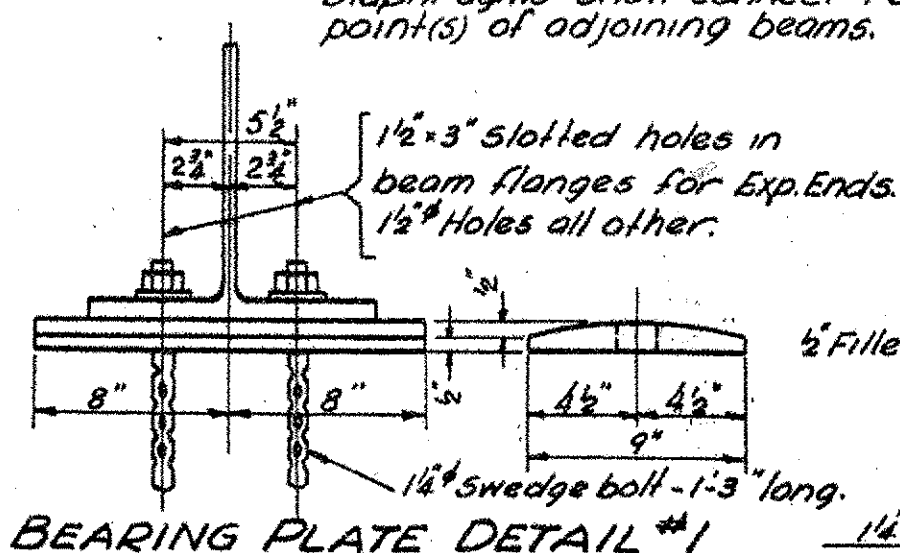
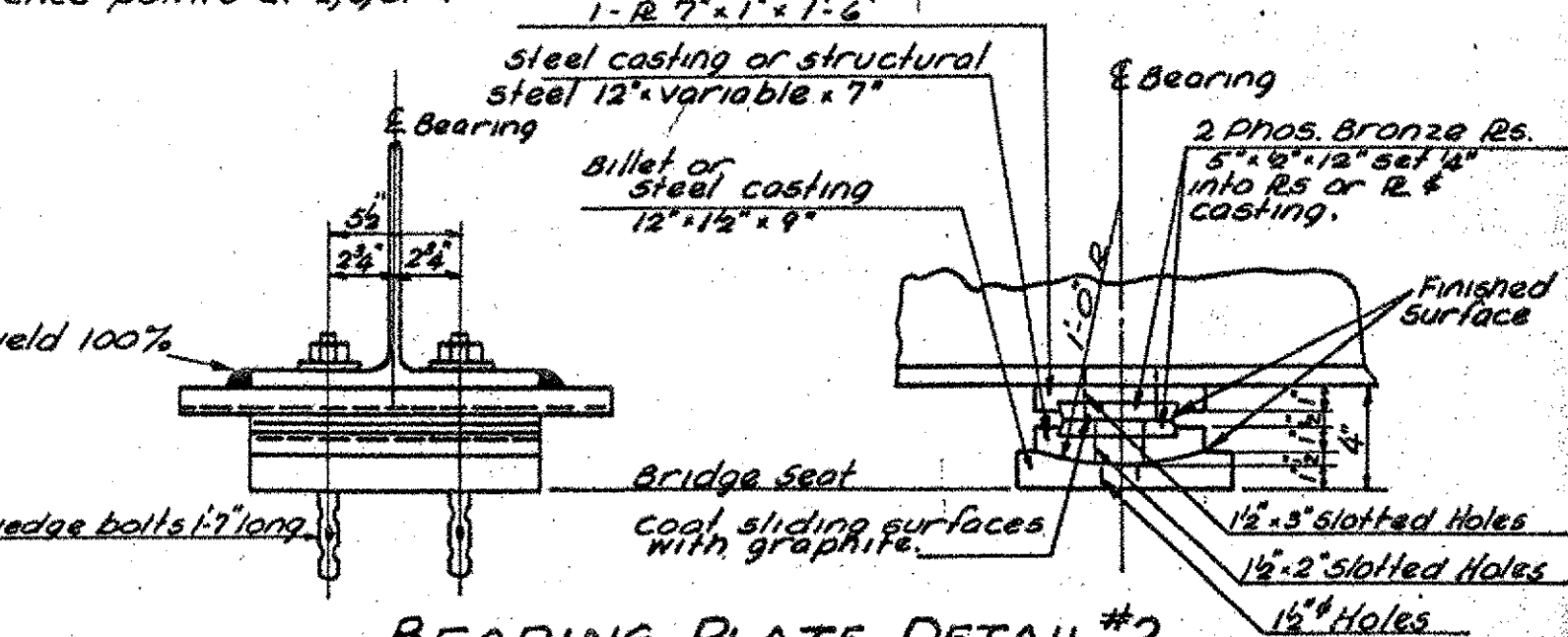


