

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		1950	1	11

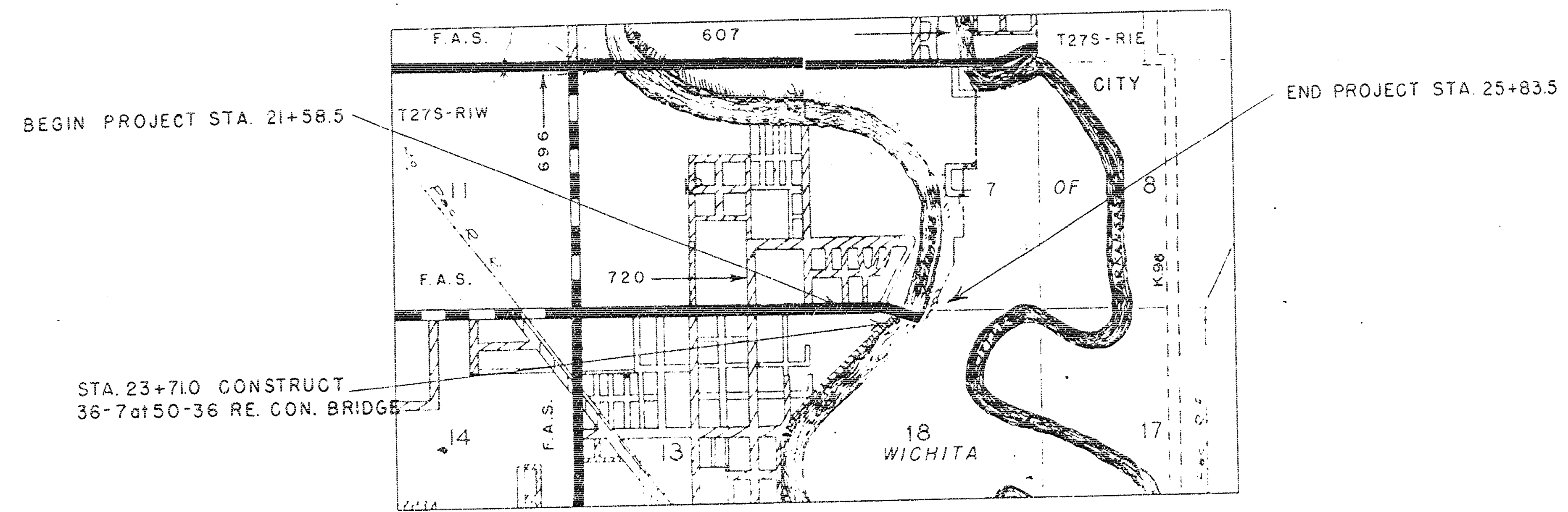


BRIDGE NO. 616-25-2371

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
2	PLAN & PROFILE
3	TOPOGRAPHY
4	CONSTRUCTION LAYOUT
5-6	SLAB & GIRDER DETAIL
7	ABUTMENT DETAIL
8	PIER DETAIL
9	AUXILIARY DETAIL
10	LIGHTING DETAIL
11	PILING DETAIL

6,158 V.P.D. 1950



CONVENTIONAL SIGNS

COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RA. ROAD	-----
SURVEY LINE	-----
W. H. OF DAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

NET LENGTH OF PROJECT	425.0	FT.	08	MILES
NET LENGTH OF BRIDGES	425.0	FT.	08	MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITIONS		FT.		MILES
GROSS LENGTH OF PROJECT		FT.		MILES

