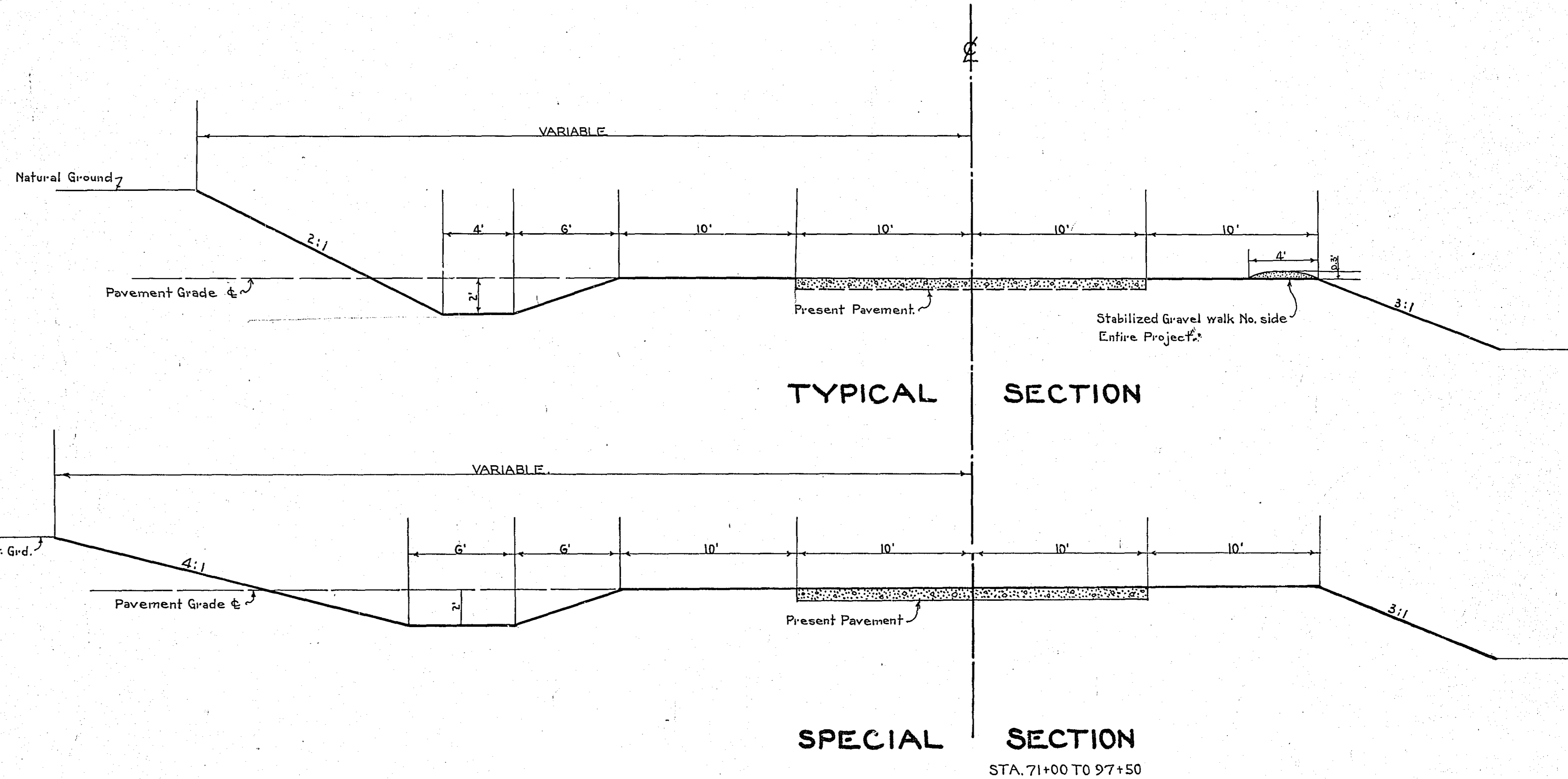


STATEMENT OF ESTIMATED QUANTITIES

| CLASS                 | ITEM | UNIT                       | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | MILE From To | TOTAL ESTIMATED QUANTITIES |
|-----------------------|------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------------|
| GRADING               | 1    | Clearing                   | Trees        |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Grubbing                   | Trees        |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Clearing                   | Acres        |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Grubbing                   | Acres        |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    | Excavation Earth           | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    | Excavation Loose Rock      | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    | Excavation Solid Rock      | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    | Excavation Overhaul        | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 9    | Excavation Special         | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 10   | Excavation Hand Ditch      | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 11   | Install 12" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 12   | Install 15" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 13   | Install 18" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 14   | Install 24" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 15   | Install                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 16   | Install                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 17   | Install 18" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 18   | Install 24" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 19   | Install 30" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 20   | Install 36" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 21   | Install                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 22   | Install                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 23   | Remove Old Culvert         | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 24   | Replace Old Culvert        | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 25   | Finishing and Seeding      | 100 Sq.Yds.  |              |              |              |              |              |              |              |              |              |                            |
