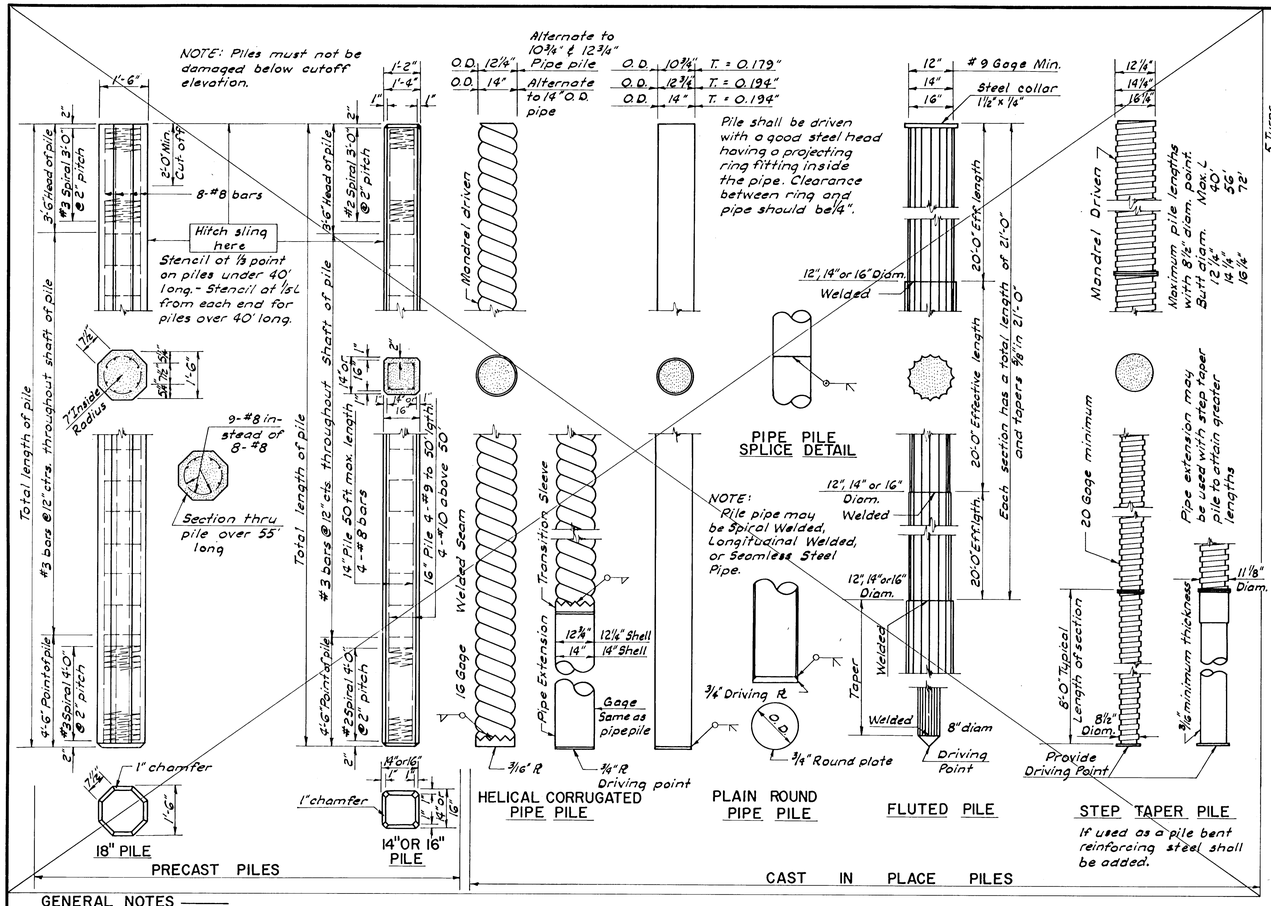
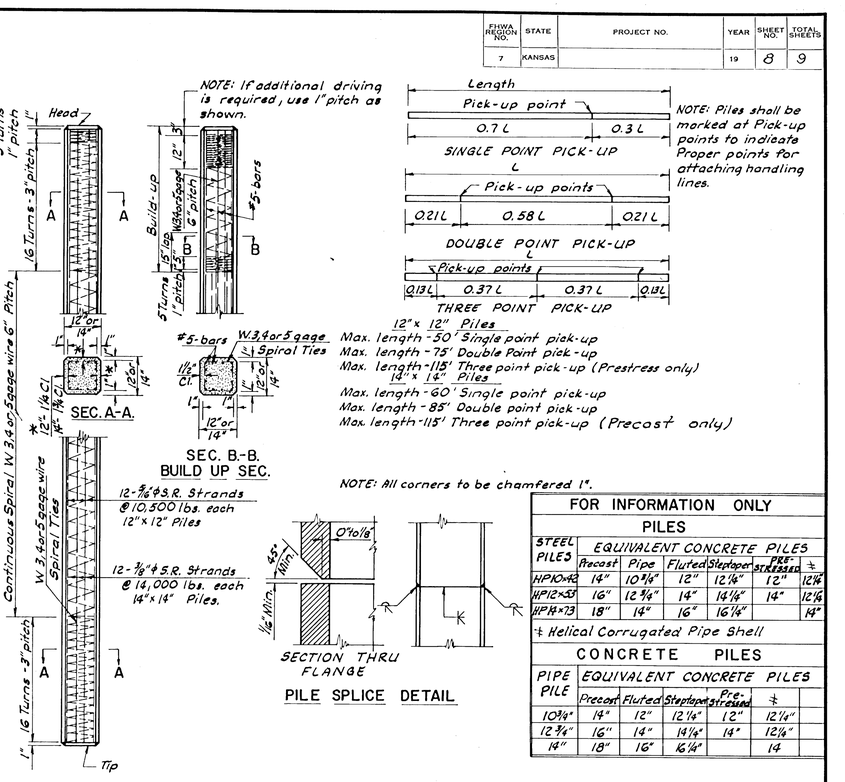




FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		19	8	9

FOR INFORMATION ONLY

PILES

STEEL PILES	EQUIVALENT CONCRETE PILES					
	Precast	Pipe	Fluted	Steptaper	Pre-stressed	‡
HP10×42	14"	10¾" ϕ	12"	12¼"	12"	12¼"
HP12×53	16"	12¾" ϕ	14"	14¼"	14"	12¼"
HP14×73	18"	14" ϕ	16" ϕ	16¼" ϕ		14"

‡ Helical Corrugated Pipe Shell

CONCRETE PILES

PIPE PILE	EQUIVALENT CONCRETE PILES					
	Precast	Fluted	Steptaper	Pre-stressed	‡	
10¾" ϕ	14"	12"	12¼"	12"	12¼"	
12¾" ϕ	16"	14"	14¼"	14"	12¼"	
14" ϕ	18"	16" ϕ	16¼" ϕ		14	

GENERAL NOTES

1. *Specifications:*
   Standard Specifications for State Road and Bridge Construction as currently used by the State Highway Commission of Kansas. (Ed. 1973).
2. *Concrete:*
   Concrete for cast-in-place shall be Class A concrete. f'c = 3,000 p.s.i. See Sub-Article 703.01 (f)(2) Standard Specifications.
   Concrete for Precast and for Prestressed shall be Class AAA concrete f'c = 4,000 p.s.i. See Article 703.01 (a) Standard Specifications.
3. *Reinforcement:*
   Reinforcing bars shall be new billet steel A.S.T.M. Designation A-615 grade 40 without exception. Hoops and spirals may be either plain or deformed bars. See Sub-Section 1006.01 Standard Specifications.
4. *Precast Piles:*
   Precast piles shall conform to the requirements of Article 703.07 (a)(b)(c)(d) Standard Specifications.
5. *Cast-in-Place Shells:*
   Steel shells for Cast-in-Place Concrete Piles shall conform to the requirements of Sub-Section 1006.06 Standard Specifications.
   All piles driven without mandrel shall be of the minimum gages or thicknesses shown above, except fluted pile use No. 9 gage minimum. Piles driven with mandrel shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to soil pressure after the mandrel is removed.
   Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer, or the driving of an additional pile at no extra cost.
   The contractor shall maintain on the job at all times prior to and during the filling of the shells, a light suitable for visual inspection of the pile.
6. *Steel Pile:*
   Steel pile shall conform to requirements of Article 1006.04 (e) Standard Specifications.
7. *Pile Points:*
   Pile points shall conform to the dimensions shown and requirements of Sub-Article 1006.06 (b)(3) Standard Specification. Pile points shall be mill welded to pile.
8. *Welding:*
   All field welding shall meet the requirements of Sub-Section 703.06 Standard Specifications.
9. *Paint:*
   All paint shall comply with Sub-Section 1008.06 Standard Specifications, or as specified on the plans.
10. *Test Piles:*
    Test Piles shall be driven where called for on the Bridge plans. The test piles located within the limits of the substructure will become a part of the Bridge Pile System.
11. *Splices:*
    Splices for Steel Piles and Shell Piling shall be in accordance with details shown on this sheet and shall comply with Sub-Section 703.06 Standard Specifications.
    Precast Concrete Pile splices shall comply with Sub-Article 703.07 (g)(1) Standard Specifications.
    Prestressed Concrete Pile splices shall be made in accordance with the manufacturers recommendations subject to the approval of the Engineer.
12. *Driving Formula:*
    Driving formula shall conform to Sub-Article 703.04 (d.)(3) Standard Specifications.
13. *Mill Test Reports:*
    Steel Piles test reports shall comply with Sub-Article 1006.04 (e.)(3) Standard Specifications.
    Steel Shells test reports for cast-in-place piles shall comply with Article 1006.06 (d.) Standard Specifications.
14. *Measurement and Payment:*
    Measurement for all piles shall comply with Sub-Section 703.08 Standard Specifications.
    Payment for all piles shall comply with Sub-Section 703.09 Standard Specifications.

NO.	DATE	REVISIONS	BY	APP'D
6	9-4-73	Revised for 1973 Const. Spec.	G.F.K.	E.E.W.
5	8-26-66	Revise Entire Gen. Note	J.C.L.	E.E.W.
4	4-8-64	Add Longitudinal Welded Pipe Pile	J.C.L.	T.W.O.
3	4-4-61	Revise Choice of Pile Note. Abuts.	J.C.L.	T.W.O.
2	3-27-61	Revise Pipe Pile General Note	J.C.L.	T.W.O.
1	1-24-61	Remove Hole in Prestressed Conc. Pile	J.C.L.	T.W.O.

STATE HIGHWAY COMMISSION OF KANSAS

STANDARD PILE DETAILS

STD. NO. 102

SHEET NO. 8 OF 9	SCALE	APP'D
DESIGNED	DETAILED	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.
		TRACED Kocl
		TRACE CK.