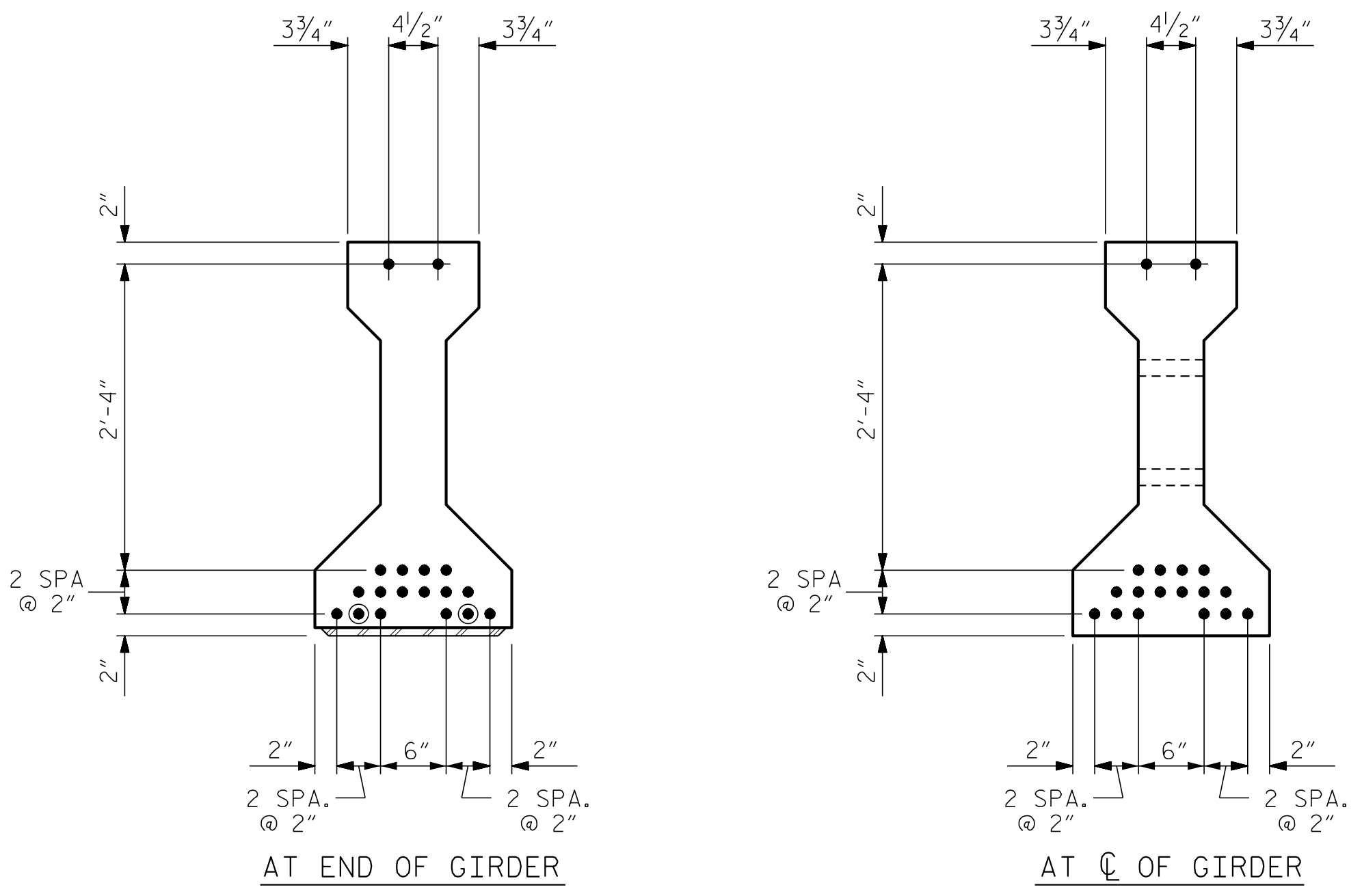


SECTION A-A

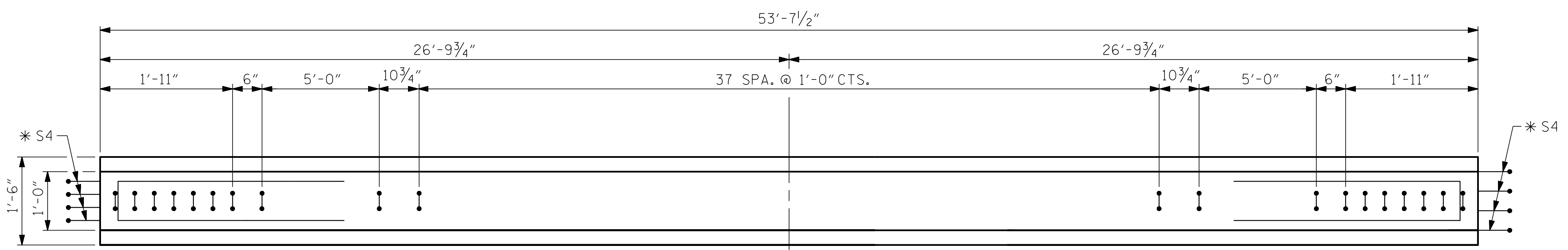
SECTION B-B

SECTION C-C
(S1 BARS NOT SHOWN)

