QWEST Communications International Inc.
Technical Publication

Mechanized Invoice
Interpretation
of TCIF Guidelines

NOTICE

This document contains the QWEST Communications International Inc. interpretation of the Telecommunications Industry Forum (TCIF) Guidelines for Issue One of the Mechanized Invoice Transaction Set 810.

This interpretation specifies all requirements necessary for the PICS/DCPR (BVAPP) System to process the electronic data transmission of Transaction Set 810.

QWEST Communications International Inc. reserves the right, without prior notice, to revise this publication for any reason.

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Throughout this publication, the term QWEST signifies QWEST Communications International Inc.

COMMENTS on PUB 77364

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Was this Publication valuable to you in understanding
the technical parameters of our service?   YES _____ NO _____

Was the information accurate and up-to-date?   YES _____ NO _____

Was the information easily understood?   YES _____ NO _____

Were the contents logically sequenced?   YES _____ NO _____

Were the tables and figures understandable and helpful   YES _____ NO _____

Were the pages legible?   YES _____ NO _____

If you answered NO to any of the questions and/or if you have any other comments or suggestions, please explain:

_____

_____

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(Attach additional sheet, if necessary)

Name _____ Date _____

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_____

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_____

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_____

E-Mail
_____

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DATA SEGMENT SEQUENCE

MECHANIZED INVOICE TRANSACTION
HEADING AREA

1.   Data Segment Sequence

1.2   Mechanized Invoice Transaction Heading Area

Segment Identifier	Title	Req. Desig-nator	Max Use	Loop ID/ Repeat Counts	Explanatory Comments
ST	Transaction Set Header	M	1		
BIG	Beginning Segment (Invoice)	M	1		
NTE	Note	F	100		Can appear anywhere after the BIG Segment.
@ CUR	Currency	-	-		
N1	Name	0	1		
@ N2	Additional Name	-	-		
N3	Street Address	0	2	N1/5	Loop N1 is optional, but if used, segment N1 is mandatory.
N4	City/State	0	1		
@ REF	Reference Numbers	-	-		
PER	Administrative Communications Contact	0	3		
ITD	Terms/Deferred Terms of Sale	0	5		
DTM	Date/Time Reference	0	1		
FOB	F.O.B. Related Instructions	0	1		

_____

@ Segment not used by the Telecommunications Industry.

DATA SEGMENT SEQUENCE

MECHANIZED INVOICE TRANSACTION
DETAIL AREA

Segment Identifier	Title	Req. Desig-nator	Loop ID/Max Use	Repeat Counts	Explanatory Comments
IT1	Baseline Item Data	M	1		At least one occurrence of IT1 loop is required.
@ CUR	Currency	-	-		
SLN	Subline Item Detail	0	100		
J2X	Item Description	0	1000		
@ IT3	Additional Item Data	-	-		
@ CTP	Pricing/Discounting Infor.	-	-		
@ IT4	Item Physical Details	-	-		
ITA	Allowance or Charge	0	10		Segment also in Summary Area.
@ ITD	Terms/Deferred Terms of Sale	-	-		IT1/10,000
N1	Name	0	1		
@ N2	Additional Name	-	-		
N3	Street Address	0	2	N1/5	Loop N1 is optional, but if used, segment N1 is mandatory.
N4	City/State	0	1		
@ REF	Reference Numbers	-	-		
PER	Administrative Communications Contact	0	3		
@ DTM	Date/Time Reference	-	-		Segment also in Header Area.
@ CAD	Carrier Detail	-	-		Segment also in Summary Area.

@ Segment not used by the Telecommunications Industry.

<u>DATA</u> <u>SEGMENT</u> <u>SEQUENCE</u>

MECHANIZED INVOICE TRANSACTION
SUMMARY AREA

Segment Identifier	Title	Req. Designator	Max Use	Loop ID/ Repeat Counts	Explanatory Comments
TDS	Total Monetary Value Summary	M	1		
CAD	Carrier Detail	0	1		
ITA	Allowance or Charge	0	10		Segment also in Detail Area.
ISS	Invoice Shipment Summary	0	1		
CTT	Transaction Totals	M	1		Number of line Items (CTT01) is the accumulation of the number of IT1 segments. The Hash Total (CTT02) is the sum of all Quantity Invoiced (IT102) amounts.
SE	Transaction Set Trailer	M	1		

@ Segment not used by the Telecommunications Industry.

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INVOICE TRANSACTION SET
DETAIL DESCRIPTION

2.   Invoice Header Segments

2.1   ST - Transaction Set Header

Purpose: To identify the start of each transaction set.

Spec: Mandatory Max Length = 17 Max Use = 1

Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    |  ST01         143    |    |  ST02         329    |    |
|        |    |                      |    |                      |    |
|  ST    | *  |   TRANSACTION        | *  |   TRANS. SET         | N  |
|        |    |     SET ID           |    |   CONTROL NO.        | L  |
|        |    |  M     ID    03/03   |    |   M        AN        |    |
|        |    |                      |    |      04/09           |    |
+--------+----+----------------------+----+----------------------+----+
```
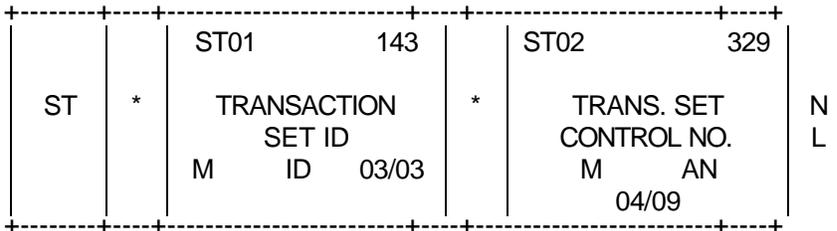
ST01.   Transaction Set I.D. (Data Element #143)

               (Spec: Mandatory Type = ID Min/Max = 03/03)

               This data element identifies the type of transaction set that is to follow.
               '810' will be used to indicate that this is an invoice transaction set. The
               Functional ID (GS01) value in the GS segment must be "IN".

ST02.   Transaction Set Control Number (Data Element #329)

               (Spec: Mandatory Type = AN Min/Max - 04/09)

               This data element is the identifying control number assigned by the
               originator of the transaction set. The value of this element must equal the
               same data element in the Transaction Set Trailer (SE02).

2.2   BIG - Beginning Segment (Invoice)

Purpose: To indicate the beginning of an invoice transaction set and transmit
              identifying numbers and dates.

Spec: Mandatory Max Length = 107 Max Use = 1

Diagram:

```
+--------+----+------------------------+----+------------------------+----+------------------------+----+
|             | BIG01       245        |    | BIG02       76         |    | BIG03       323        |    |
|             |                        |    |                        |    |                        |    |
| BIG    |  * |      INVOICE           |  * |      INVOICE           |  * |      PURCHASE          |  * |
|             |       DATE             |    |       NUMBER           |    |     ORDER DATE         |    |
|             |   M    DT    06/06     |    |   M    AN    01/10     |    |   O    DT    06/06     |    |
+--------+----+------------------------+----+------------------------+----+------------------------+----+


              +------------------------+----+------------------------+----+----------------------------+----+
              | BIG04       324        |    | BIG05       328        |    | BIG06                      |    |
              |                        |    |                        |    |      327                   |    |
              |      PURCHASE          |  * |      RELEASE           |  * |                            |  * |
              |     ORDER NO.          |    |       NUMBER           |    | CHGE. ORDER                |    |
              |   M    AN    01/22     |    |   O    AN    01/10     |    |   SEQ. NO.                 |    |
              |                        |    |                        |    |   O          AN            |    |
              |                        |    |                        |    |        01/03               |    |
              +------------------------+----+------------------------+----+----------------------------+----+


              +------------------------+----+
              | BIG07       640        |    |
              |                        | N  |
              |      INVOICE           | L  |
              |       TYPE             |    |
              |   O    ID    02/02     |    |
              +------------------------+----+
```
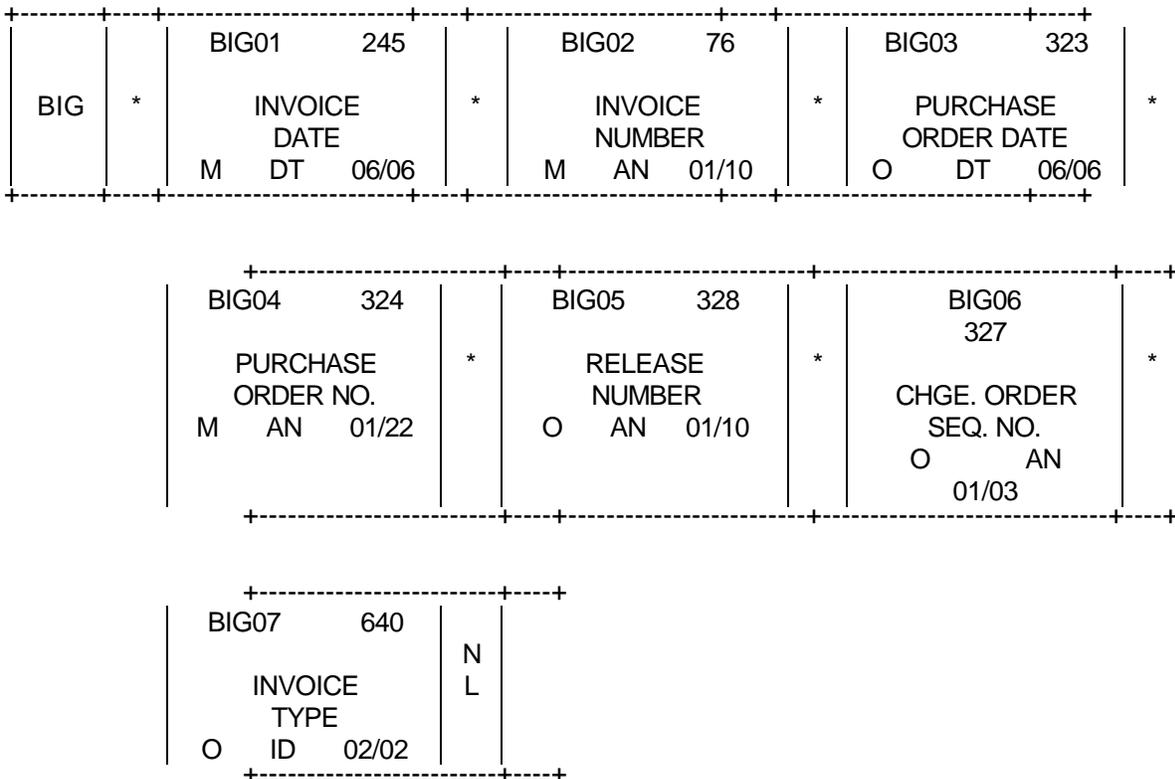
BIG01.   Invoice Date (Data Element #245)

              (Spec: Mandatory Type = DT Min/Max = 06/06)

              The invoice date is assigned by the sending party. It indicates the date the
              invoice was created by the sender.

BIG02.   Invoice Number (Data Element #76)

              (Spec: Mandatory Type = AN Min/Max = 01/10)

              The invoice number is assigned by the sending party. Note that the
              maximum length of this data element is less than ANSI.

BIG03.　　　　Purchase Order Date (Data Element #323)

(Spec: Optional Type = DT Min/Max = 06/06)

The Purchase Order Date as contained in the original Purchase Order is to be returned on the Invoice transaction set.

BIG04.　　　　Purchase Order Number (Data Element #324)

(Spec: Mandatory Type = AN Min/Max = 01/22)

This data element contains the Purchase Order Number provided on the original P.O. For central office equipment purchases, this must be the 10 character BV number.

BIG05.　　　　Release Number (Data Element #328)

(Spec: Optional Type = AN Min/Max = 01/10)

This number identifies a release against a standard or blanket purchase order previously agreed to by the trading partners. Note that the maximum length of this data element is less than ANSI.

BIG06.　　　　Change Order Sequence Number (Data Element #327)

(Spec: Optional Type = AN Min/Max = 01/03)

This number is used to indicate a change to a previously generated purchase order. It is to be used for audit and verification purposes. Note that the maximum length of this data element is less than ANSI.

BIG07.　　　　Invoice Type (Data Element #640)

(Spec: Optional Type = ID Min/Max = 02/02)

This is a code specifying the type of invoice. The TI-recognized codes can be found in Appendix A. This is to be used for final billing only. Code 'RE' (Rebill) can only be used in PICS/DCPR (BVAPP) if previously sent invoice has not been paid.

2.3   NTE - Note

Purpose: To provide information in a free-form format to meet purposes deemed
               necessary by and negotiated between trading partners.

Spec: Floating Max Length = 69 Max Use = 100

Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    |    NTE01      363    |    |    NTE02       3     |    |
|        |    |        NOTE          |    |                      |  N |
|  NTE   | *  |    REFERENCE         | *  |    FREE-FORM         |    |
|        |    |      CODE            |    |     MESSAGE          |  L |
|        |    |   O    ID    03/03   |    |   M    AN    01/60   |    |
+--------+----+----------------------+----+----------------------+----+
```
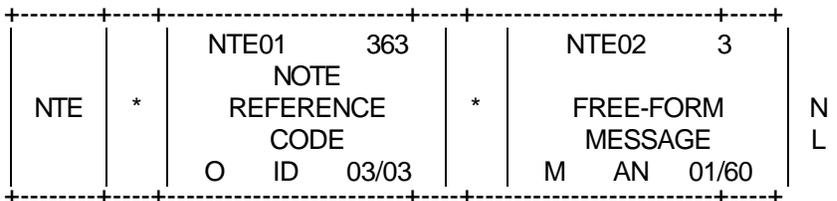
NTE01.   Note Reference Code (Data Element #363)

               (Spec: Optional Type = ID Min/Max = 03/03)

               This data element defines the type of note or message. The TI-recognized
               codes can be found in Appendix A.