|                       | 26   | Rubble Gutter              | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 27   | Headwall Concrete          | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 28   | Headwall Steel             | Lbs.         |              |              |              |              |              |              |              |              |              |                            |
| 29                    |      |                            |              |              |              |              |              |              |              |              |              |              |                            |
| 30                    |      |                            |              |              |              |              |              |              |              |              |              |              |                            |
| 31                    |      |                            |              |              |              |              |              |              |              |              |              |              |                            |
| 32                    |      |                            |              |              |              |              |              |              |              |              |              |              |                            |
| C.M. CULVERTS         | 1    | Furnish 12" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Furnish 15" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Furnish 18" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Furnish 24" C.M.           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    | Furnish                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    | Furnish                    | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    | Furnish 12" C.M. Bond      | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    | Furnish 15" C.M. Bond      | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 9    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 10   |                            |              |              |              |              |              |              |              |              |              |              |                            |
| P3 CULVERTS           | 1    | Furnish 18" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Furnish 24" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Furnish 30" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Furnish 36" P3             | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    |                            |              |              |              |              |              |              |              |              |              |              |                            |
| GUARD RAIL P3         | 1    | Guard Rail - Cable         | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Guard Rail Anchors         | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Dummy Posts                | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    |                            |              |              |              |              |              |              |              |              |              |              |                            |
| SIDEWALKS AND CURBING | 1    | Concrete Curb - Straight   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Concrete Curb - Radius     | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Remove Old Curb            | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Remove Old Curb and Gutter | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    | Remove Old Sidewalk        | Sq. Ft.      |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    | Replace Old Sidewalk       | Sq. Ft.      |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    | Construct New Sidewalk     | Sq. Ft.      |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    | Curb Inlet                 | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 9    | Catch Basin Complete       | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 10   |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 11   |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 12   |                            |              |              |              |              |              |              |              |              |              |              |                            |
| SEWER                 | 1    | 12" Vitrified Sewer Pipe   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | 15" Vitrified Sewer Pipe   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | 18" Vitrified Sewer Pipe   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | 20" Vitrified Sewer Pipe   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    | 24" Vitrified Sewer Pipe   | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    | Manhole Complete           | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    | Catch Basin Complete       | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 9    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 10   |                            |              |              |              |              |              |              |              |              |              |              |                            |
