

# COLORADO

## STATE HIGHWAY DEPARTMENT

### PLAN AND PROFILE OF PROPOSED

### U. S. P. W. H. PROJECT NO. N. R. H. 79-F (1935)

### STATE HIGHWAY NO. 4

### ELBERT COUNTY

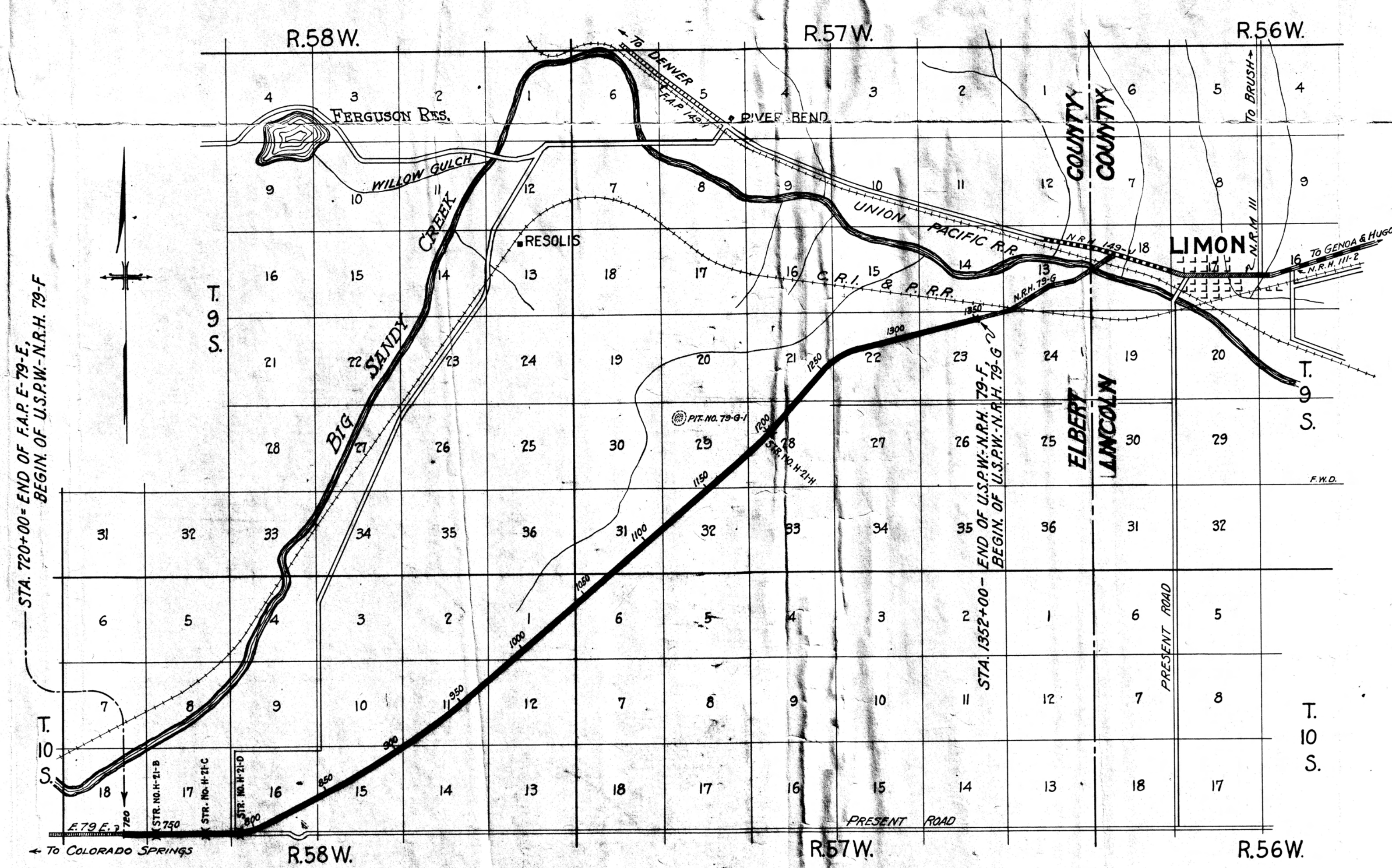
#### INDEX OF SHEETS

|        |                                           |         |
|--------|-------------------------------------------|---------|
| 1.     | TITLE SHEET                               |         |
| 2.     | TYPICAL SECTION & SUMMARY OF QUANTITIES   | P-117-A |
| 3.     | DETAILS OF BRIDGE, STA. 739+              | M-110-B |
| 4.     | STANDARD DBLE. CONC. BOX CULVERTS         | P-117-A |
| 5.     | DETAILS OF BRIDGE, STA. 124+              | M-103-D |
| 6.     | STANDARD CONCRETE BOX CULVERTS            | M-104-D |
| 7.     | STANDARD CONCRETE BOX CULVERTS            | M-102-E |
| 8.     | STANDARD HEADWALLS                        | M-102-E |
| 9.     | STANDARD METHODS FOR SUPERELEV. OF CURVES | M-102-E |
| 10.    | STANDARD WIRE CABLE GUARD FENCE           | M-20-G  |
| 11.    | WIRE FENCE & MARKER POSTS (METAL POSTS)   | M-27-A  |
| 12-32  | PLAN & PROFILE                            |         |
| 33-181 | CROSS-SECTIONS                            |         |
| 8-a    | INTERLOCKING CONCRETE CULVERTS            | M-107-A |
| 3-A    | SHEEP PASS                                |         |

#### CONVENTIONAL SIGNS

|                          |     |
|--------------------------|-----|
| CENTER LINE OF SURVEY    | --- |
| RIGHT OF WAY LINE        | --- |
| TOWNSHIP LINE            | --- |
| SECTION LINE             | --- |
| ONE-QUARTER SECTION LINE | --- |
| FENCE                    | --- |
| RAILROADS                | --- |
| TELEPHONE POLE LINE      | --- |
| PRESENT ROAD             | --- |

**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 63,499.4 FT. = 11.950 MI.  
 NET LENGTH OF PROJECT



Scale: 1 inch = 1 Mile

RECOMMENDED FOR APPROVAL  
*J. J. Maloney* 6/30/34  
 ASSISTANT ENGINEER  
 APPROVED  
*Chas. D. Vail*  
 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. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F            | 12        |              |

Revised as Constructed 5-35 H.W.V.

S.W. 1/4 SECTION 17  
T.10S.-R.58W.

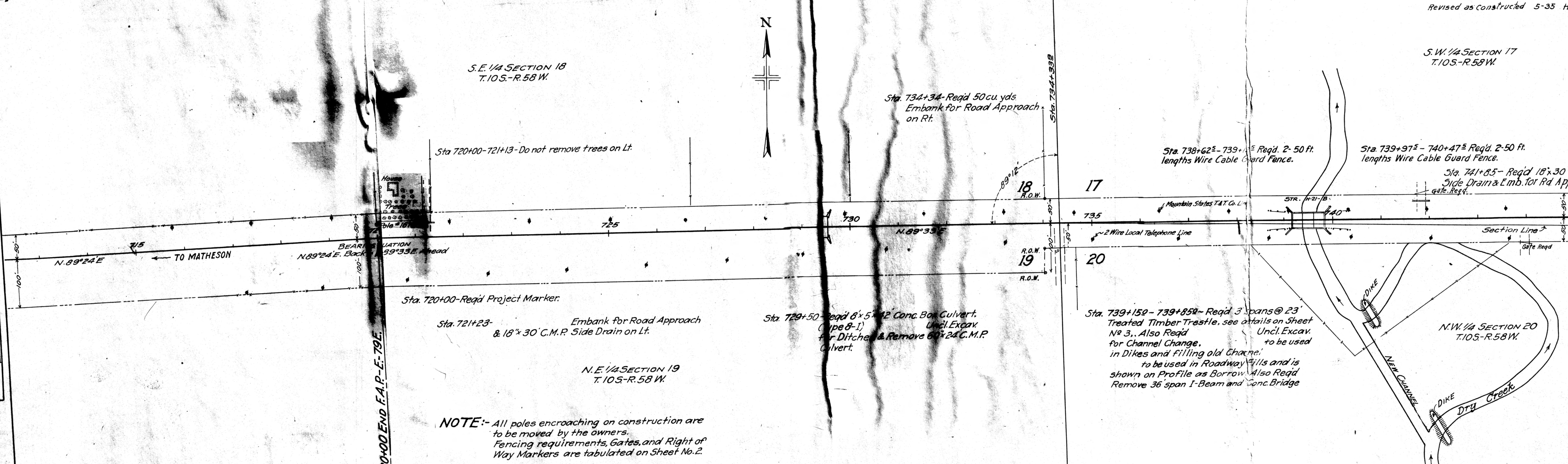
N.W. 1/4 SECTION 20  
T.10S.-R.58W.



S.E. 1/4 SECTION 18  
T.10S.-R.58W.

N.E. 1/4 SECTION 19  
T.10S.-R.58W.

|                    |     |
|--------------------|-----|
| BY                 | WES |
| SURVEYED           |     |
| PLOTTED            |     |
| ALIGNMENT CHECKED  |     |
| RT. OF WAY CHECKED |     |
| PLAN               |     |
| NOTE BOOK          |     |
| NO. 1722           |     |



Sta. 734+34-Req'd 50 cu. yds.  
Embank for Road Approach  
on Rt.