PLANS PREPARED BY

DATE

APPROVED

DATE 12-18-50

ENGINEER OF SECONDARY ROADS

APPROVED

COUNTY ENGINEER

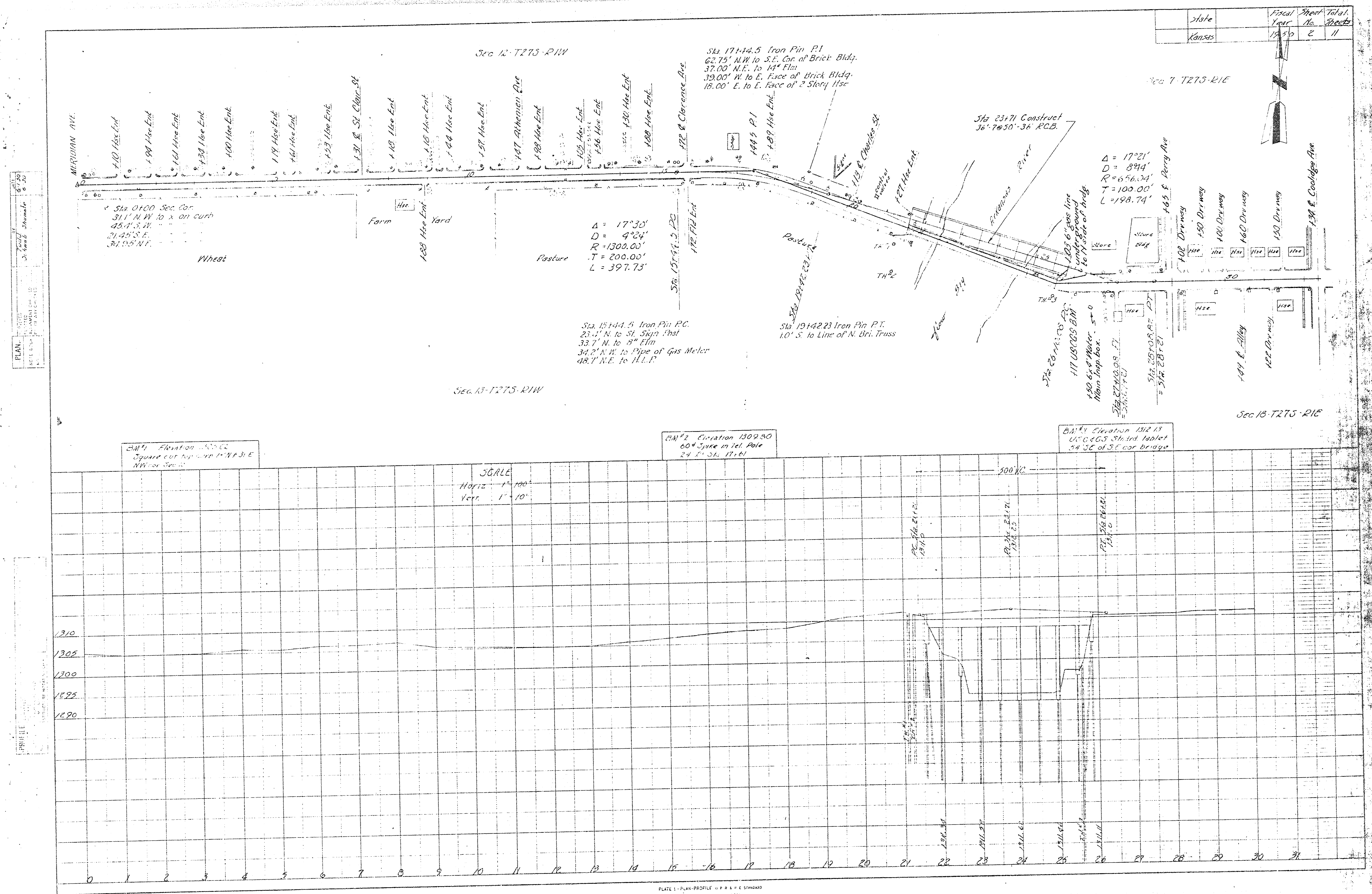
DATE 12-14-50

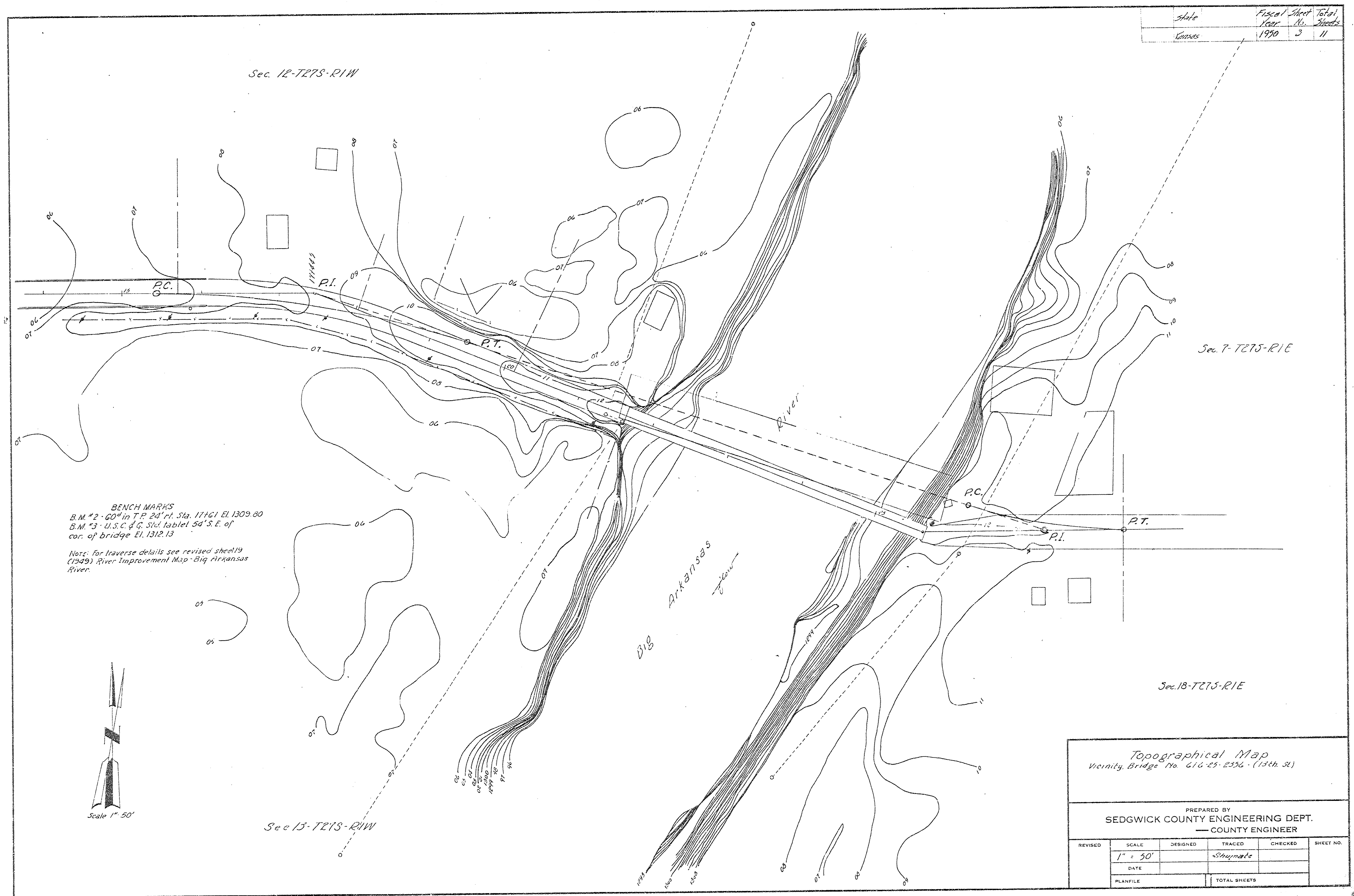
APPROVED

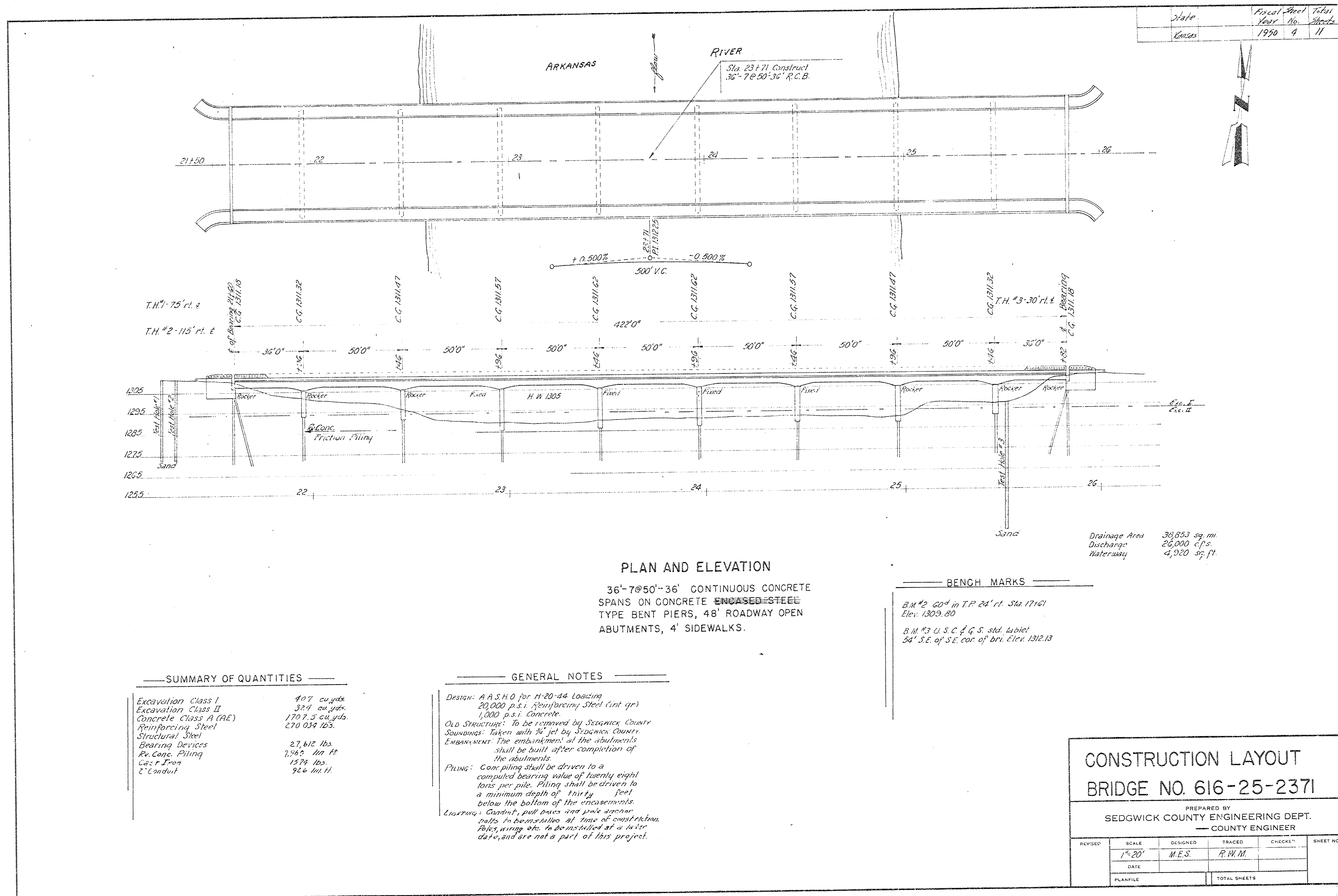
DATE 1-2-51

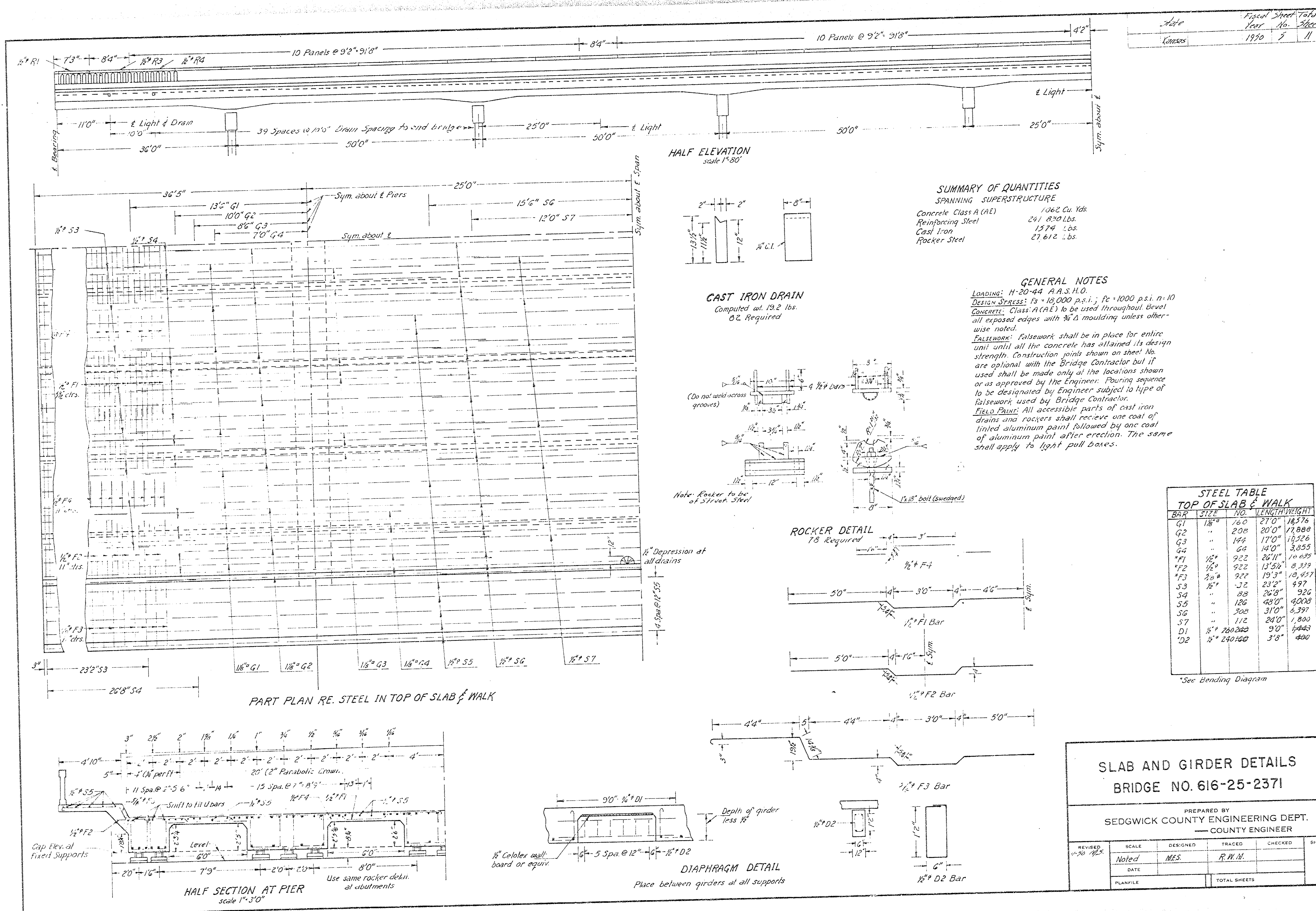
STATE HIGHWAY ENGINEER

13th Street
616-25









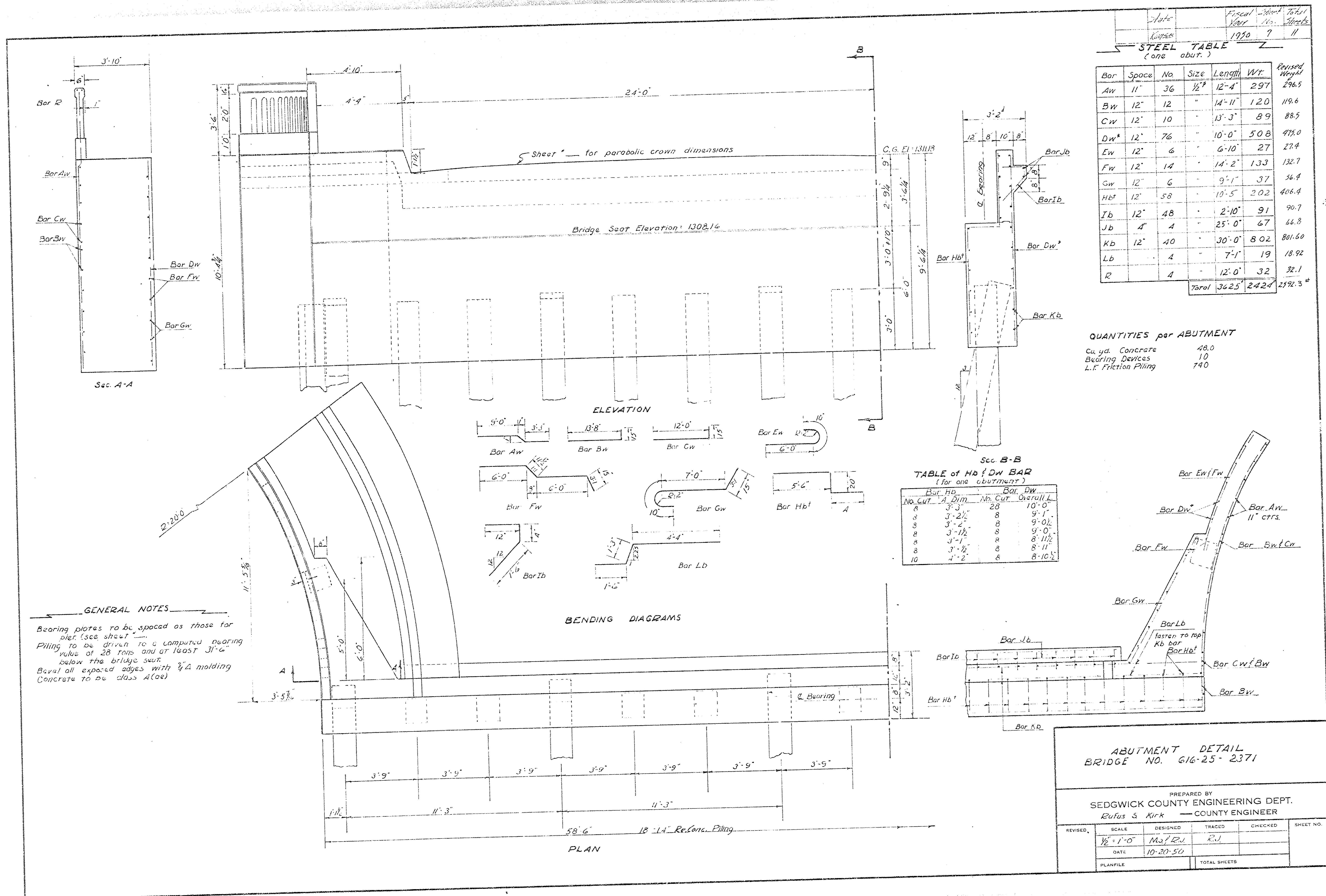
STEEL TABLE

SPAN	SIZE	NO.	LENGTH	WEIGHT
G5	1/2"	40	29'8"	1,104
G6	1/2"	29	13'0"	1,820
G7	1/2"	40	25'0"	1,660
G8	1/2"	192	16'8"	13,800
G10	1/2"	140	36'0"	21,087
G11	1/2"	168	30'0"	21,487
G12	1/2"	84	27'0"	9,759
G13	1/2"	42	20'0"	2,612
G14	1/2"	28	12'4"	1,807
