          |          |
|-----------------------------|------------------------------------------|----------|----------|
| No.                         | Item                                     | Unit     | Quantity |
| 11a                         | Clearing and Grubbing Entire Project     | Lump Sum |          |
| 11a                         | Removing 9 Culverts                      |          |          |
| 12a                         | Removing Fence                           | Lin Ft   | 322      |
| 13c                         | Unclassified Excavation                  | Cu Yd    | 13,200   |
| 14a                         | Dry Rock Excavation for Structures       |          |          |
| 14c                         | Common                                   |          |          |
| 14c                         | Wet Rock                                 |          |          |
| 14d                         | Common                                   |          |          |
| 18a                         | Station Yard Overhaul                    | Sta Yd   | 252      |
| 18b                         | Yard Mile Overhaul                       | Yd Mi.   | 12       |
| 36c                         | Gravel or Crushed Rock Surfacing         | Ton      | 228      |
| 46a                         | Class A Concrete                         | Cu Yd    |          |
| 47                          | Reinforcing Steel                        | Lb       | 190      |
| 53b                         | 18" Corrugated Metal Culvert Pipe        | Lin Ft   | 116      |
| 53c                         | 24"                                      |          | 12       |
| 53f                         | 42"                                      |          |          |
| 53h                         | 54"                                      |          |          |
| 75x                         | Galvanized Barbed Wire Fence, 12ft. Post | Lin. Ft  | 4660     |
| 75y                         | Gates in                                 | Ea       | 1        |
| 78                          | Project Marker                           | Ea       |          |
| 79                          | Right of Way Markers                     | Ea.      | 5        |
| 11b                         | Remove Building, Sta 568+                | Lump Sum |          |
| 95y                         | Driveway Gates                           | Each     | 1        |
| 95z                         | Walk Gates                               | Each     | 2        |
| 95x                         | Combination Wire Fence (Wet. Posts)      | Lin. Ft. | 4600     |

| Location | Description                                  | Reinforcing Steel | Excavation Cu Yd | Struct Exc. Cu Yd | Concrete Cu Yd | Reinf Steel Lbs | Corrugated Metal Pipe Lin Ft |     |     |     |     | Sider Fence | P&H Snow Fence Lin Ft |   |          |
|----------|----------------------------------------------|-------------------|------------------|-------------------|----------------|-----------------|------------------------------|-----|-----|-----|-----|-------------|-----------------------|---|----------|
|          |                                              |                   |                  |                   |                |                 | 18"                          | 24" | 30" | 42" | 54" |             |                       |   |          |
| 417+58   | Project Marker and Approaches                |                   | 300              |                   |                |                 |                              |     |     |     |     |             |                       |   | 10 MRP   |
| 417+45   | C.M.P. Side Drain, Road Appr. Gate Rt.       |                   | 150              | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 459+00   | C.M.P. Side Drain & Rd Appr on Left          |                   | 200              | 5                 |                |                 | 40                           |     |     |     |     |             |                       |   |          |
| 447+31   | Remove Culvert                               |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 438+00   | C.M.P. Culvert and Ditch                     |                   | 20               | 30                |                |                 |                              |     |     |     | 78  |             |                       |   |          |
| 451+10   | Approach and Gate. Remove Side Dr.           |                   | 50               |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 461+17   | C.M.P. Side Drain and Appr. Rem Culv         |                   | 150              | 5                 |                |                 | 32                           |     |     |     |     |             |                       |   |          |
| 465+60   | C.M.P. Side Drain, Rd Appr & Gate Rt.        |                   | 50               | 5                 |                |                 | 32                           |     |     |     |     |             |                       |   |          |
| 472+92   | Remove Culvert                               |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 490+57   |                                              |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 560+00   | 2-18"x40" Side Drs., Rd Apprs & Gates R&L    |                   | 500              | 5                 |                |                 | 80                           |     |     |     |     |             |                       |   |          |
| 526+80   | 2 Side Drs 40 RT & 32 L, Rd Apprs, Gates R&L |                   | 200              | 5                 |                |                 | 72                           |     |     |     |     |             |                       |   |          |
| 544+50   | " " " "                                      |                   | 100              | 10                |                |                 | 72                           |     |     |     |     |             |                       |   |          |
| 556+00   | " " " "                                      |                   | 200              | 5                 |                |                 | 72                           |     |     |     |     |             |                       |   |          |
| 564+10   | C.M.P. Side Drains and Approaches            |                   | 200              | 5                 |                |                 | 80                           |     |     |     |     |             |                       |   |          |
| 567+80   | Road Approaches                              |                   | 50               |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 571+44   | 2 C.M.P. Side Drains and Approaches          |                   | 200              | 5                 |                |                 | 80                           |     |     |     |     |             |                       |   |          |
| 575+00   | 3"x1'x42" Conc Ex. Culv. & Ditches           |                   | 20               | 15                | 190            | 1825            |                              |     |     |     |     |             |                       |   |          |
| 577+80   | C.M.P. Side Drain, Appr. Wn, Gate L          |                   | 250              | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 579+10   | " " " " L                                    |                   | 200              | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 588+90   | " Culvert and ditches                        |                   | 10               | 10                |                |                 |                              | 58  |     |     |     |             |                       |   |          |
| 595+00   | C.M.P. Culvert and ditches                   |                   | 10               | 10                |                |                 |                              | 70  |     |     |     |             |                       |   |          |
| 570+00   | Side Dr & Rd Appr Lt, Driveway Gates R&L     |                   | 50               | 5                 |                |                 | 30                           |     |     |     |     |             |                       |   |          |
| 598+50   | " " " " Left                                 |                   | 50               | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 625+35   | C.M.P. Side Drain and Approach               |                   | 100              |                   |                |                 | 36                           |     |     |     |     |             |                       |   |          |
| 631+00   | " " " " RA Appr & Gate Rt.                   |                   | 80               | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 632+75   | C.M.P. Side Drain, Rd Appr & Gate Left       |                   | 50               | 5                 |                |                 | 34                           |     |     |     |     |             |                       |   |          |
| 643+50   | C.M.P. Culvert, Ditches & Rem Struct.        |                   | 10               | 10                |                |                 |                              |     |     |     | 72  |             |                       |   |          |
| 647+97   | C.M.P. Side Dr, Appr, Gate? Rimerail         |                   | 80               | 5                 |                |                 | 32                           |     |     |     |     |             |                       |   |          |
| 659+00   | " " " " "                                    |                   | 100              | 5                 |                |                 | 40                           |     |     |     |     |             |                       |   |          |
| 661+30   | " " " " "                                    |                   | 30               | 5                 |                |                 | 30                           |     |     |     |     |             |                       |   |          |
| 662+25   | Gate, Walk                                   |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 662+70   | C.M.P. Side Drain, Approach, Gate            |                   | 50               | 5                 |                |                 | 32                           |     |     |     |     |             |                       |   |          |
| 663+20   | Gate, Walk                                   |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 676+76   | 2 Side Drs (32 Rt & 60 Lt), Rd Apprs 3 Gates |                   | 200              | 10                |                |                 | 92                           |     |     |     |     |             |                       |   |          |
| 674+19   | C.M.P. Culvert, Ditches & Rem Struct.        |                   | 20               | 20                |                |                 |                              |     |     |     |     |             |                       |   |          |
| 694+20   | C.M.P. Side Dr, Rd Appr & Gate               |                   | 50               | 5                 |                |                 | 36                           |     |     |     |     |             |                       |   |          |
| 702+18   | C.M.P. Culvert, Ditches & Rem Struct.        |                   | 10               | 15                |                |                 |                              |     |     |     | 70  |             |                       |   |          |
| 603+15   | C.M.P. Side Dr, Rd Appr & Gate Rt.           |                   | 50               | 5                 |                |                 | 40                           |     |     |     |     |             |                       |   |          |
| 568+35   | Remove building Sta 568+75                   |                   |                  |                   |                |                 |                              |     |     |     |     |             |                       |   |          |
| 652+15   | C.M.P. Side Dr, Rd Appr & Gate Rt.           |                   | 200              | 5                 |                |                 | 36                           |     |     |     |     |             |                       |   | 1 Remove |
| Totals   | Construction Division No. 1                  | 9                 | 400              | 3760              | 240            | 13.5            | 1885                         | 166 | 128 |     | 70  | 214         | 13                    | 2 | 15       |