Sta. 720+00-721+13-Do not remove trees on Lt.

Sta. 738+62.5-739+150 Req'd. 2- 50 ft.  
lengths Wire Cable Guard Fence.

Sta. 739+97.5-740+47.5 Req'd. 2-50 ft.  
lengths Wire Cable Guard Fence.

Sta. 741+85- Req'd 18'x30' C.M.P.  
Side Drain & Emb. for Rd. Appr. Lt.  
Gate Req'd.

BEARING SITUATION  
N. 89°24' E. Back 100' to 720+00  
N. 89°33' E. Ahead

Sta. 720+00-Req'd Project Marker.

Sta. 721+23- Embank for Road Approach  
& 18'x30' C.M.P. Side Drain on Lt.

Sta. 729+50-Req'd 8'x5'x42' Conc. Box Culvert.  
(Type 8-1) Uncl. Excav.  
for Ditching & Remove 60'x24' C.M.P.  
Culvert.

Sta. 739+150-739+850- Req'd 3 spans @ 23'  
Treated Timber Trestle, see details on Sheet  
No. 3. Also Req'd Uncl. Excav.  
for Channel Change. to be used  
in Dikes and Filling old Channel  
to be used in Roadway Fills and is  
shown on Profile as Borrow. Also Req'd  
Remove 36 span I-Beam and Conc. Bridge

NOTE:- All poles encroaching on construction are  
to be moved by the owners.  
Fencing requirements, Gates, and Right of  
Way Markers are tabulated on Sheet No. 2.

Sta. 720+00 END F.A.P.-E-79E



| FED. ROAD DIST. NO. | STATE | U.S. P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|---------------------|-----------|--------------|
| 3                   | COLO. | N.R.H.-79F          | 13        |              |

Revised as constructed 5-35 H.W.V.



S.W. 1/4 SECTION 17  
T.10S.-R.58W.

S.E. 1/4 SECTION 17  
T.10S.-R.58W.

N.W. 1/4 SECTION 20  
T.9S.-R.58W.

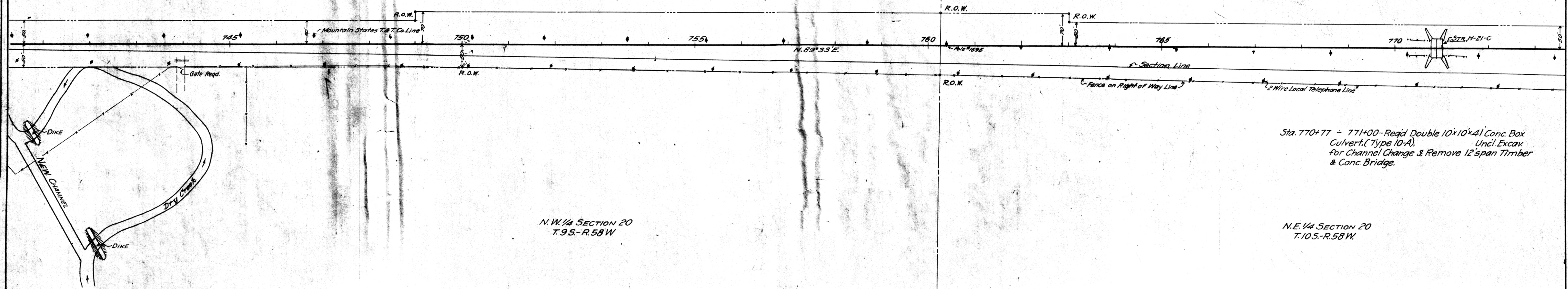
N.E. 1/4 SECTION 20  
T.10S.-R.58W.

Sta. 743+75- Embank. for Road Approach  
& 18" x 30" C.M.P. Side Drain Rt. & Remove 15" x 18" C.M.P. Side  
Drain Lt. & Move Cattle Guard on Lt.

Sta. 770+25- 770+75 Req'd. 2-50 ft.  
lengths Wire Cable Guard Fence.

Sta. 771+02- 771+52 Req'd. 2-50 ft.  
lengths Wire Cable Guard Fence.

|          |        |              |
|----------|--------|--------------|
| DATE     | BY     | REVISIONS    |
| 11-25-55 | W.E.S. | 1. AS SHOWN  |
| 11-25-55 | W.E.S. | 2. AS SHOWN  |
| 11-25-55 | W.E.S. | 3. AS SHOWN  |
| 11-25-55 | W.E.S. | 4. AS SHOWN  |
| 11-25-55 | W.E.S. | 5. AS SHOWN  |
| 11-25-55 | W.E.S. | 6. AS SHOWN  |
| 11-25-55 | W.E.S. | 7. AS SHOWN  |
| 11-25-55 | W.E.S. | 8. AS SHOWN  |
| 11-25-55 | W.E.S. | 9. AS SHOWN  |
| 11-25-55 | W.E.S. | 10. AS SHOWN |
| 11-25-55 | W.E.S. | 11. AS SHOWN |
| 11-25-55 | W.E.S. | 12. AS SHOWN |
| 11-25-55 | W.E.S. | 13. AS SHOWN |
| 11-25-55 | W.E.S. | 14. AS SHOWN |
| 11-25-55 | W.E.S. | 15. AS SHOWN |
| 11-25-55 | W.E.S. | 16. AS SHOWN |
| 11-25-55 | W.E.S. | 17. AS SHOWN |
| 11-25-55 | W.E.S. | 18. AS SHOWN |
| 11-25-55 | W.E.S. | 19. AS SHOWN |
| 11-25-55 | W.E.S. | 20. AS SHOWN |
| 11-25-55 | W.E.S. | 21. AS SHOWN |
| 11-25-55 | W.E.S. | 22. AS SHOWN |
| 11-25-55 | W.E.S. | 23. AS SHOWN |
| 11-25-55 | W.E.S. | 24. AS SHOWN |
| 11-25-55 | W.E.S. | 25. AS SHOWN |
| 11-25-55 | W.E.S. | 26. AS SHOWN |
| 11-25-55 | W.E.S. | 27. AS SHOWN |
| 11-25-55 | W.E.S. | 28. AS SHOWN |
| 11-25-55 | W.E.S. | 29. AS SHOWN |
| 11-25-55 | W.E.S. | 30. AS SHOWN |

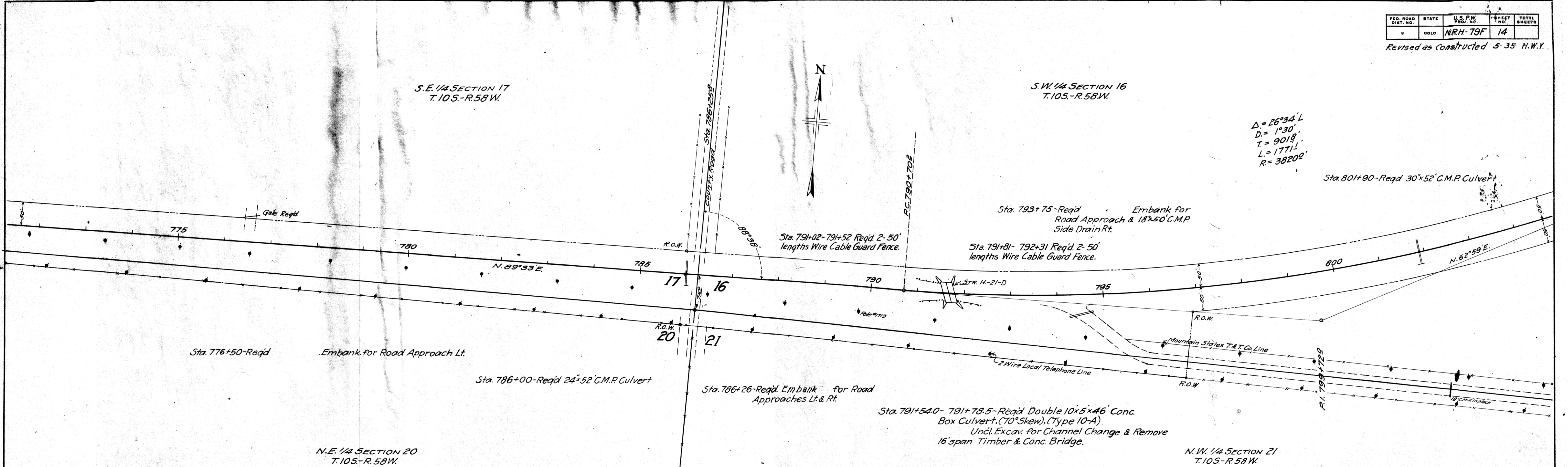




| FED. ROAD DIST. NO. | STATE | U.S. P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|---------------------|-----------|--------------|
| 3                   | COLO. | NR.H-79F            | 14        |              |

Revised as Constructed 5-35 H.W.Y.

|      |        |                    |
|------|--------|--------------------|
| DATE | BY     | PLAN               |
| 5-35 | H.E.S. | NOTE BOOK No. 2782 |
|      |        | PLANNED            |
|      |        | ALIGNED            |
|      |        | RT. OF WAY CHECKED |





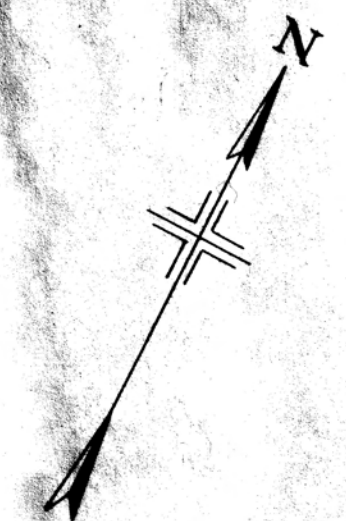
| FED. ROAD DIST. NO. | STATE    | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|----------|--------------------|-----------|--------------|
| 3                   | COLORADO | NRH-79F            | 15        |              |

Revised as Constructed 5-35 H.W.V.

