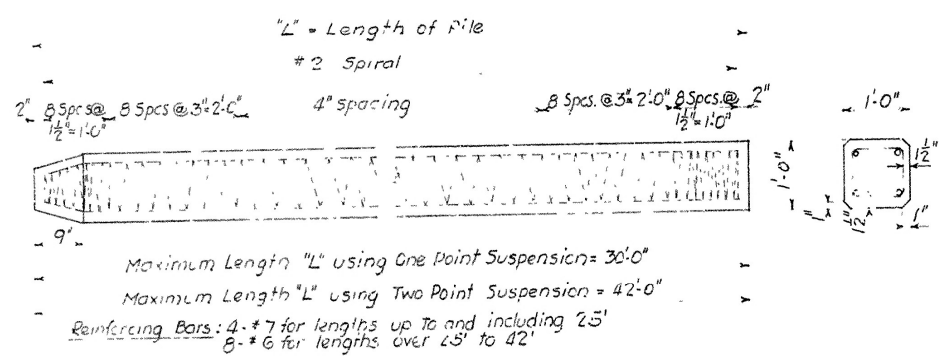


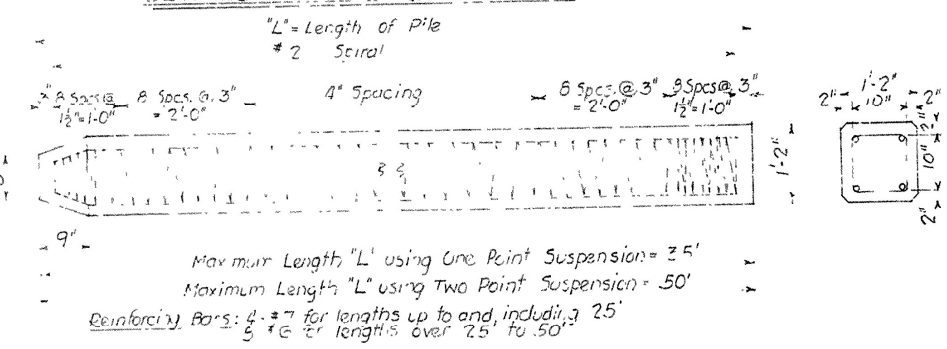




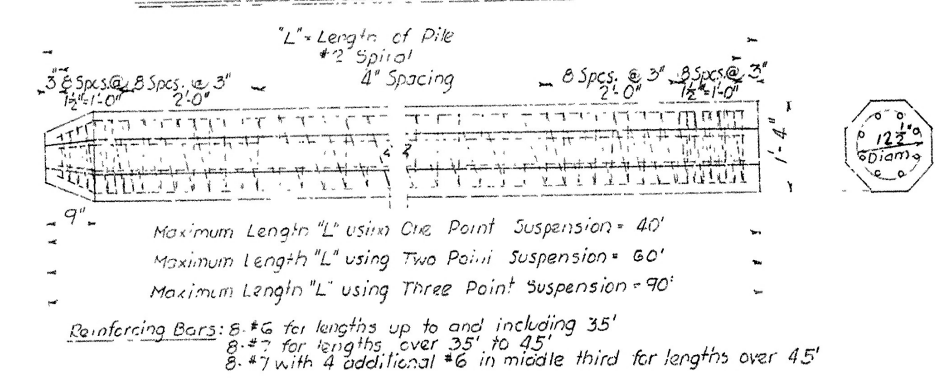




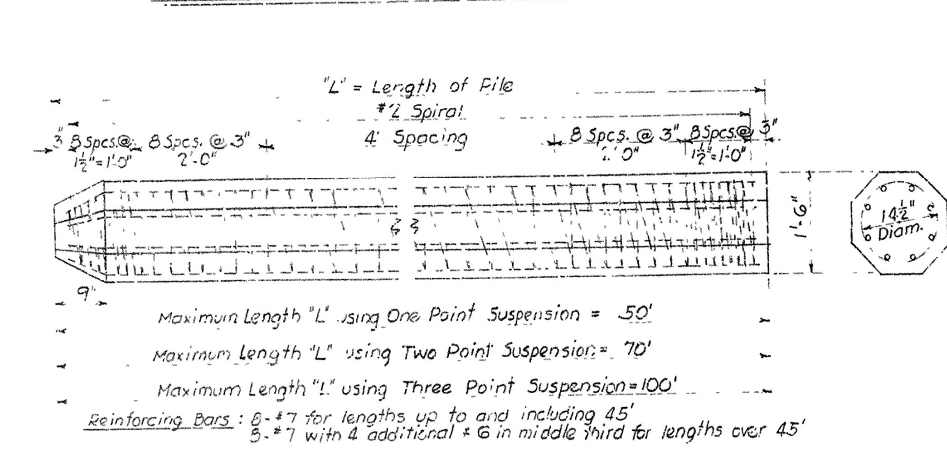
DETAILS OF 12" SQUARE PILE



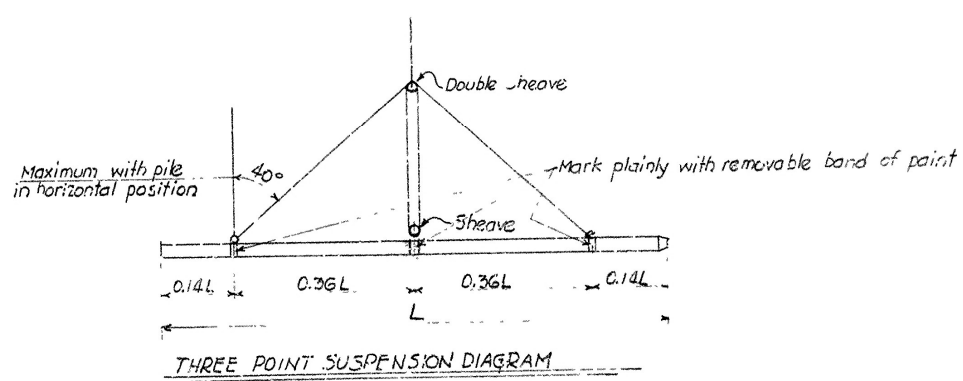
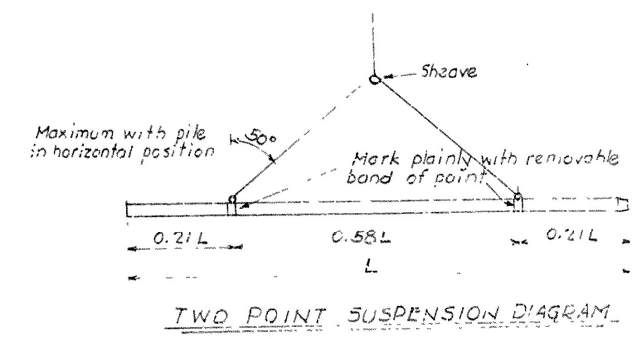
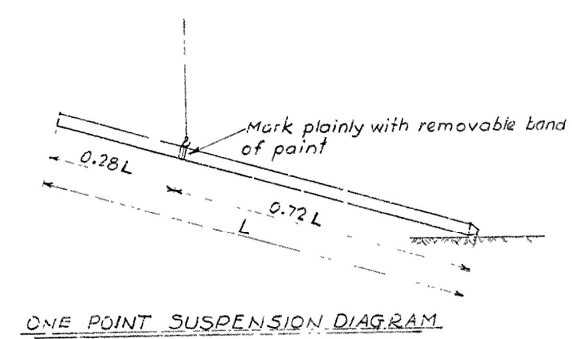
DETAILS OF 14" SQUARE PILE



DETAILS OF 16" OCTAGONAL PILE



DETAILS OF 18" OCTAGONAL PILE



Prestressing Alternate:-

As an alternate to the reinforcement shown, these piles may be prestressed by the use of steel strands of high tensile cold-drawn uncoated stress-relieved wire strands having an ultimate tensile strength of not less than 250,000 p.s.i. and an elongation at rupture of not less than 3% in 10"; number and size of strands and prestressing load to be as follows:-

| Pile Size     | Wire Strands<br>No. Nominal Dia. | *Prestressing Force<br>Per Strand |
|---------------|----------------------------------|-----------------------------------|
| 12" Square    | 8 3/16"                          | 10150*                            |
| 14" Square    | 12 3/16"                         | 10150*                            |
| 16" Octagonal | 12 3/8"                          | 14000*                            |