Between Sta 407+584 & Sta. 510 and between Sta 596 and Sta 720, a temporary roadway to detour traffic shall be constructed approximately parallel to the project and in accordance with Typical Cross Section for Detour.

The following is estimate of quantities involved:

|                         |              |
|-------------------------|--------------|
| Unclassified Excavation | 2900 Cu Yds. |
| Gravel Surfacing        | 4660 Tons    |

R.O.W. MARKERS

| Sta     | Side    | No. |
|---------|---------|-----|
| 407-586 | P and L | 2   |
| 410-583 | R       | 2   |
| 420-229 | R       | 2   |
| 421-70  | R       | 1   |
| 442-00  | R       | 2   |
| 447-39  | R       | 2   |
| 448-20  | P and L | 2   |
| 470-00  | R       | 2   |
| 475-60  | R       | 2   |
| 482-00  | R       | 2   |
| 506-00  | P       | 2   |
| 517-71C | P and L | 2   |
| 526-00  | L       | 1   |
| 521-021 | R       | 2   |
| 531-30  | P       | 2   |
| 556-60  | P and L | 2   |
| 564-00  |         | 2   |
| 573-50  |         | 2   |
| 585-00  | R       | 2   |
| 598-42  | P and L | 3   |
| 621-00  | L       | 2   |
| 630-00  | L       | 2   |
| 635-00  | P and L | 2   |
| 652-00  |         | 2   |
| 678-75  |         | 2   |
| 706-40  |         | 2   |
| 712-00  | R       | 2   |
| 720-00  | P and L | 2   |
| Total   |         | 59  |

**SUMMARY OF APPROXIMATE QUANTITIES**  
**CONSTRUCTION DIVISION No. 2**

| No. | Item                                             | Unit     | Quantity |
|-----|--------------------------------------------------|----------|----------|
|     | Sta 428 to 430; 3 Spans @ 23' Timber Bridge      |          |          |
|     | Sta 492 to 455; 2                                |          |          |
|     | Sta 529 to 531; 2                                |          |          |
|     | Sta 555 to 557; 2                                |          |          |
|     | Sta 605 to 607; 1                                |          |          |
|     | 5's 656 to 658; Double 10's to 44' Core Box Cul. |          |          |
| 10a | Clearing and Grubbing Entire Project             | Lump Sum | .        |
| 11a | Removing Culverts Sta. 428 & 433+                |          |          |
| 13c | Unclassified Excavation                          | Cu Yd.   | 12,000   |
| 14a | Dry Rock Excavation for Structures.              |          |          |
| 14b | Common                                           |          | 340      |
| 14c | Wet Rock                                         |          |          |
| 14d | Common                                           |          | 85       |
| 18a | Station Yard Overhaul.                           | Sta Yd   | 48,000   |
| 18b | Yard Mile Overhaul.                              | Yd Mi.   | 100      |
| 30a | Gravel or Crushed Rock Surfacing                 | Ton      | 660      |
| 32a | Untreated Bridge Timber.                         | Sq. Ft.  | 5.3      |
| 42b | Treated                                          |          | 127.8    |
| 43x | Asphalt Plank Wearing Surface.                   | Sq. Ft.  | 740      |
| 60a | Treated Timber Piling.                           | Lin. Ft. | 3720     |
| 60c | Metal Pile Shoes.                                | Each     | 186      |
| 72  | Wire Cable Guard Fence.                          | Lin. Ft. | 1000     |
| 84  | Removal of Disused Bridges Sta 606 to 656+       | Lump Sum |          |
| 90  | Drain Pipes and Flange.                          | Each     | 22       |
| 101 | Service pipes to facilitate pile driving         | Lin. Ft. | 1800     |
| 46a | Class "A" Concrete.                              | Cu Yd.   | 202      |
| 47  | Reinforcing Steel                                | Lb.      | 21,200   |

Structural Excavation is estimated to be 90% Common and 10% Rock, each of which is estimated to be 50% Dry and 50% Wet.

Revised 3-11-33. A.G.K. Added Item 101.  
Revised 3-27-33 A.G.K. Added 1-237 Span 37r H-21-E.  
Revised 4-5-33 W.W.D. Changed 51r. 10-21-A