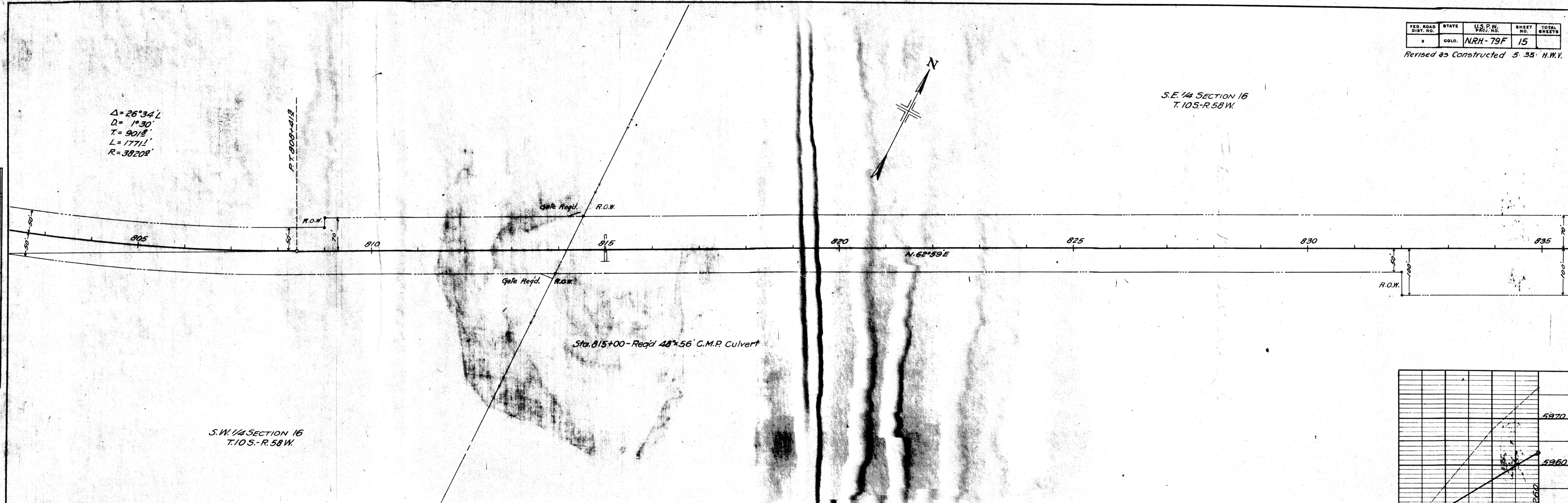
S.E. 1/4 SECTION 16  
T.10S.-R.58W.

$\Delta = 26^{\circ}34' L$   
 $D = 1^{\circ}30'$   
 $T = 9018'$   
 $L = 17711'$   
 $R = 38209'$

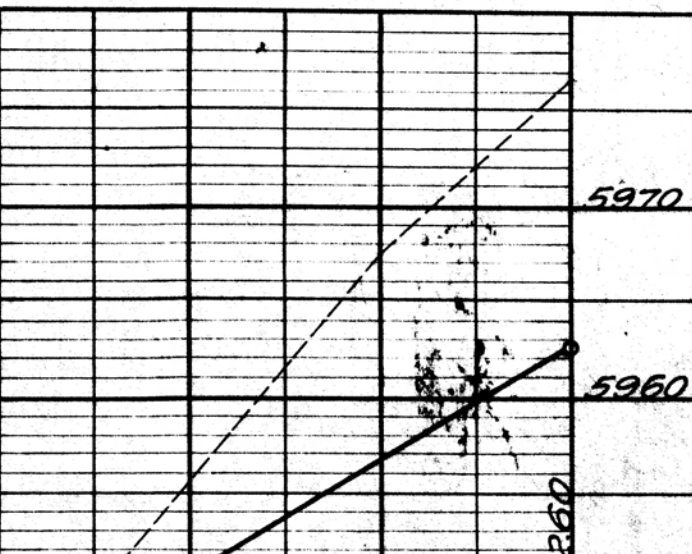
PT 808+41.3



|          |        |         |
|----------|--------|---------|
| PLAN     | BY     | DATE    |
| DESIGNED | H.E.S. | 10/2/52 |
| CHECKED  |        |         |
| APPROVED |        |         |
| BY       |        |         |



S.W. 1/4 SECTION 16  
T.10S.-R.58W.

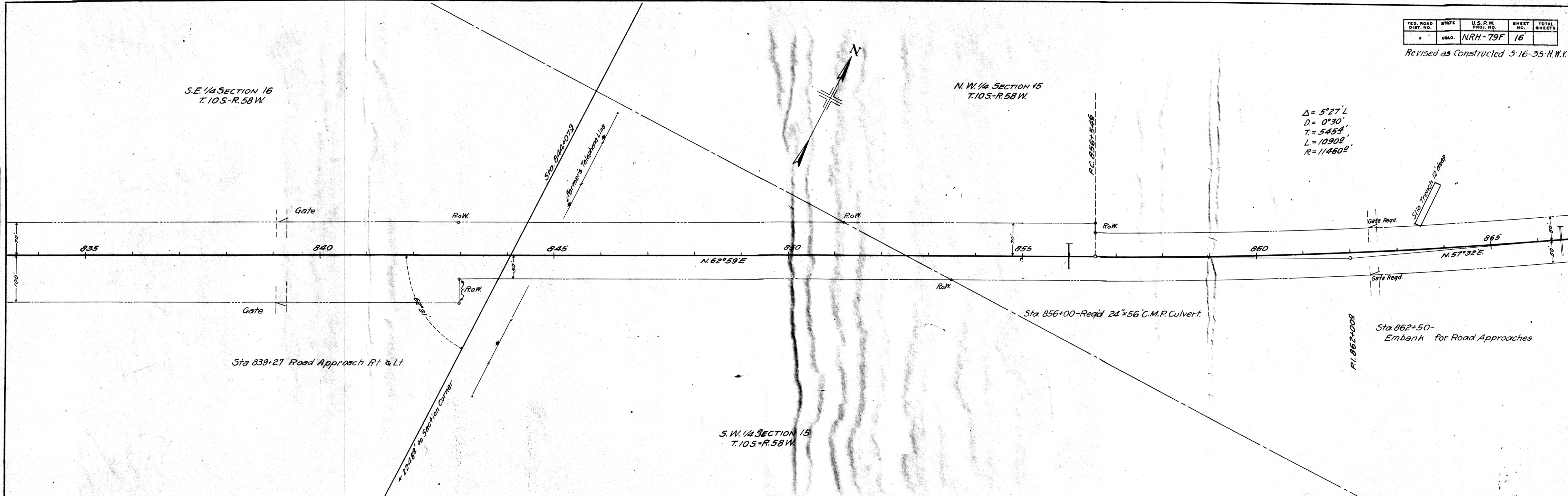




|           |        |        |
|-----------|--------|--------|
| PLAN      | BY     | DATE   |
| SURVEYED  | W.F.S. | 5-1-32 |
| PLOTTED   |        |        |
| NOTE BOOK |        |        |
| NO. 2782  |        |        |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F            | 16        |              |

Revised as Constructed 5-16-35 H.W.V.





| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | N.R.H.-79F         | 17        |              |

REVISED as constructed 5:35 H.W.Y.

N.W. 1/4 SECTION 15  
T.10S-R.58W.

N.E. 1/4 SECTION 15  
T.10S-R.58W.

$\Delta = 5^\circ 27' L$   
 $D = 0^\circ 30'$   
 $T = 545.4'$   
 $L = 1090.9'$   
 $R = 11460.9'$

PT. 867+44.9

R.O.W.

