

STATE	PROJECT	PARTIAL	SHEET
			NY

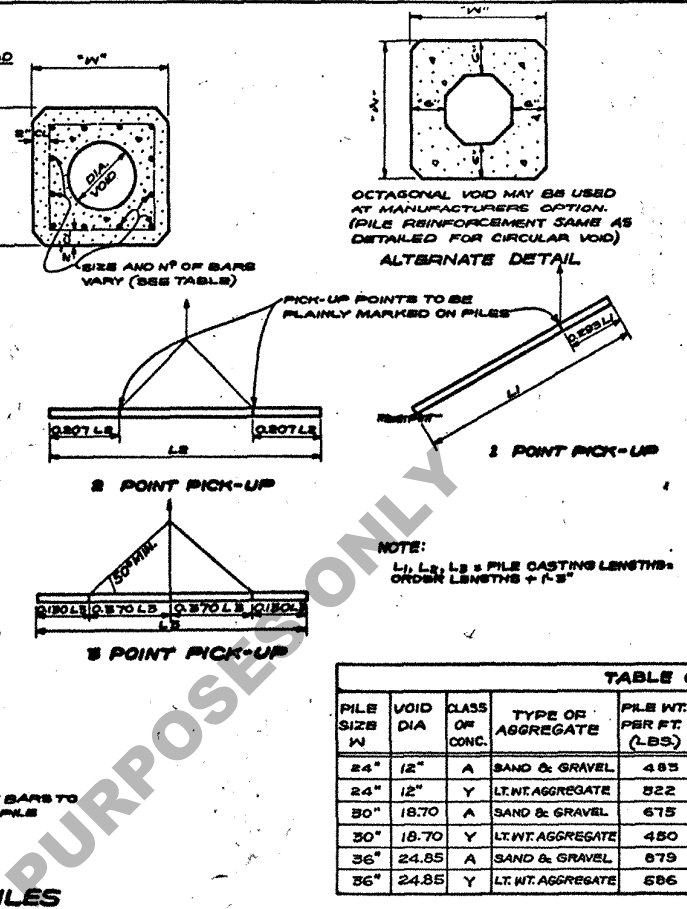
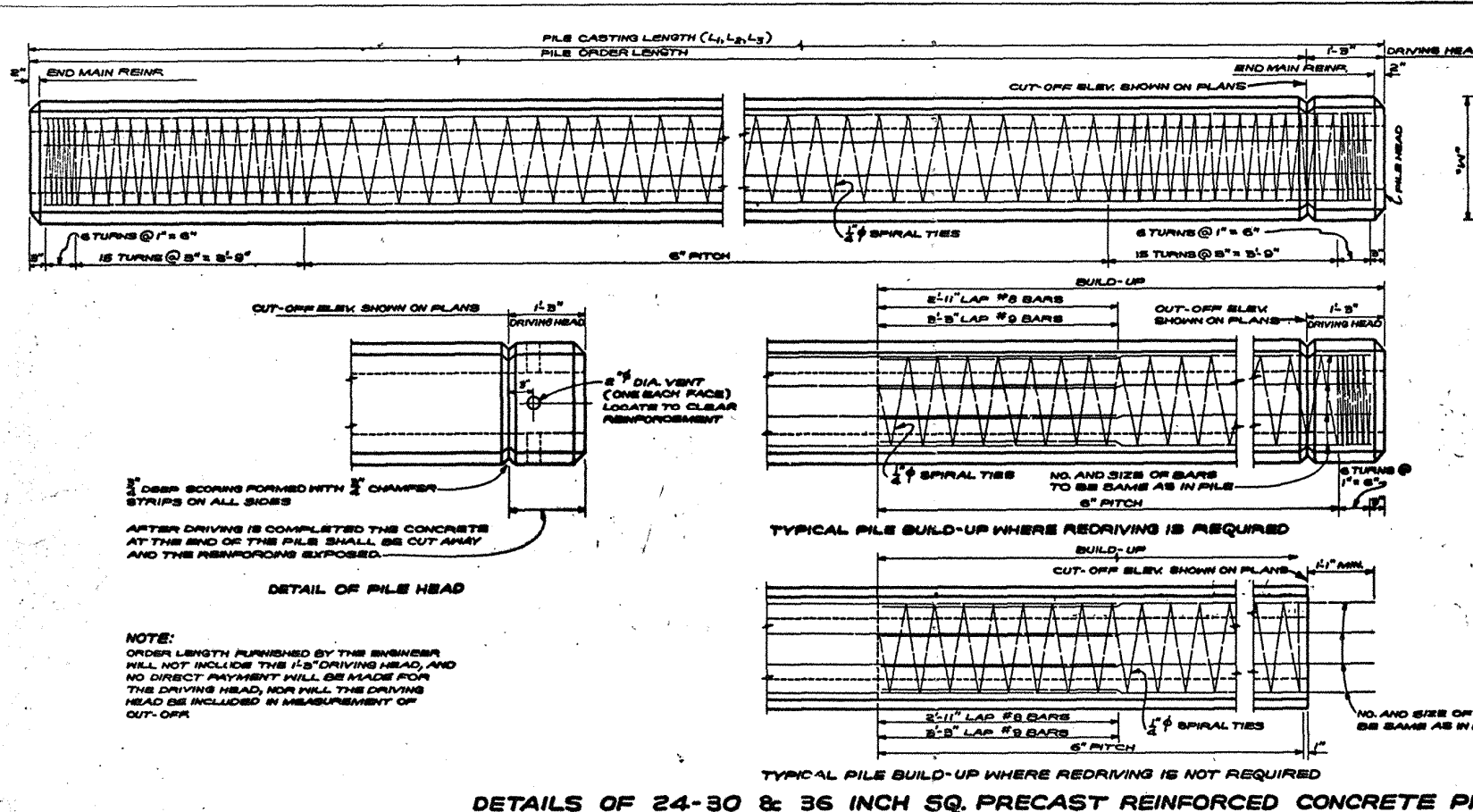