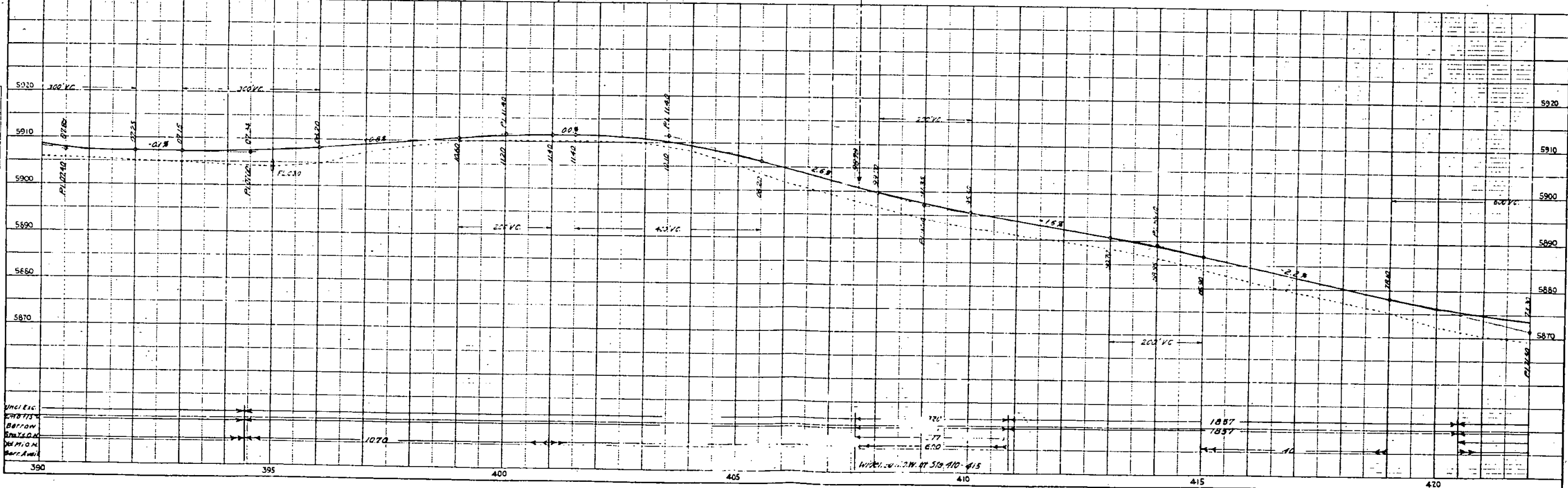
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 2                   | GA    | 579F-2             | 2         |              |

## SUMMARY OF QUANTITIES FOR BRIDGES

The logo of the Colorado State Highway Department is at the top left, featuring a mountain peak and the text "COLORADO STATE HIGHWAY DEPARTMENT". Below the logo is a title block with the text "STRUCTURE NOTES AND SUMMARY OF QUANTITIES" and "ACROSS VARIOUS WATERCOURSES". At the bottom left of the title block is a table with two columns: "Made by" and "Checked by". The "Made by" column contains the name "A. H. A. H." and the "Checked by" column is empty. To the right of the title block is a signature "Approved by: [Signature]" and the text "Bridge Engineer". Below the signature is the date "Date: March 1, 1933".

Rev 3-2-33 H.S.K.  
Rev 3-2-33 H.S.D.

\_\_\_\_\_



| FED. ROAD DIST. NO. | STATE    | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|----------|--------------------|-----------|--------------|
| 1                   | COLORADO | E-73-E             | 14        |              |

Rev. 3-2-33 - W.E.G.

SW 1/4 SEC 20 T. 10S. R. 59W.

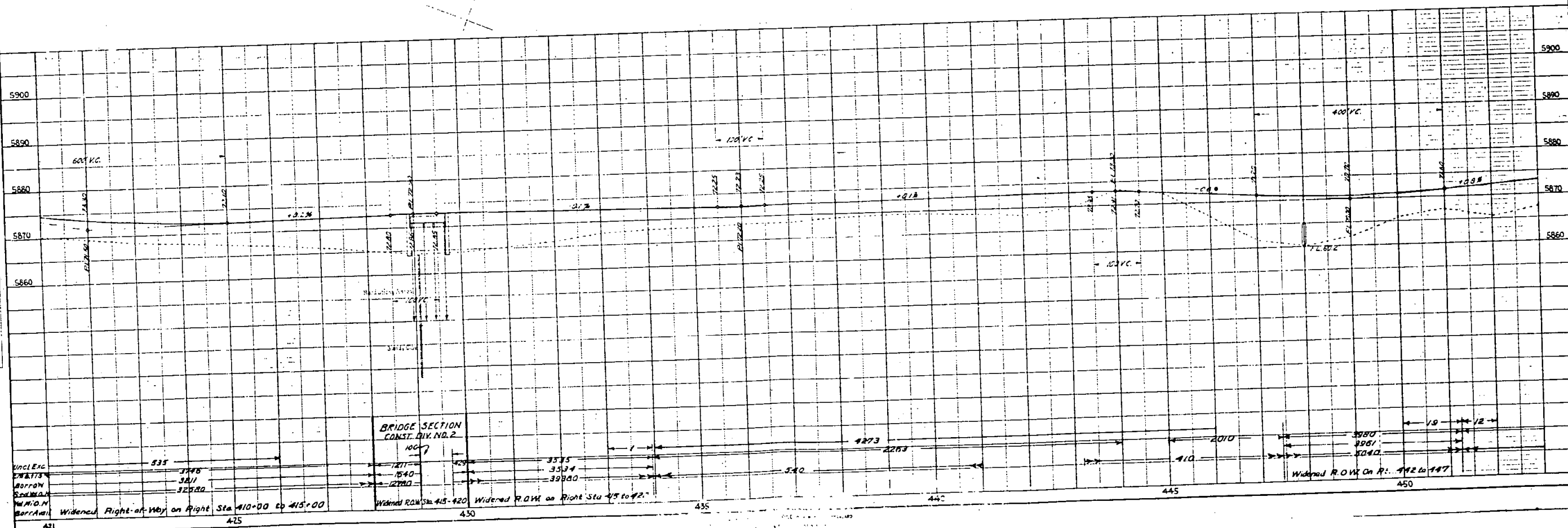
Sta 428+00 - 430+00 Bridge  
& Approaches to be Constructed  
Under Const. Div. No. 2  
Also req'd to remove Culvert

447+31. Remove Culvert  
448+00. Road 54+78' CHMP  
Culvert and 20 Cu Yds Etc.  
for ditch