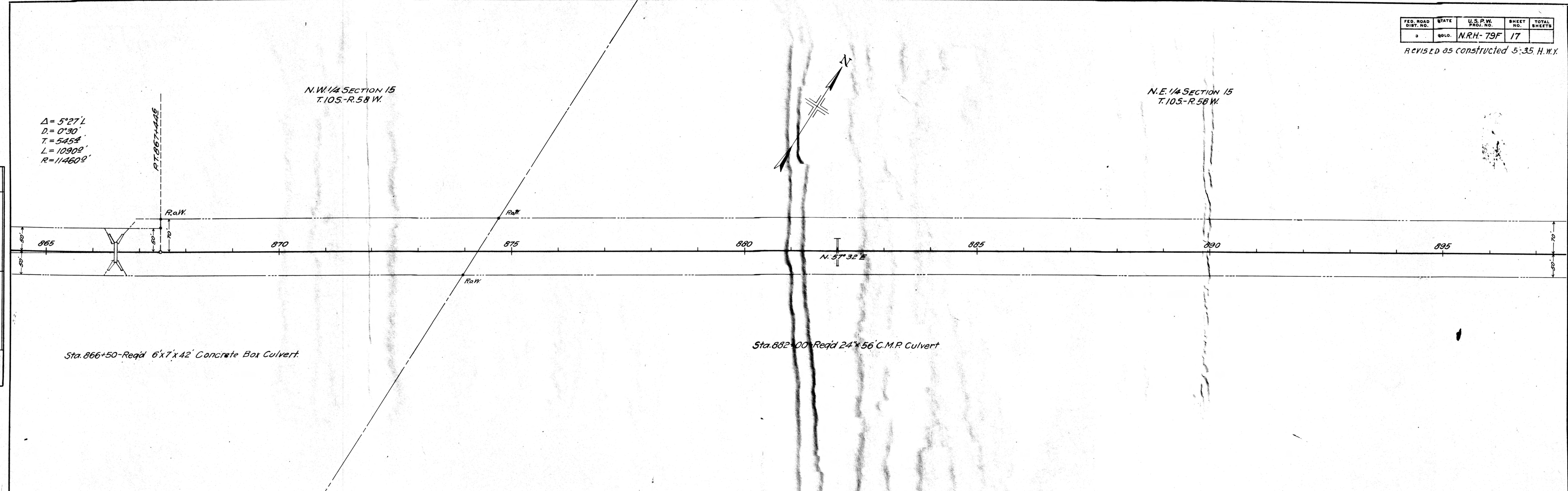
R.O.W.

N. 57° 32' E

Sta. 866+50 - Req'd 6'x7'x42' Concrete Box Culvert.

Sta. 882+00 - Req'd 24"x56' C.M.P. Culvert.

|                    |        |        |
|--------------------|--------|--------|
| PLAN               | BY     | DATE   |
| SURVEYED           | H.E.S. | 5-4-34 |
| PLOTTED            |        |        |
| ALIGNMENT CHECKED  |        |        |
| MT. OF WAY CHECKED |        |        |
| NOTE BOOK          |        |        |
| NO. 4782           |        |        |





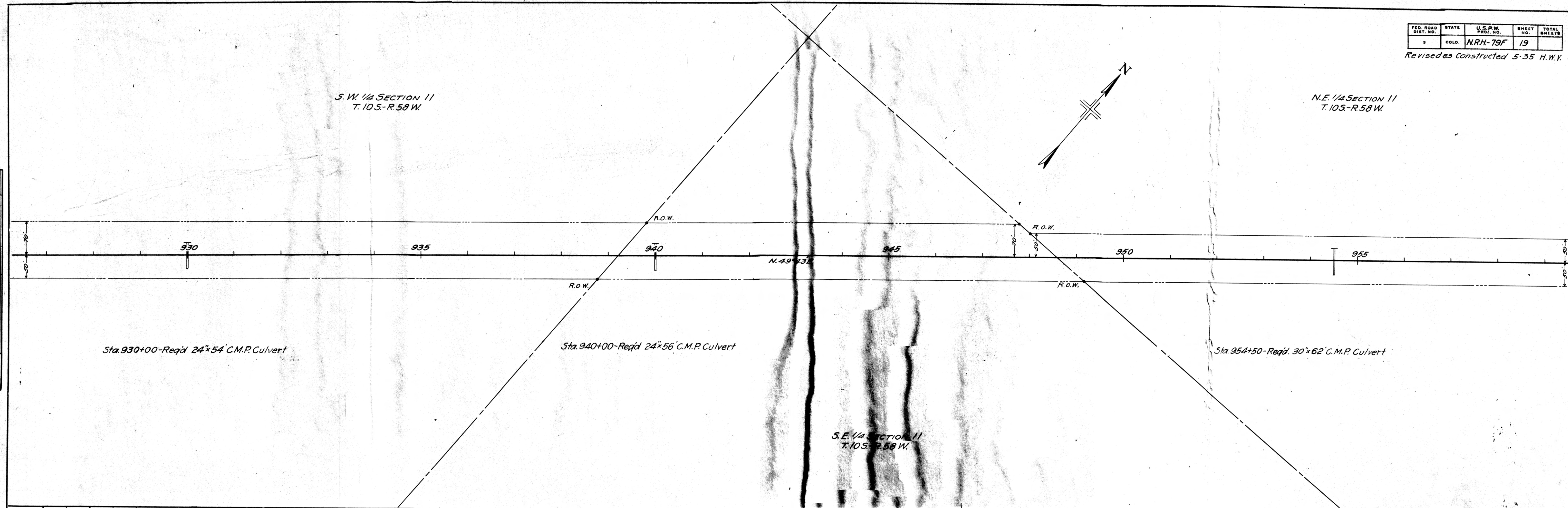




|           |                    |          |
|-----------|--------------------|----------|
| PLAN      | DATE               | 5-1-30   |
|           | BY                 | H. E. S. |
|           | SURVEYED           |          |
|           | NOTED              |          |
| NOTE BOOK | ALIGNMENT CHECKED  |          |
|           | RT. OF WAY CHECKED |          |
| No. 4782  |                    |          |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F            | 19        |              |

Revised as Constructed 5-35 H.W.V.

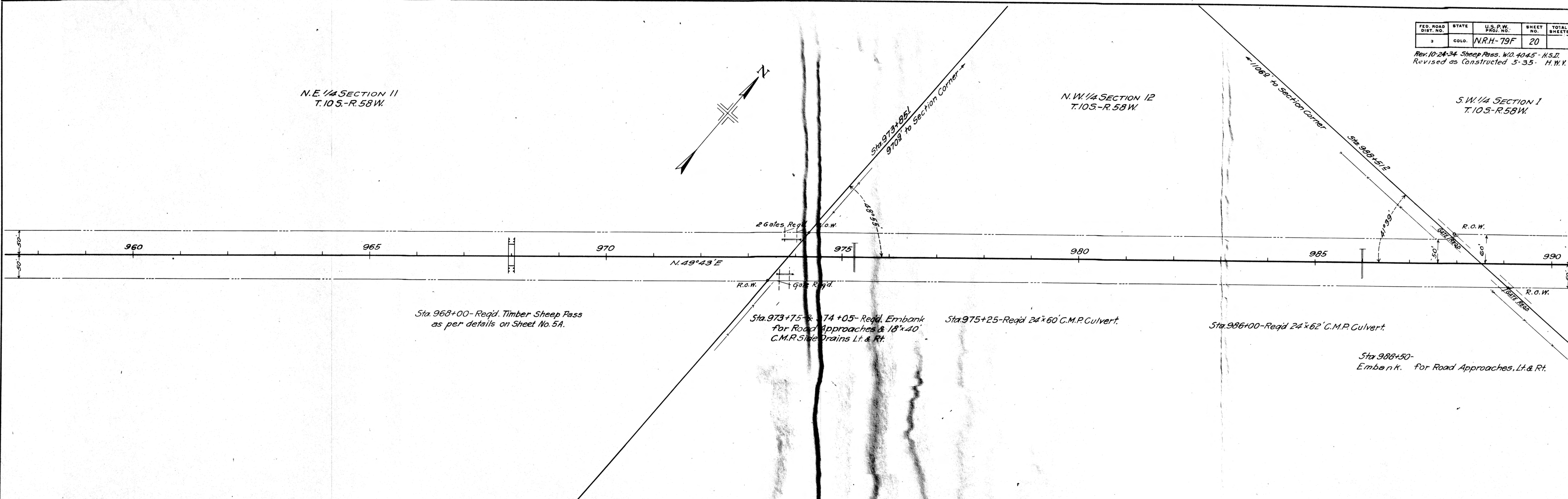




Rev. 10-24-34 Sheep Pass. W.O. 4045 - H.S.D.  
Revised as Constructed 5-35 - H.W.V.

Rev. 10-24-34 Sheep Pass. W.O. 4045 - H.S.D.  
Revised as Constructed 5-35 - H.W.V.

S.W. 1/4 SECTION 1  
T.10S.-R.58W.





