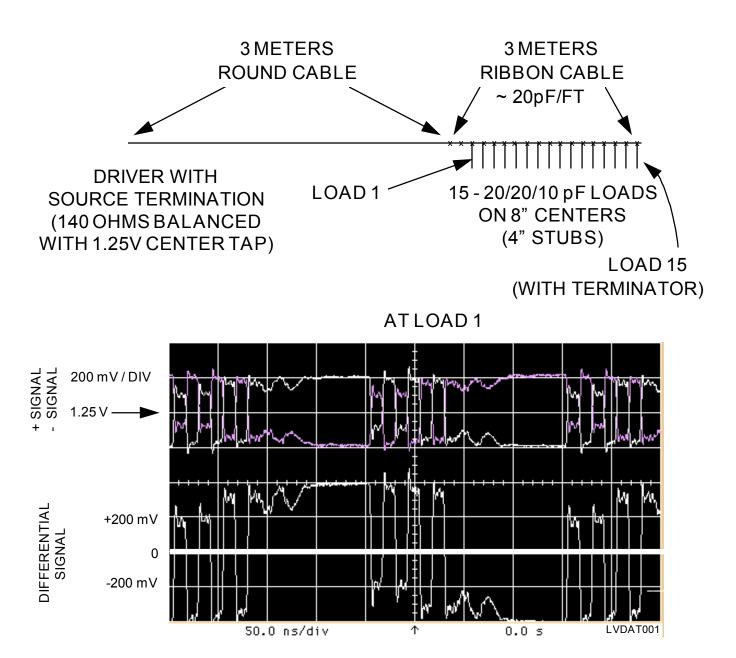
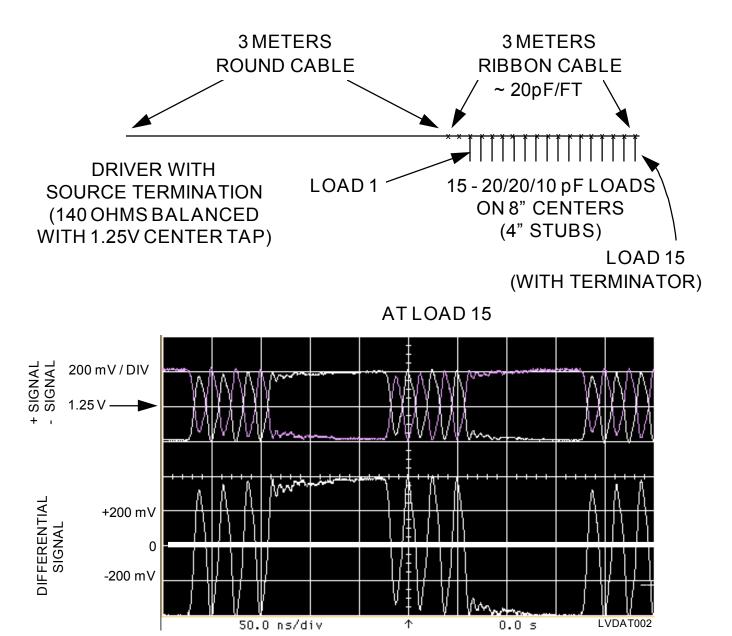
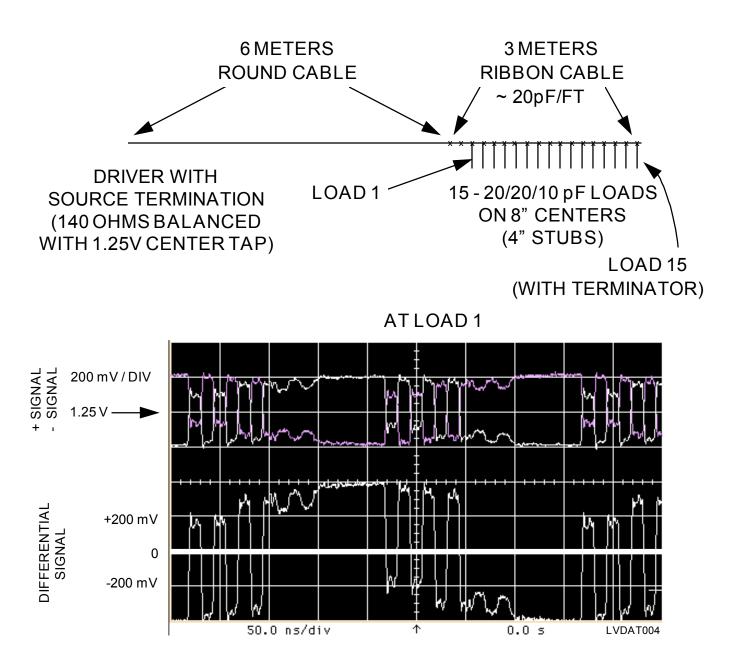
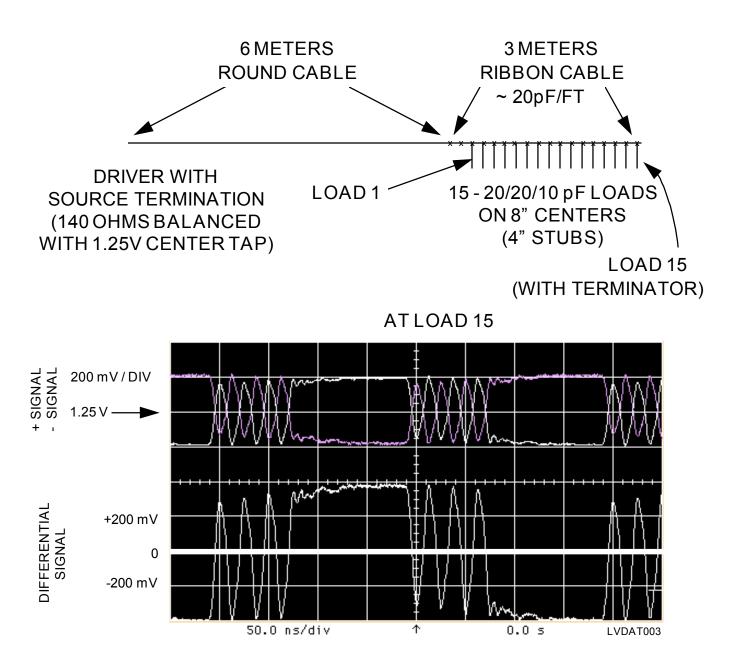
- THE CRITERIA FOR ADEQUATE SIGNALS AT THE RECEIVER HAS BEEN CHANGED TO REFLECT THE REQUIREMENTS IN SPI-2 REV 6
- THIS REQUIRES THAT A CERTAIN AMOUNT OF "OVERDRIVE" BE AVAILABLE FOR SHORT PULSES FOLLOWING LONG PULSES
- THE OVERDRIVE FORMULA USED IS MAX OF 30 mV OR -0.25*PREVIOUS VLONG
- SYMMETRICAL DRIVERS AND TERMINATORS WERE USED AS WE HAVE FOUND IT IMPOSSIBLE TO SIMULATE ASYMMETRICAL DRIVERS IN THE LAB
- PREVIOUS WORK STRONGLY SUGGESTED THAT ASYMMETRICAL DRIVERS WOULD COMPENSATE FOR ASYMMETRICAL TERMINATORS
- THIS DATA SUGGESTS THAT A 15 METER LVD SEGMENT, ARBITRARILY LOADED WITH 15 20/20/10 DEVICES ON 8" CENTERS SHOULD WORK\(USING 20pF/FT CABLE)
- POINT TO POINT LENGTHS OF ~ 35 METERS APPEAR REASONABLE