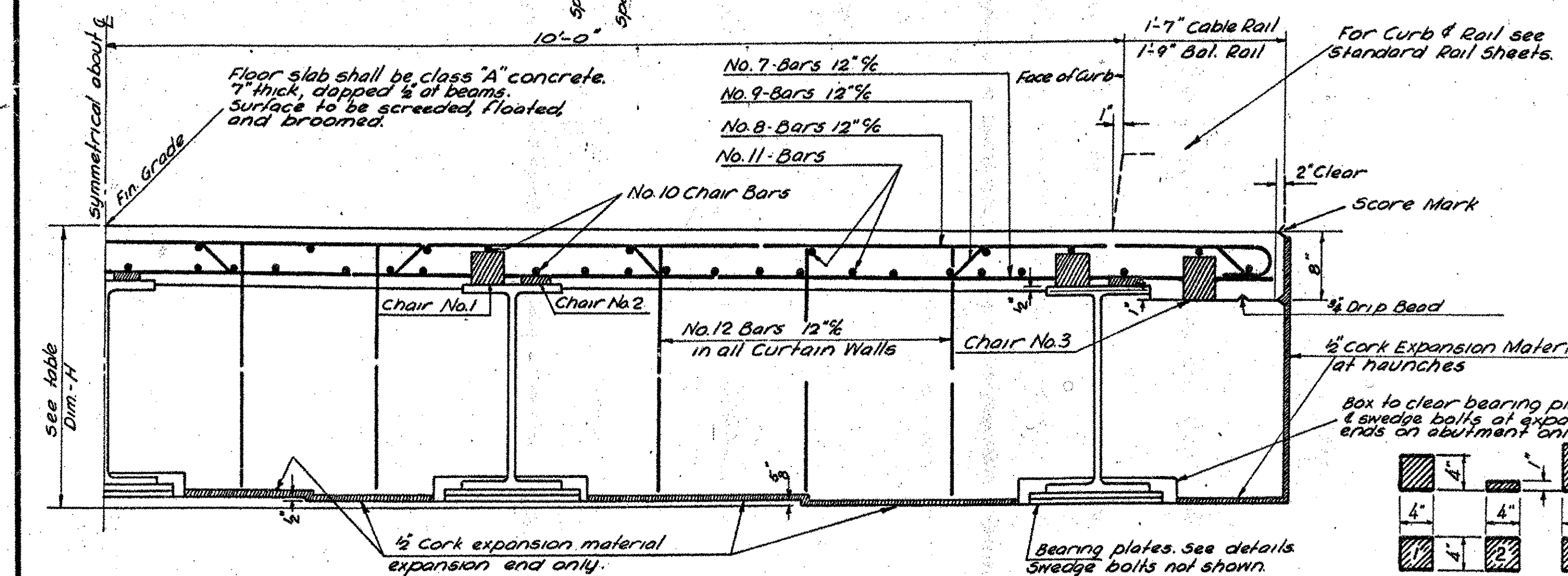
DETAIL OF DIAPHRAGM ASSEMBLY
 Shop connections may be riveted or 100% electric welded. Field connections to be 100% electric welded. If desired 1/2" bolts may be used at ends and thru beams for erection purposes.
 Spans 28'-0" thru 43'-0" require 1 set of diaphragms
 " 43'-0" " 69'-0" " 2 " "
 " 74'-0" " 84'-0" " 3 " "
 Diaphragms shall connect reference points at 1/2, 3/4 or 1 point(s) of adjoining beams.