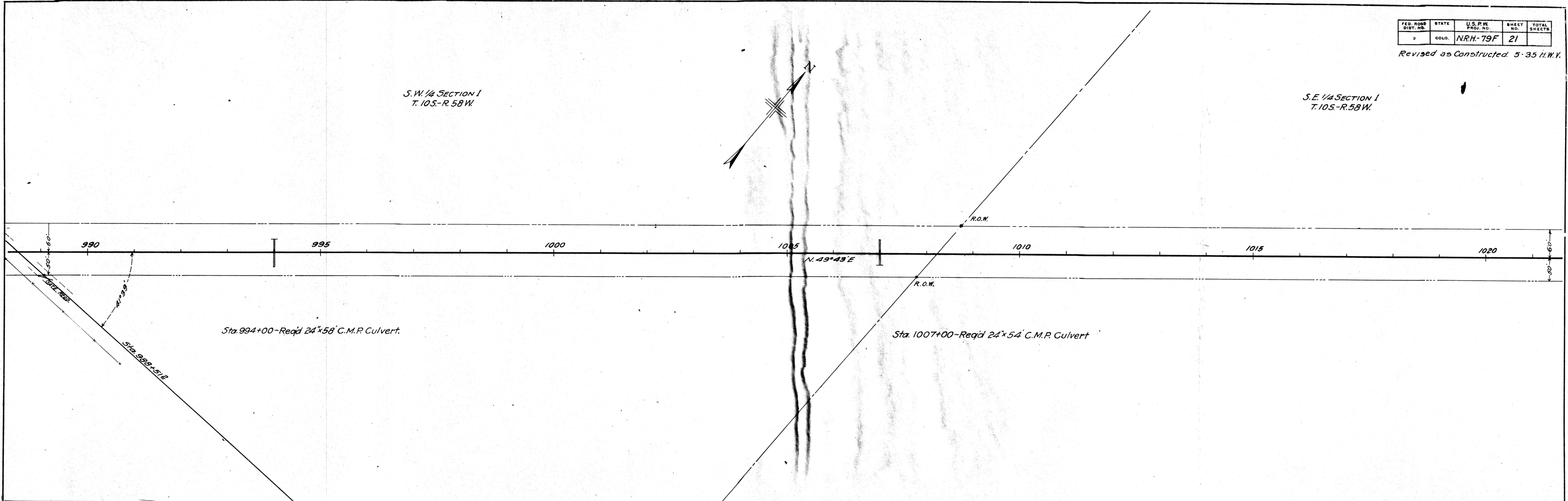
|           |                    |        |
|-----------|--------------------|--------|
| PLAN      | BY                 | DATE   |
| SURVEYED  |                    |        |
| PLOTTED   | H.F.S.             | 6-1-32 |
| NOTE BOOK | ALIGNMENT CHECKED  |        |
| NO. 2282  | RT. OF WAY CHECKED |        |

| FED. ROAD DIST. NO. | STATE | U.S. P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|---------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F             | 21        |              |

Revised as Constructed. 5-35 H.W.V.

S.W. 1/4 SECTION 1  
T. 10S.-R. 58W.

S.E. 1/4 SECTION 1  
T. 10S.-R. 58W.



Sta. 994+00-Req'd 24'x58' C.M.P. Culvert.

Sta. 1007+00-Req'd 24'x54' C.M.P. Culvert

N. 49°43' E

R.O.W.

R.O.W.

41°39'

Sta. 998+512

990

995

1000

1005

1010

1015

1020

50'

60'

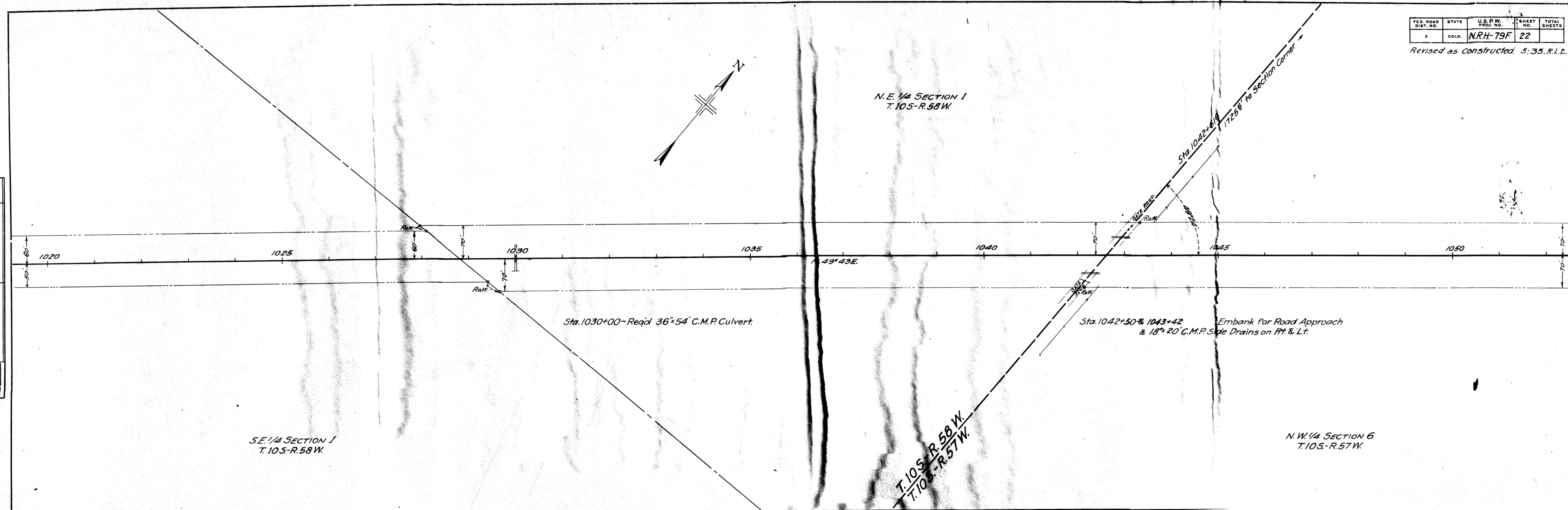
50'



|           |                   |                    |
|-----------|-------------------|--------------------|
| PLAN      | BY                | DATE               |
| SURVEYED  | FILED             | FILED              |
| PLOTTED   | FILED             | FILED              |
| NOTE BOOK | ALIGNMENT CHECKED | RT. OF WAY CHECKED |
| NO. 2722  |                   |                    |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | N.R.H-79F          | 22        |              |

Revised as Constructed 5:35 P.M.

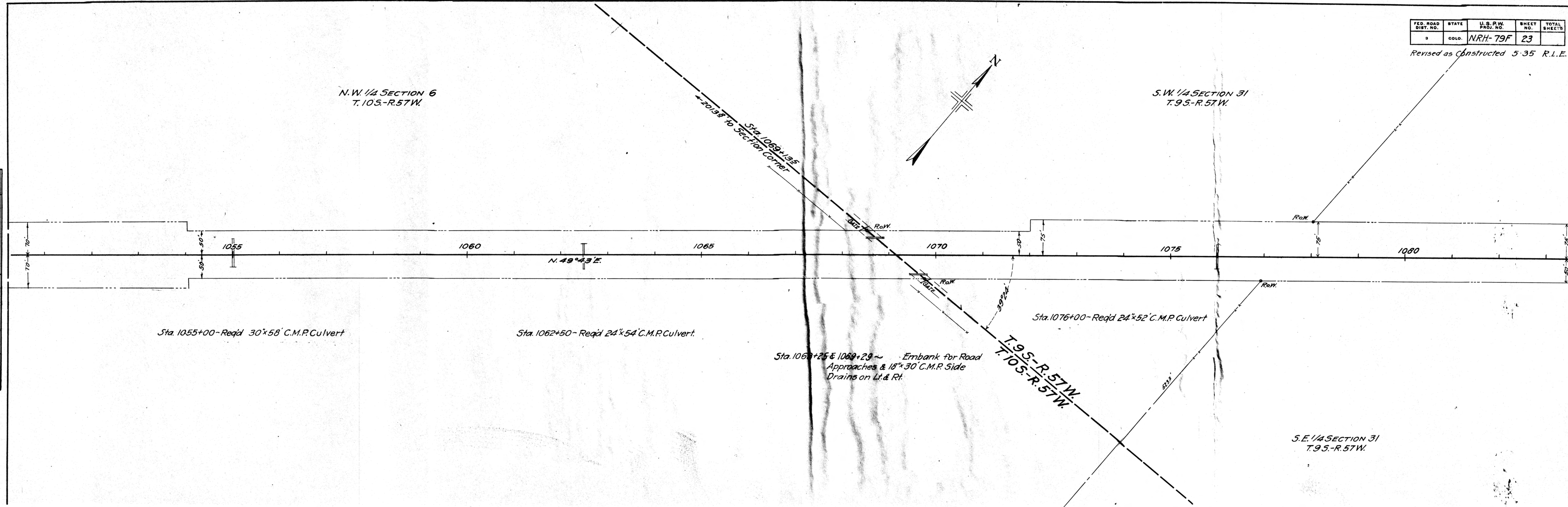




|           |        |         |
|-----------|--------|---------|
| PLAN      | BY     | DATE    |
| SURVEYED  | H.E.S. | 5-31-24 |
| PLOTTED   |        |         |
| NOTE BOOK |        |         |
| IN-4722   |        |         |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F            | 23        |              |

Revised as Constructed 5-35 R.L.E.





| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 1                   | COLO. | N.R.H-79F          | 24        |              |

Revised as Constructed 5-35 R.L.E.

S.E. 1/4 SECTION 31  
T.95-R.57W.

N.E. 1/4 SECTION 31  
T.95-R.57W.

N.W. 1/4 SECTION 32  
T.95-R.57W.