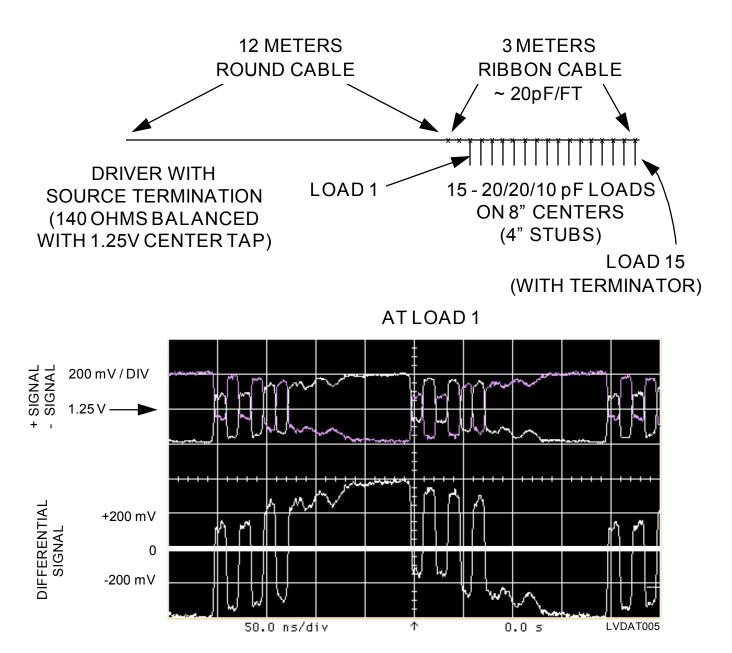
BILL HAM DIGITAL EQUIPMENT SPI-2 WORKING GROUP APRIL 22, 1996

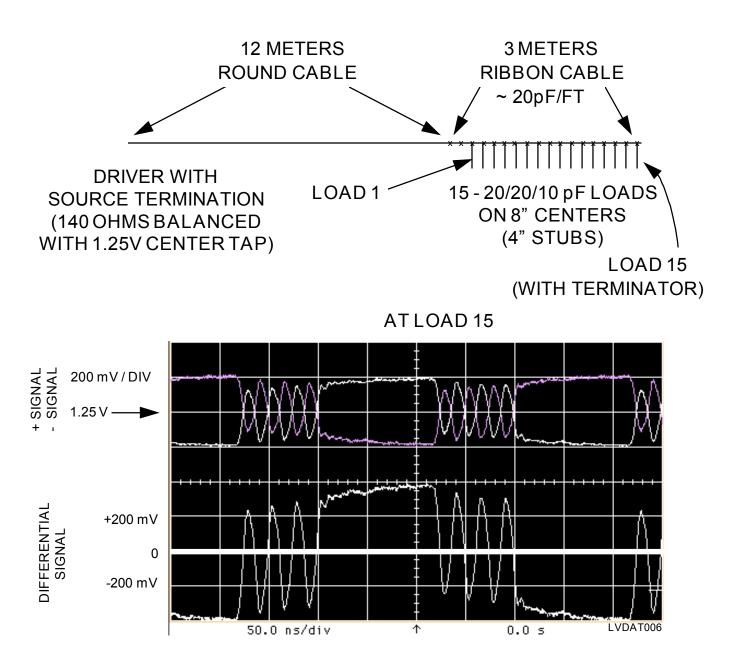


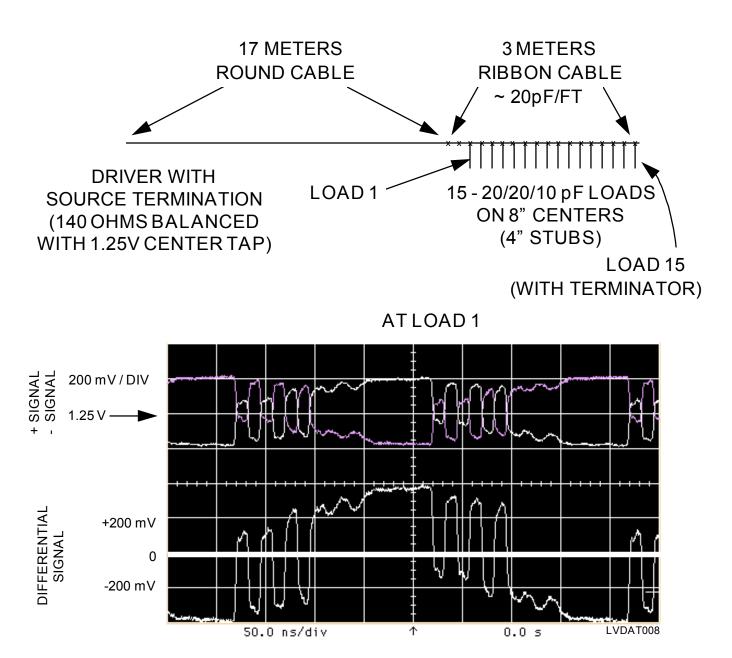


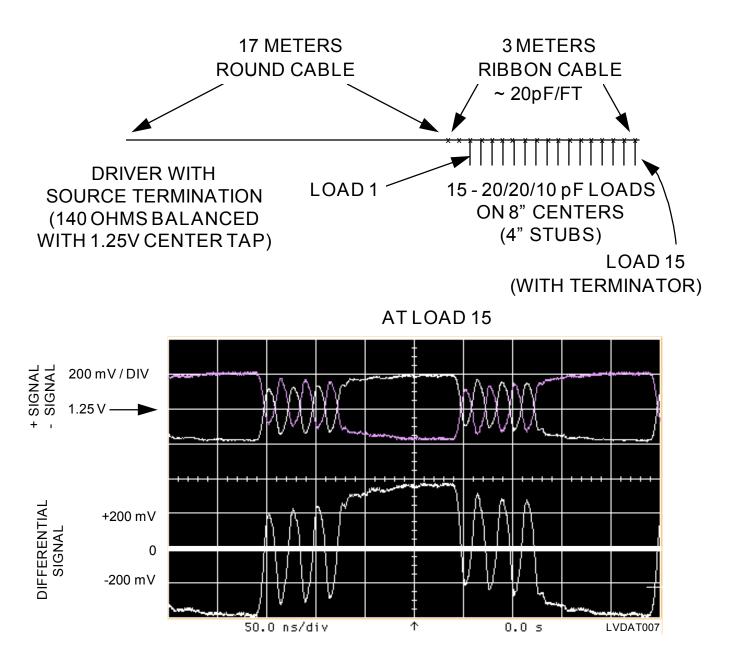


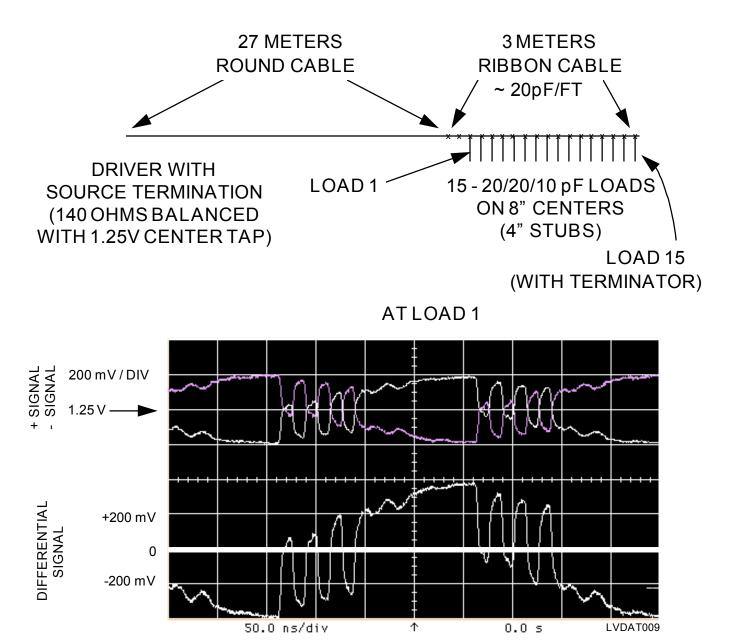






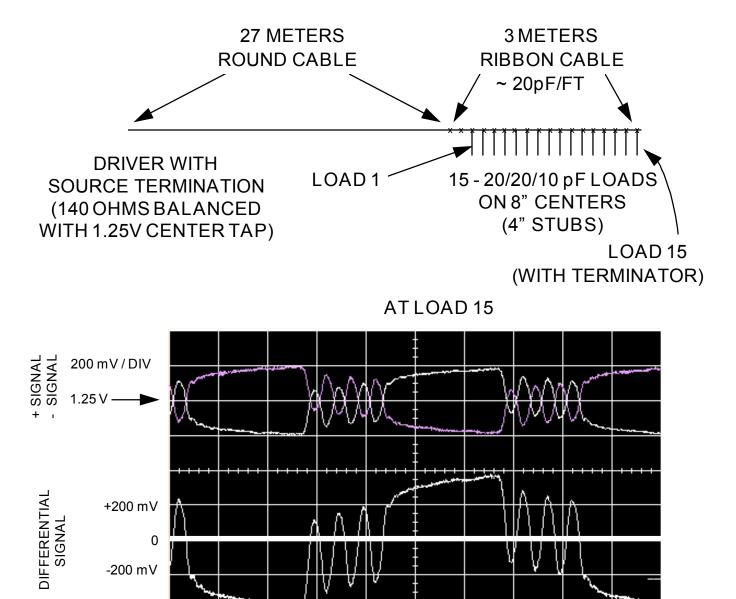






LVDAT010