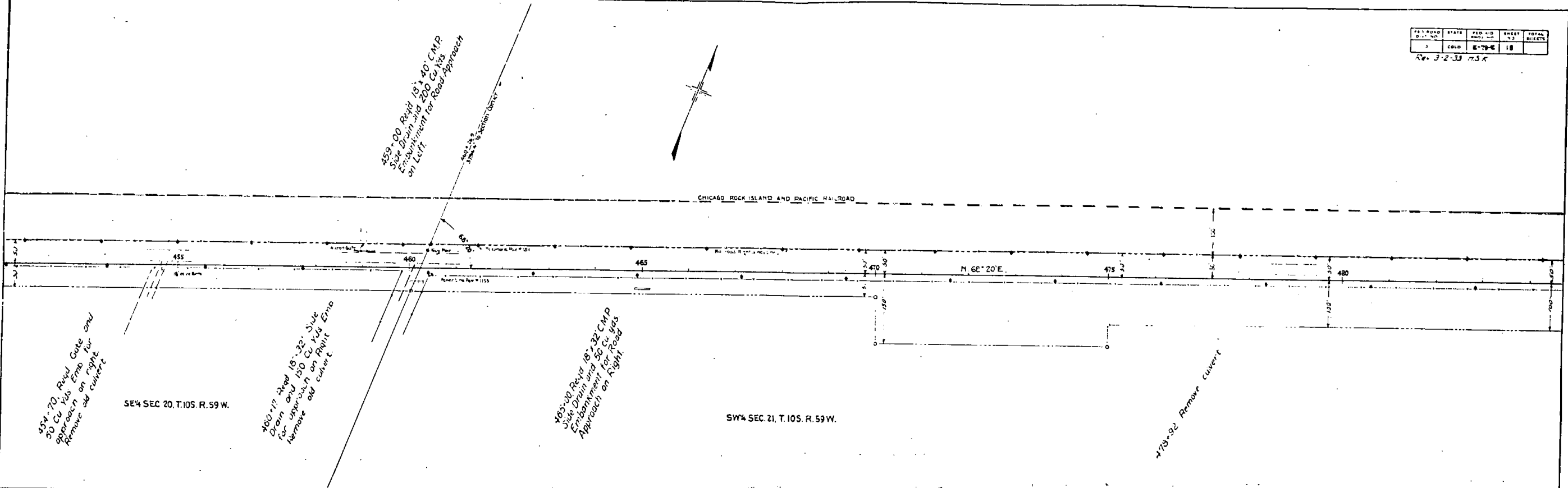
CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD

SE 1/4 SEC 20, T. 10S. R. 59W.

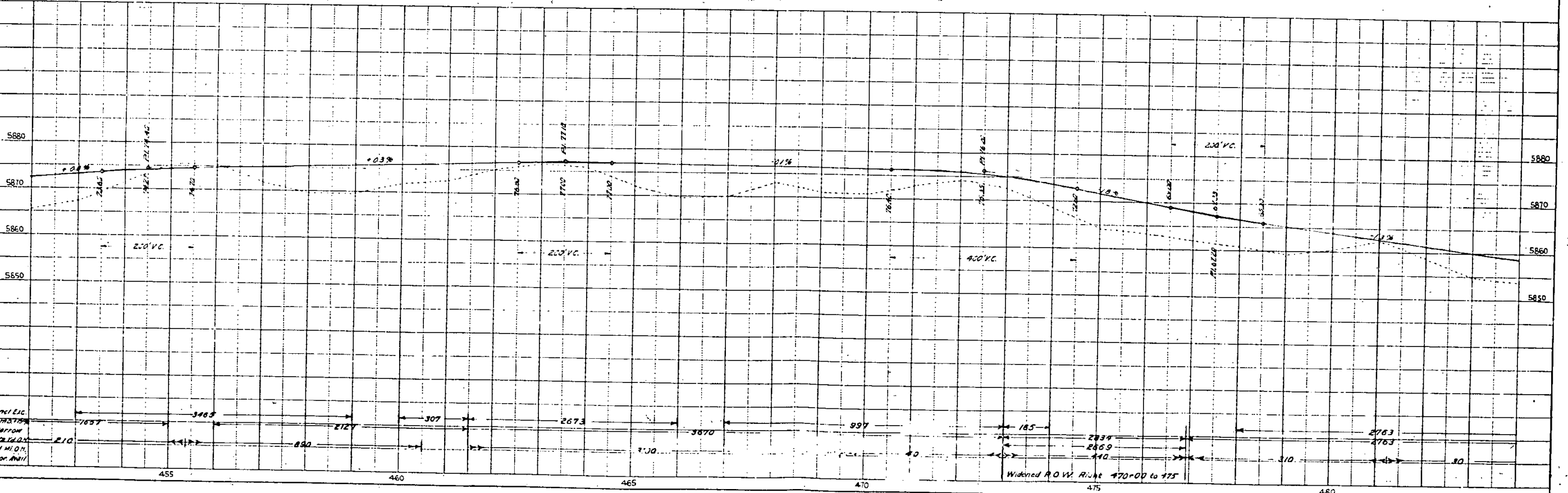
CONST. DIV. NO. 2  
428+97.5 to 429+68 Reg'd 3 Spans  
@ 23' Treated Timber Pile Trestle as  
per details on Sheet No. 4. Also Reg'd  
4-50' lengths of Guard Fence and 100 Cu  
Yds Excavation for Channel. Material to  
be used in roadway fill and included in  
profile quantities.



| DATE | BY | CHKD. |
|------|----|-------|
|      |    |       |
|      |    |       |
|      |    |       |



| DATE | BY | CHKD. |
|------|----|-------|
|      |    |       |
|      |    |       |
|      |    |       |



NW¼ SEC. 21, T. 10S. R. 59W.

NE¼ SEC. 21, T. 10S. R. 59W.

490+52. Remove Culvert.  
Sta 492+00 to 495+00 Bridge  
& Approaches to be Constructed  
under Const. Div. No. 2

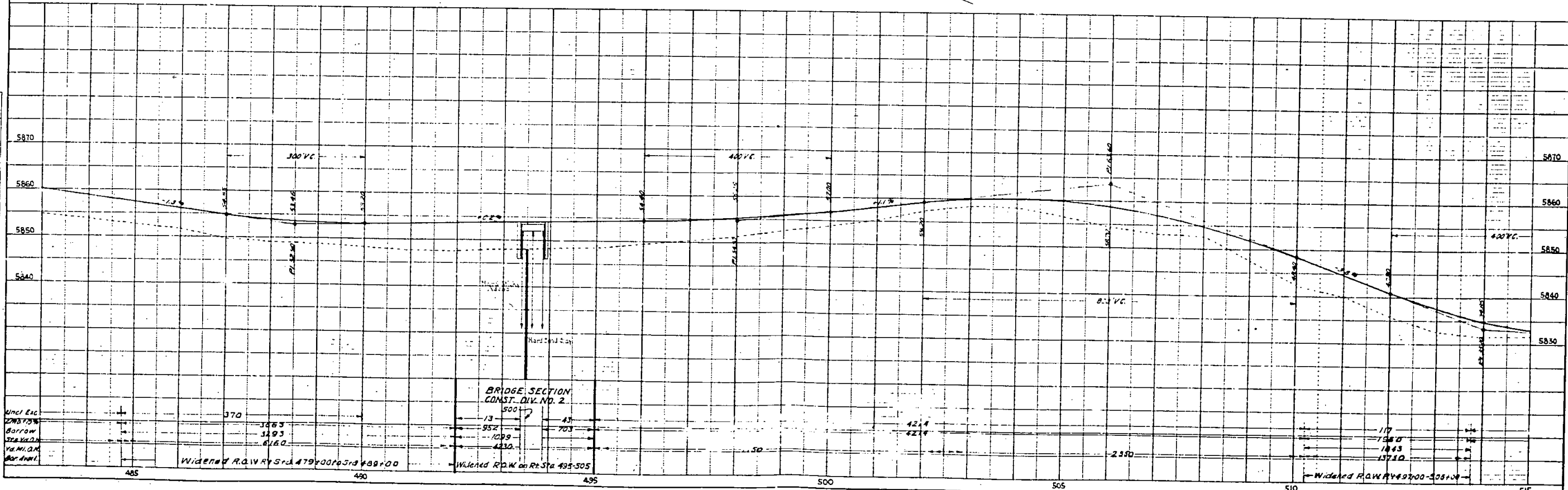
CHICAGO ROCK ISLAND AND PACIFIC RAILROAD