NTE02.   Free-Form Message (Data Element #3)

               (Spec: Mandatory Type = AN Min/Max = 01/60)

               This data element is the free-form note.

NOTE: 1.   This is an optional segment that permits free-form information/(data which,
               under the ANSI X12 standard implementation, is not machine processible.
               The use of the 'NTE' Segment should, therefore, be avoided, if at all
               possible, in an automated environment.

               This segment may appear anywhere within the transaction set after the
               Beginning Segment (BAK) and before the Transaction Set Trailer (SE). It
               may be used in all loops, except as the first segment in a loop.

2.4   N1 - Name

Purpose: To identify a party by the type of organization, name, or code. If the Name
                (N102) is used in this segment, the N3 and N4 segments are required.

                NOTE: For PICS/DCPR (BVAPP), the vendor must send either the name or
                the code, not both.

Spec: Optional Max Length = 63 Max Use = 1 N1 Loopstart Max Loops = 5

Diagram:
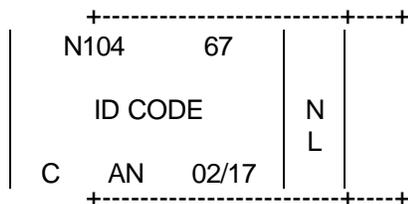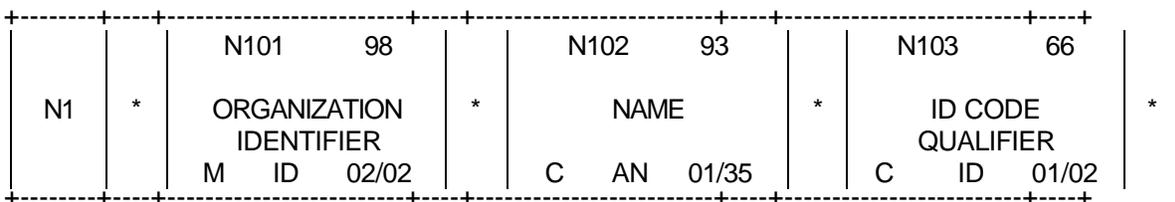
```
+--------+----+-----------------------+----+---------------------+----+-----------------------+----+
|        |    |   N101        98      |    |   N102       93     |    |   N103        66      |    |
|        |    |                       |    |                     |    |                       |    |
|  N1    | *  |   ORGANIZATION        | *  |       NAME          | *  |    ID CODE            | *  |
|        |    |   IDENTIFIER          |    |                     |    |    QUALIFIER          |    |
|        |    |   M    ID    02/02    |    |  C    AN    01/35   |    |  C    ID    01/02     |    |
+--------+----+-----------------------+----+---------------------+----+-----------------------+----+

                    +-----------------------+----+
                    |   N104        67      |    |
                    |                       |    |
                    |   ID CODE             | N  |
                    |                       | L  |
                    |  C    AN    02/17     |    |
                    +-----------------------+----+
```

N101.   Organization Identifier (Data Element #98)

                (Spec: Mandatory Type = ID Min/Max = 02/02)

                This data element defines the organization specified in the Name data
                element (N102). The preferred TI-recognized codes for this transaction
                are:

                <u>CODE</u>   <u>DEFINITION</u>

                BY   Buyer
                SE   Seller

                A complete list of the TI-recognized codes can be found in Appendix A.

N102.   Name (Data Element #93)

               (Spec: Conditional Type = AN Min/Max = 01/35)

               This data element contains the name of the party referenced by the
               Organization Identifier (N101). See Note 1. May not use both name and
               code.

N103.   I.D. Code Qualifier (Data Element #66)

               (Spec: Conditional Type = ID Min/Max = 01/02)

               This data element identifies the type code found in the I.D. Code data
               element (N104). See Note 1. The TI-recognized codes can be found in
               Appendix A. 'ZZ' code must be present when using ID code qualifier
               (N103).

N104.   I.D. Code (Data Element #67)

               (Spec: Conditional Type = AN Min/Max = 02/17)

               This data element contains the mutually agreed upon code identifying the
               organization specified in the I.D. Code Qualifier (N103). See Note 1.

               - Essential to all invoices processed through PICS/DCPR (BVAPP).

               - May not use both name and code.

               - Must be the same code as that of interchange header receiver ID (ISA
               08) minus trailing blanks.

               NOTE: 1. Either N102 or N103 and N104 are required.

2.5   N3 - Street Address

Purpose: To specify the street, building, or other address information. This segment is required if the Name (N102) was specified in the N1 segment.