TABLE OF PILE ELEMENTS										
PILE SIZE W	VOID DIA	CLASS OF CONC.	TYPE OF AGGREGATE	PILE WT. PER FT. (LBS.)	SIZE OF REINFR.	N° OF BARS ON SURFACE	TOT. N° OF BARS	MAXIMUM PILE LENGTHS		
								1 PT. PICK-UP L ₁ (FT.)	2 PT. PICK-UP L ₂ (FT.)	3 PT. PICK-UP L ₃ (FT.)
24"	12"	A	SAND & GRAVEL	483	#9	4	12	56'-3"	81'-3"	101'-5"
24"	12"	Y	LT.WT.AGGREGATE	522	#9	4	12	71'-3"	96'-3"	126'-3"
30"	18.70	A	SAND & GRAVEL	675	#8	5	16	61'-3"	86'-3"	121'-3"
30"	18.70	Y	LT.WT.AGGREGATE	450	#8	5	16	76'-3"	106'-3"	136'-3"
36"	24.85	A	SAND & GRAVEL	879	#8	6	20	66'-3"	96'-3"	121'-3"
36"	24.85	Y	LT.WT.AGGREGATE	586	#8	6	20	81'-3"	116'-3"	151'-3"

GENERAL NOTES: PRECAST REINFORCED CONC. PILES

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED L.A. DEPT. OF HWY'S. STD. SPEC'S.

DESIGN SPECIFICATIONS: A.A.S.H.O. STD. SPEC'S. FOR HWY. BRIDGES 1957 AS AMENDED TO DEC. 31, 1958.

