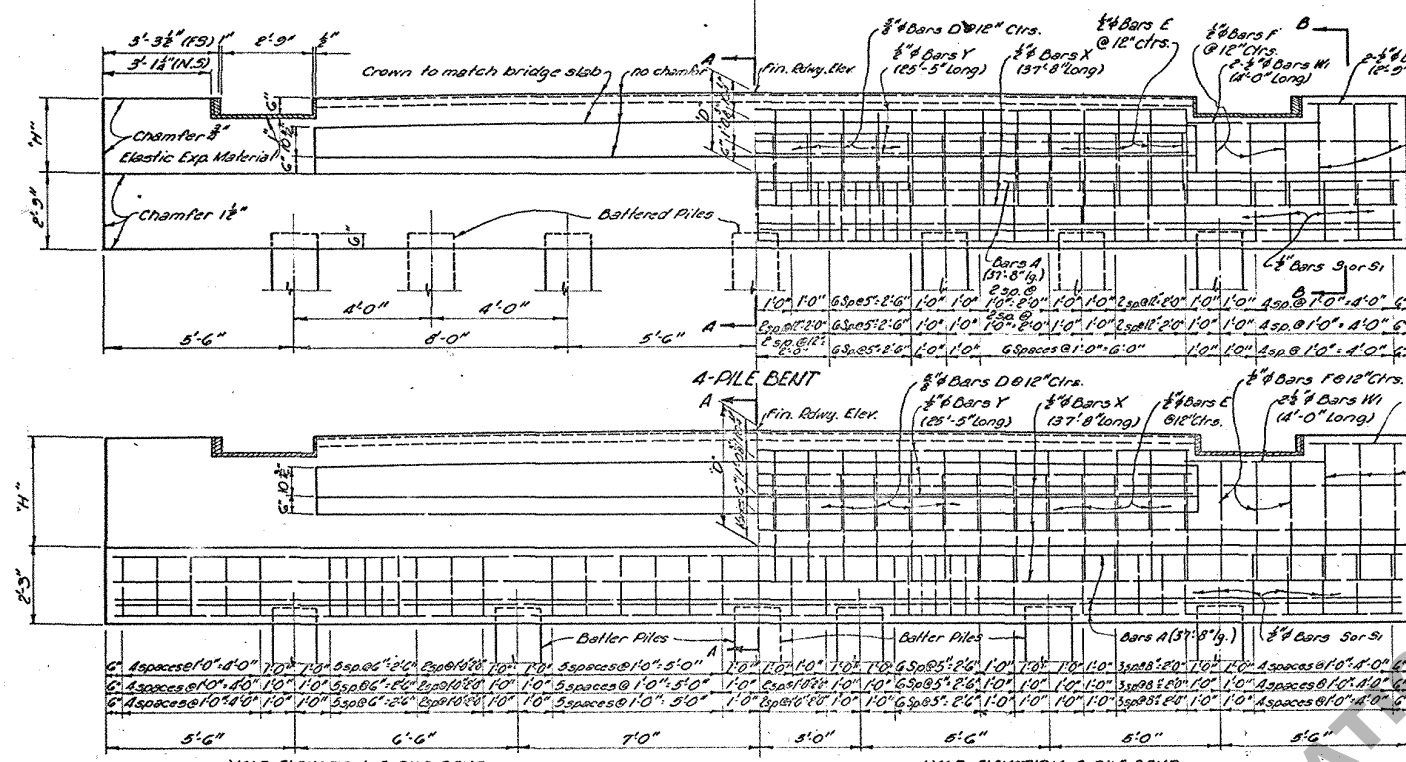
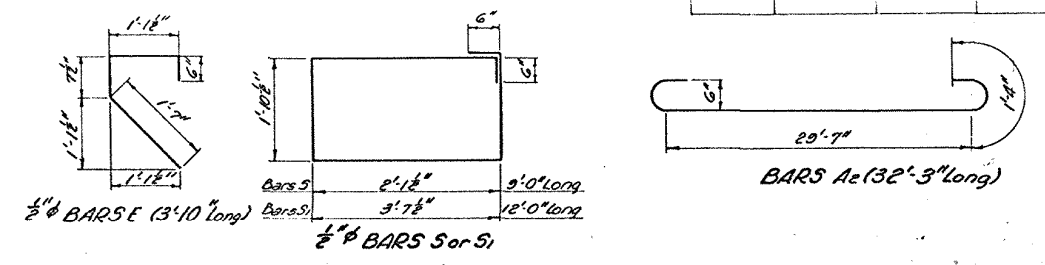
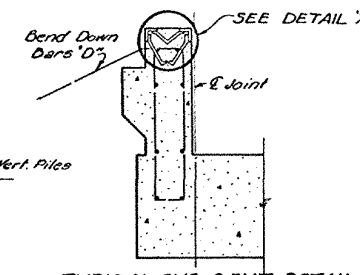
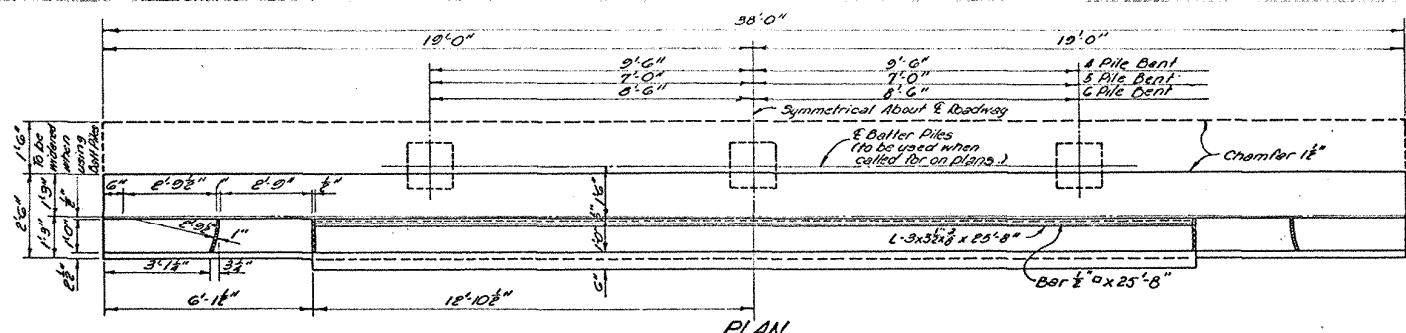
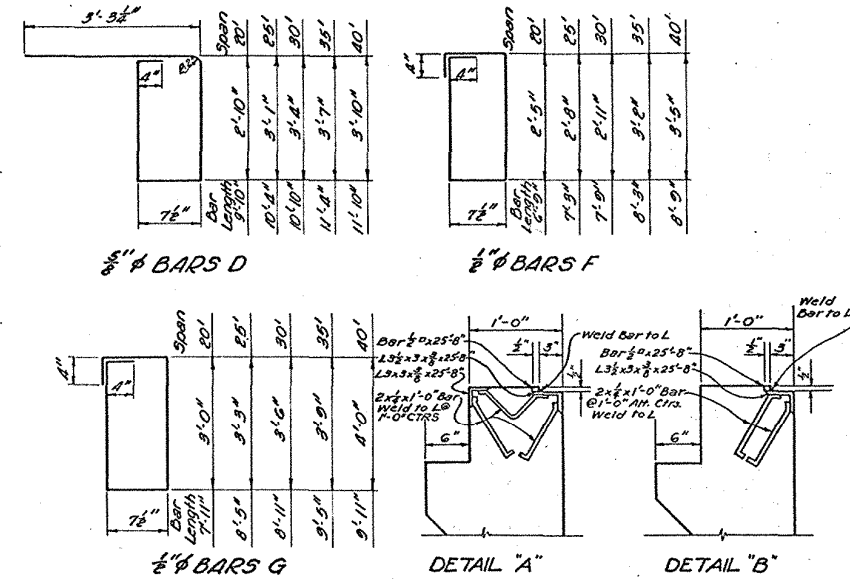




TYPICAL END BENT DETAIL WHEN NOT USING APPROACH SLAB



TYPE OF END BENT REQUIRED

END BENT	GROUND TO GRADE	SUBSOIL	BATTERED PILES
TYPE 1	0-5	Poor	0
	0-8	Good	
TYPE 2	5-10	Poor	2
	8-16	Good	
TYPE 3	10+	Poor	3
	16+	Good	

SIZE OF BARS A-A1-A2

SPAN feet	BENT		
	A-PILE	S-PILE	G-PILE
20	1 1/4"		
25	1 1/2"	1 1/4"	
30		1 1/2"	1 1/4"
35		1 1/2"	1 1/2"
40		1 1/2"	1 1/2"

END BENT QUANTITIES,* DIMENSIONS, AND PILE LOADS *																																																																																																																																																																																																																																																																			
SPAN	DIMENSIONS		4-PILES										5-PILES										6-PILES										FAB. CARBON STEEL	SPAN																																																																																																																																																																																																																																	
			TYPE						AK PILE LOAD	TYPE						AK PILE LOAD	TYPE						AK PILE LOAD																																																																																																																																																																																																																																												
			ONE		TWO		THREE			ONE		TWO		THREE			ONE		TWO		THREE																																																																																																																																																																																																																																														
			Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel		Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel		Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel	Class 1" Conc.	Def. Reinf. Steel																																																																																																																																																																																																																																													
	Feet	H.	1/2 H	1/4 H	1/8 H	1/16 H	1/32 H	1/64 H	1/128 H	1/256 H	1/512 H	1/1024 H	1/2048 H	1/4096 H	1/8192 H	1/16384 H	1/32768 H	1/65536 H	1/131072 H	1/262144 H	1/524288 H	1/1048576 H	1/2097152 H	1/4194304 H	1/8388608 H	1/16777216 H	1/33554432 H	1/67108864 H	1/134217728 H	1/268435456 H	1/536870912 H	1/1073741824 H	1/2147483648 H	1/4294967296 H	1/8589934592 H	1/17179869184 H	1/34359738368 H	1/68719476736 H	1/137438953472 H	1/274877906944 H	1/549755813888 H	1/1099511627776 H	1/2199023255552 H	1/4398046511104 H	1/8796093022208 H	1/17592186044416 H	1/35184372088832 H	1/70368744177664 H	1/140737488355328 H	1/281474976710656 H	1/562949953421312 H	1/1125899906842624 H	1/2251799813685248 H	1/4503599627370496 H	1/9007199254740992 H	1/18014398509481984 H	1/36028797018963968 H	1/72057594037927936 H	1/144115188075855872 H	1/288230376151711744 H	1/576460752303423488 H	1/1152921504606846976 H	1/2305843009213693952 H	1/4611686018427387904 H	1/9223372036854775808 H	1/18446744073709551616 H	1/36893488147419103232 H	1/73786976294838206464 H	1/147573952589676412928 H	1/295147905179352825856 H	1/590295810358705651712 H	1/1180591620717411303424 H	1/2361183241434822606848 H	1/4722366482869645213696 H	1/9444732965739290427392 H	1/18889465931478580854784 H	1/37778931862957161709568 H	1/75557863725914323419136 H	1/151115727451828646838272 H	1/302231454903657293676544 H	1/604462909807314587353088 H	1/1208925819614629174706176 H	1/2417851639229258349412352 H	1/4835703278458516698824704 H	1/9671406556917033397649408 H	1/19342813113834066795298816 H	1/38685626227668133590597632 H	1/77371252455336267181195264 H	1/154742504910672534362390528 H	1/309485009821345068724781056 H	1/618970019642690137449562112 H	1/1237940039285380274899124224 H	1/2475880078570760549798248448 H	1/4951760157141521099596496896 H	1/9903520314283042199192993792 H	1/19807040628566084398385987584 H	1/39614081257132168796771975168 H	1/79228162514264337593543950336 H	1/158456325028528675187087900672 H	1/316912650057057350374175801344 H	1/633825300114114700748351602688 H	1/1267650600228229401496703205376 H	1/2535301200456458802993406410752 H	1/5070602400912917605986812821504 H	1/10141204801825835211973625643008 H	1/20282409603651670423947251286016 H	1/40564819207303340847894502572032 H	1/81129638414606681695789005144064 H	1/162259276829213363391578010288128 H	1/324518553658426726783156020576256 H	1/649037107316853453566312041152512 H	1/1298074214633706907132624082305024 H	1/2596148429267413814265248164610048 H	1/5192296858534827628530496329220096 H	1/10384593717069655257060992658440192 H	1/20769187434139310514121985316880384 H	1/41538374868278621028243970633760768 H	1/83076749736557242056487941267521536 H	1/166153499473114484112975882535043072 H	1/332306998946228968225951765070086144 H	1/664613997892457936451903530140172288 H	1/1329227995784915872903807060280344576 H	1/2658455991569831745807614120560689152 H	1/5316911983139663491615228241121378304 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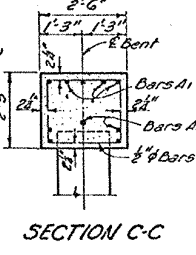
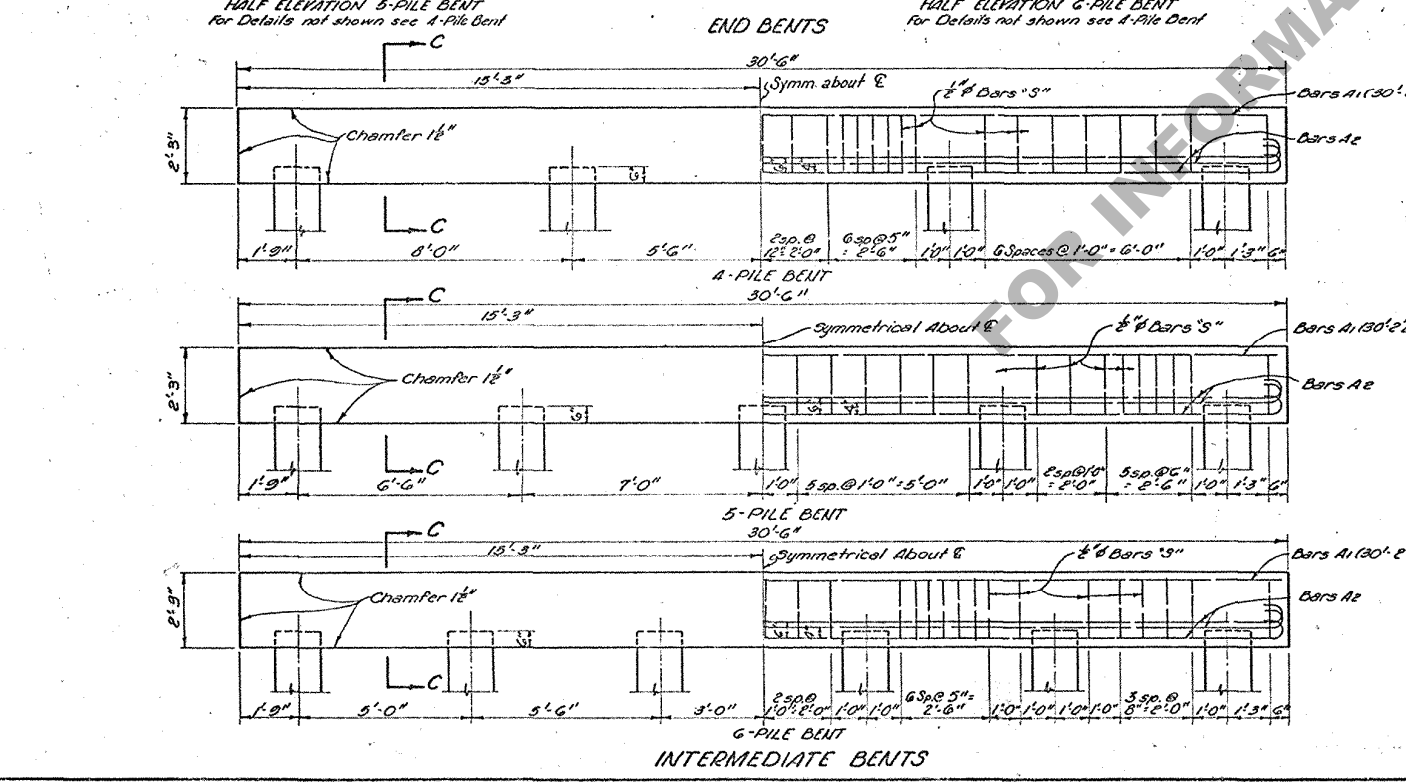
* To provide for future extension of bridge the end bents are designed for same load as intermediate bents.
 ** When not using approach slab, add 205 lbs. Fab. Carbon steel.