| PAVEMENT              | 1    | Pavement - 1 Course Conc.  | Sq. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Pavement - Asphaltic Conc. | Sq. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Integral Curb 8"           | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Integral Curb 12"          | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    | Surface Drain              | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    | Surface Drain Basin        | Each         |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    | Shoulders - Earth          | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    |                            |              |              |              |              |              |              |              |              |              |              |                            |
| STRUCTURES            | 1    | Concrete                   | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 2    | Reinforcing Steel          | Lbs.         |              |              |              |              |              |              |              |              |              |                            |
|                       | 3    | Excavation                 | Cu. Yds.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 4    | Piling                     | Lin. Ft.     |              |              |              |              |              |              |              |              |              |                            |
|                       | 5    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 6    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 7    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 8    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 9    |                            |              |              |              |              |              |              |              |              |              |              |                            |
|                       | 10   |                            |              |              |              |              |              |              |              |              |              |              |                            |

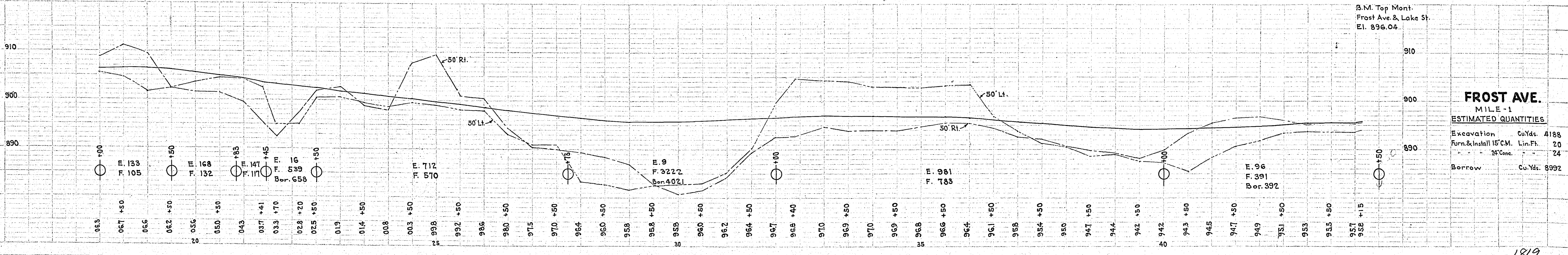
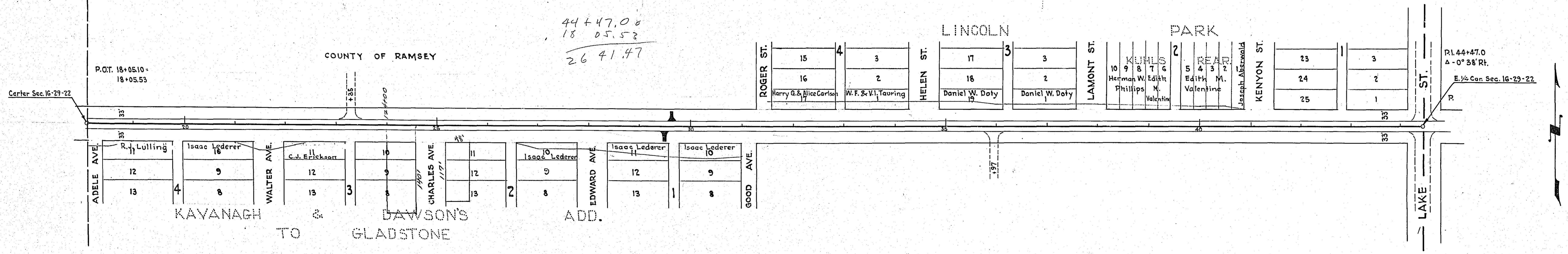
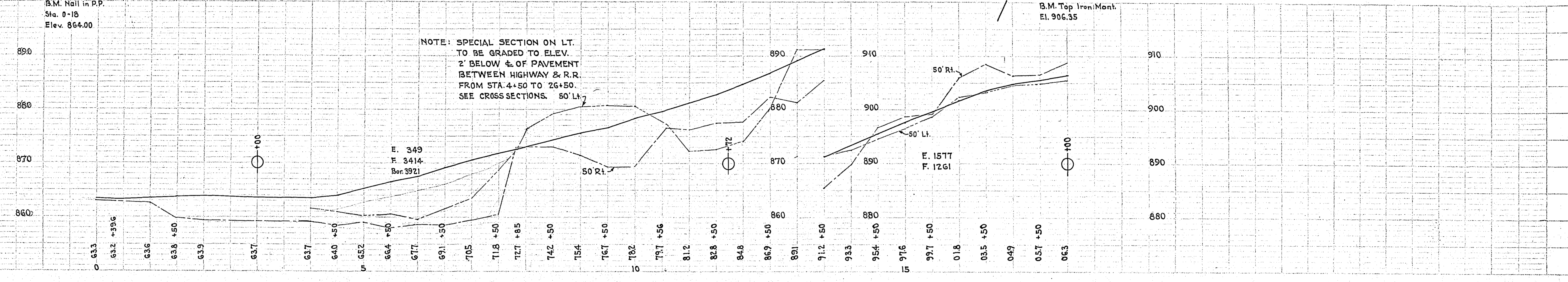
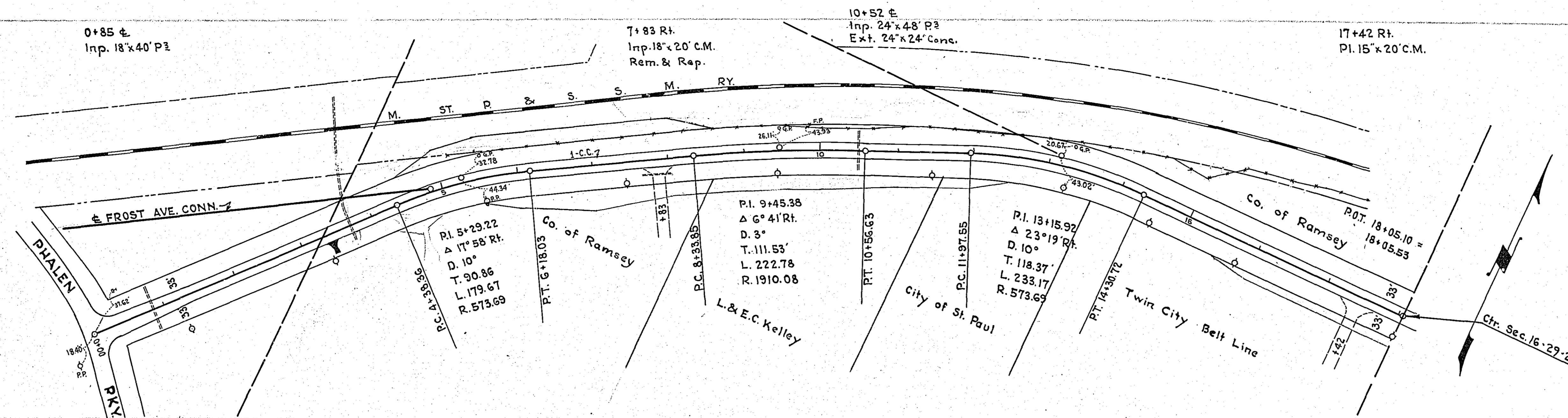
DETAILS



OFFICE OF  
 RAMSEY COUNTY SURVEYOR  
 EMIL H. SCHULZ  
 WIDENING PLAN FOR  
**FROST AVENUE**  
 FROM PHALEN PARKWAY  
 TO WHITE BEAR AVENUE  
 DEC. 1936

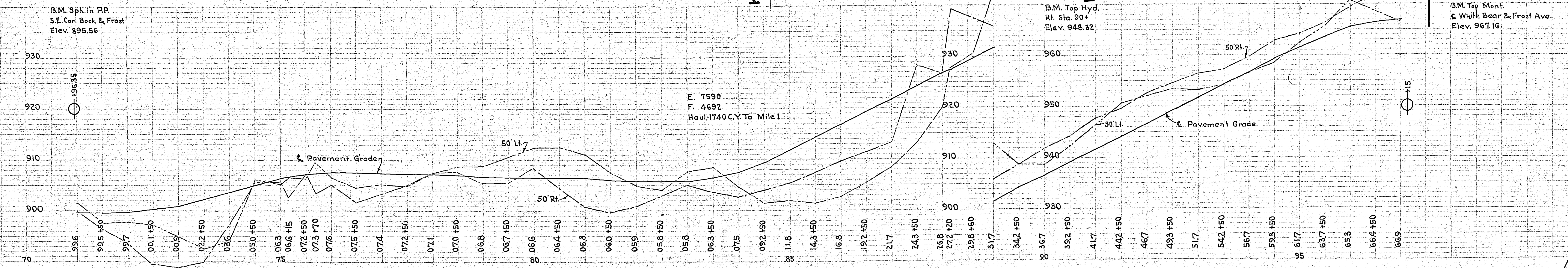
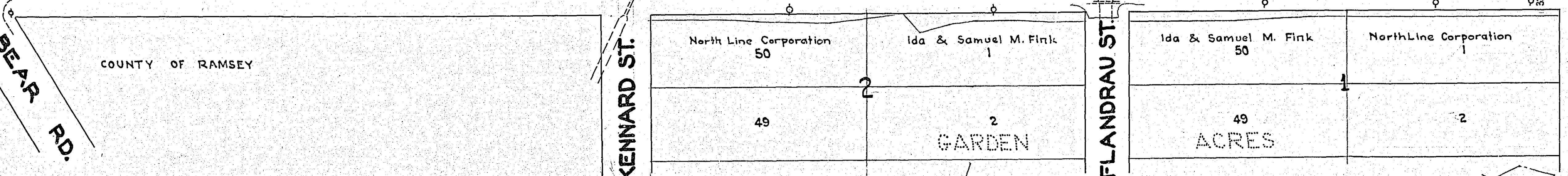
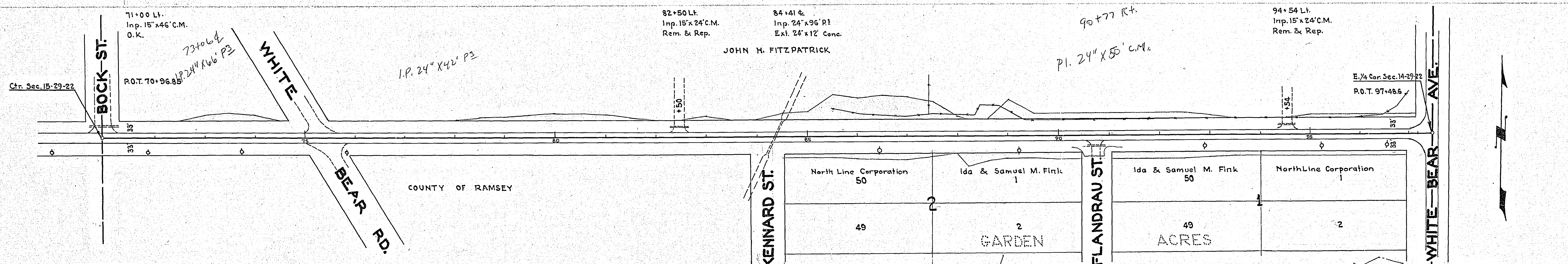
PLAN  
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1819  
 FROST AVE