G15	1/2"	16	7'0"	8,648
F5	1/2"	120	4'3"	780
S5	1/2"	216	48'0"	6,925
U1	1/2"	1,352	4'7"	3,130
U2	1/2"	748	6'11"	1,187
U3	1/2"	64	4'11"	811
U4	1/2"	64	5'1"	816
U5	1/2"	64	5'3"	836
U6	1/2"	64	5'3"	836
U7	1/2"	64	5'3"	836
U8	1/2"	96	7'3"	1,466
U9	1/2"	96	7'3"	1,466
U10	1/2"	96	8'0"	1,512
U11	1/2"	96	8'3"	1,531
U12	1/2"	8	7'0"	37
R2	1/2"	922	3'8"	22,528
R3	1/2"	90	4'0"	1,071
R4	1/2"	160	8'11"	2,990
G16	1/2"	12	23'0"	1,187
G17	1/2"	34	33'0"	11,728

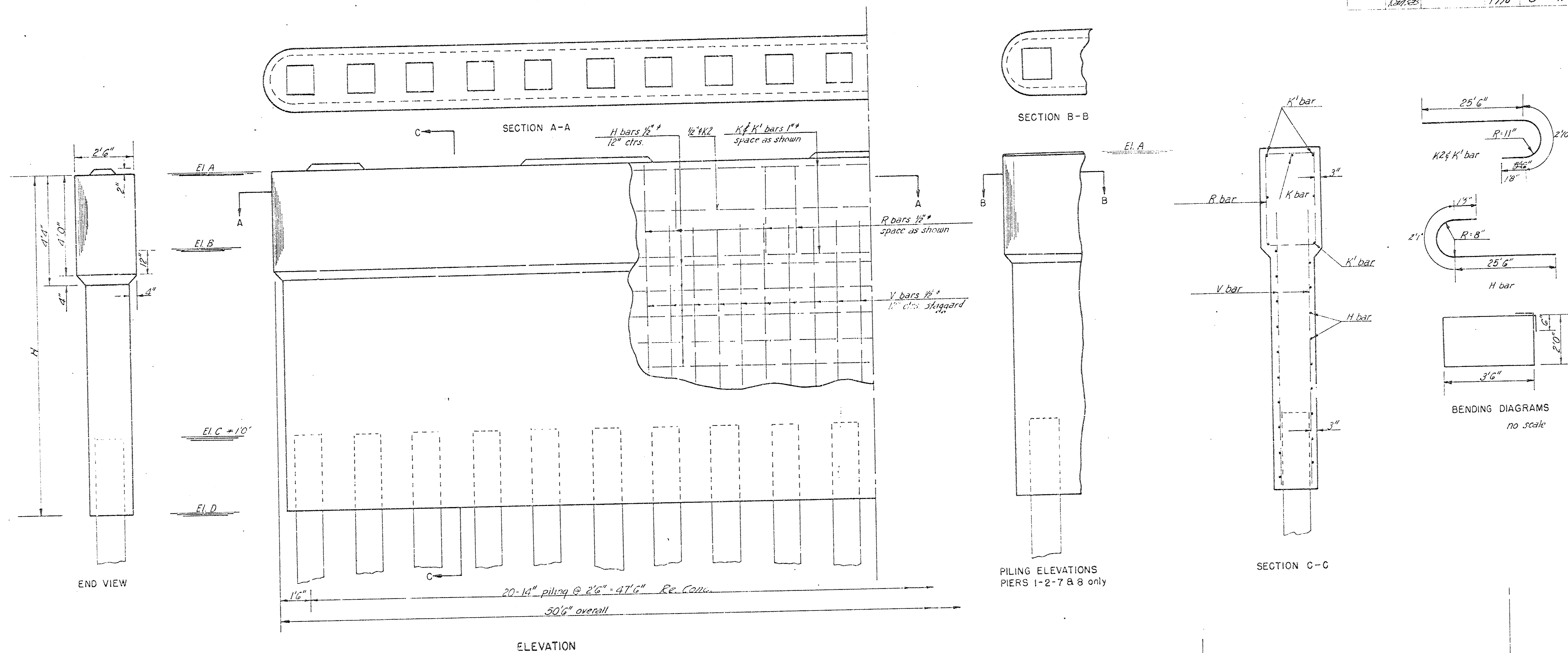
SLAB AND GIRDER DETAILS
BRIDGE NO. 616-25-237I

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
11-30-40	1" = 3'0"	MES	RWM		
	DATE	10-50	10-20-50		
	PLANFILE		TOTAL SHEETS		