CONST. DIV. NO. 2  
493+39.3 to 493+87 Reg'd 2 Spans @ 23'  
Treated Timber Pile Trestle as per details on  
Sheet No. 5. Also Reg'd 4-50' lengths of  
Guard Fence, and 500 Cords. Excavation for  
Channel. Material to be used in roadway fill,  
and included in profile quantities. Also Reg'd.  
remove C.M.P. Culvert.

Δ = 9°19'30"R  
D = 1'00"  
R = 5730'  
T = 467.3'  
L = 932.5'

SW¼ SEC. 21, T. 10S. R. 59W.

SE¼ SEC. 21, T. 10S. R. 59W.

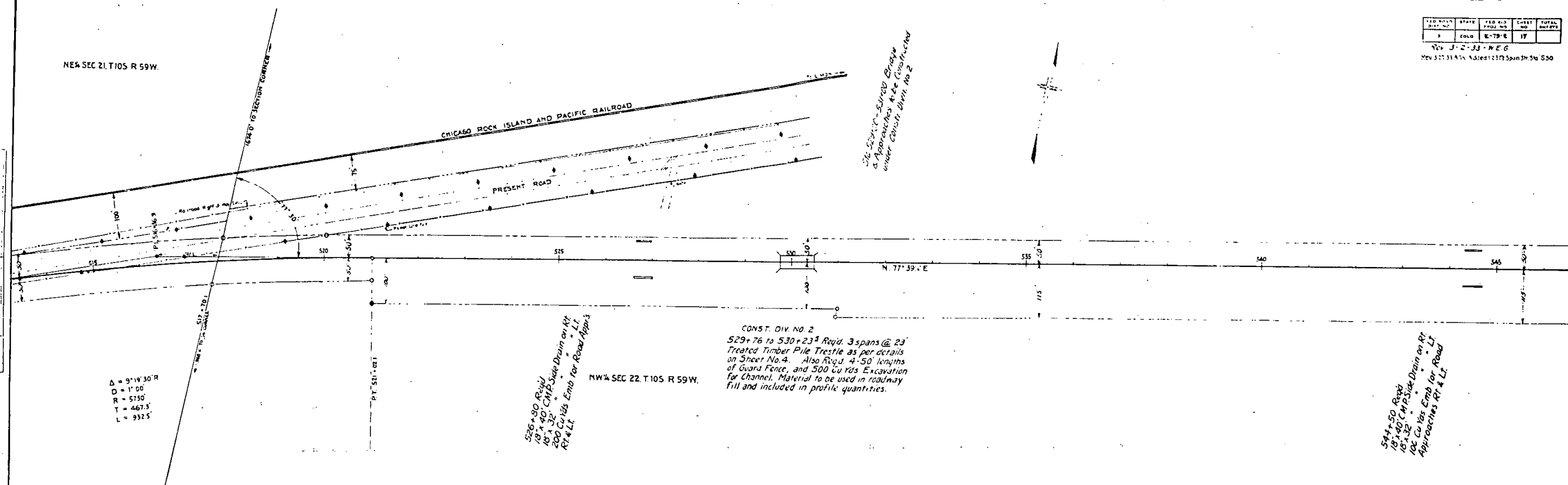


|                  |          |                 |          |              |
|------------------|----------|-----------------|----------|--------------|
| FED ROAD DIST NO | STATE    | FED AID PROJ NO | SHEET NO | TOTAL SHEETS |
| 3                | COLORADO | EA-79-2         | 17       |              |

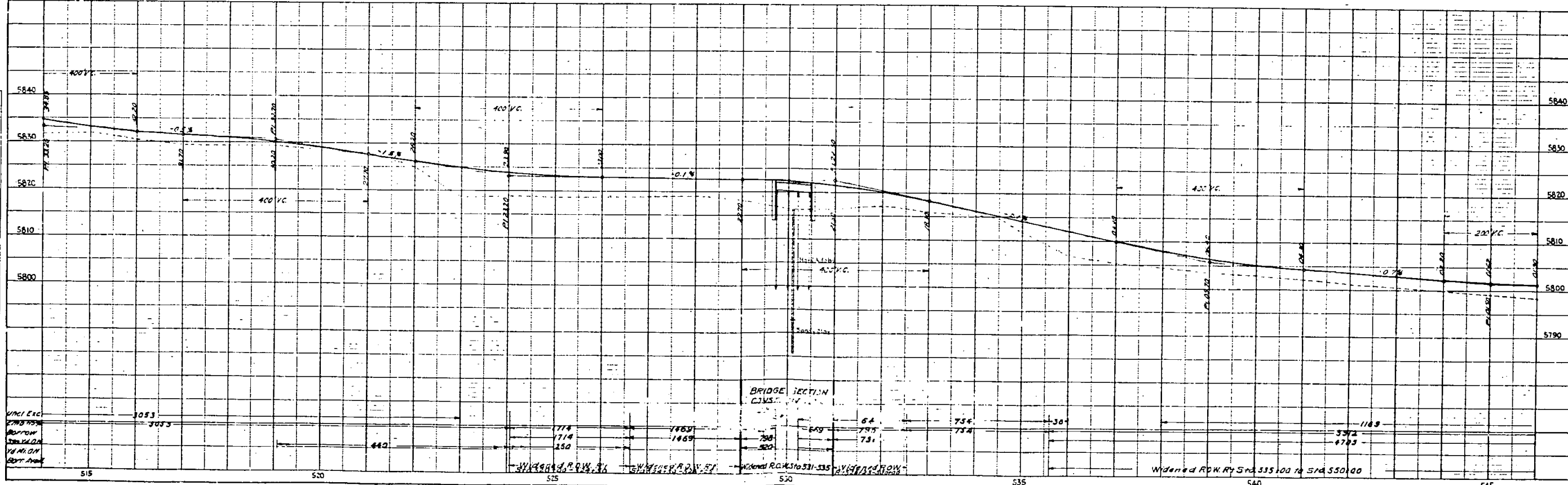
Rev J. 2-33-WE.G.  
Rev 3-27-33 A75 Added 12375 Spm 37.5m 530