Spec: Optional Max Length = 75 Max Use = 2 Within the N1 loop

Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    |   N301        166    |    |   N302        166    |    |
|        |    |                      |    |                      |    |
|  N1    | *  |      STREET          | *  |      STREET          | N  |
|        |    |     ADDRESS          |    |     ADDRESS          | L  |
|        |    |   M    AN    01/35   |    |   O    AN    01/35   |    |
+--------+----+----------------------+----+----------------------+----+
```

N301.   Street Address (Data Element #166)

(Spec: Mandatory Type = AN Min/Max = 01/35)

This data element is used to give the street address.

N302.   Street Address (Data Element #166)

(Spec: Optional Type = AN Min/Max = 01/35)

This data element is used to give additional street address information.

2.6   N4- City/State

Purpose: To specify the geographic location of the named party. This segment is
              required if the Name (N102) was specified in the N1 segment.

Spec: Optional Max Length = 68 Max Use = 1 Within the N1 loop
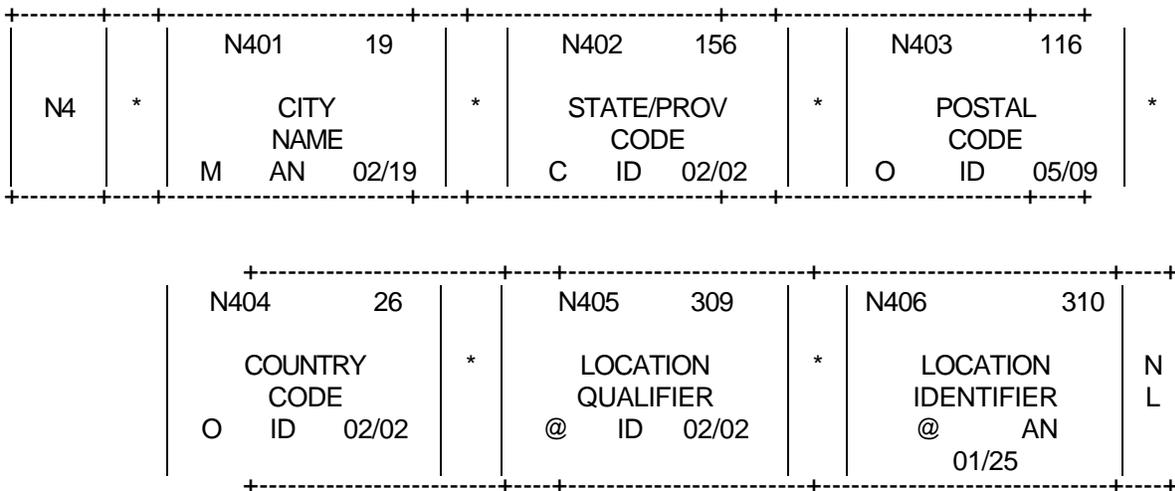
Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+----+
|        |    |   N401         19    |    |   N402        156    |    |   N403        116    |    |
|        |    |                      |    |                      |    |                      |    |
|  N4    | *  |      CITY            | *  |    STATE/PROV        | *  |      POSTAL          | *  |
|        |    |      NAME            |    |      CODE            |    |      CODE            |    |
|        |    |   M   AN    02/19    |    |   C   ID    02/02    |    |   O   ID    05/09    |    |
+--------+----+----------------------+----+----------------------+----+----------------------+----+


         +----------------------+----+----------------------+----+--------------------------+----+
         |   N404        26     |    |   N405        309    |    |   N406           310     |    |
         |                      |    |                      |    |                          | N  |
         |    COUNTRY           | *  |    LOCATION          | *  |    LOCATION              | L  |
         |    CODE              |    |    QUALIFIER         |    |    IDENTIFIER            |    |
         |   O   ID    02/02    |    |   @   ID    02/02    |    |   @        AN            |    |
         |                      |    |                      |    |      01/25               |    |
         +----------------------+----+----------------------+----+--------------------------+----+
```

N401.   City Name (Data Element #19)

              (Spec: Mandatory Type = AN Min/Max = 02/19)

              This data element specifies the city of the named party.

N402.   State/Province Code (Data Element #156)

              (Spec: Conditional Type = ID Min/Max = 02/02)

              This data element is a two-position abbreviation as contained in the
              document FIPS-PUB-5-1. The document is available from:

              National Technical Information Service
              Springfield, Virginia 22161

              See Note 1.

N403.   Postal Code (Data Element #116)

             (Spec: Optional Type = ID Min/Max = 05/09)

             This data element identifies the postal zone code, excluding punctuation or blanks. For the United States, this is the ZIP Code.

N404.   ISO Standard Country Code (Data Element #26)

             (Spec: Optional Type = ID Min/Max = 02/02)

             This data element is a two-position code contained in the document Codes for Representation of Names and Countries (ISO 3166-1974(E)). The international standard provides a two-letter alphabetic code for representing the names of countries, dependencies, and other areas of special geopolitical interest for purposes of international exchange and general directions for the maintenance of the code. The standard is intended for use in any application requiring expression of entities in coded form. It is available from:

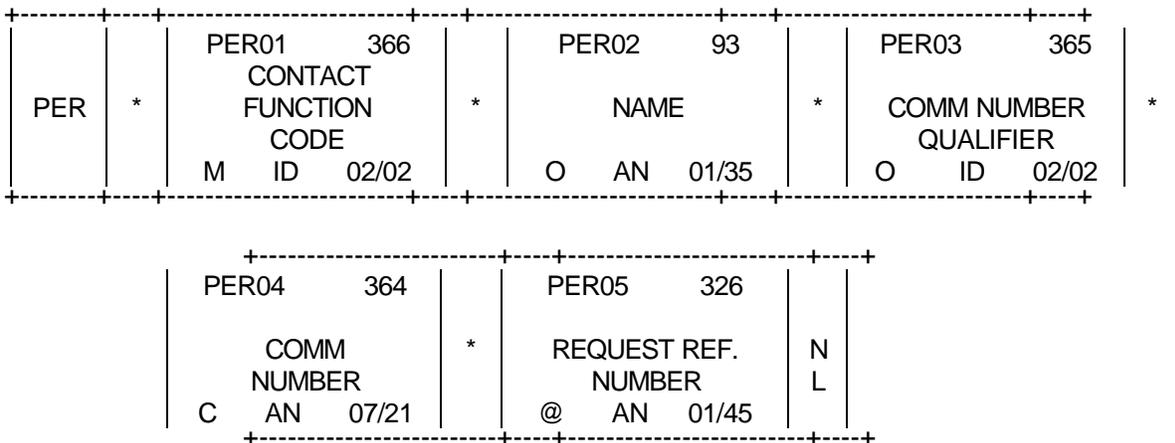   American National Standards Institute
             1430 Broadway
             New York, NY 10018

N405.   Location Qualifier (Data Element #309)

             NOT USED BY TI.

N406.   Location Identifier (Data Element #310)

             NOT USED BY TI.

NOTE: 1.   N402 is required only if City Name (N401) is in the USA or Canada.

2.7   PER - Administrative Communications Contact

Purpose: To identify a person or office to whom administrative communications should be directed.

Spec: Optional Max Length = 114 Max Use = 3 N1 loop end, if used.

Diagram:

```
+--------+----+-----------------------+----+--------------------+----+----------------------+----+
|        |    |  PER01        366     |    |  PER02       93    |    |  PER03       365     |    |
|        |    |     CONTACT           |    |                    |    |                      |    |
|  PER   | *  |    FUNCTION           | *  |       NAME         | *  |   COMM NUMBER        | *  |
|        |    |      CODE             |    |                    |    |    QUALIFIER         |    |
|        |    |   M   ID   02/02      |    |   O   AN   01/35   |    |   O   ID   02/02     |    |
+--------+----+-----------------------+----+--------------------+----+----------------------+----+

             +-----------------------+----+--------------------+----+
             |  PER04        364     |    |  PER05      326    |    |
             |                       |    |                    | N  |
             |     COMM              | *  |   REQUEST REF.     | L  |
             |    NUMBER             |    |    NUMBER          |    |
             |   C   AN   07/21      |    |   @   AN   01/45   |    |
             +-----------------------+----+--------------------+----+
```

PER01.   Contact Function Code (Data Element #366)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This data element contains a code identifying the major duty or responsibility of the person or group named. The valid codes for PICS/DCPR (BVAPP) are:

CODE	DEFINITION
AR	Accounts Receivable
AD	Accounting Dept.
BD	Buyer Name
CR	Customer Relations
OD	Order Dept.
SR	Sales Representative
ZZ	Mutually Defined

PER02.   Name (Data Element #93)

              (Spec: Optional Type = AN Min/Max = 01/35)

              This data element is the free-form name of the person, official title, or related information.

PER03.   Communication Number Qualifier (Data Element #365)

              (Spec: Optional Type = ID Min/Max = 02/02)

              This data element identifies the type of communication number which follows. See Note l. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
IT	International Telephone
PS	Packet Switching
TE	Telephone
TL	Telex
TM	Telemail
TX	TWX

              A complete list of the TI-recognized codes can be found in Appendix A.

PER04.   Communication Number (Data Element #364)

              (Spec: Conditional Type = AN Min/Max = 07/21)

              This is the complete communication number including the country or area code when applicable. See Note l.

PER05.   Request Reference Number (Data Element #326)

              NOT USED BY TI.

NOTE: 1. If PER03 is used, PER04 is required.

2.8 ITD - Terms of Sale/Deferred Terms of Sale

Purpose: To specify terms of sale.

Spec: Optional Max Length = 155 Max Use = 5

Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+---+
|        |    |   ITD01      336     |    |   ITD02      333     |    |   ITD03      338     |   |
|        |    |                      |    |                      |    |                      |   |
|  ITD   | *  |   TERMS TYPE         | *  |   TERMS BASIS        | *  |   TERMS DISC.        | * |
|        |    |      CODE            |    |    DATE CODE         |    |     PERCENT          |   |
|        |    |   M    ID    02/02   |    |   M    ID    01/02   |    |   C    R     01/06   |   |
+--------+----+----------------------+----+----------------------+----+----------------------+---+

             +----------------------+----+----------------------+----+----------------------+----+
             |   ITD04      370     |    |   ITD05      351     |    |   ITD06      446     |    |
             |                      |    |                      |    |                      |    |
             |   TERMS DISC.        | *  |   TERMS DISC.        | *  |   TERMS NET          | *  |
             |    DUE DATE          |    |    DAYS DUE          |    |    DUE DATE          |    |
             |   C    DT    06/06   |    |   C    NO    01/03   |    |   C    DT    06/06   |    |
             +----------------------+----+----------------------+----+----------------------+----+

             +----------------------+----+----------------------+----+
             |   ITD07      386     |    |   ITD08      362     |    |
             |                      |    |                      |    |
             |   TERMS NET          | *  |   TERMS DISC.        | *  |
             |    DAYS              |    |    AMOUNT            |    |
             |   C    NO    01/03   |    |   C    N2    01/10   |    |
             +----------------------+----+----------------------+----+
```

ITD01.   Terms Type Code (Data Element #336)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This data element specifies the valid type of payment terms. See Note 1.
The preferred TI-recognized codes for this transaction are:

CODE   DEFINITION

01   Basic
02   EOM
03   Fixed Date
05   Discount Not Applicable
06   Mixed
07   Extended
08   Basic - Discount Offered
09   Proximo
10   Instant

A complete list of the TI-recognized codes can be found in Appendix A.

ITD02.   Terms Basis Date Code (Data Element #333)

(Spec: Mandatory Type = ID Min/Max = 01/02)

This data element defines the terms upon which payment will be based.
See Note 2. The preferred TI-recognized codes for this transaction are:

CODE   DEFINITION

1   Ship Date
2   Delivery Date
3   Invoice Date
4   Specified Date - See Terms Net Due Date (ITD06)
5   Invoice Receipt Date

A complete list of the TI-recognized codes can be found in Appendix A.

ITD03.   Terms Discount Percent (Data Element #338)

                (Spec: Conditional Type = R Min/Max = 01/06)

                This data element is the percentage discount offered by the originator if the
                invoice is paid on or before the Terms Discount Due Date (ITD04) or within
                the Terms Discount Days Due (ITD05). See Notes 1 and 3.

ITD04.   Terms Discount Due Date (Data Element #370)

                (Spec: Conditional Type = DT Min/Max = 06/06)

                This date is the date payment is due if the discount is to be earned. See
                Notes 3 and 4.

ITD05.   Terms Discount Days Due (Data Element #351)

                (Spec: Conditional Type = NO Min/Max = 01/03)

                This data element contains the number of days after the terms basis date
                by which payment is due if the discount is to be earned. See Notes 3 and
                4.

ITD06.   Terms Net Due Date (Data Element #446)

                (Spec: Conditional Type = DT Min/Max = 06/06)

                This data element is the date when the total invoice amount becomes due.
                See Notes 1 and 2.

ITD07.   Terms Net Days (Data Element #386)

                (Spec: Conditional Type = NO Min/Max = 01/03)

                This data element is the number of days after the terms basis date when
                the total invoice amount becomes due. See Note 1.

ITD08.   Terms Discount Amount (Data Element #362)

                (Spec: Conditional Type = N2 Min/Max = 01/10)

                This data element contains the total amount of the terms discount. See
                Notes 1 and 4.

ITD09.   Terms Deferred Due Date (Data Element #388)

                NOT USED BY TI.

ITD10.   Deferred Amount Due (Data Element #389)

                NOT USED BY TI.

ITD11.   Percent Invoice Payable (Data Element #342)

                NOT USED BY TI.

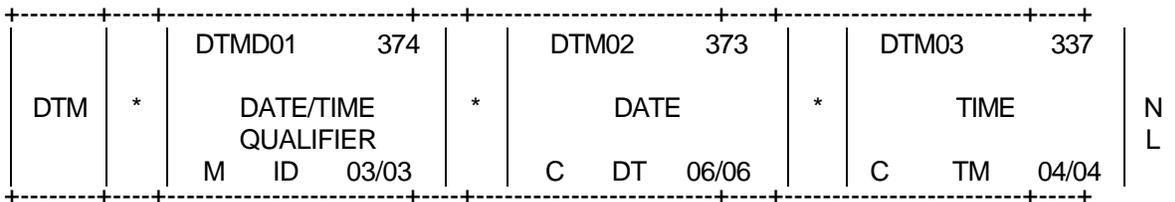ITD12.   Description (Data Element #352)

                NOT USED BY TI.

NOTES: 1. If ITD01 equals "05," ITD06 or ITD07 is required. If ITD01 does not
                equal "05," ITD03 or ITD08 is required.

            2. If ITD02 equals '4' (Specified Date), then indicate that date in ITD06.

            3. If ITD03 is used, either ITD04 or ITD05 is required.

            4. If ITD08 is used, either ITD04 or ITD05 is required.

2.9   DTM - Date/Time Reference

Purpose: To specify pertinent dates and times.

Spec: Optional Max Length = 20 Max Use = I

Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+----+
|        |    | DTMD01        374    |    | DTM02        373     |    | DTM03        337     |    |
|        |    |                      |    |                      |    |                      | N  |
| DTM    | *  |    DATE/TIME         | *  |         DATE         | *  |         TIME         | L  |
|        |    |    QUALIFIER         |    |                      |    |                      |    |
|        |    | M    ID    03/03     |    | C    DT    06/06     |    | C    TM    04/04     |    |
+--------+----+----------------------+----+----------------------+----+----------------------+----+
```

DTM01.   Date/Time Qualifier (Data Element #374)

              (Spec: Mandatory Type = ID Min/Max = 03/03)

              This data element identifies the type of date/time information that is to
              follow. The preferred PICS/DCPR (BVAPP) code for this transaction is:

              <u>CODE</u>   <u>DEFINITION</u>

              001   Shipped on this Date/Time

              A complete list of the TI-recognized codes can be found in Appendix A.

DTM02.   Date (Data Element #373)

              (Spec: Conditional Type = DT Min/Max = 06/06)

              This data element is the date associated with the Date/Time Qualifier
              (DTM01). See Note 1.

DTM03.   Time (Data Element #337)

              (Spec: Conditional Type = TM Min/Max = 04/04)

              This data element is the time associated with the Date/Time Qualifier
              (DTM01). See Note 1.

NOTE: 1. Either DTM02 or DTM03 is required.

2.10   FOB - F.O.B. Related Instructions

Purpose: To specify transportation instructions relating to shipment. The FOB point is always treated as a destination point.

Spec: Optional Max Length = 185 Max Use = 1

Diagram:

```
+--------+----+-----------------------+----+---------------------+----+----------------------+----+
|        |    | FOB01        146      |    | FOB02       376     |    | FOB03        352     |    |
|        |    |  SHIPMENT             |    | TRANS. RESP.        |    |                      |    |
|  FOB   | *  | METHOD OF             | *  |  LOCATION           | *  |  DESCRIPTION         | *  |
|        |    | PAYMENT               |    | QUALIFIER           |    |                      |    |
|        |    | M    ID    02/02      |    | O    ID    02/02    |    | C    AN    01/80     |    |
+--------+----+-----------------------+----+---------------------+----+----------------------+----+


            +-----------------------+----+---------------------+----+----------------------+----+
            | FOB04       334       |    | FOB05       335     |    | FOB06       377      |    |
            |                       |    |                     |    | TITLE PASS.          |    |
            | TRADE TERMS           | *  | TRADE TERMS         | *  | LOCATION             | *  |
            | QUALIFIER             |    | CODE                |    | QUALIFIER            |    |
            | O    ID    02/02      |    | C    ID    03/06    |    | O    ID    02/02     |    |
            +-----------------------+----+---------------------+----+----------------------+----+


            +-----------------------+----+
            | FOB07       352       |    |
            |                       |    |
            | DESCRIPTION           | N  |
            |                       | L  |
            | C    AN    01/80      |    |
            +-----------------------+----+
```

FOB01.   Shipment Method of Payment (Data Element #146)

             (Spec: Mandatory Type = ID Min/Max = 02/02)

             This data element contains a code that identifies the payment method for transportation charges. It usually indicates which party will pay the carrier. The TI-recognized codes can be found in Appendix A.

FOB02.   Transportation Responsibility Location Qualifier (Data Element #376)

(Spec: Optional Type = ID Min/Max = 02/02)

This data element specifies the location at which responsibility for the shipment changes. See Notes 1 and 2. The preferred TI-recognized codes for this transaction are:

CODE   DEFINITION

DE   Destination
OR   Origin

A complete list of the TI-recognized codes can be found in Appendix A, data element list #309.

FOB03.   Description (Data Element #352)

(Spec: Conditional Type = AN Min/Max = 01/80)

This data element contains the free-form description to clarify the Transportation Location Qualifier (FOB02). See Notes 1 and 2.

FOB04.   Trade Terms Qualifier (Data Element #334)

(Spec: Optional Type = ID Min/Max = 02/02)

This data element describes the transportation responsibility criteria. See Notes 1 and 3. The preferred TI-recognized code for this transaction is:

CODE   DEFINITION

02   TDCC List

FOB05.   Trade Terms Code (Data Element #335)

(Spec: Conditional Type = ID Min/Max = 03/06)

This code indicates the trade terms which apply to the responsibility for shipment transportation. See Notes 1 and 3. The TI-recognized codes can be found in Appendix A, ASC X12.

FOB06.   Title Passage Location Qualifier (Data Element #377)

                (Spec: Optional Type = ID Min/Max = 02/02)

                This data element specifies whether the FOB point is the origin or
                destination. See Note 4. Valid codes for PICS/DCPR (BVAPP) are:

                CODE   DEFINITION

                DE   Destination
                OR   Origin

FOB07.   Description (Data Element #352)

                (Spec: Conditional Type = AN Min/Max = 01/80)

                This data element contains a description of the specific location at which
                title to the shipment passes, as indicated by the Title Passage Location
                Qualifier (FOB06). See Note 4.

NOTES: 1.   FOB02, FOB03, FOB04, and FOB05 describe which party has the final
                responsibility for the final cost of transportation and/or the risk of
                loss while the material is in transit.

           2.   If FOB02 is used, FOB03 is required.

           3.   If FOB04 is used, FOB05 is required.

           4.   If FOB06 is used, FOB07 is required.

CONTENTS

INVOICE DETAIL SEGMENTS
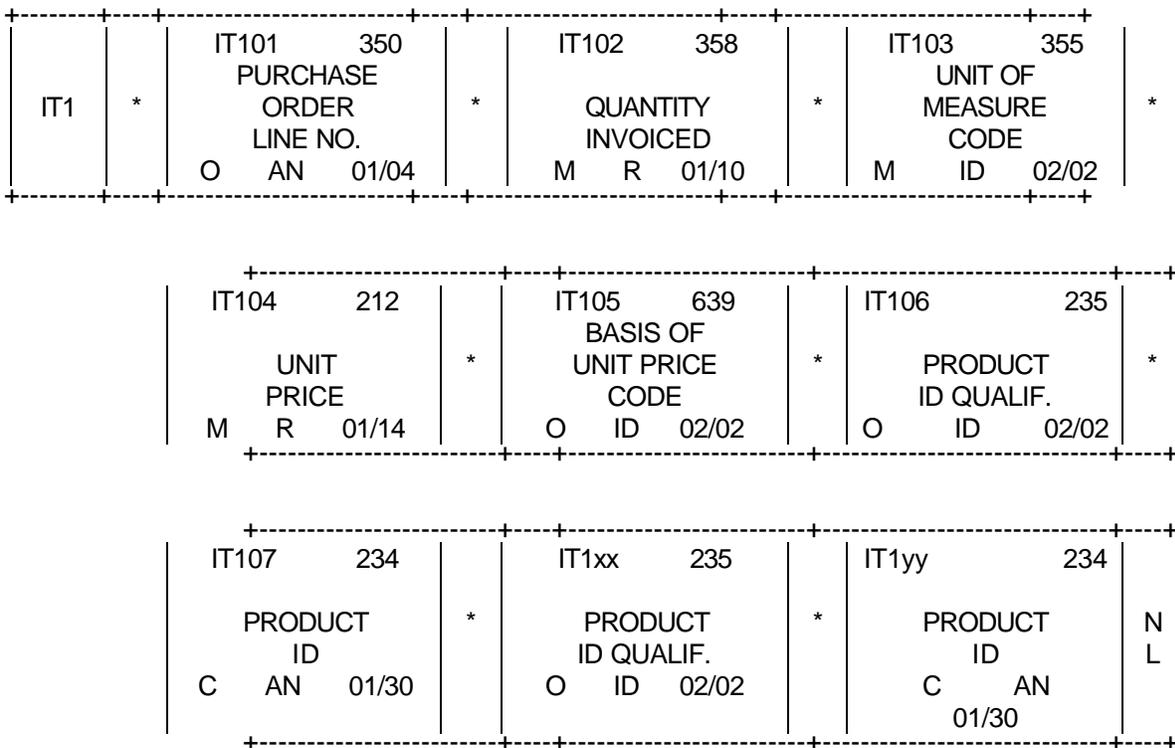
3.   Invoice Detail Segments

3.1   IT1 - Baseline Item Data

Purpose: This data segment is the beginning of the line item loop, and a separate IT1 segment is required for every line item on an invoice. The information provided on the ITI data segment is the basic and most commonly used information for an invoice transaction.

NOTE: For PICS/DCPR (BVAPP), each billing category (Exhibit 4-1) for a repair invoice will appear as a separate line item.