Sheet	Fiscal Year	Sheet No.	Total Sheets
100000	1950	8	11

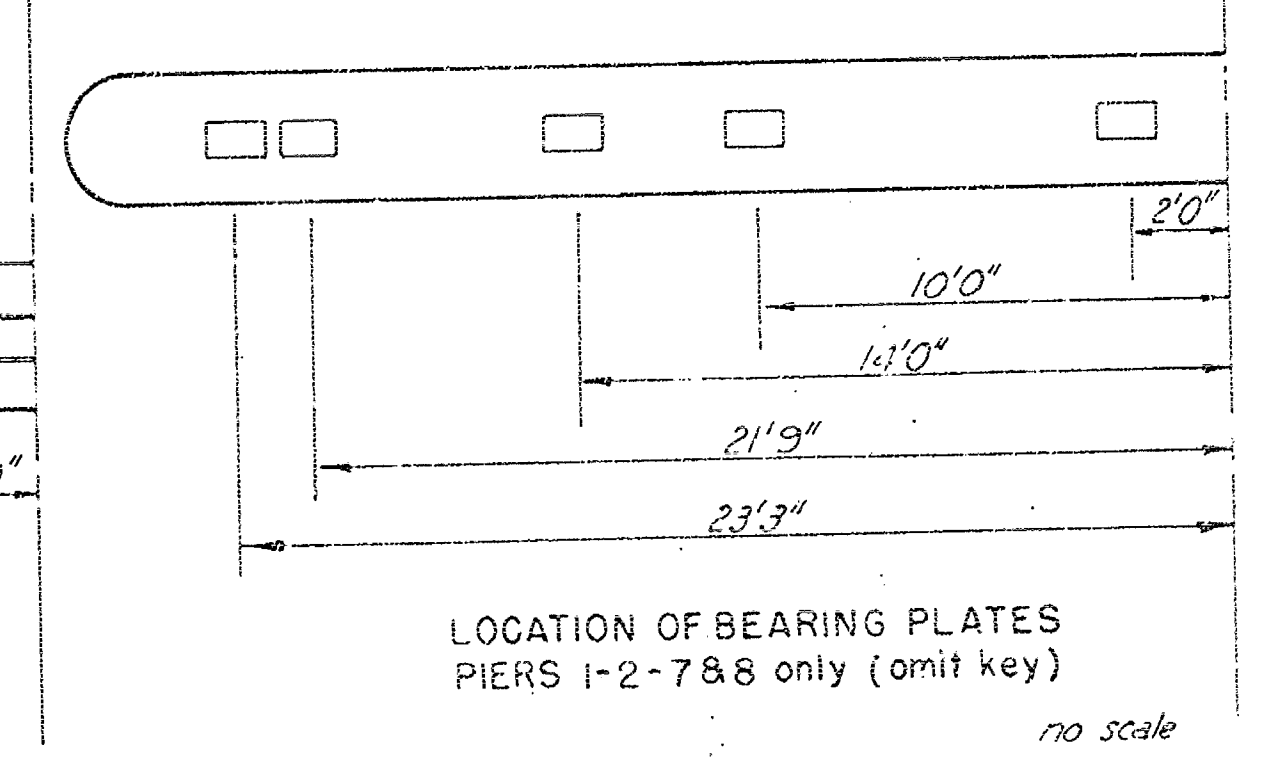
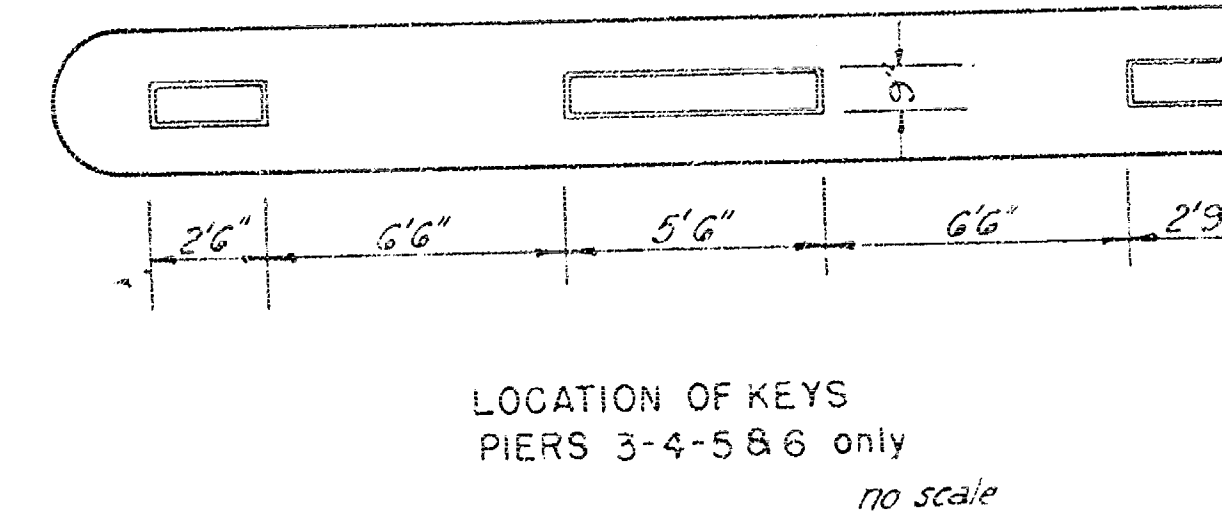


PIER	TABLE of ELEVATIONS				TABLE of STEEL										QUANTITIES		A				
	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D	Number 16" R bars	Length 16" R bars	Number 1" H bars	Length 1" H bars	Number 1" K bars	Length 1" K bars	Number 1/2" V bars	Length 1/2" V bars	Number 16" H bars	Length 16" H bars	8" x 16" Bearing Pl.	L.F. Test Pile	L.F. Friction Pile	Cu Yds. Concrete	Lbs. Re. Bars		
#1	1307.55	1304.55	1297.55	1294.55	40	120'	2	265'	8	345'	51	106'	20	500'	10	406'	810	49,622	224	13	4 300' 1928.3
#2	1307.70	1304.70	1294.70	1291.70	40	120'	2	265'	8	318'	51	136'	32	500'	10	0	0	52,732	2658	16	4 300' 2146.7
#3	1308.53	1305.53	1289.53	1286.53	40	120'	2	265'	8	318'	51	106'	44	500'	0	0	0	80,132	3951	22	4 " 2583.6
#4	1308.58	1305.58	1290.58	1287.58	40	120'	2	265'	8	318'	51	186'	42	500'	0	0	0	76,741	3684	21	4 " 2510.8
#5	1308.58	1305.58	1291.58	1288.58	40	120'	2	265'	8	318'	51	116'	40	500'	0	406'	0	73,335	3660	20	4 " 2432.9
#6	1308.53	1303.53	1291.53	1288.53	40	120'	2	265'	8	318'	51	176'	40	500'	0	0	0	73,335	3660	20	4 " 2432.9
#7	1307.70	1304.70	1290.70	1287.70	40	120'	2	265'	8	318'	51	176'	40	500'	10	0	0	73,335	3660	20	4 " 2432.9
#8	1307.55	1304.55	1293.55	1290.55	40	120'	2	265'	6	318'	51	146'	34	500'	10	406'	0	63,161	2750	17	4 " 2219.5
					30										40	1216'			549,583	556	18,702.6
																					551-51 102