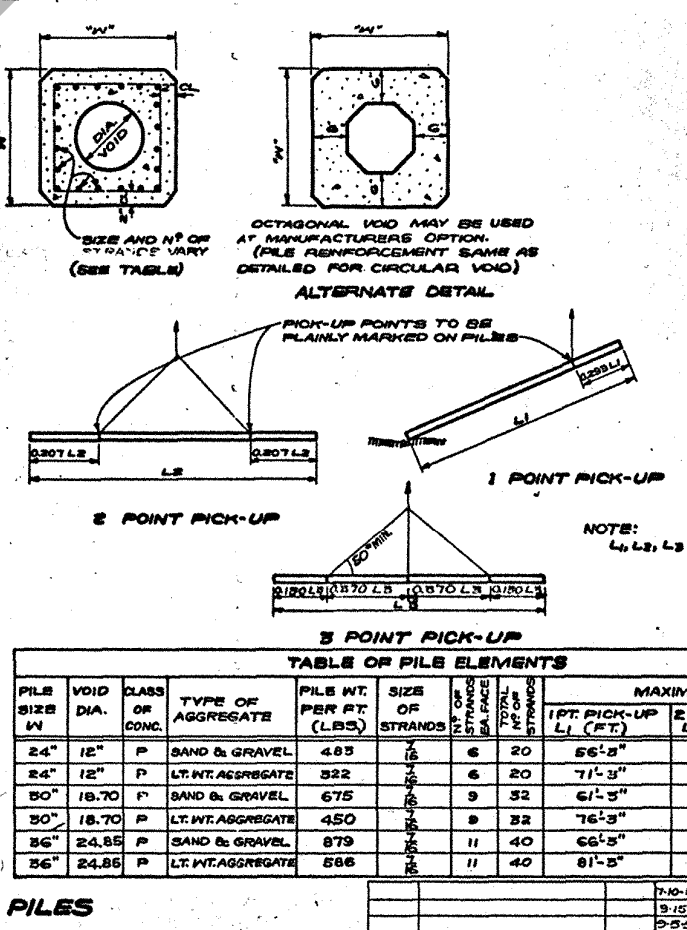
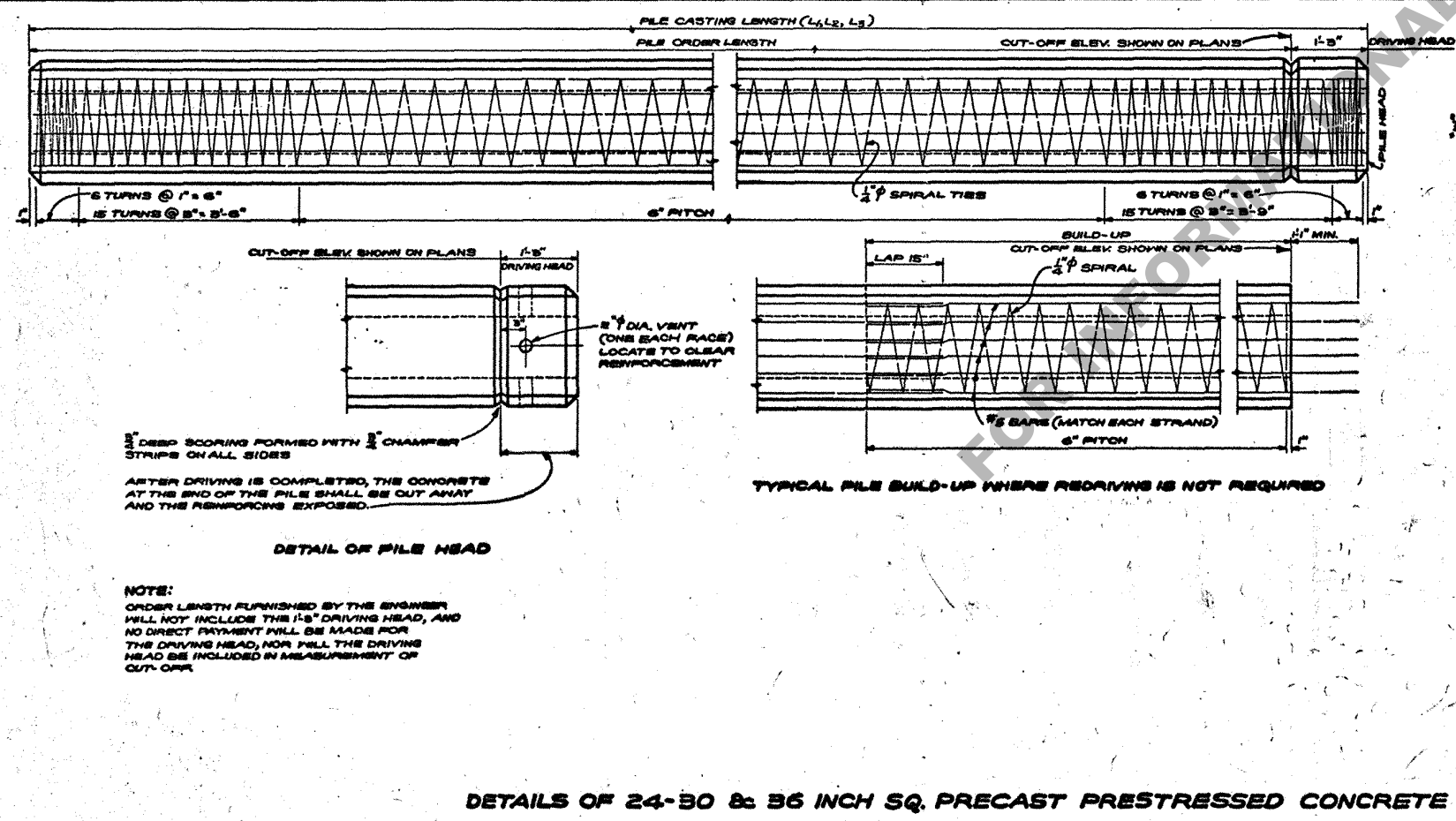
CONCRETE TO BE CLASS "Y" CONCRETE OR CLASS "A" CONCRETE. DIMENSIONS TO REINFORCING STEEL ARE TO BAR FACES. DEFORMED REINFORCING STEEL TO BE INTERMEDIATE OR HARD GRADE A.S.T.M. A16, OR RAIL STEEL A.S.T.M. A16 AND SHALL CONFORM TO A.S.T.M. A305.