BEARING PLATE DETAIL #1
 Use bearing plate #1 for both ends of spans 28'-0" to 69'-0" incl. and for fixed end only of spans 74'-0" and up. Approx. wt. one assembly #26.

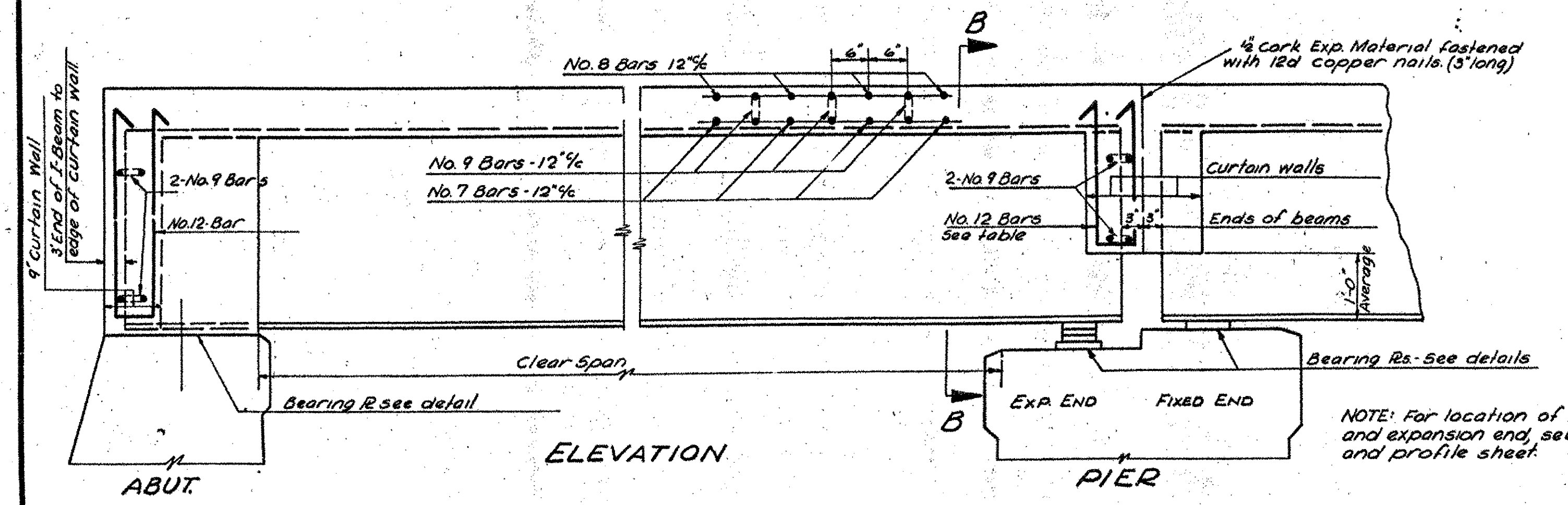


BEARING PLATE DETAIL #2
 Use for expansion end of spans 74'-0" and up. Approximate weight one assembly #130.



TYPICAL HALF SECTION

CONCRETE CHAIR DETAILS



ELEVATION

PIER

NOTE: For location of fixed and expansion end, see plan and profile sheet.

NOTES
 Steel superstructure to include 5W beams, 10 bearing plate assemblies and indicated diaphragms per span.
 All steel beams shall be rolled to a true circular camber, full length of the beam and the middle ordinate to be as noted for various spans in the table.
 All structural steel shall be painted as specified under item 43-A-B of Pamphlet 5, Standard Road & Bridge Specifications, State of Vermont, 1936 unless otherwise directed by the Engineer.
 The final coat of field paint shall be aluminum, unless otherwise directed by the Engineer.
 This sheet does not include quantities for railing, curbs, and posts.

