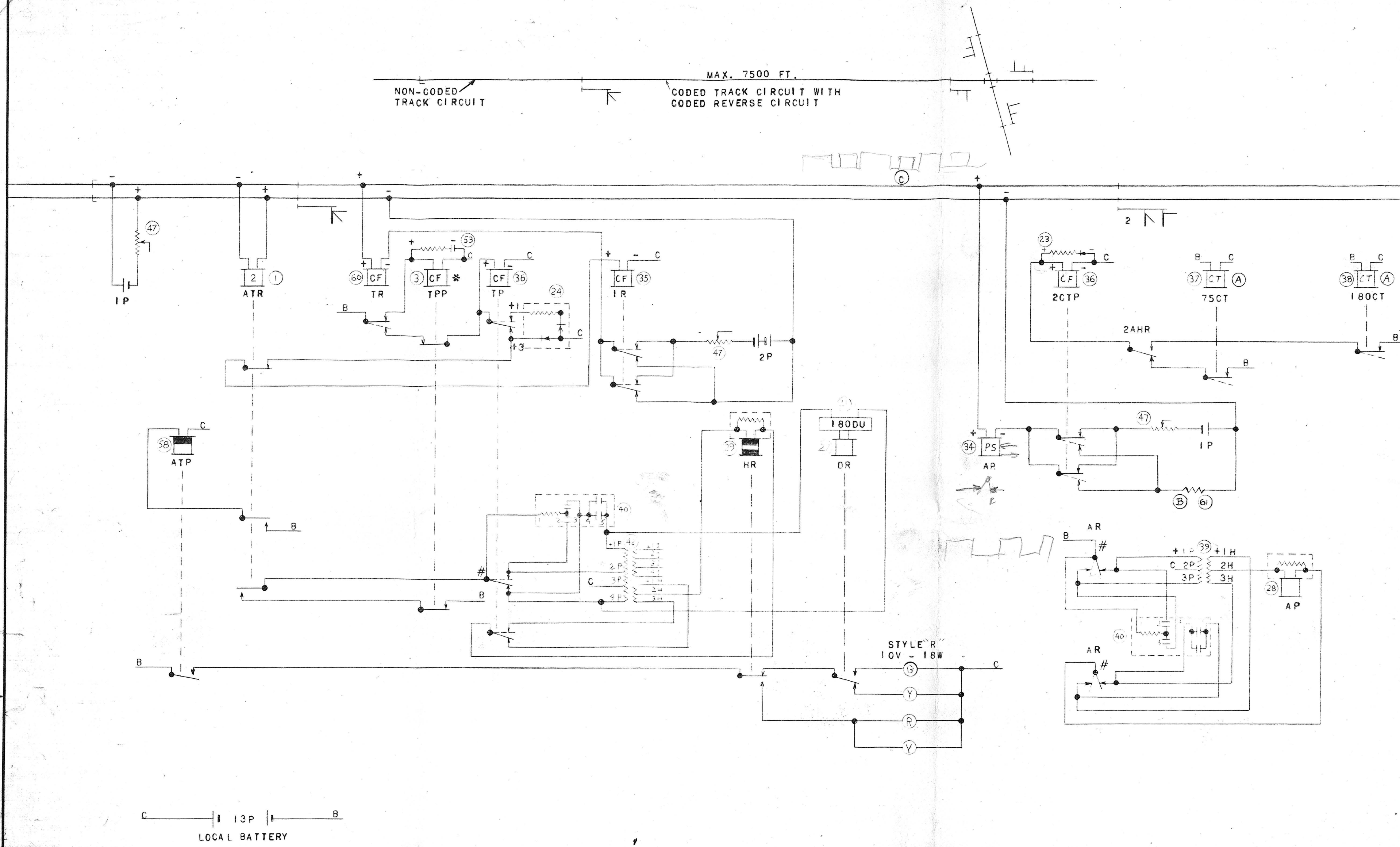




NOTES

- EQUIPMENT FOR 8 VOLT OPERATION 4 CELLS OF LEAD STORAGE OR 13 CELLS OF EDISON PRIMARY.
- \* SAFETY CIRCUITS ARE NOT TO BE CARRIED OVER RELAY TPP WHICH IS A FRONT CONTACT ONLY REPEATER OF THE CODE FOLLOWING TRACK RELAY.
- # CONNECT CIRCUIT AS SHOWN WITH SHORT LEADS FROM RELAY TERMINAL TO ARC SUPPRESSOR.
- NOTE A. ONE SET OF CODERS MAY BE USED FOR ALL FOUR APPROACHES TO THE INTERLOCKING.
- NOTE B. RESISTOR (61) IS USED WHEN HIGH ENERGY LEVEL IS REQUIRED FOR SAFETY FUNCTIONS.
- NOTE C. PRIMARY BATTERY TRACK CIRCUITS.

REVISIONS

|                              |        |
|------------------------------|--------|
| 8                            | 2-5-46 |
| RESISTOR 61 AND NOTE B ADDED |        |
| RE-DRAWN                     |        |

REFERENCES

G.O. 503744

|          |           |
|----------|-----------|
| DESIGNED | H.T.      |
| DRAWN    | A.F.H.-P. |
| TRACED   |           |
| CHECKED  |           |
| O.K'D    |           |

FOR REFERENCES SEE E5694 SH. 1

N. Y. C. & ST. L. RY.  
PROPOSED ADDITION OF APPROACH  
SIGNAL AND APPROACH LOCKING

|          |         |           |        |
|----------|---------|-----------|--------|
| APPROVED | H.T.    | DATE      | 3-1-42 |
| SHEETS   |         | SHEET NO. |        |
| DATE     | 3-30-42 | M 23      |        |

U. S. & S. CO., SWISSVALE, PA.

SCALE: NONE



# REVISIONS

1. 2-15-47  
Correct battery connection for reverse code and add ballast resistor to N.C.D.

2. 2-15-47  
Correct battery connection for reverse code and add ballast resistor to N.C.D.

3. 2-15-47  
Correct battery connection for reverse code and add ballast resistor to N.C.D.

4. 2-15-47  
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5. 2-15-47  
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6. 2-15-47  
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7. 2-15-47  
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8. 2-15-47  
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10. 2-15-47  
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11. 2-15-47  
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12. 2-15-47  
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13. 2-15-47  
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50. 2-15-47  
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56. 2-15-47  
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58. 2-15-47  
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59. 2-15-47  
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60. 2-15-47  
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## NOTES

EQUIPMENT FOR 8 VOLT OPERATION 4 CELLS OF LEAD STORAGE OR 13 CELLS OF EDISON PRIMARY.

\* SAFETY CIRCUITS ARE NOT TO BE CARRIED OVER THIS RELAY WHICH IS A FRONT CONTACT ONLY REPEATER OF THE CODE FOLLOWING TRACK RELAY.

# CONNECT CIRCUIT AS SHOWN WITH SHORT LEADS FROM RELAY TERMINAL TO ARC SUPPRESSOR.

NOTE A. ONE SET OF CODERS MAY BE USED FOR ALL FOUR APPROACHES TO THE INTERLOCKING.

NOTE B. MAXIMUM LENGTH OF TRACK CIRCUIT BASED ON STORAGE BATTERY OPERATION AND REVERSE CODE ON 75' NORMAL CODE ONLY, AND FOR FOLLOWING MINIMUM BALLAST RESISTANCES:

LEAD STORAGE - 2.6"/1000'  
NI-Fe. " - 3.15"/1000'

## REFERENCES

DESIGNED BY N.M.  
DRAWN BY N.M.  
TRACED BY N.M.  
CHECKED BY N.M.  
O.K'D BY N.M.

FOR REFERENCES SEE E5694 SH. 1

N. Y. C. & ST. L. RY.  
PROPOSED ADDITION OF APPROACH  
SIGNAL AND APPROACH LOCKING

U. S. S. S. CO., SWISSVALE, PA.

SCALE: NONE

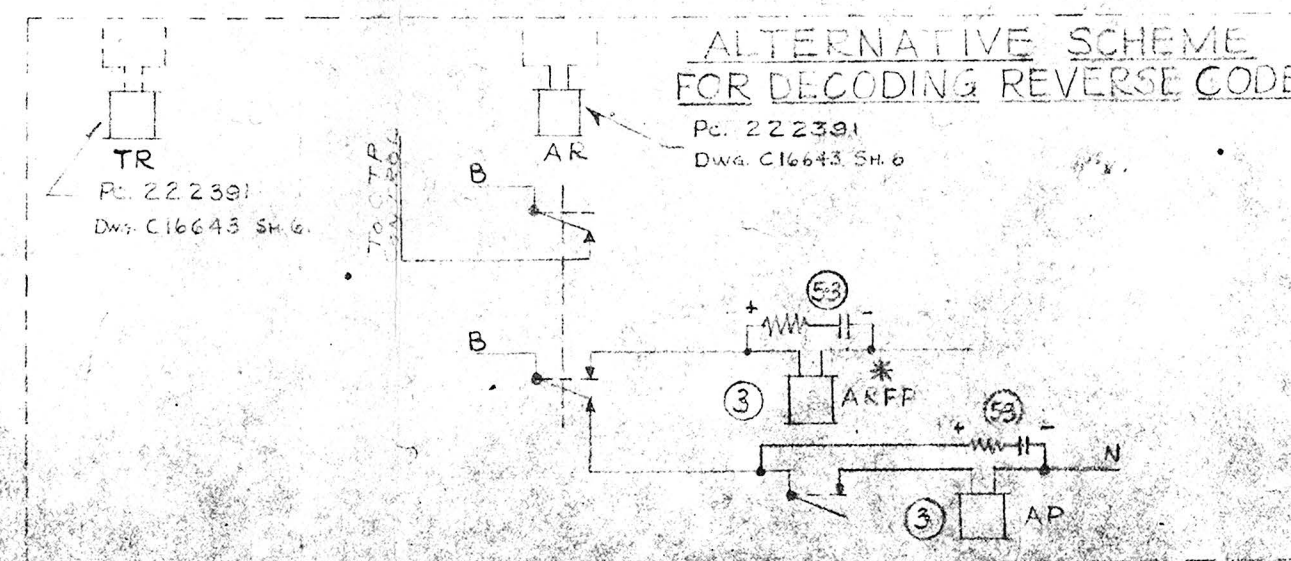
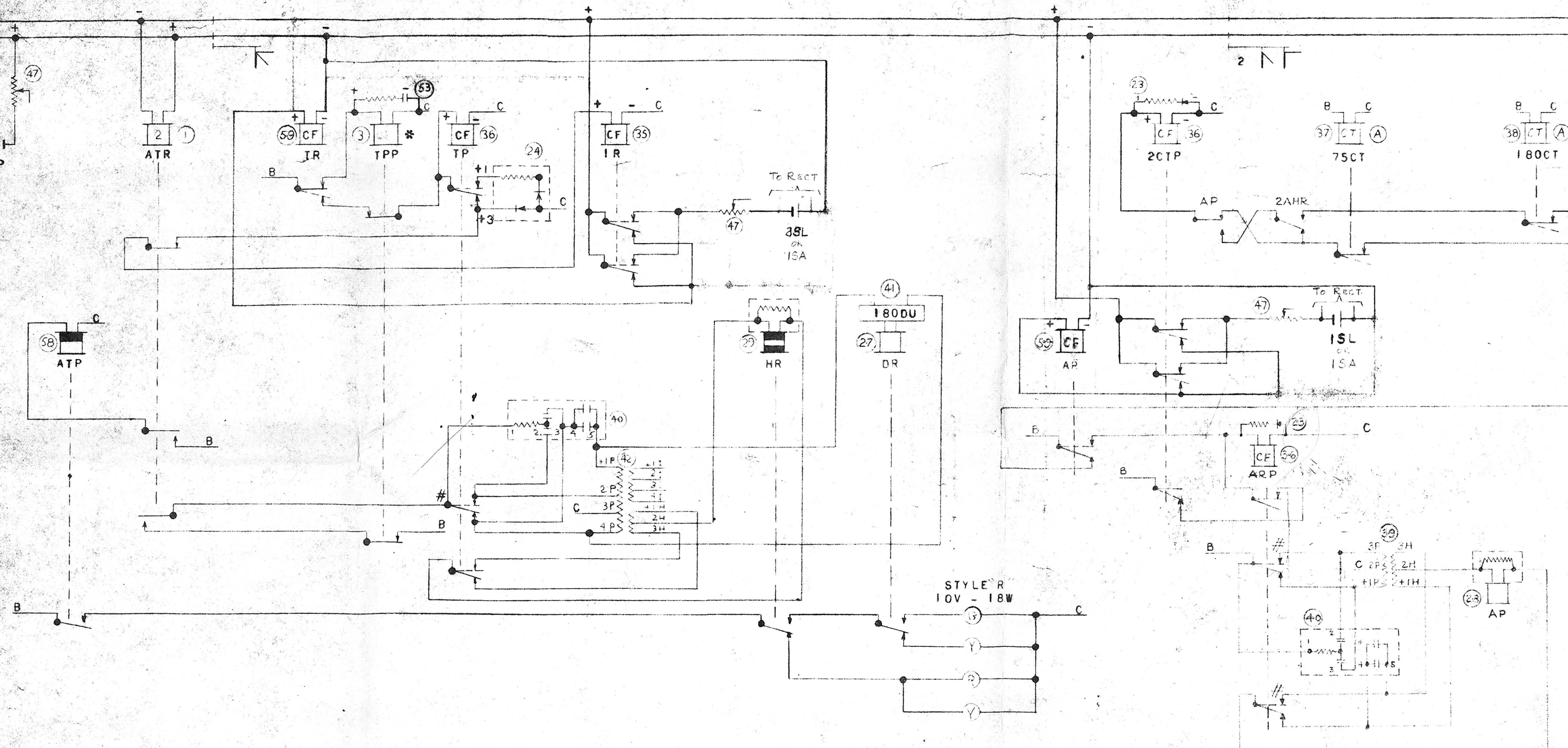
APPROVED: DATE: 11-13-47  
SHEETS: SHEET NO. 1A  
PROPOSED REVISION TO: M 23

(Note B)

MAX. 11,000 FT.

NON-CODED  
TRACK CIRCUIT

CODED TRACK CIRCUIT WITH  
CODED REVERSE CIRCUIT



C — 13P — B  
LOCAL BATTERY