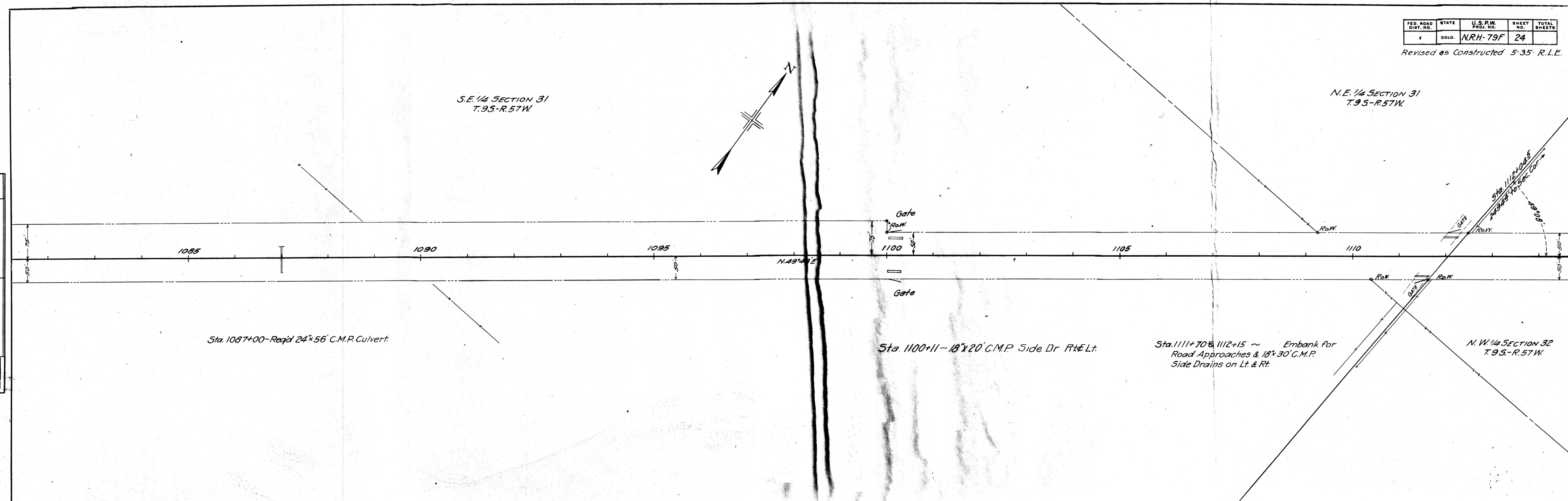
N.49°41'E

Sta. 1087+00-Req'd 24'x56' C.M.P. Culvert.

Sta. 1100+11-18'x20' C.M.P. Side Dr Rt & Lt.

Sta. 1111+70 & 1112+15 ~ Embank for  
Road Approaches & 18'x30' C.M.P.  
Side Drains on Lt. & Rt.

|           |                    |         |
|-----------|--------------------|---------|
| PLAN      | BY                 | DATE    |
| NOTE BOOK | U.F.S.             | 5-21-34 |
| No. 4782  | ALIGNMENT CHECKED  |         |
|           | RT. OF WAY CHECKED |         |

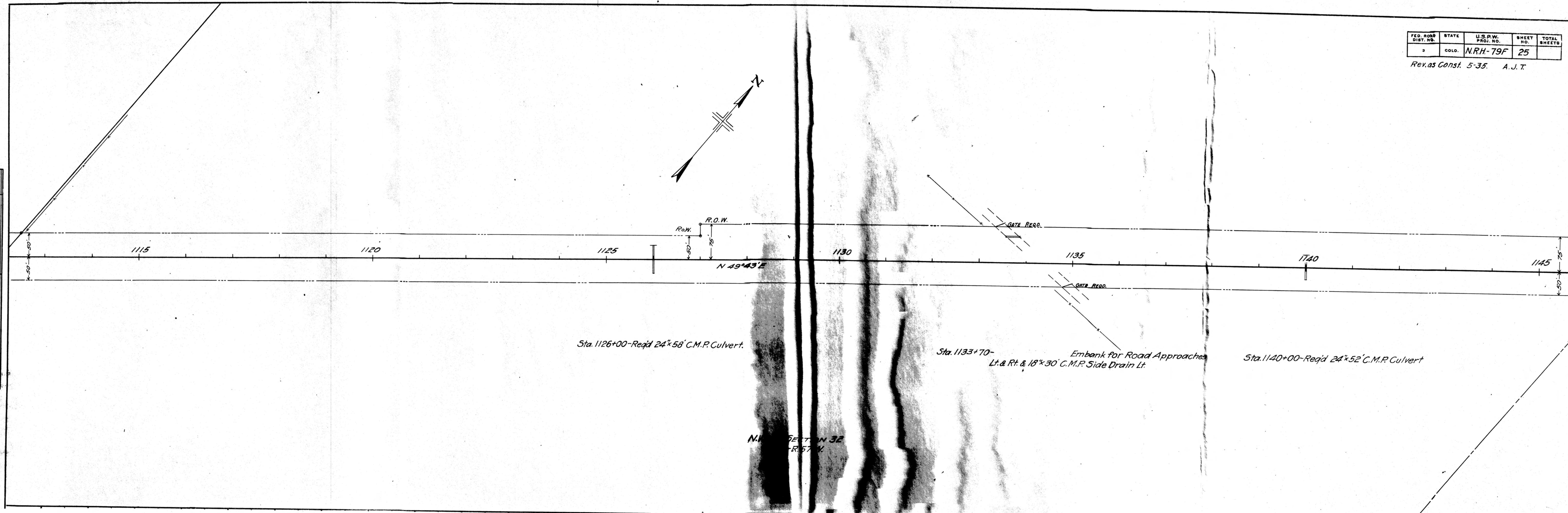




| PLAN               | BY     | DATE   |
|--------------------|--------|--------|
| SURVEYED           | H.E.S. | 5-22-2 |
| PLOTTED            |        |        |
| ALIGNED CHECKED    |        |        |
| RT. OF WAY CHECKED |        |        |
| NOTE BOOK          |        |        |
| NO. 4222           |        |        |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | N.R.H.-79F         | 25        |              |

Rev. as Const. 5-35. A.J.T.

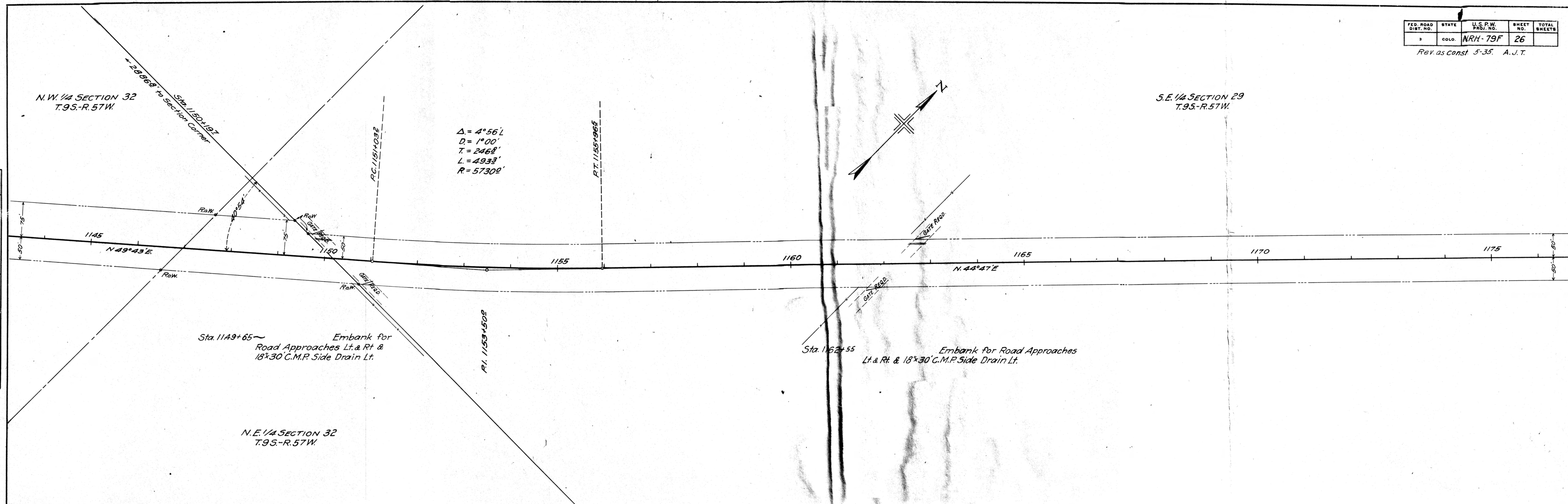




| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NRH-79F            | 26        |              |

Rev. as const. 5-35. A.J.T.

|           |           |           |
|-----------|-----------|-----------|
| DATE      | BY        | DATE      |
|           |           |           |
| PLANNED   | PLANNED   | PLANNED   |
| NOTE BOOK | NOTE BOOK | NOTE BOOK |
| No. 2232  | No. 2232  | No. 2232  |