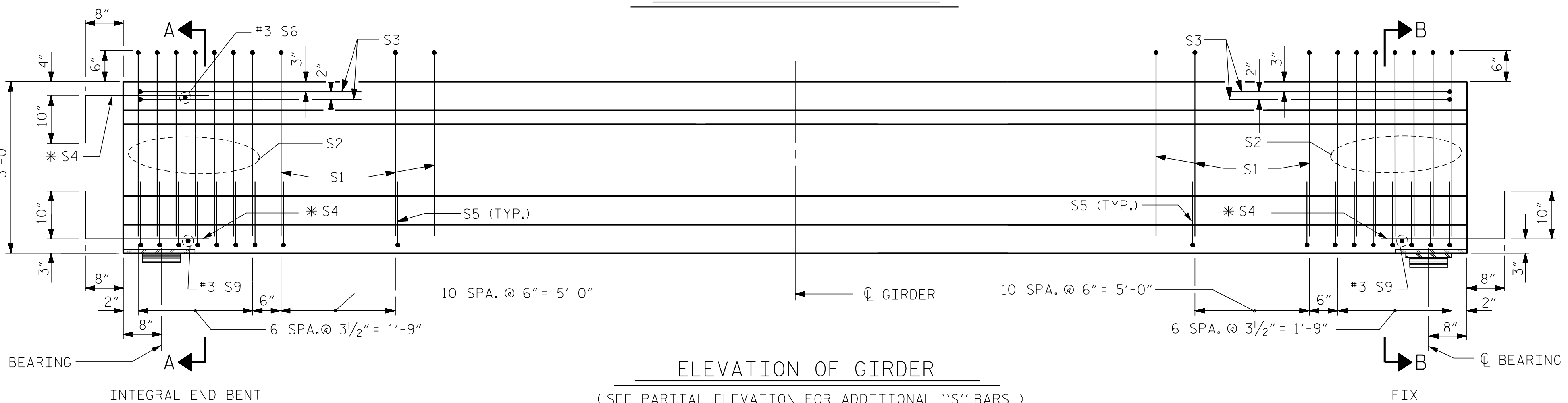


0.6" Ø LOW RELAXATION STRAND LAYOUT

● DEBONDING LENGTH = 4'-0"