GENERAL NOTES

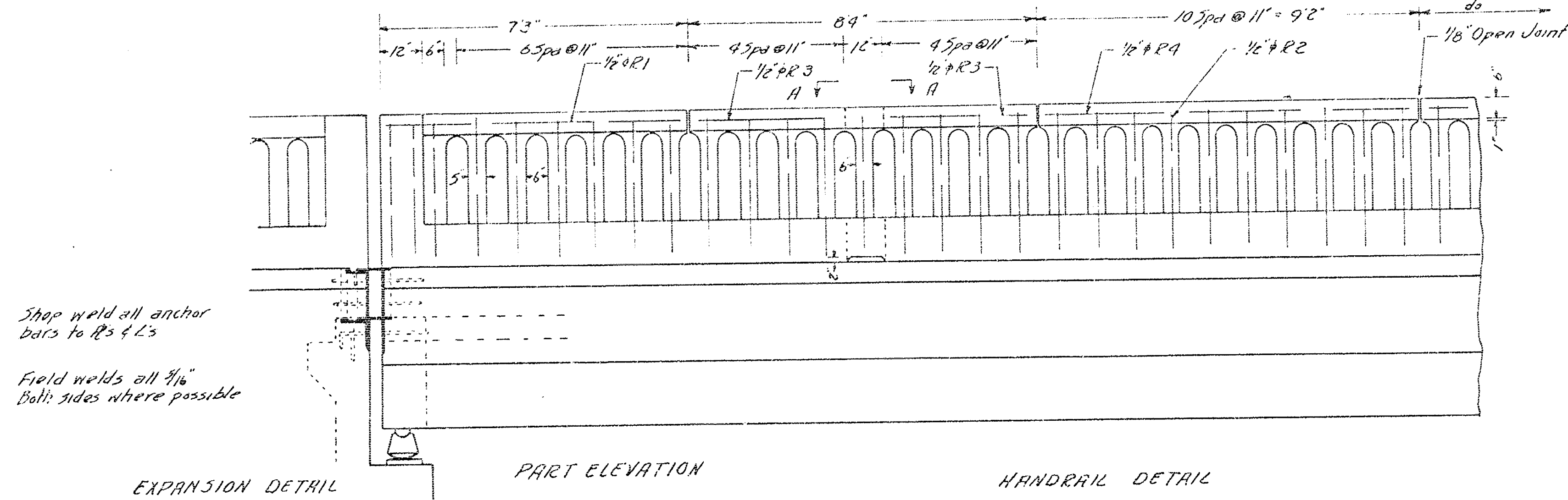
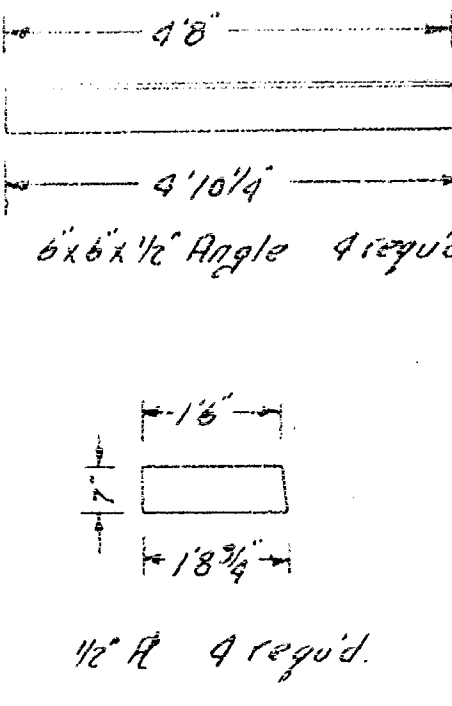
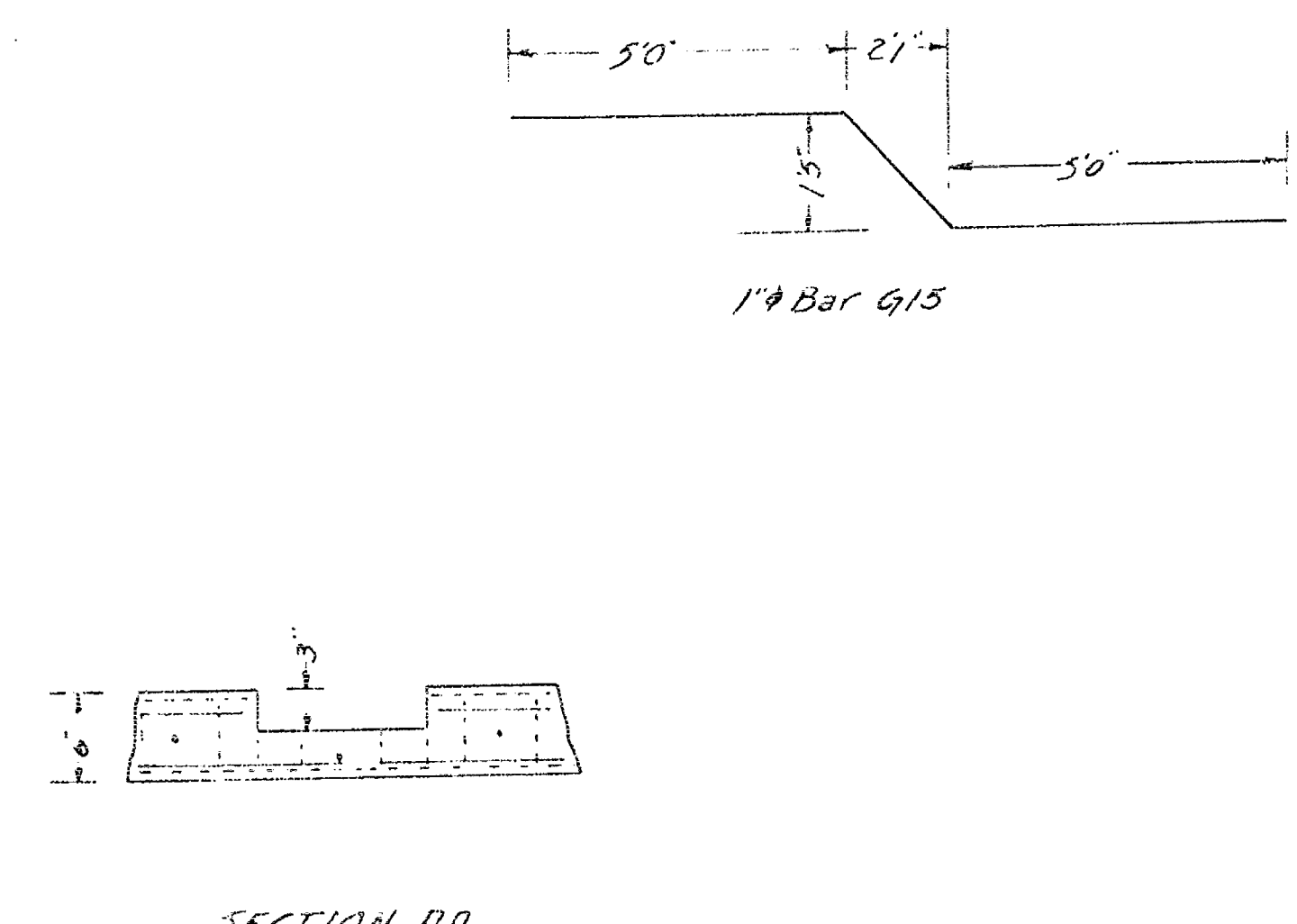
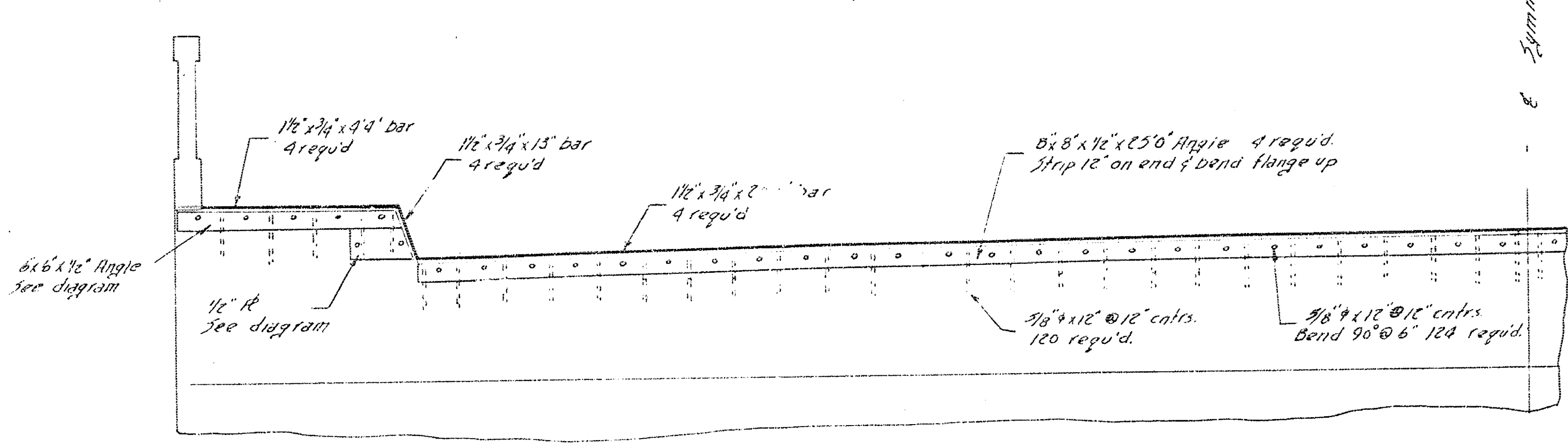
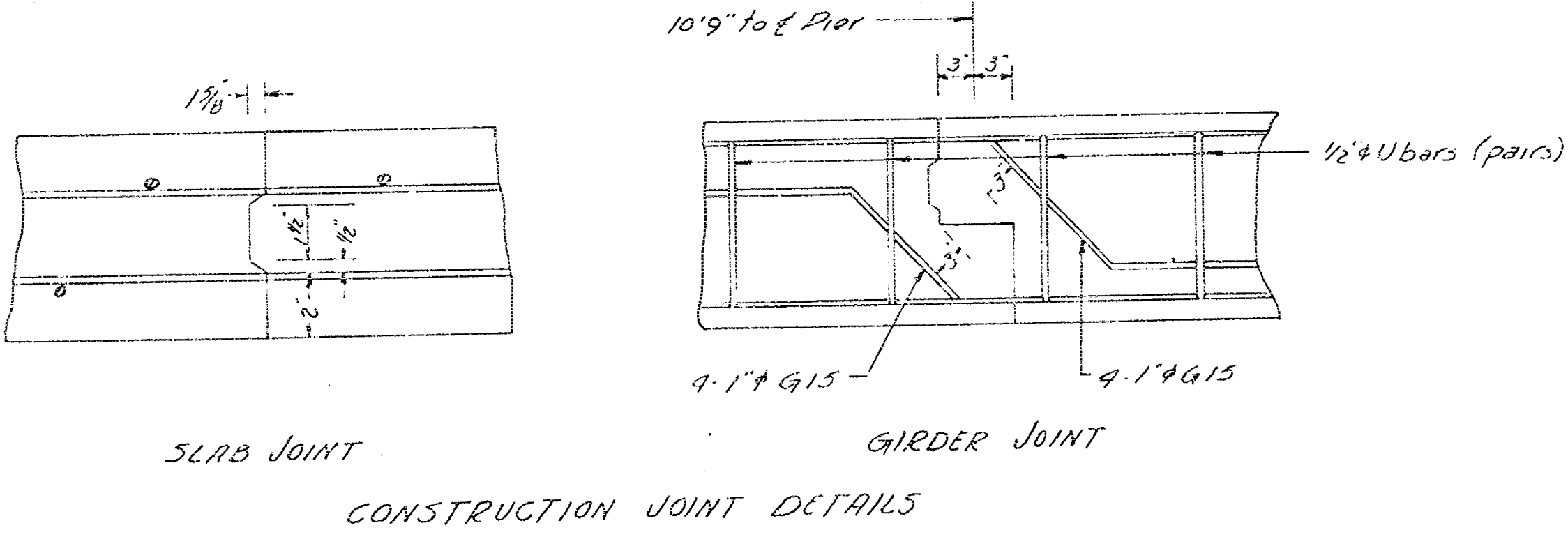
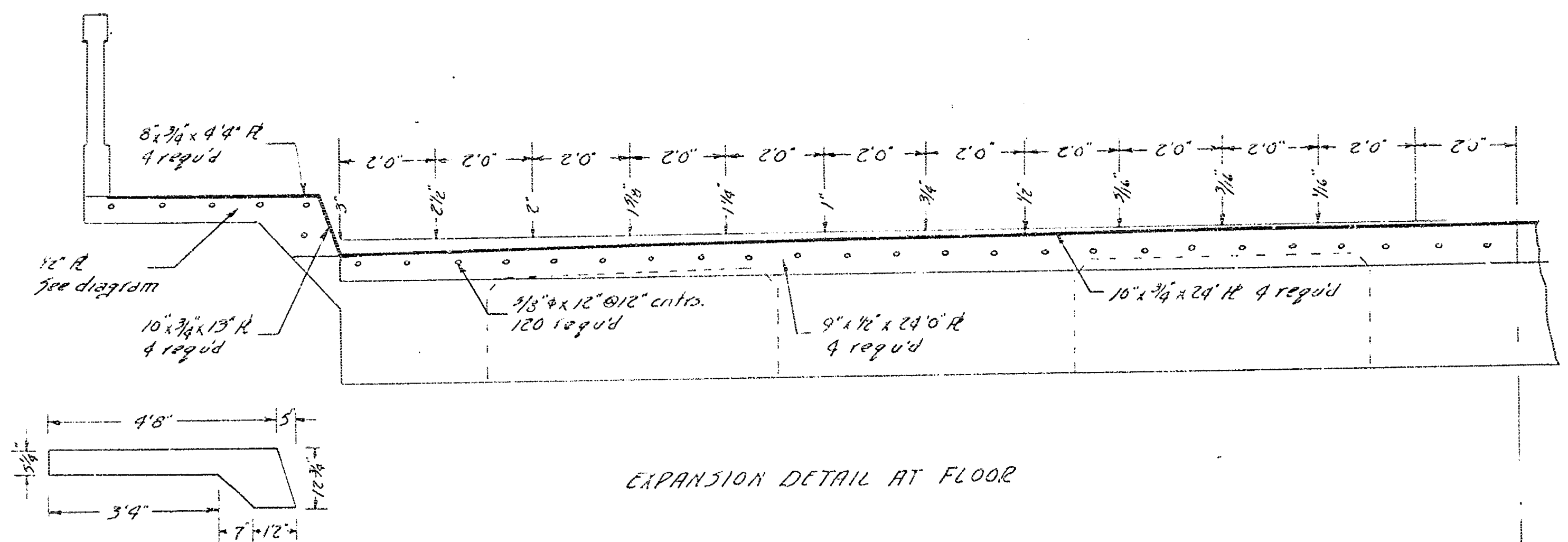
Class A (AE) Concrete shall be used thruout. Bevel all exposed edges with a 1/4" triangular molding unless otherwise noted.

All dimensions shown relative to reinforcing steel are to E of bar.



PIER DETAILS				
BRIDGE No. 616-25-2371				
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. COUNTY ENGINEER				
REVISED 10-24-50	SCALE 1/2" = 1'0"	DESIGNED M.S. & P.J.	TRACED R.M.	CHECKED
DATE		TOTAL SHEETS		SHEET NO.
PLANFILE				

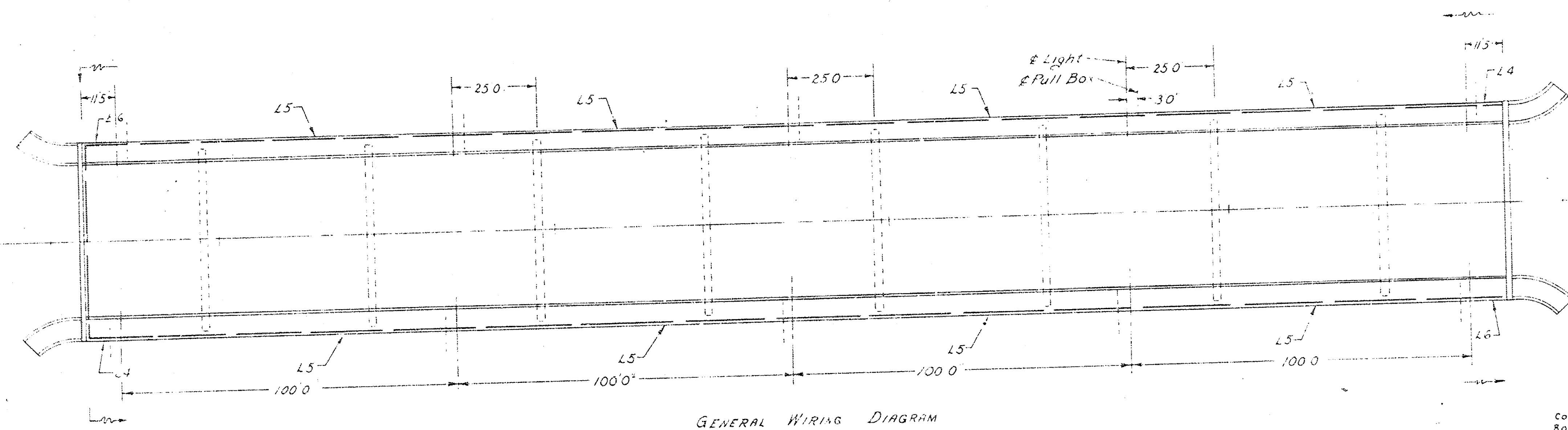
Drawn	Checked	Sheet	Total
Kansas	1990	9	11



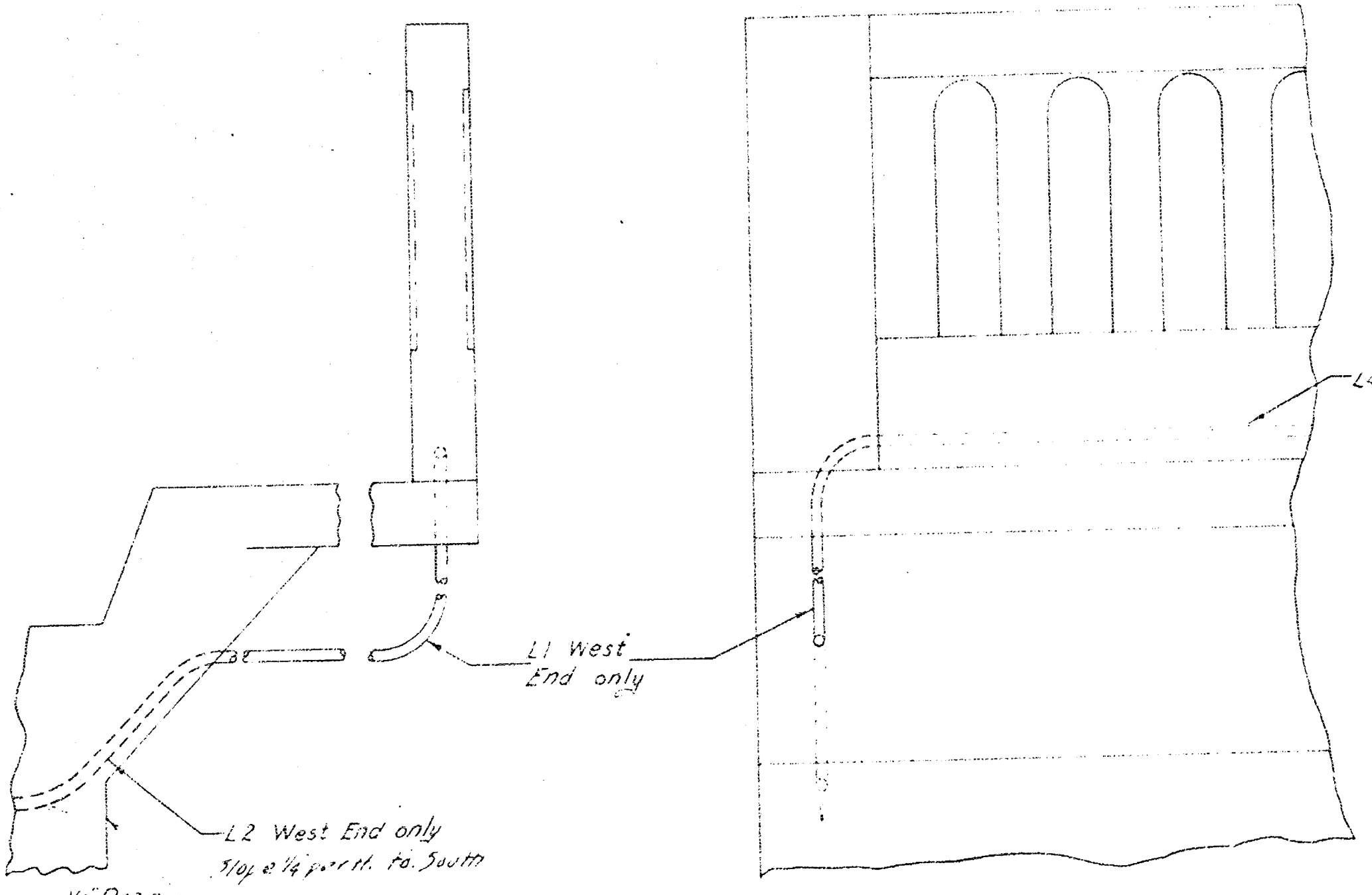
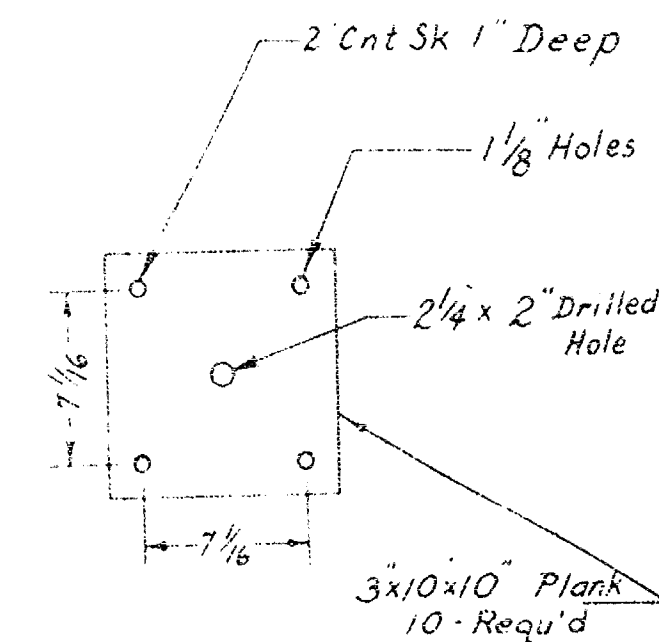
Shop weld all anchor bars to R's & L's
Field welds all 1/4\"/>