1" SPIRAL TIES SHALL BE INTERMEDIATE, STRUCTURAL OR HARD GRADE A.S.T.M. A16.

SPLICES OF REINFORCEMENT BARS WILL NOT BE PERMITTED IN PILES UNDER 40' IN LENGTH. ONE SPLICE PER BAR WILL BE PERMITTED IN PILES 40' UP TO 65' IN LENGTH AND TWO SPLICES PER BAR WILL BE PERMITTED IN PILES OVER 65' LONG. NOT MORE THAN TWO BARS MAY BE SPLICED AT ANY SECTION; ONLY ONE BAR IN ANY FACE OF THE PILE MAY BE SPLICED AT ONE SECTION; THE SPLICES SHALL BE NOT LESS THAN 4'-0" ON CENTERS; THE BARS SHALL BE LAPPED 25 DIAMETERS AT EACH SPLICE, EXCEPT THAT CORNER BARS TO BE SPLICED SHALL BE BUTTED TOGETHER IN LINE AND SPLICED WITH ANOTHER BAR OF EQUAL SIZE NOT LESS THAN 25 DIAMETERS LONG.

ALL EXPOSED CONCRETE CORNERS TO HAVE 1/2" CHAMFER. PICK-UP LENGTHS HAVE BEEN COMPUTED USING VALUES OF $f'_c = 15,000$ P.S.I. AND $f'_s = 120,000$ 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 MAY USE THE REINFORCED OR PRESTRESSED PILE AT HIS OPTION.



8 POINT PICK-UP										
TABLE OF PILE ELEMENTS										
PILE SIZE W	VOID DIA.	CLASS OF CONC.	TYPE OF AGGREGATE	PILE WT. PER FT. (LBS.)	SIZE OF STRANDS	N° OF STRANDS BLANK	TOTAL N° OF STRANDS	MAXIMUM PILE LENGTHS		
								1PT. PICK-UP L ₁ (FT.)	2 PT. PICK-UP L ₂ (FT.)	3 PT. PICK-UP L ₃ (FT.)
24"	12"	P	SAND & GRAVEL	483	#6	6	20	56'-5"	81'-5"	101'-5"
24"	12"	P	LT. WT. AGGREGATE	522	#6	6	20	71'-5"	96'-5"	126'-5"
30"	18.70	P	SAND & GRAVEL	675	#5	9	32	61'-5"	86'-5"	121'-5"
30"	18.70	P	LT. WT. AGGREGATE	450	#5	9	32	76'-5"	106'-5"	136'-5"
36"	24.85	P	SAND & GRAVEL	879	#5	11	40	66'-5"	96'-5"	121'-5"
36"	24.85	P	LT. WT. AGGREGATE	586	#5	11	40	81'-5"	116'-5"	151'-5"

GENERAL NOTES: PRECAST PRESTRESSED CONCRETE PILES

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED L.A. DEPT. OF HWY'S. STD. SPEC'S.

DESIGN SPECIFICATIONS: A.A.S.H.O. STD. SPEC'S. FOR HWY. BRIDGES 1957 AS AMENDED TO DEC. 31, 1958.

CONCRETE SHALL BE CLASS "P" CONCRETE. GRAVEL & SAND OR LIGHTWEIGHT AGGREGATES MAY BE USED AT THE CONTRACTOR'S OPTION. DIMENSIONS TO REINFORCING STEEL ARE TO BAR FACES.

1" SPIRAL TIES SHALL BE INTERMEDIATE, STRUCTURAL OR HARD GRADE A.S.T.M. A16.

PRE-TENSIONING STEEL SHALL CONSIST OF 7-WIRE STRESS RELIEVED CABLE STRANDS.

AN INITIAL TENSILE FORCE OF 15,000 LBS. SHALL BE APPLIED TO EACH CABLE STRAND.

ALL EXPOSED CONCRETE CORNERS TO HAVE 1/2" CHAMFER. PICK-UP LENGTHS HAVE BEEN COMPUTED ON BASIS OF NO TENSION IN THE CONCRETE WITH 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.

STANDARD PLAN
24-30 AND 36 INCH PRECAST
CONCRETE PILES
(REINFORCED OR PRESTRESSED)

DATED OCT. 7, 1957

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED *J.L.P.* CHECKED *M.B.G.* TRACED *A.C.*
DATE *5.2.61* BY *5.2.61* CHECKED *5.2.61* BY *5.2.61*

BRIDGE DESIGN SECTION