INTERMEDIATE BENT QUANTITIES AND PILE LOADS

SPAN	4-PILES			5-PILES			6-PILES			SPAN
	Class A1 Conc.	Def. Reinf. Steel	Av. Pile Load	Class A1 Conc.	Def. Reinf. Steel	Av. Pile Load	Class A1 Conc.	Def. Reinf. Steel	Av. Pile Load	
20	6.22	1032	25.5	6.19	1014	23.6	6.16	1032	22.1	20
25	6.22	1259	29.5	6.19	1014	26.6	6.16	1259	24.4	25
30				6.19	1014	29.2	6.16	1259	24.4	30
35				6.19	1241	31.8	6.16	1259	26.5	35
40										40

Note: Max. Pile Loads Unless Otherwise Indicated By The Dr. Des. Sec.
 14" R.C. Piles 25 Tons Per Pile.
 16" R.C. Piles 32 Tons Per Pile.

GENERAL NOTES:
 Construction Specifications: Latest Approved La. Dept. of Highways Std. Specifications.
 Design Specifications: A.A.S.H.O., 1944 as amended to Dec. 15, 1946.
 Live Load: H20-S16-44.
 Reinforcing Steel to be Intermediate Grade.
 All dimensions to reinforcing steel are to bar centers.
 Quantities computed assuming use of 16" Piling.
 Cost of Expansion Material to be included in price bid for other items.



STANDARD PLAN REINFORCED CONCRETE PILE BENTS FOR I-B.M. SPANS
 H20-S16-44 LOADING
 26'0" CLEAR ROADWAY
 1'6" SIDEWALKS
 20' TO 40' SPANS
 DATED MARCH, 1948 TO BE USED WITH STD. PLAN S-C-21-20

STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS

DESIGNED: [Signature] CHECKED: [Signature] TRACED: [Signature]
 DATE: [] DESCRIPTION: [] REVISIONS: []
 DESIGN SECTION: []