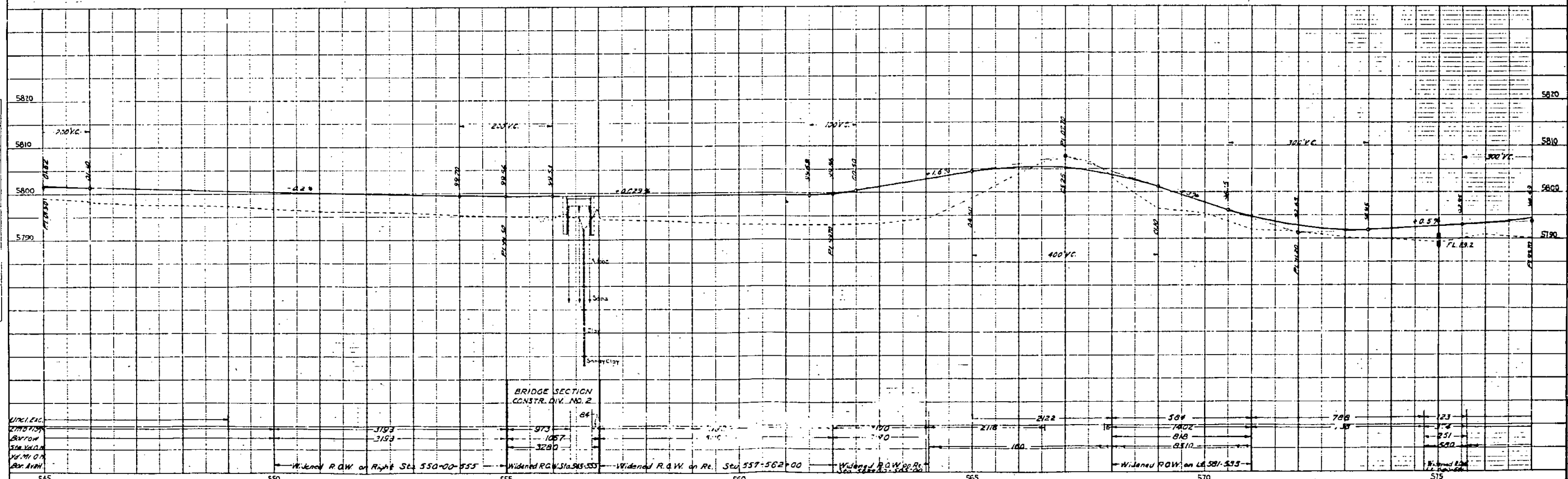
NE 1/4 SEC. 21, T10S R 59W

|           |                   |    |      |
|-----------|-------------------|----|------|
| PLAN      | SUPPLIES          | BY | DATE |
| NOTE BOOK | P.O. I.D.         |    |      |
| NO        | ALCOHOL CHICAGO   |    |      |
|           | RE IT MAY CHICAGO |    |      |



| PROFILE                | RE | DATE |
|------------------------|----|------|
| COATED                 |    |      |
| P. COATED              |    |      |
| COATED CHICKEN         |    |      |
| B. M. COATED           |    |      |
| STRUCTURE NOT RECORDED |    |      |

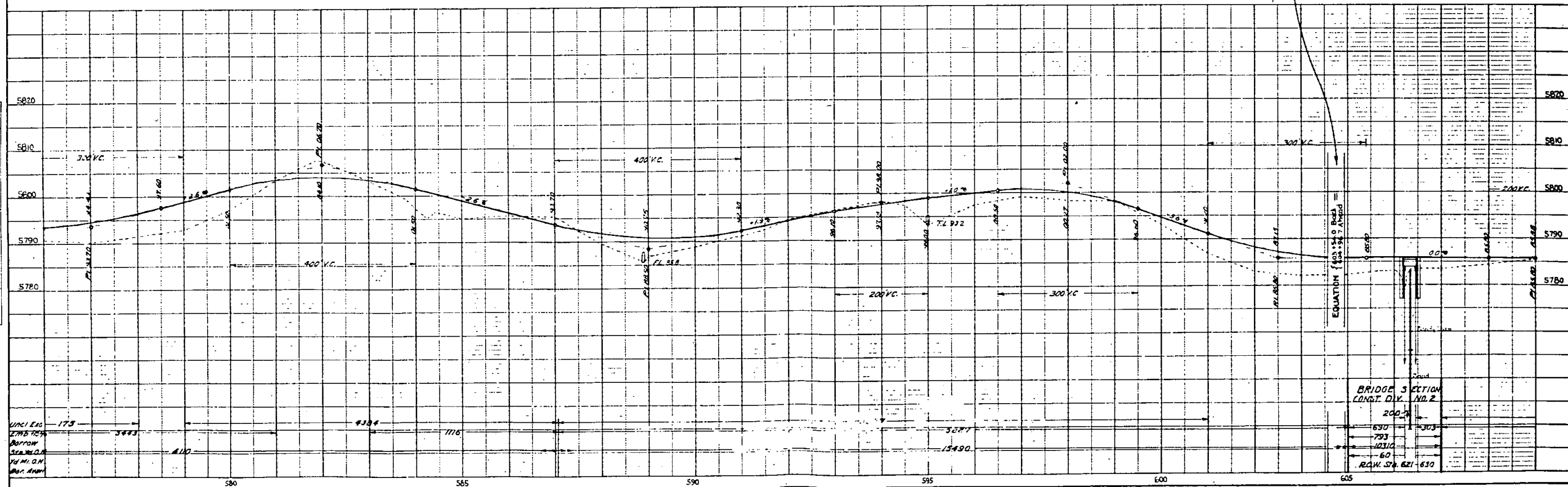
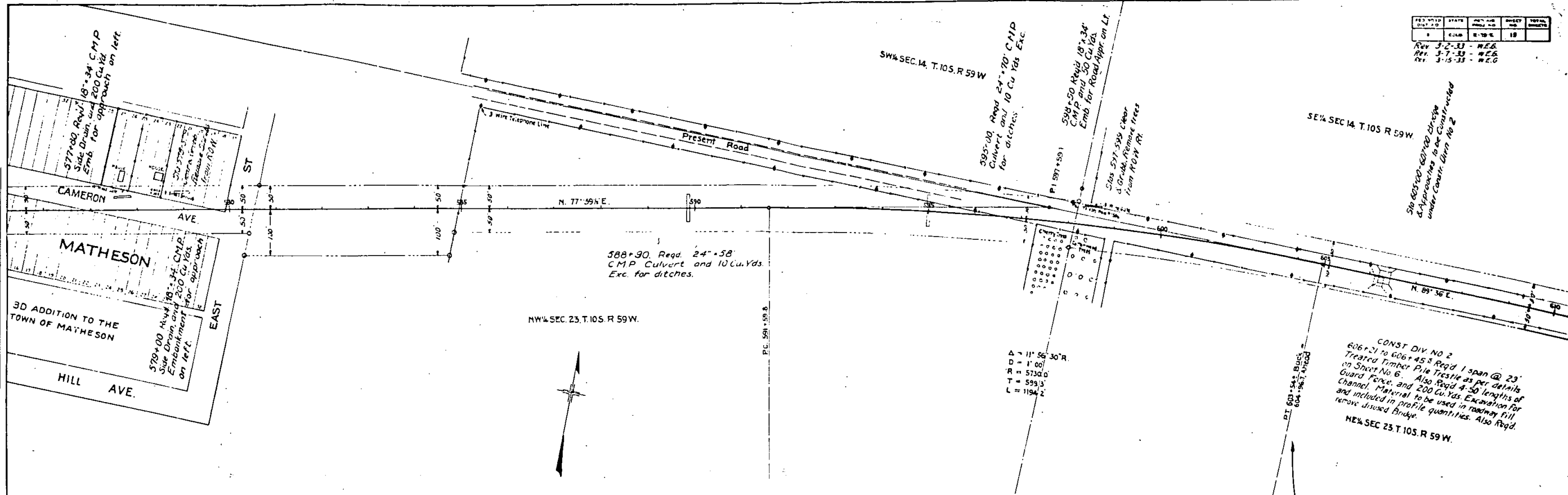