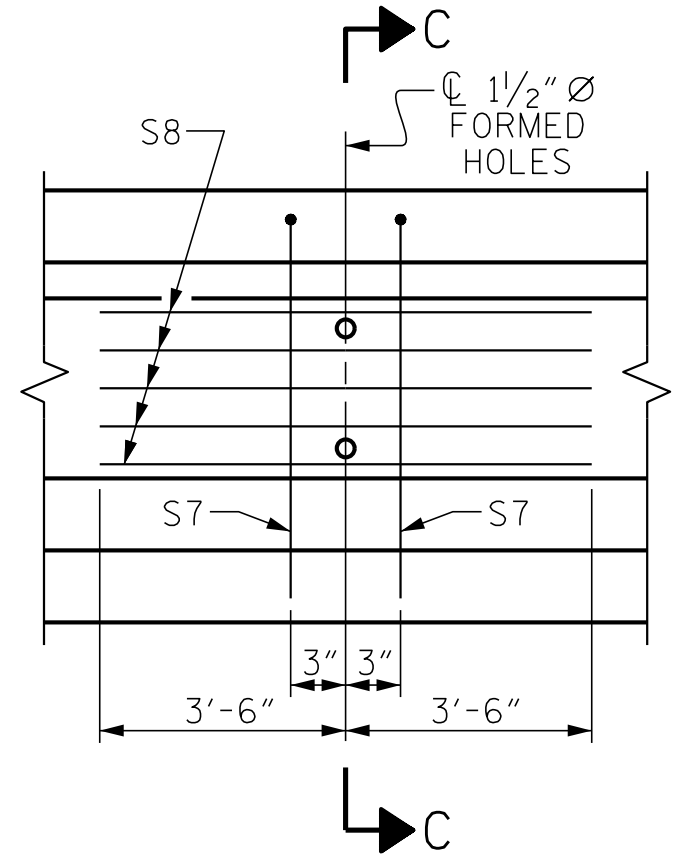


PLAN OF GIRDER



ELEVATION OF GIRDER

(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



PARTIAL ELEVATION

SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL

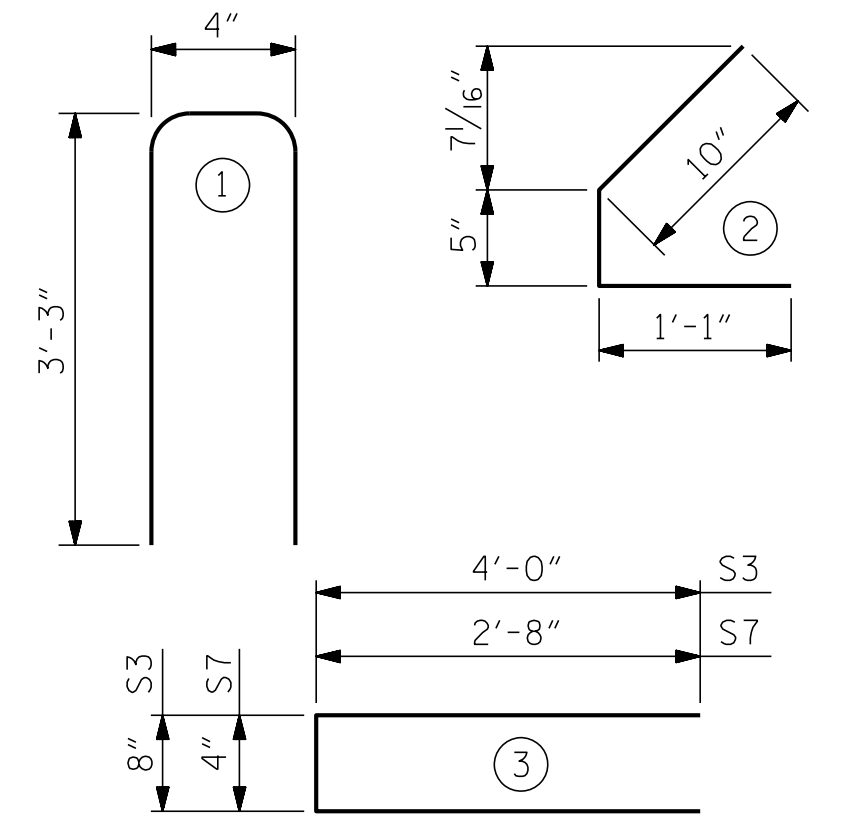
0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	60	#4	1	6'-10"	274
S2	14	#5	1	6'-10"	100
S3	4	#4	3	8'-8"	23
*S4	12	#5	STR	3'-8"	46
S5	72	#4	2	2'-4"	112
S6	1	#3	STR	8"	1
S7	2	#5	3	5'-8"	12
S8	5	#4	STR	7'-0"	23
S9	2	#3	STR	1'-2"	1

* NOTE: S4 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

REINFORCING STEEL	7,000 PSI CONCRETE	0.6" Ø L. R. STRANDS
LB.	C.Y.	No.
592	5.1	18

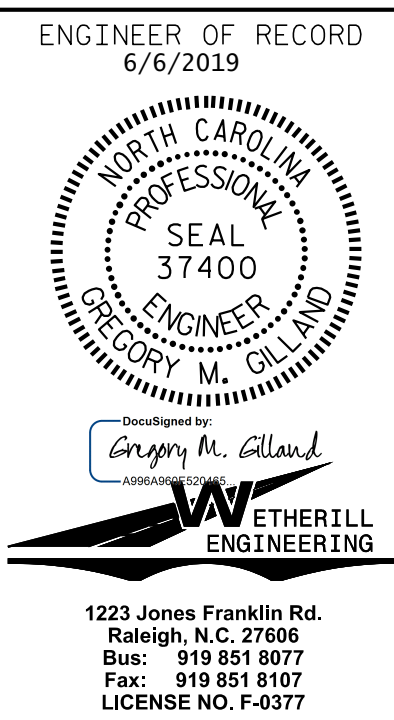
GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	53'-7 1/2"	429'-0"

PROJECT NO. BR-0014
CUMBERLAND COUNTY
STATION: 21+37.00 -LREV-

P:\2018\SMU Bridge Replacement Program\BR-0014\Structures\DG\NB\RO014_SMU_LG 1.dgn 6/6/2019 1:39:27 PM

ASSEMBLED BY : D. HODGE	DATE : 3/19
CHECKED BY : B.C. HUNT	DATE : 3/19
DRAWN BY : ELR 8/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 8/91	REV. 1/15 MAA/TMG
	REV. 12/17 MAA/THC



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
AASHTO TYPE II
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED