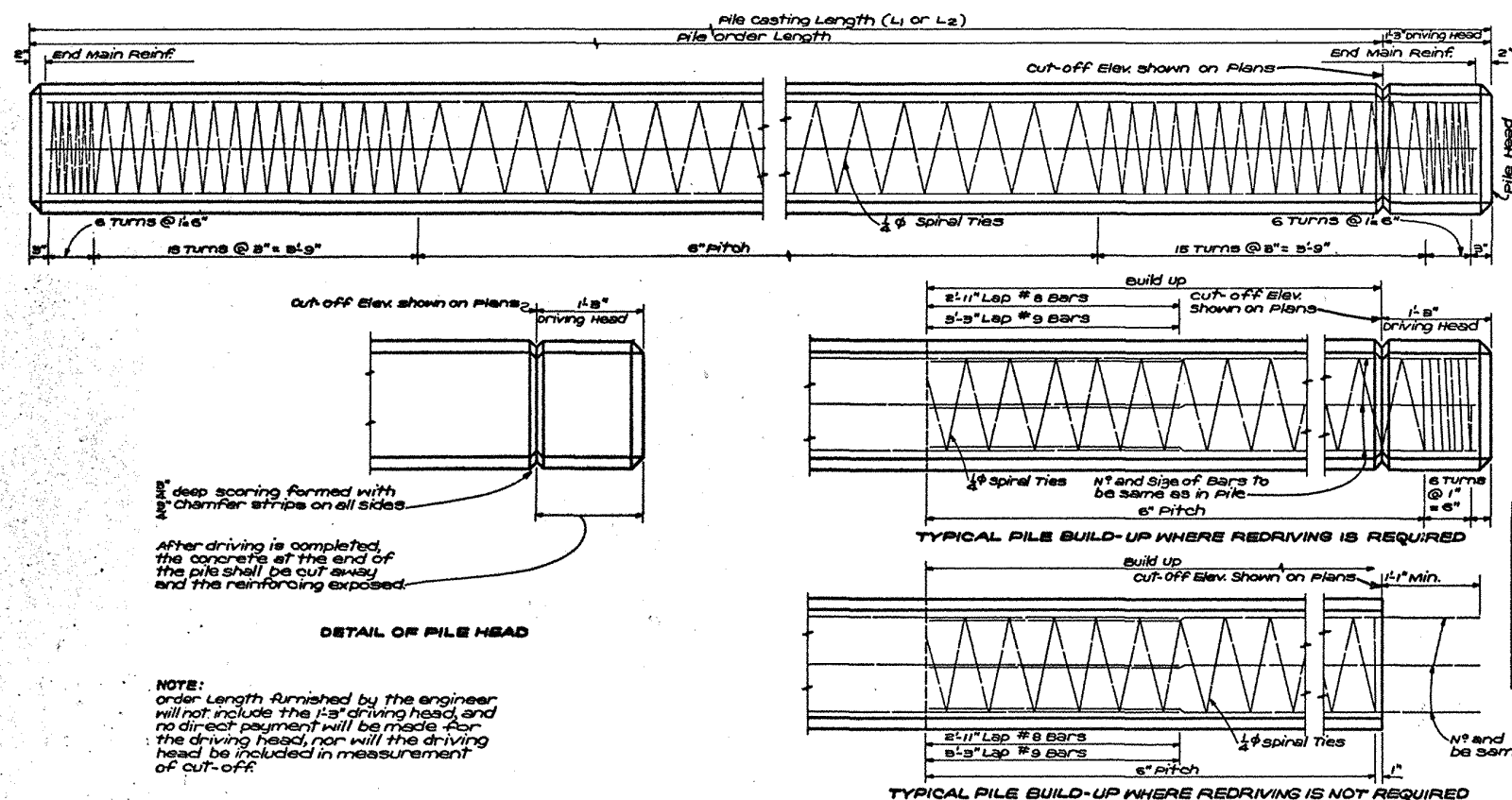




DETAILS OF 14-16 & 18 INCH SQ. PRECAST REINFORCED CONCRETE PILES

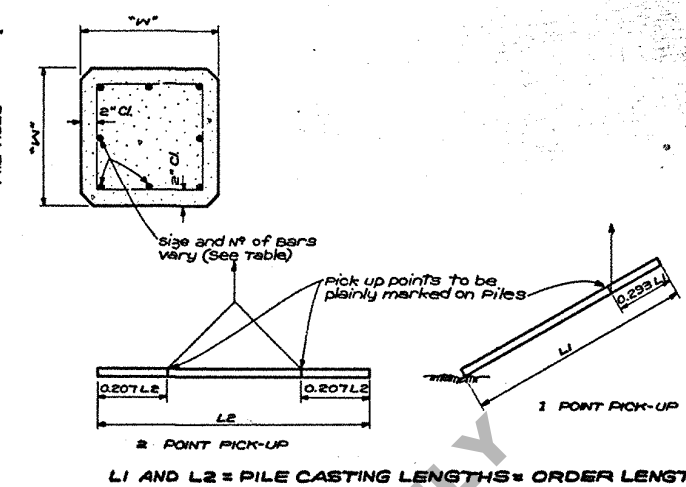
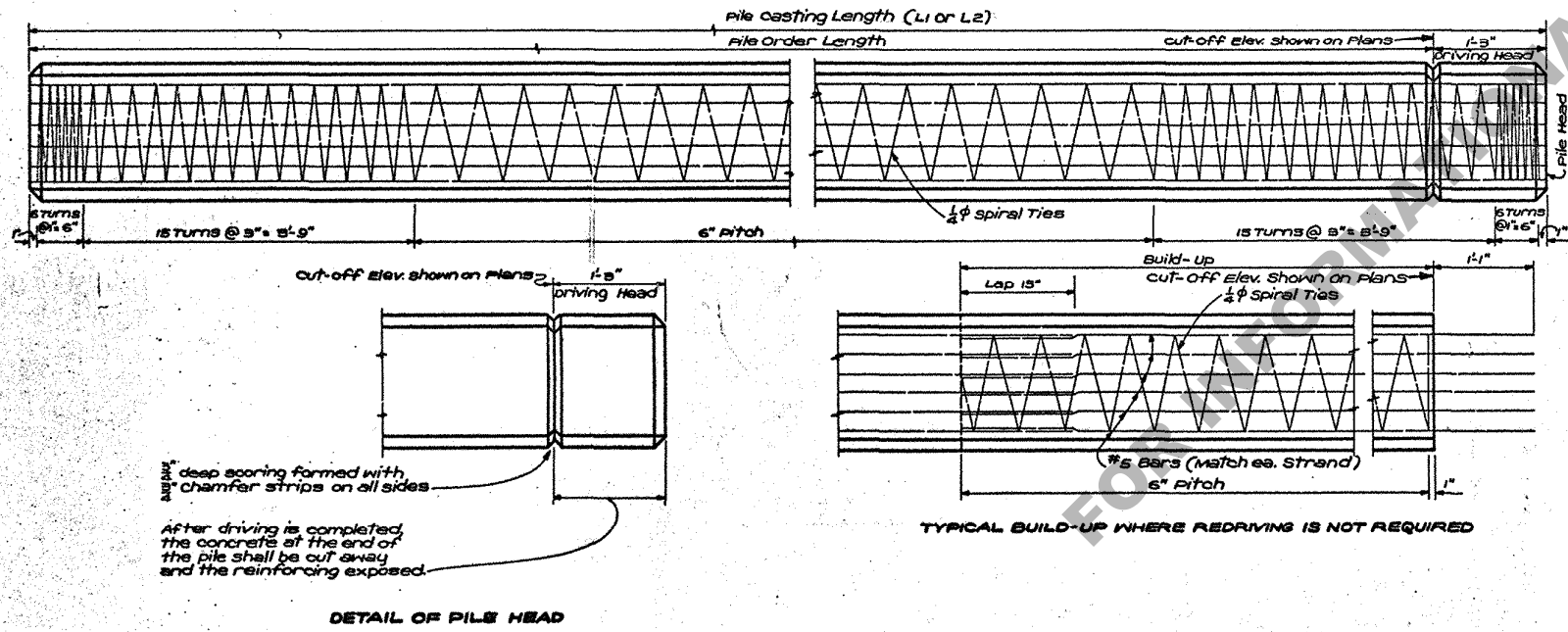


TABLE OF PILE ELEMENTS								
PILE SIZE "W" IN.	WEIGHT PER FT. LBS.	I (TRANS SECTION) IN. ⁴	KD IN.	SIZE OF REIN.	N° OF BARS EA. FACE	TOTAL N° OF BARS	MAXIMUM PILE CASTING LENGTHS 1 FT. PICK-UP L1	2 FT. PICK-UP L2
14	204	1149	5.82	#8	2	4	41'-3"	56'-3"
16	267	1716	4.00	#8	2	4	41'-3"	61'-3"
18	336	4298	5.59	#9	3	6	55'-3"	76'-3"