BAR NO.	SPAN	T.L.	BAR NO.	SPAN	T.L.
BAR NO. 7-8"	28'-0"	27'-6"	BAR NO. 8-9"	33'-0"	32'-6"
BAR NO. 9-9"	38'-0"	37'-6"	BAR NO. 10-10"	43'-0"	42'-6"
BAR NO. 10-10"	48'-0"	47'-6"	BAR NO. 11-11"	53'-0"	52'-6"
BAR NO. 11-11"	58'-0"	57'-6"	BAR NO. 12-12"	63'-0"	62'-6"
BAR NO. 12-12"	68'-0"	67'-6"	BAR NO. 13-13"	73'-0"	72'-6"
BAR NO. 13-13"	78'-0"	77'-6"	BAR NO. 14-14"	83'-0"	82'-6"

OVERALL SPAN	REINFORCING STEEL - BARS REQD.						BALUN. BARS CU. YDS.	CABLE BARS CU. YDS.	STEEL SUPERSTRUC.
	BAR 7	BAR 8	BAR 9	BAR 10	BAR 11	BAR 12			
28'-0"	28	28	32	12	48	40	3677	175	11,409
33'-0"	33	33	37	12	48	40	4306	201	15,372
38'-0"	38	38	42	24	96	40	5011	227	19,984
43'-0"	43	43	47	24	96	40	5652	259	24,184
48'-0"	48	48	53	24	96	40	6335	285	32,078
53'-0"	53	53	58	24	96	40	7073	325	37,853
58'-0"	58	58	63	24	96	40	7883	354	45,889
63'-0"	63	63	68	24	96	40	8313	381	52,808
68'-0"	68	68	73	24	96	40	8942	407	64,943
73'-0"	73	73	78	24	96	40	9615	429	84,054
78'-0"	78	78	83	24	96	40	10252	460	93,279
83'-0"	83	83	88	36	144	40	10932	485	114,754

OVERALL SPAN	MID. ORG. FOR CAMBER	BEAM REQUIRED	LENGTH	SEC. MOG. REQUIRED	DIM. IN. x IN.	
					FINED	EXP.
28'-0"	2 1/2"	23 3/8" @ 74"	27'-6"	153.5	27 1/2"	27 1/2"
33'-0"	2 1/2"	24 3/8" @ 87"	32'-6"	196.5	27 3/4"	27 3/4"
38'-0"	2 1/2"	24" @ 100"	37'-6"	241.5	28 1/2"	28 1/2"
43'-0"	2 1/2"	29 3/8" @ 108"	42'-6"	288.5	32 1/2"	32 1/2"
48'-0"	2 1/2"	30 3/8" @ 124"	48'-6"	352.5	32 3/4"	32 3/4"
53'-0"	2 1/2"	33 3/8" @ 132"	53'-6"	407.0	34 1/2"	34 1/2"
58'-0"	2 1/2"	35 3/8" @ 150"	58'-6"	471.0	37 1/2"	37 1/2"
63'-0"	2 1/2"	36" @ 160"	63'-6"	537.5	37 3/4"	37 3/4"
68'-0"	2 1/2"	36 3/8" @ 183"	68'-6"	614.0	37 3/4"	37 3/4"
73'-0"	2 1/2"	39 3/8" @ 220"	73'-6"	688.5	34 1/2"	34 1/2"
78'-0"	2 1/2"	35 3/8" @ 230"	78'-6"	772.0	37 1/2"	37 1/2"
83'-0"	2 1/2"	36 1/4" @ 260"	83'-6"	881.0	37 1/2"	37 1/2"

STANDARD I BEAM BRIDGE
REINFORCED CONCRETE DECK
20' ROADWAY
28'-0" TO 84'-0" SPANS

CORRECT July 15 1943
 A. D. Bishop
 BRIDGE ENGINEER

ESTIMATED QUANTITIES	
REVISED: 6/24/37 Rtd. of No. 8 BAR	Surveys by: []
REVISED: 12/2/41 BEAM SIZE & WEIGHTS FOR SPANS 74'-0" & 84'-0" W.H.O.	
Traced by: []	Designed by: H.E.S.
Checked by: W.H.D.	Drawn by: D.W.P.
Series: SIB No. 2050	Traced by: A.W.P. REVISIONS []