Proposed changes to ANSI X3.222-1993– (and which have been incorporated in Rev 3.0)

Proposed technical changes are preceded with (T), proposed editorial changes are preceded with (E).

Rev 2.7, July 15, 1993 version - The following changes were the result of comments from the ISO editor, and some updated RFC numbers.

1. (E) Change 4.1, last NOTE, by deleting the word "annex" in "See annex B.1 for details.".
2. (E) Change 4.4, first entry following the NOTE, add "as described in RFC 1374 "IP and ARP on HIPPI" [1]" after "..., including HIPPI-LE Address Resolution requests".
3. (E) Change 4.4, other entries, by adding [*n*] to denote the associated entry in the Bibliography.
4. (E) Change Annex C, Bibliography, by the addition of "[*n*]" in the front of each entry to correspond to the new reference numbers in 4.4.
5. (E) Change Annex C, Bibliography, RFC 1034 changes to "RFC 1131". The RFC number was incorrect.
6. (E) Change Annex C, Bibliography, second entry from "RFC 826, Ethernet address resolution protocol. (Describes a technique whereby Internet Protocol equipped hosts may discover the media address of a destination host with a known IP address by broadcasting a request to the IP address owner.)" to "RFC 1374, *IP and ARP on HIPPI.* (Describes a technique whereby Internet Protocol equipped hosts using a HIPPI compliant interface may discover the media address of a destination host with a known IP address.)".

Rev 2.8, August 3, 1995 version - The following changes were made to support address self-discovery, and to clarify the physical nature of switch ports.

7. (E) Changed the introduction by deleting the text starting "The information in the document..." through "Clause 5 specifies the behavior of a switch with regards to HIPPI control signals" for compatibility with the ISO document.
8. (E) Change clause 2. the normative reference for HIPPI-LE changes from "-199x" to "-1993".
9. (T) Added HIPPI-Serial to the list of normative references in clause 2.
10. (T) In 4.4, added three trial self-discovery addresses, and a paragraph of text defining their operation.
11. (T) In 4.4, added global address FFE(hex) as "Loopback logical address". Added text to the next entry for "Unknown or unassigned address".
12. (T) In 5, added the sentence: "These HIPPI ports shall conform to either the HIPPI-PH or HIPPI-Serial specifications."
13. (E) Added all of B.3 in annex B describing different methods of doing address self-discovery, and an algorithm for doing it.

Rev 2.9, September 26, 1995 version - The following changes were made to clarify and expand the address self-discovery, and to add reserved addresses for switch management.

14. (T) In the Introduction, added a bullet about the reserved addresses. Deleted the figure for the HIPPI documents to avoid problems with the ISO editor. Renumbered the other figures in the document down by one.
15. (T) Add 3.1.10, a definition for "nibble".
16. (E) Reordered the text of 4.4 by combining some text. Changed all of the addresses from binary to hexadecimal notation. Grouped addresses F90 - FBF as one item

instead of three. Moved the text describing the trial self-discovery addresses from a separate paragraph to the F90-FBF address entry.

17. (T) In 4.4, removed the requirement that "a switch shall automatically provide the self-discovery address mapping, or be capable of having them loaded". Added reserved addresses FEE and FFD.
18. (T) In 5.5.2, added the fifth bullet specifying "when ... the Destination logical address is not mapped to any physical output port".
19. (T) Made major changes to annex B.3 describing the logical address self-discovery. Added a precedence for the procedures. Changed the address notation from binary to hexadecimal. Changed the description and pseudo-code to use Camp-on (before it did not use it). Expanded the pseudo-code to include the case of connection requests "passing in the night". Expanded the pseudo-code to include a timeout. Split up and moved the explanatory text closer to the pseudo-code entries. Broke the connection after each trial.

Rev 3.0, January 24, 1996 version - The following changes were made to the address self-discovery pseudo-code, and to add cautions about different clock frequencies in implementations.

20. (E) On the front cover, the name of the secretariat was updated to their new name, i.e., ITI.
21. (T) Changed the last paragraph and pseudo-code in B.3.5.3 to check for a host directly connected to another host without an intervening switch. The change shows up in Rev 3.0, in the last three paragraphs, and associated pseudo-code, of B.3.5.3.
22. (T) Added B.4 with cautions about different CLOCK frequencies affecting the CONNECT and READY signals. This is essentially the same text that is in HIPPI-Serial D.1.2 and D.1.3.