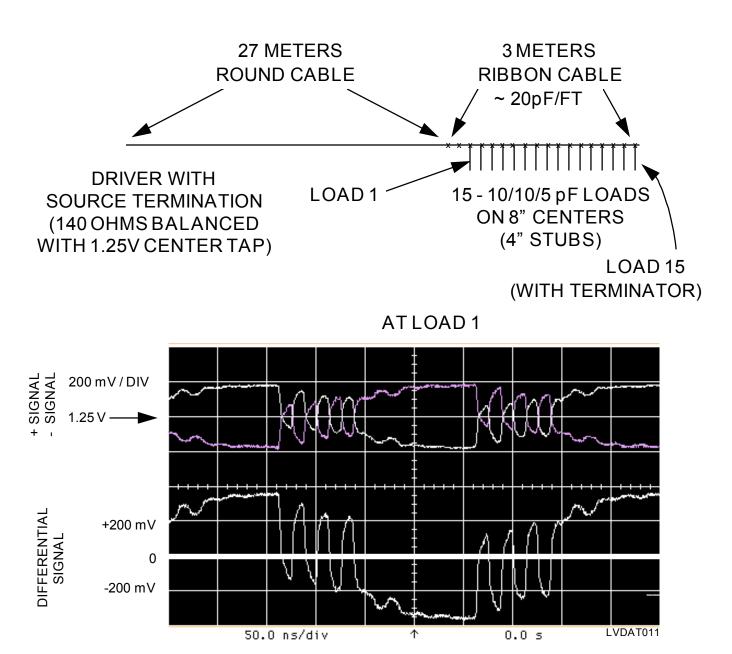
LVD FAST 40 REQ/ACK TEST RESULTS WITH SYMMETRICAL DRIVERS AND TERMINATORS

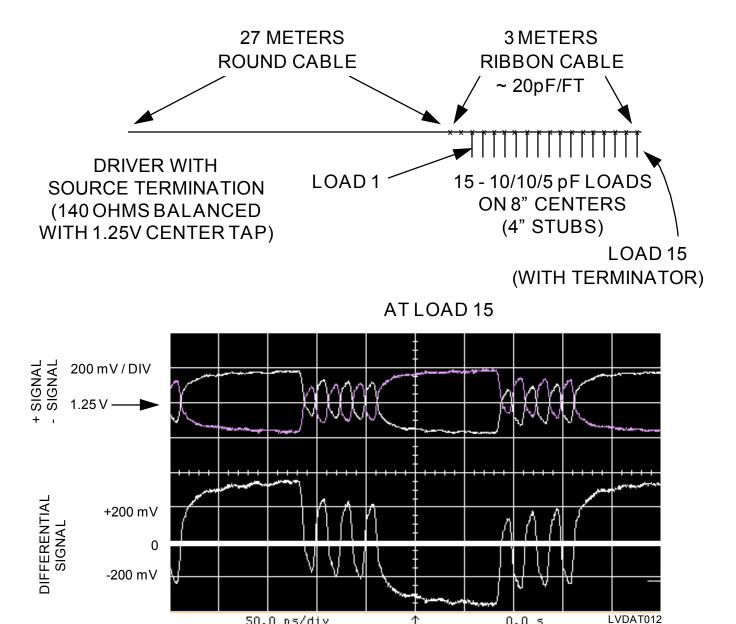


Τ

0.0 s

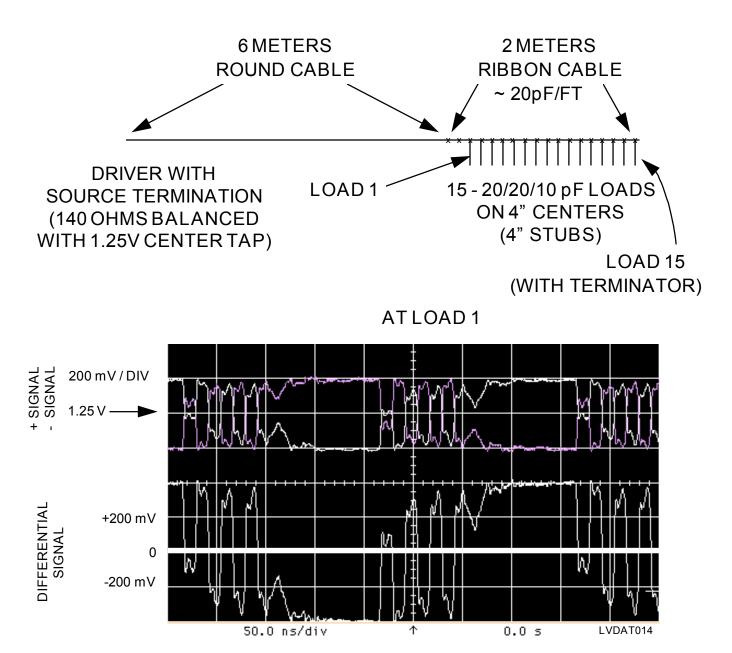
50.0 ns/div

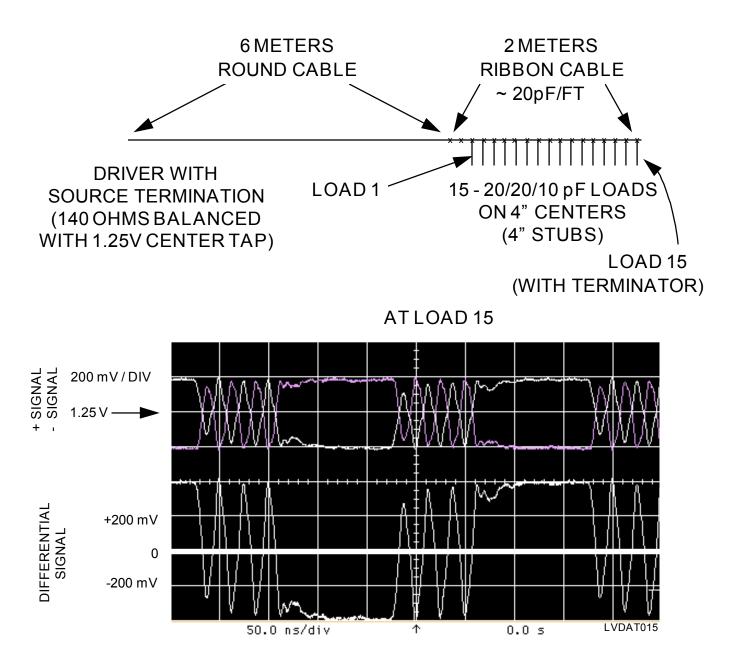


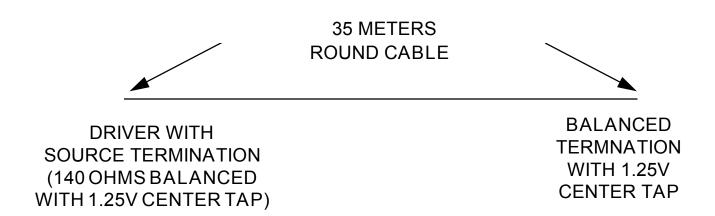


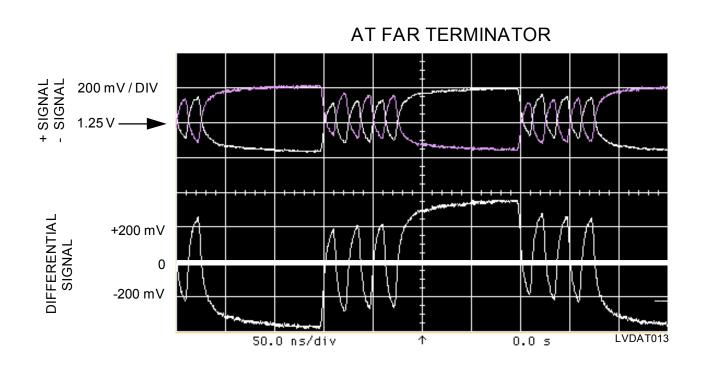
0.0 s

50.0 ns/div









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TENTATIVE FAST 40 CONFIGURATION RULES:

- DEVICE CAPACITANCE NOT GREATER THAN 20/20/10 pF (C1,C2,C3)
- DEVICE SPACING NOT CLOSER THAN EQUIVALENT OF 8" WITH 20pF/FT MEDIA (E.G. 4" WITH 40 pF/FT MEDIA)
 - THIS RULE APPLIES AT ANY LENGTH -SHORTER LENGTHS DO NOT AFFECT THIS REQUIREMENT
- WITH MAXIMUM LOADING PRESENT ANYWHERE IN THE SEGENT THE MAXIMUM LENGTH IS 15 METERS
- WITH LOADING LESS THAN THE EQUIVALENT OF 20/20/10 DEVICES AT 1 METER SEPARATION THE MAXIMUM LENGTH IS 25 METERS
- POINT TO POINT MAX SEGMENT LENGTH IS 35 METERS
- ALL OTHER REQUIREMENTS IN SPI-2 REV
 06 SHALL BE IMPLEMENTED