AUXILIARY DETAILS					
BRIDGE NO. 616-25-2371					
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK COUNTY ENGINEER					
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=2'-0"	M.E.S.	M.E.S.		
	DATE				
	PLANFILE		TOTAL SHEETS		

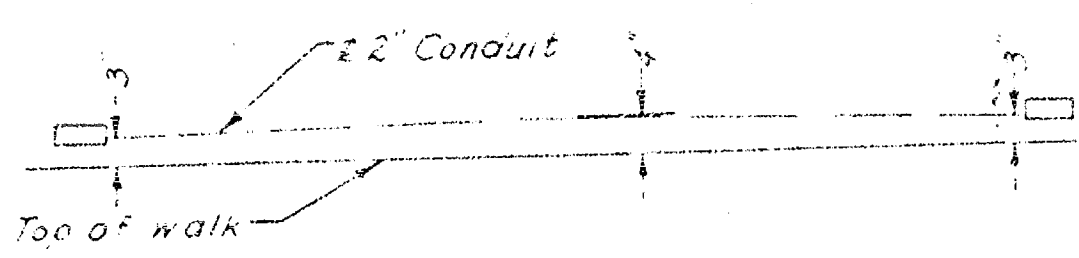
State	Fiscal Year	Sheet No.	Total Sheets
Kansas	1950	10	11



GENERAL WIRING DIAGRAM



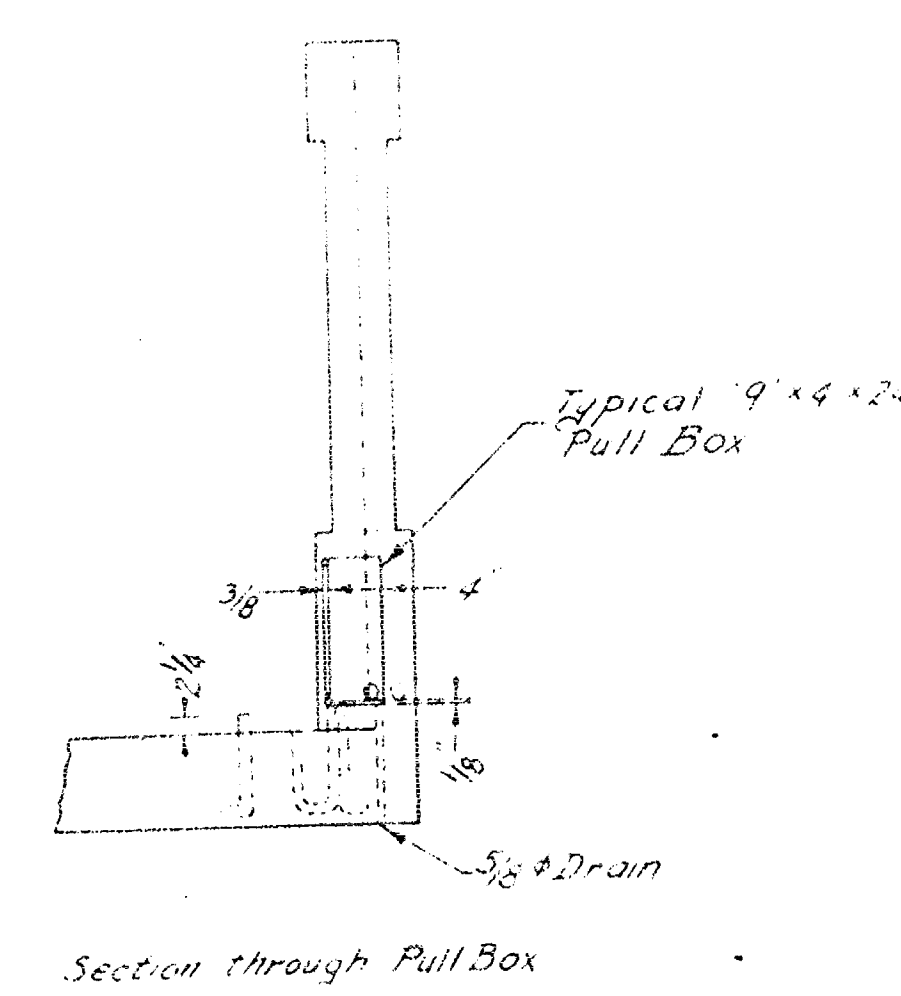
DETAIL AT ENDS OF BRIDGE



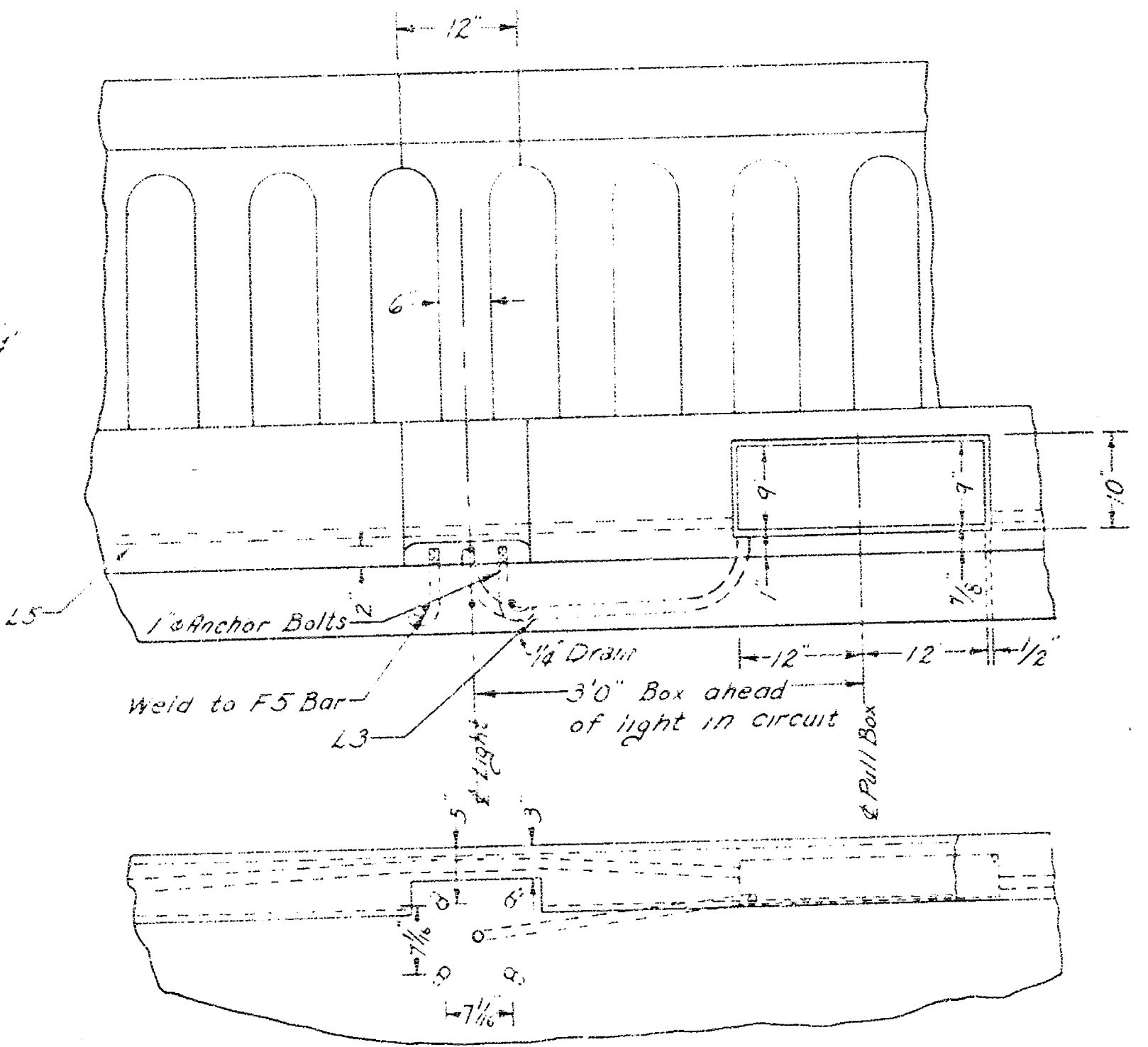
Typical Slope of Conduit between Pull Boxes