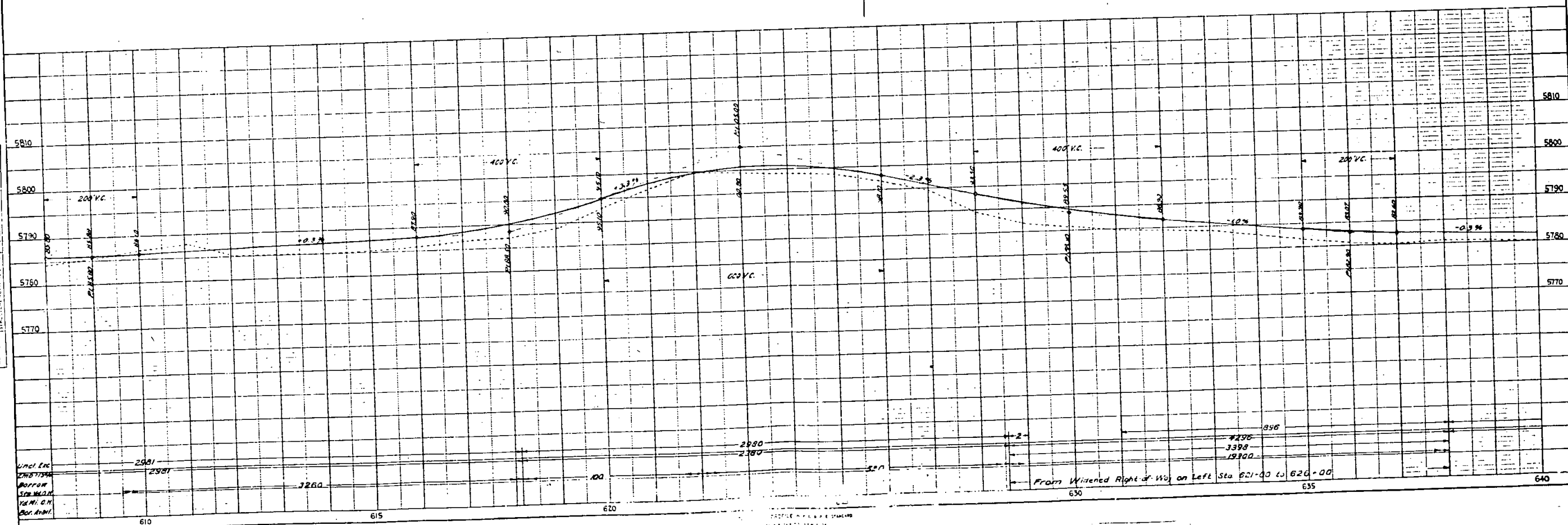
PLAN  
NOTE BOOK  
DATE  
BY

PROFILE  
NOTE HIGH  
NO.  
DATE  
BY

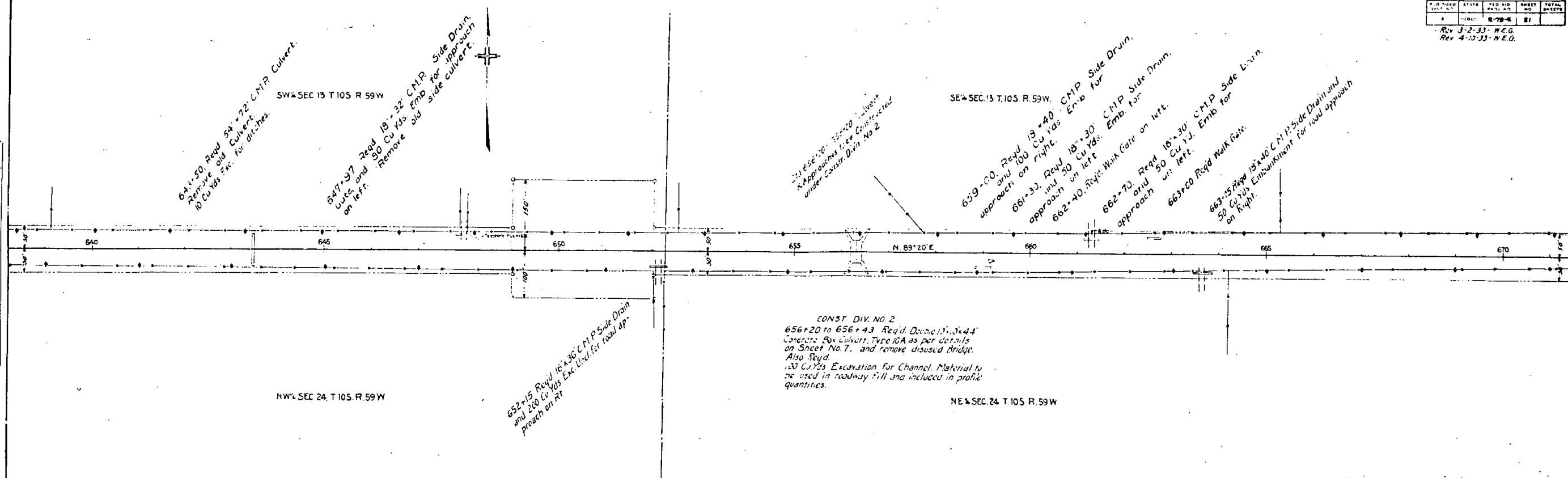
| REV. | DATE    | BY     | CHKD. | APP'D. |
|------|---------|--------|-------|--------|
| 1    | 3-2-33  | W.E.B. |       |        |
| 2    | 3-7-33  | W.E.B. |       |        |
| 3    | 3-15-33 | W.E.B. |       |        |