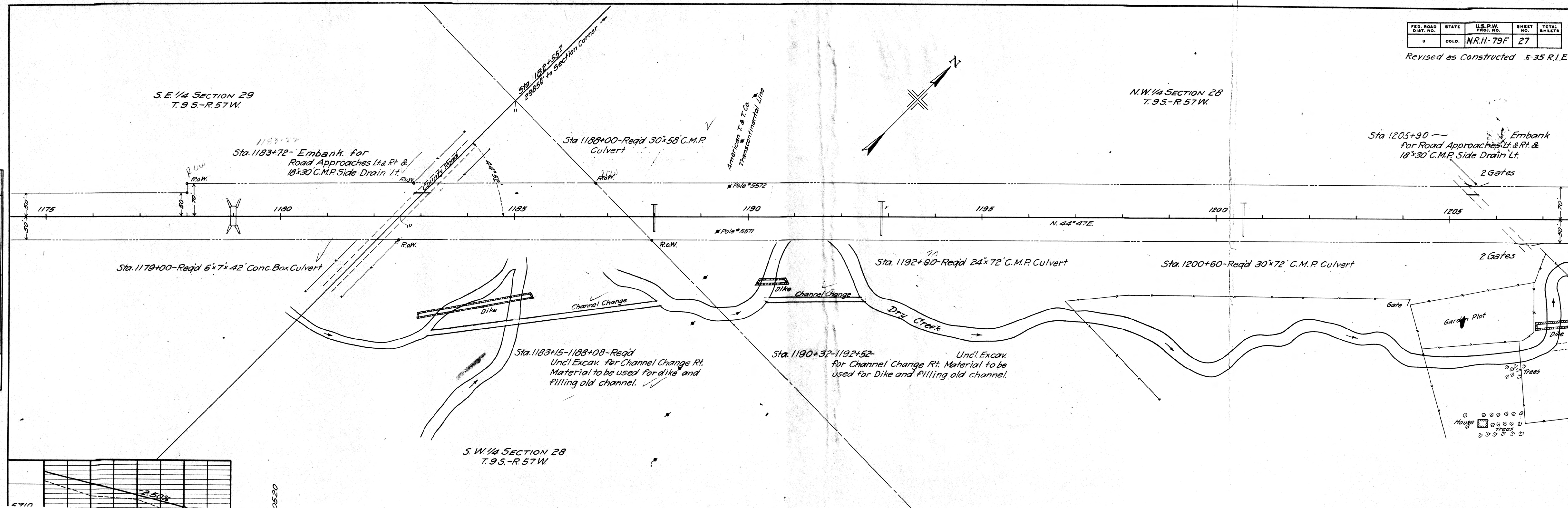




|           |         |                    |
|-----------|---------|--------------------|
| PLAN      | DATE    | BY                 |
| NOTE BOOK | 5-27    | ELB                |
| No. 2222  |         |                    |
| SURVEYED  | PLOTTED | ALIGNMENT CHECK    |
|           |         | RT. OF WAY CHECKED |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | NR.H-79F           | 27        |              |

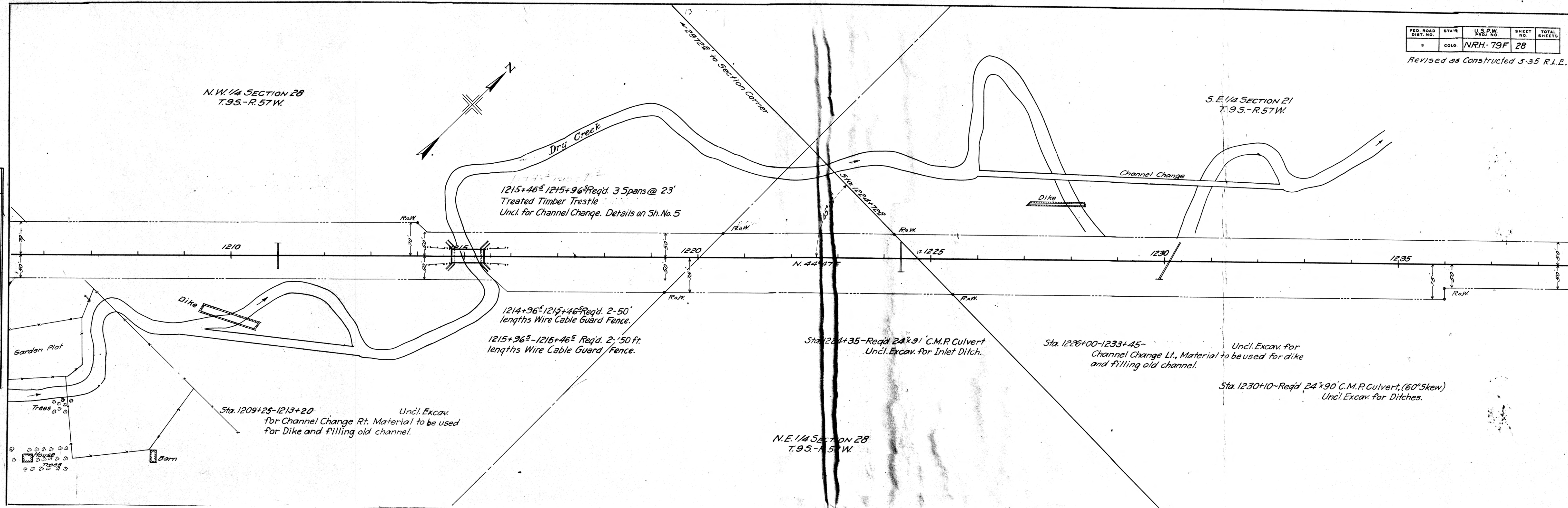
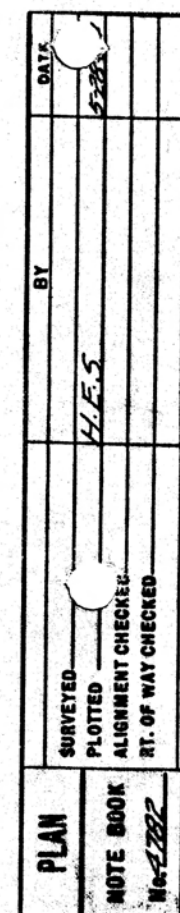
Revised as Constructed 5-35 R.L.E.





| FED. ROAD<br>DIST. NO. | STATE | U.S.P.W.<br>PROJ. NO. | SHEET<br>NO. | TOTAL<br>SHEET |
|------------------------|-------|-----------------------|--------------|----------------|
| 3                      | COLO. | NRH-79F               | 28           |                |

Revised as Constructed 5.35 R.L.E.

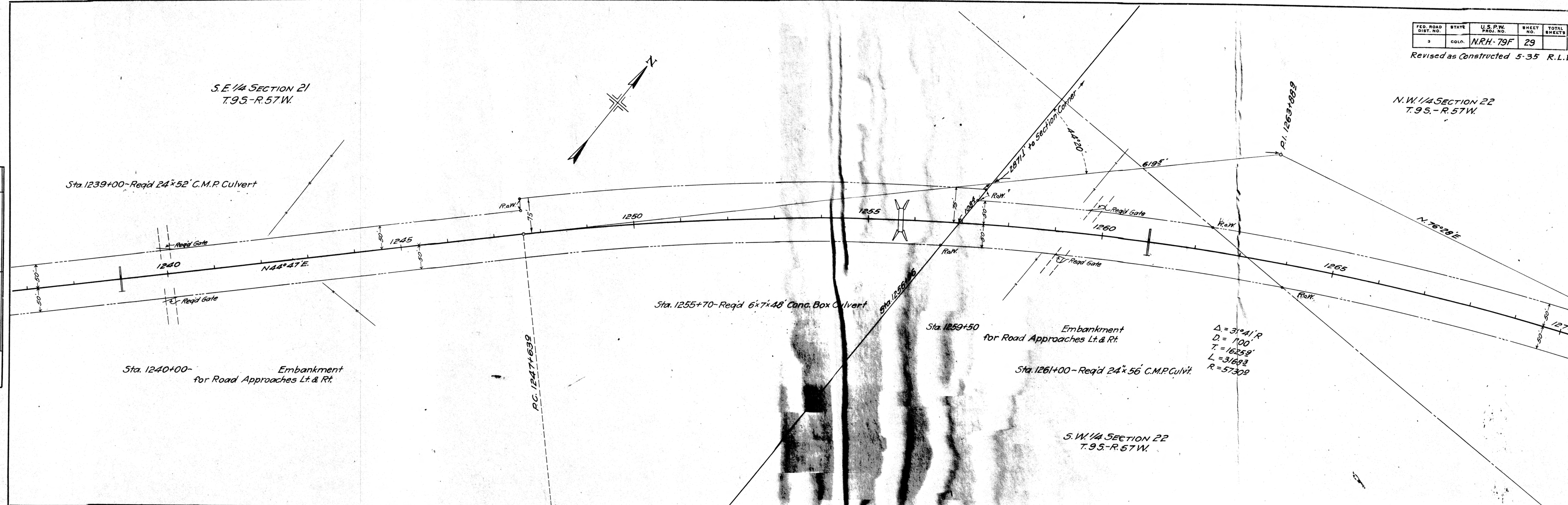




Revised as Constructed 5-35 R.L.M.