Span	No.	Length	Total Length
L1	2	4 1/2'	9'
L2	1	53 1/2'	53 1/2'
L3	10	1 10'	110'
L4	2	3 1/2'	7'
L5	8	100'	800'
L6	2	14 1/4'	28 1/2'
Total			926 1/2'

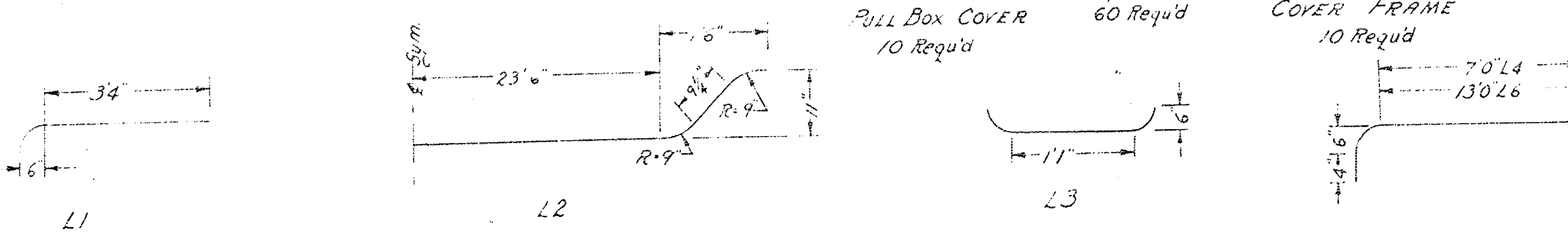
All conduit 2" x 1/2" EMT



Section through Pull Box



DETAIL AT PULL BOX AND LIGHT



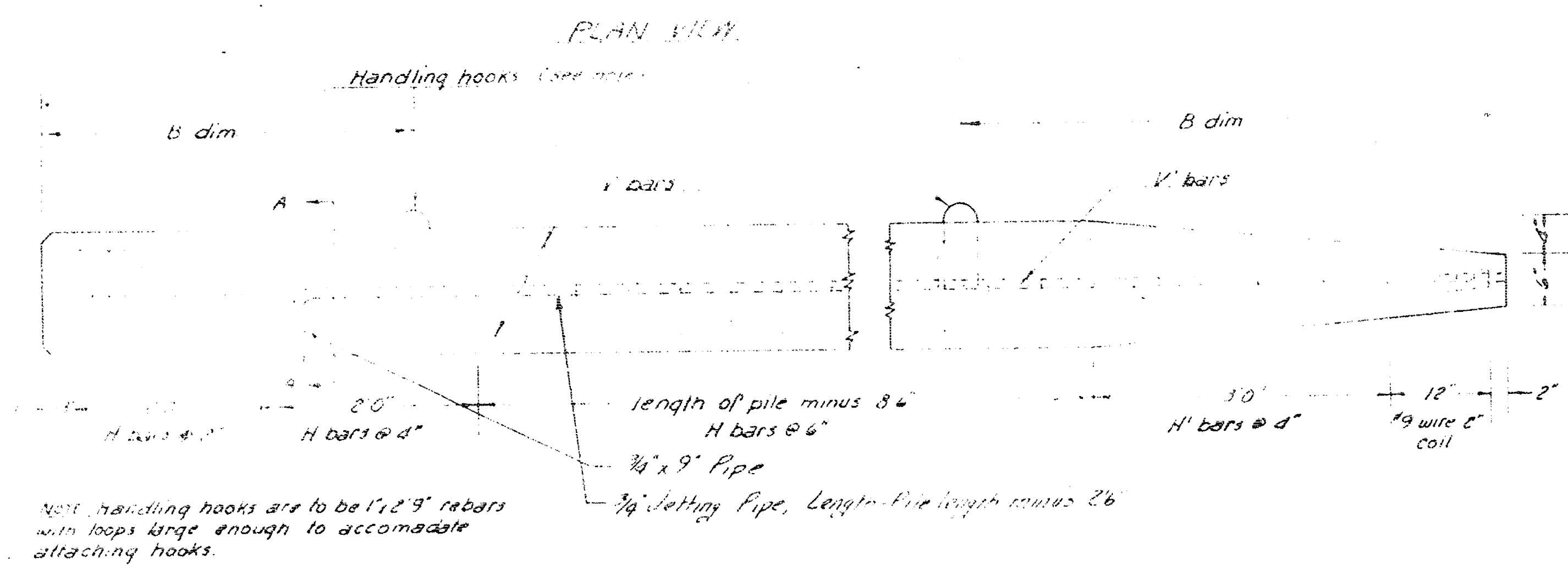
PULL BOX COVER 10 Required

COVER FRAME 10 Required

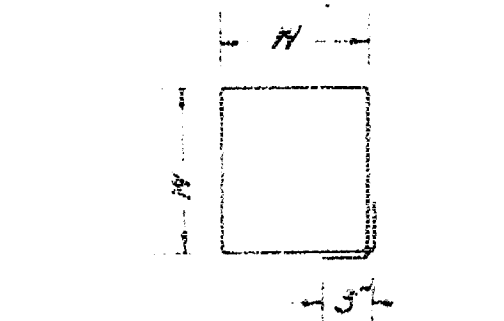
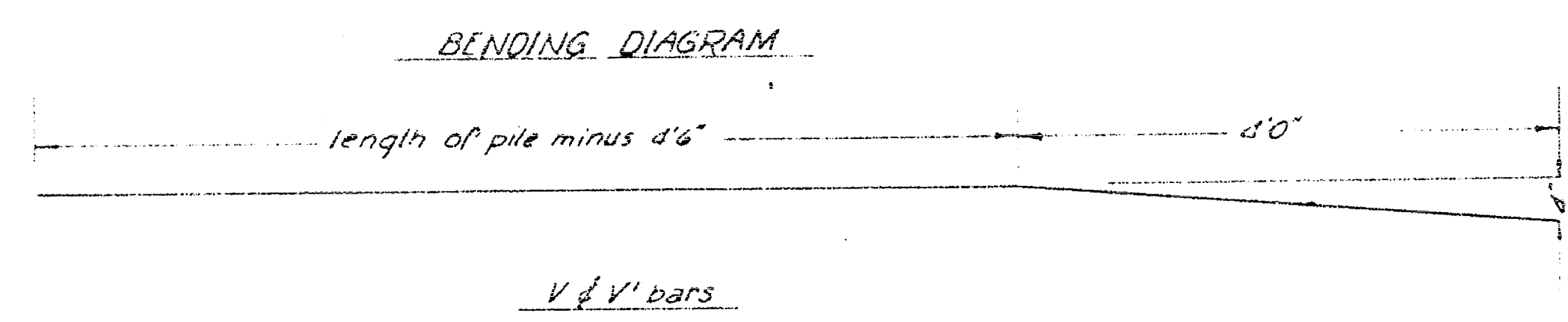
LIGHTING DETAILS BRIDGE NO. 616-25-2371

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
1-1-50		MES	CDH		
DATE	10-50	10-25-50			
PLANFILE		TOTAL SHEETS			



Note: handling hooks are to be 1/2" #5 rebar with loops large enough to accommodate attaching hooks.



W dim in H bars - 10" in H bars decrease by increments of 10"

General Notes:
 Piling are to be constructed of class A concrete mix to be of such consistency that the concrete will be thoroughly compacted by tamping & vibrating. Piling are to be lifted with handling hooks (placed at B dim) only. Top of piling must have smooth and level surface, where not obtained in forming, surface must be treated by grinding or other suitable methods. All exposed edges are to have 4" bevel.
 Piling should remain in forms for 14 days and cured for a minimum of 6 weeks before being driven.
 Piling are to be painted with suitable coating 5' above & 5' below normal water line.
 Each pile shall be stamped or marked with the date of its manufacture.
 All steel shall have 2" cover unless otherwise noted.

BILL OF MATERIAL											
20' PILE						30' PILE					
Bar	V	V	H	H		Bar	V	V	H	H	
Number	4	4	4	4		Number	4	4	4	4	
Size	#4	#4	#4	#4		Size	#4	#4	#4	#4	
Length	20'	20'	20'	20'		Length	30'	30'	30'	30'	
B dim	14"	14"	14"	14"		B dim	14"	14"	14"	14"	
Total Steel	158'					Total Steel	202'				
Concrete						Concrete					
24' PILE						36' PILE					
Bar	V	V	H	H		Bar	V	V	H	H	
Number	4	4	4	4		Number	4	4	4	4	
Size	#4	#4	#4	#4		Size	#4	#4	#4	#4	
Length	24'	24'	24'	24'		Length	36'	36'	36'	36'	
B dim	14"	14"	14"	14"		B dim	14"	14"	14"	14"	
Total Steel	187'					Total Steel	278'				
Concrete						Concrete					
28' PILE						40' PILE					
Bar	V	V	H	H		Bar	V	V	H	H	
Number	4	4	4	4		Number	4	4	4	4	
Size	#4	#4	#4	#4		Size	#4	#4	#4	#4	
Length	28'	28'	28'	28'		Length	40'	40'	40'	40'	
B dim	14"	14"	14"	14"		B dim	14"	14"	14"	14"	
Total Steel	217'					Total Steel	318'				
Concrete						Concrete					

CONCRETE PILING 14" X 14"					
PREPARED BY: SEDGWICK COUNTY ENGINEERING DEPT. H. J. GREELY COUNTY ENGINEER					
REVISED	DATE	BY	REASON	DATE	BY
	1-10	Baskett	Marion	7-2-6	
	12-27			2-2-7	
PLANNED			TOTAL		