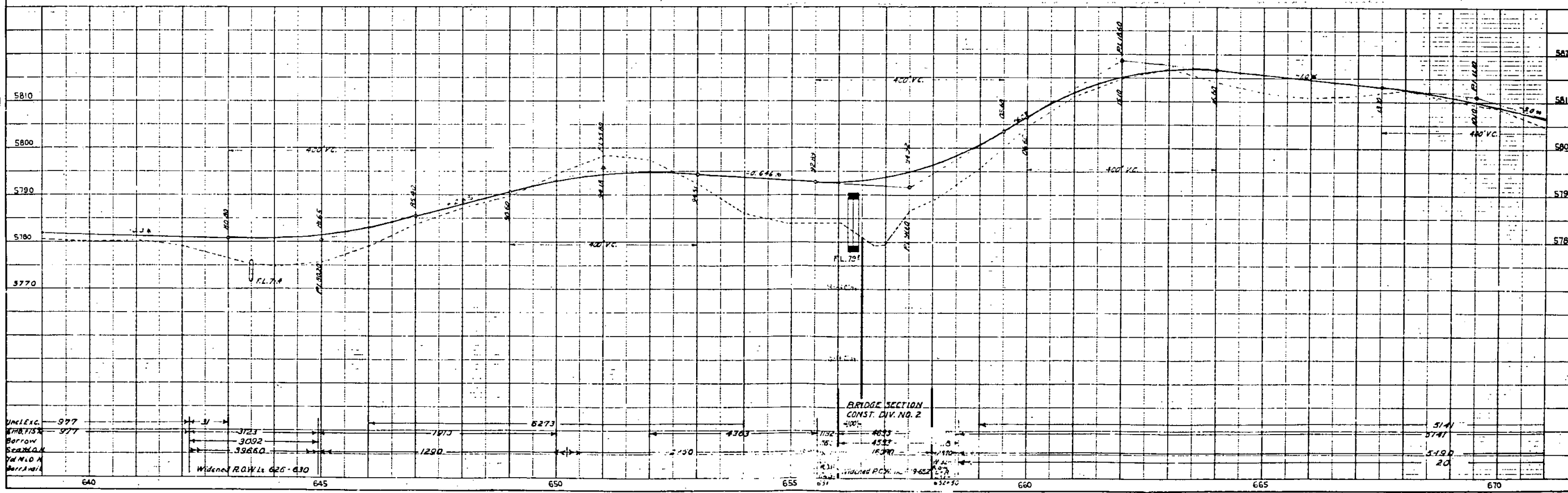
Rev 3-2-33 M.E.6



PLAN  
BY  
DATE  
REVISIONS  
NOTE BOOK  
BY  
DATE



PROFILE  
BY  
DATE  
REVISIONS  
NOTE BOOK  
BY  
DATE

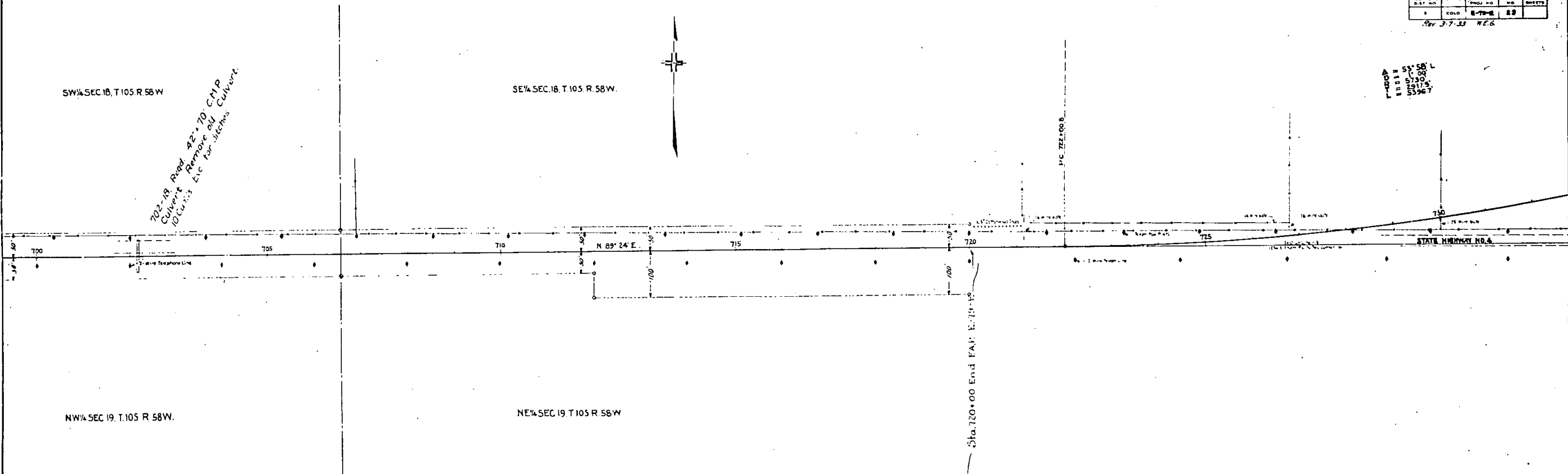




| FED ROAD DIST NO  | STATE | FED AID PROJ NO | SHEET NO | TOTAL SHEETS |
|-------------------|-------|-----------------|----------|--------------|
| 1                 | COLD  | 8-79-2          | 22       |              |
| Rev 3-7-33 W.E.G. |       |                 |          |              |

5555.58  
 1111.11  
 5555.58  
 1111.11  
 5555.58  
 1111.11

| PLAN                                                      | DATE |
|-----------------------------------------------------------|------|
| SCHEDULE<br>PROFILE<br>NOTE: ROAD RE. OF MAIN LANE<br>NO. |      |



| PROFILE                                                   | DATE |
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| SCHEDULE<br>PROFILE<br>NOTE: ROAD RE. OF MAIN LANE<br>NO. |      |