| 18" Octagonal | 16 3/8"                          | 14000*                            |

\* Prestressing force to be not more than 0.7 of the ultimate value of strand.

To permit splicing for buildup, where necessary, of prestressed piles, reinforcing as shown in details shall be provided in butt end of pile for a length of 5' and 6' for No. 6 & No. 7 bars respectively.

GENERAL NOTES

All concrete to be Class "S"  
Longitudinal reinforcing steel shall be deformed bars of intermediate grade, unless otherwise modified by Special Provisions. Spiral shall be formed from plain round billet steel reinforcing bars.  
SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1959.

Revisions:-  
Provisions for prestressing 1-6-58 H.S.  
Prestressing strands, forces 4-14-58 H.B.  
Number Prestressing Strands 16" Pile 10-31-58 H.B.  
General Notes 2-26-60 A.J.

DETAILS OF STANDARD PRECAST CONCRETE PILES

ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: L.W.H. DATE: 7-26-56  
TRACED BY: J.A. DATE: 4-17-58  
CHECKED BY: D.L.K. DATE: 7-27-56  
REVIEWED BY: J.M. DATE: 4-2-58  
BRIDGE NO. DRAWING NO. 2382

J.P. Carlson  
BRIDGE DESIGN ENGINEER

See Revised 5-22-61