GENERAL NOTES: PRECAST REINFORCED CONCRETE PILES.
 Construction Specifications: Latest Approved L.S. Dept. of Hwy's. Std. Specs.
 Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1953 as amended to Dec. 31, 1955.
 Concrete to be class "A" or Class "V" concrete at the Contractor's option.
 Dimensions to Reinforcing steel are to Bar Faces.
 Deformed Reinforcing Steel to be intermediate or hard grade A.S.T.M. A15, or Rail steel A.S.T.M. A15 and shall conform to A.S.T.M. A305.
 1/4" Spiral Ties shall be intermediate, structural or hard grade A.S.T.M. A15.
 Two splices per bar will be permitted, but not more than two bars may be spliced at any section and no two bars may be spliced in one face at any section. The splices shall be not less than 4' on centers. The bars shall be lapped 35 diameters at each splice except that corner bars shall be butted together in line and spliced with a bar of equal size and not less than 10 diameters long.
 All exposed concrete corners to have 1/4" chamfer.
 Pick-up lengths have been computed using values of $f_s = 18000$ p.s.i. and $f_c = 1200$ p.s.i. with an allowance of 50% for impact, and are based on careful handling. Rotation of pile in the sling is to be prevented until pile is in near vertical position.
 Pick-up points for all piles to be clearly marked on pile. the Contractor will not be allowed to transport piles in trucks. the Contractor may use the Reinforced or prestressed pile at his option.



DETAILS OF 12-14-16 & 18 INCH SQ. PRECAST PRESTRESSED CONCRETE PILES

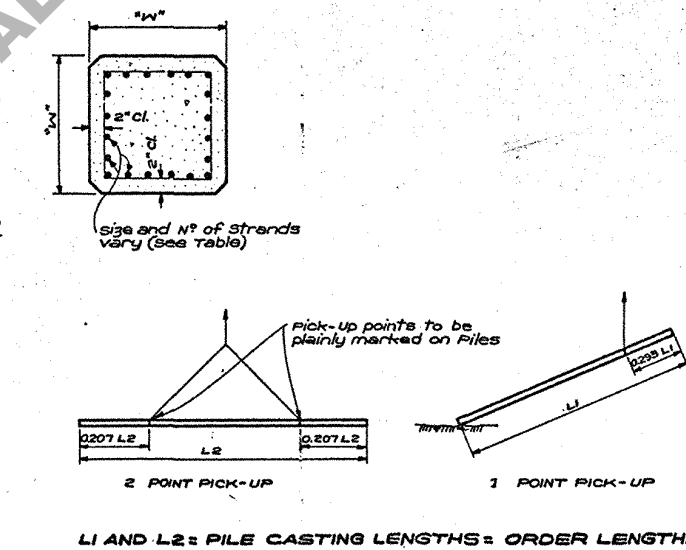


TABLE OF PILE ELEMENTS							
PILE SIZE "W" IN.	WEIGHT PER FT. LBS.	SECTION MODULUS IN. ³	SIZE OF STRANDS	N° OF STRANDS EA. FACE	TOTAL N° OF STRANDS	MAXIMUM PILE CASTING LENGTHS 1 FT. PICK-UP L1	2 FT. PICK-UP L2
12	150	268	3/16	4	12	36'-3"	51'-3"
14	204	457	3/8	4	12	41'-3"	56'-3"
16	267	688	3/8	5	16	41'-3"	61'-3"
18	336	972	3/8	6	20	55'-3"	76'-3"

GENERAL NOTES: PRECAST PRESTRESSED CONCRETE PILES.
 Construction Specifications: Latest Approved L.S. Dept. of Hwy's. Std. Specs.
 Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1953 as amended to Dec. 31, 1955.
 Concrete shall be class "P" concrete. The use of Light Weight Aggregates will be permitted.
 Dimensions to reinforcement are to Bar Faces.
 1/4" Spiral Ties shall be intermediate, structural or hard grade A.S.T.M. A15.
 Pre-tensioning steel shall consist of 7-wire stress relieved cable strands.
 An initial tensile force of 14000 pounds shall be applied to each 3/4" strand and 10150 pounds shall be applied to each 5/8" strand.
 All exposed concrete corners to have 1/4" chamfer.
 Pick-up lengths have been computed on basis of no tension in the concrete with an allowance of 50% for impact and are based on careful handling.
 Rotation of pile in the sling is to be prevented until pile is in near vertical position.
 Pick-up points for all piles to be clearly marked on pile. Piles may be made at a Central Plant and transported to the Bridge Site in trucks. the Contractor may use the Reinforced or prestressed pile at his option.

VOID
Revised
Notes

STANDARD PLAN
 12-14-16 AND 18 INCH PRECAST
 CONCRETE PILES
 (REINFORCED OR PRESTRESSED)

DATED Sept. 5, 1957

STATE OF LOUISIANA
 DEPARTMENT OF HIGHWAYS

DESIGNED <i>Blaylock</i>	DETAILED <i>Blaylock</i>	TRACED <i>A. Chalmers</i>
CHECKED <i>Blaylock</i>	CHECKED <i>Blaylock</i>	CHECKED <i>Blaylock</i>
BRIDGE DESIGN SECTION		