N.W. 1/4 SECTION 22  
T.9S.-R.57W.

S.W. 1/4 SECTION 22  
T.9S.-R.57W.





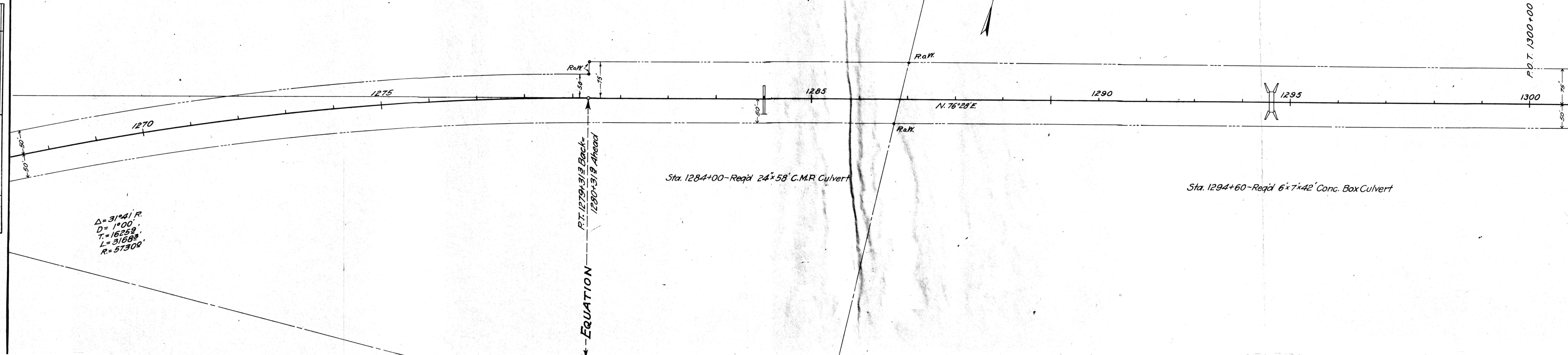
| PLAN       | BY | DATE |
|------------|----|------|
| SURVEYED   |    |      |
| PLOTTED    |    |      |
| ALIGNED    |    |      |
| CHECKED    |    |      |
| RT. OF WAY |    |      |
| NO.        |    |      |

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COLO. | N.R.H-79F          | 30        |              |

Revised as Constructed 5-35 R.L.E.

N.W. 1/4 SECTION 22  
T.9 S.-R.57 W.

N.E. 1/4 SECTION 22  
T.9 S.-R.57 W.



Sta. 1284+00-Req'd 24'x58' C.M.R. Culvert

Sta. 1294+60-Req'd 6'x7'x42' Conc. Box Culvert

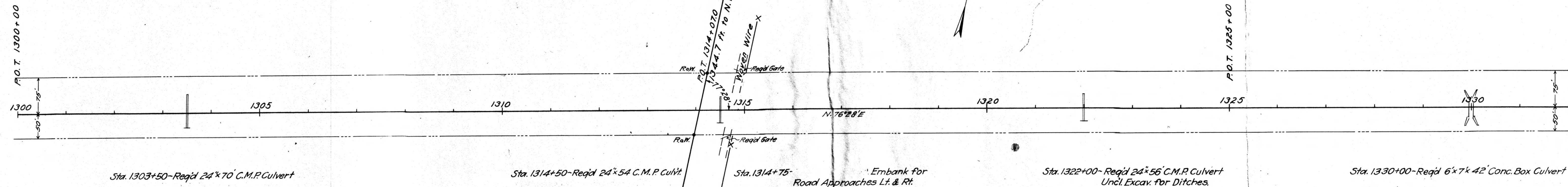
Δ=31°41' R.  
D=1°00'  
T=16259'  
L=31689'  
R=57300'

PT. 1279+31.9 Back=1280+31.9 Ahead  
- EQUATION



| FED. ROAD<br>DIST NO. | STATE | U. S. P. W.<br>PROJ NO | SHEET<br>NO | TOTAL<br>SHEET |
|-----------------------|-------|------------------------|-------------|----------------|
| 3                     | COLO. | N.R.H.-79F             | 31          |                |

Rev. as Const. 5-35 A.J.T.



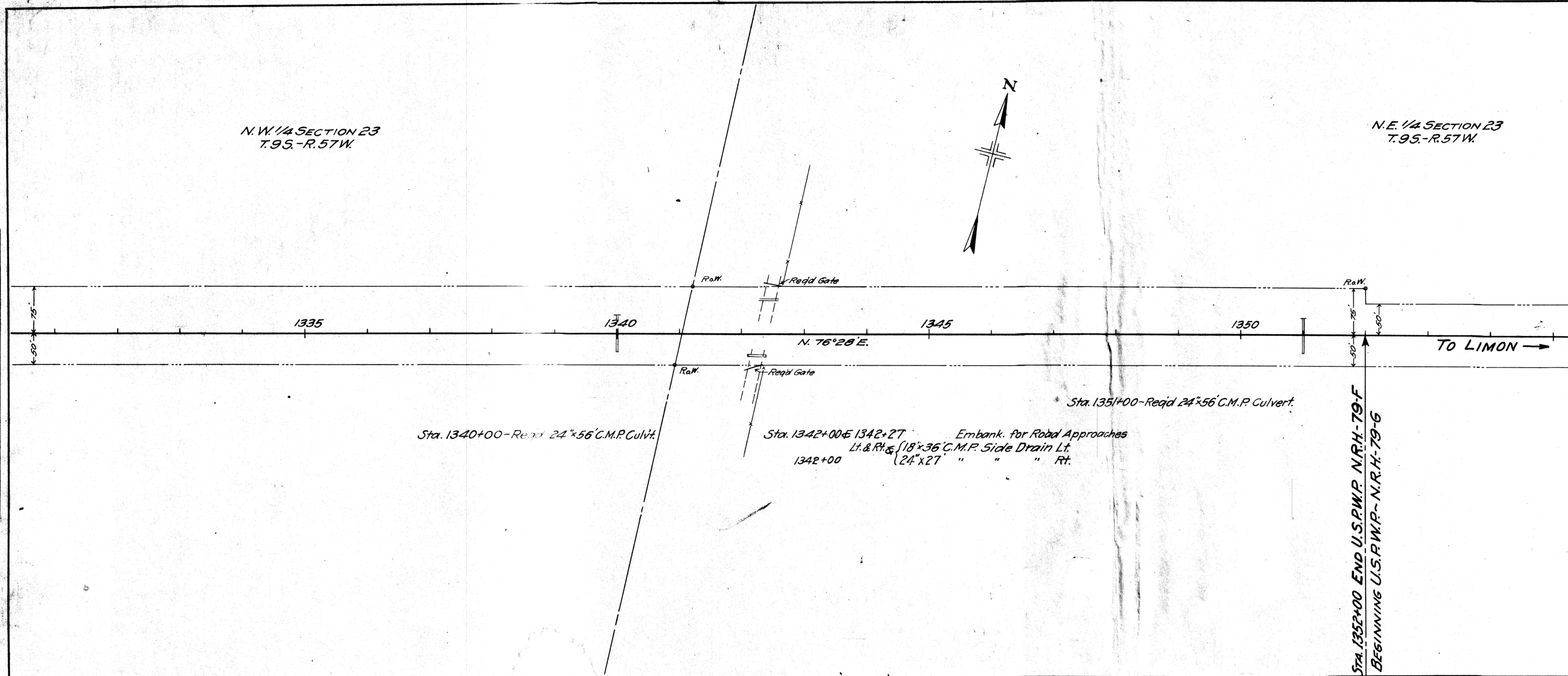
| PLAN      |  | SURVEYED           | BY | DATE |
|-----------|--|--------------------|----|------|
| NOTE BOOK |  | PLOTTED            |    |      |
| NO.       |  | ALIGNMENT CHECKED  |    |      |
|           |  | RT. OF WAY CHECKED |    |      |



|      |    |      |          |         |         |         |       |      |    |      |
|------|----|------|----------|---------|---------|---------|-------|------|----|------|
| PLAN | BY | DATE | SURVEYED | PLOTTED | ALIGNED | CHECKED | NOTED | BOOK | BY | DATE |
|      |    |      |          |         |         |         |       |      |    |      |

N.W. 1/4 SECTION 23  
T.9S.-R.57W.

N.E. 1/4 SECTION 23  
T.9S.-R.57W.



Sta. 1340+00 - Reg'd 24" x 56' C.M.P. Culvert.

Sta. 1342+00 & 1342+27  
Lt. & Rt. of 18" x 36" C.M.P. Side Drain Lt.  
1342+00 (24" x 27" " " " Rt.  
Embank. for Road Approaches

Sta. 1351+00 - Reg'd 24" x 56' C.M.P. Culvert.

Sta. 1352+00 END U.S.P.W.P. N.R.H.-79-F  
BEGINNING U.S.P.W.P.-N.R.H.-79-G

| FED. ROAD DIST. NO. | STATE | U.S.P.W. PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-----------|--------------|
| 3                   | COL.  | NR.H-79F           | 32        |              |

Rev. as Const. 5-35. A.J.T.