Spec: Mandatory Max Length = 383 Max Use = 1 IT1 Loop Start
Max Loops = 10,000

Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+----+
|        |    | IT101        350     |    | IT102        358     |    | IT103        355     |    |
|        |    |     PURCHASE         |    |                      |    |     UNIT OF          |    |
| IT1    | *  |     ORDER            | *  |     QUANTITY         | *  |     MEASURE          | *  |
|        |    |     LINE NO.         |    |     INVOICED         |    |     CODE             |    |
|        |    | O    AN    01/04     |    | M    R    01/10      |    | M    ID    02/02     |    |
+--------+----+----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+----------------------+----+----------------------+----+
              | IT104        212     |    | IT105        639     |    | IT106        235     |    |
              |                      |    |     BASIS OF         |    |                      |    |
              |     UNIT             | *  |     UNIT PRICE       | *  |     PRODUCT          | *  |
              |     PRICE            |    |     CODE             |    |     ID QUALIF.       |    |
              | M    R    01/14      |    | O    ID    02/02     |    | O    ID    02/02     |    |
              +----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+----------------------+----+----------------------+----+
              | IT107        234     |    | IT1xx        235     |    | IT1yy        234     |    |
              |                      |    |                      |    |                      |    |
              |     PRODUCT          | *  |     PRODUCT          | *  |     PRODUCT          | N  |
              |     ID               |    |     ID QUALIF.       |    |     ID               | L  |
              | C    AN    01/30     |    | O    ID    02/02     |    | C    AN              |    |
              |                      |    |                      |    |          01/30       |    |
              +----------------------+----+----------------------+----+----------------------+----+
```

IT101.   Purchase Order Line Number (Data Element #350)

               (Spec: Optional Type = AN Min/Max = 01/04)

               The Purchase Order Line Number is optional for every item on an invoice
               and may be either the Purchase Order Line Number OR the main item
               number for equipment identified by Vendor Order, Vendor Specification,
               Main Item Number and Point Item Number. This number should correspond
               to the line item number on the Purchase Order or Order Acknowledgment.
               Note that the maximum length for this data element is less than ANSI.

IT102.   Quantity Invoiced (Data Element #358)

               (Spec: Mandatory Type = R Min/Max = 01/10)

               The Quantity Invoiced is the number of units invoiced on this line item. For
               items such as engineering services, this element should contain a zero. See
               Notes 2, 3, and 4.

IT103.   Unit of Measure Code (Data Element #355)

               (Spec: Mandatory Type = ID Min/Max = 02/02)

               The Unit of Measure Code is the basic unit of measurement for the item
               being invoiced as it appeared on the purchase order. If unit of measure is
               not applicable for a line item, PICS/DCPR (BVAPP) requires "zz" to be
               transmitted. The TI-recognized codes can be found in Appendix A.

IT104.   Unit Price (Data Element #212)

               (Spec: Mandatory Type = R Min/Max = 01/14)

               The Unit Price is the price per unit of the product, service, commodity, etc.
               being invoiced. See Notes 2 and 4.

IT105.   Basis of Unit Price Code (Data Element #639)

                (Spec: Optional Type = ID Min/Max = 02/02)

                This code defines the type of price indicated for an item. The Basis of Unit
                Price Code represents a factor applied to the product of quantity and unit
                price to determine the cost of an item being invoiced, as shown in the
                formula and example below.

                NOTE: PICS/DCPR (BVAPP) requires that for repair invoices, if the line
                item (i.e., billing category) is a contract charge/credit, the vendor should
                place the contracted unit price in this data element with a unit of measure
                of 'ea' (each) in the preceding field.

                Formula: Extended value of item invoiced =

$$\frac{\text{Quantity Invoiced (IT102) x Unit Price (IT104)}}{\text{Basis of Unit Price (ITI05)}}$$

                Example 1 - Assume IT102 = 10, IT104 = $1.00, IT105 = TE (Price/Each)

$$\frac{10 \times \$1.00}{1}$$

                Example 2 - Assume IT102 = 10, IT104 = $1.00, IT105 = TC
                (Price/Hundred)

$$\frac{10 \times \$1.00}{100}$$

                See Notes 2, 3 and 4. The TI-recognized codes can be found in Appendix
                A.

IT106.   Product I.D. Qualifier (Data Element #235)

                (Spec: Optional Type = ID Min/Max = 02/02)

                The Product I.D. Qualifier identifies the type or source of the descriptive
                information being provided in the Product I.D. data element. See Note 1.

"CI" - CLEIT^{TM} (COMMON LANGUAGE® Equipment Identifier) is an alphanumeric code describing a unique equipment item (10 characters) or a group of related equipment items (7 characters). The Language Standards Division of Bell Communications Research, Inc. controls the assignment of these codes. CI is an approved ANSI code and will be published in the next release.

"CR" - Contract Number is an alphanumeric code that specifies the purchase agreement between the trading partners.

"CT" - Continuation of the part number, used when the part number exceeds 30 characters.

"IN" - Buyer's Item Number is the Customer's Standard Supply Item Number used in the internal system.

"MF" - Manufacturer is an alphanumeric code that specifies the manufacturer of the equipment.

"PN" - Company Part Number is an alphanumeric code which qualifies the basic unit to uniquely identify a specific piece of the vendor's equipment.

"RD" - Reel Number to be specified by the customer when ordering cable. A customer reel number can be provided and used or the vendor can assign a number so that the trading partners can maintain inventories and audit the return of non-billable reels to the vendor.

"SV" - Services Rendered specifies a non-material charge such as engineering or installation as identified on the purchase order and purchase order acknowledgment.

"UP" - Universal Product Code (UPC) (full 11 digit number) is a common code used by the vendor and the customer to eliminate the necessity for descriptions. The codes are administered by:

>   Uniform Product Council
>   7051 Corporate Way
>   Dayton, Ohio 45459

"VN" - Vendor's Item Number is an alphanumeric code that the vendor uses to identify the material ordered. This is the number that appears in the vendor's catalog.

"VO" - Vendor Order Number is a number assigned by the vendor to all or part of an order. The use of vendor order number is at the vendor's discretion, as long as the use is consistent for the same items on the order acknowledgment and invoices. SPECIFIES THAT THE PRODUCT/SERVICE ID (ITA07) WILL BE FILLED WITH A VENDOR ORDER NUMBER.

"VS" - Vendor's Supplemental Item Number is an alphanumeric point item number used to subdivide a grouping of related pieces of equipment into separately orderable entities. It is also used for substitution items. IT ALSO SPECIFIES THAT THE POINT ITEM NUMBER FOLLOWS IN THE PRODUCT/SERVICE ID (IT107).

"VU" - Vendor's Basic Unit Number is an alphanumeric code which defines a family of related items of equipment. SPECIFIES THAT THE BASIC UNIT FOLLOWS IN THE PRODUCT/SERVICE ID (IT107).

"VX" - Vendor Specification Number is a number assigned by the customer engineer or the vendor engineer, depending on who engineered the order, to all or part of the order. An engineer will usually use this field to subdivide an order. The use of vendor specification numbers is at the vendor's discretion for vendor engineered jobs, as long as the use is consistent for the same items on all related transaction sets. SPECIFIES THAT THE VENDOR SPECIFICATION NUMBER FOLLOWS IN THE PRODUCT SERVICE ID (IT107).

A complete list of the TI-recognized codes can be found in Appendix A.

IT107.   Product I.D. (Data Element #234)

(Spec: Conditional Type = AN Min/Max = 01/30)

The Product I.D. is an identifying number for a product or service with a Product I.D. Qualifier. See Note 1.

A. U S WEST requirement for repair items processed in PICS/DCPR (BVAPP).

- Unit Price: When Billing Category is a Repair Charge or Credit, fill in unit price using "TE" as unit of measure code.

- Basis of Unit Price Code (Repair): TE - Contract Price or Repair Price per item.

NOTES:

1. The Product I.D. Qualifier (ITI06)/Product I.D. (IT107) combination can occur a total of ten times. All notes and conditions applicable to IT106 and IT107 apply. If IT106 is used, IT107 is required.

2. If quantity is not applicable, as may be the case for some services, Quantity Invoiced (IT102) must contain a zero and Unit Price (IT104) will contain the total price. Since Unit Priee (IT104) contains the total price, the formula shown in Basis of Unit Price Code (IT105) for calculation of the extended amount is not appropriate.

3. If Quantity Invoiced (IT102) is other than zero, Basis of Unit Price (IT105) is required.

4. Credits can be specified for either the line item or the invoice, depending upon the conditions of the credit and the agreements of the trading partners. Some of the most recognizable credit conditions involve: return of material; adjustments or refunds for invoices or items on invoices paid in error; modification to equipment involving removal of equipment parts; and settlements of lost or damaged material claims.

   The following are examples of the credit conditions and how they should appear in an Invoice Transaction Set 810.

   a. Return of Material - Assumptions: 2 units at $100.00 each were ordered and paid for; only 1 unit was needed on the job; the extra unit was shipped back. A credit invoice with a negative quantity on the IT1 segment should be used for this condition as shown in the example.

Example:

Item #	Basic Unit	Part #	Quantity	Unit Price	Amount
1	Pack Ckt	481	-1	100.00	-100.00

IT1*1*-1*EA*100.00*TE*VU*PACK CKT*PN*481 N/L

b. Adjustment or Refunds for items and/or invoices paid in error - Assumptions: 2 units at $100.00 each were ordered; an invoice for 2 units at $110.00 each ($220.00 total invoice) was paid; the overpayment of $20.00 must be adjusted. A credit invoice with a $20.00 adjustment in the ITA (Allowance or Charge Segment) would be used for this as shown in the example.

Example:

Item #	Basic Unit	Part #	Quantity	Unit Price	Amount
1	Pack Ckt	481	0	0.00	-110.00

IT1*1*O*EA*O*TE*VU*PACK CKT*PN*481 N/L

ITA*A*T1*AJ*02***2000***ADJUSTMENT OF INVOICE#12345 N/L

Note: This method of crediting can also be used to refund invoices paid in error, or settlements for lost material or damaged material claims.

c. Purchase of Equipment - Assumptions: a piece of equipment is ordered that required modifications involving an addition, a removal, and an inclusion of equipment parts. The equipment modifications should be shown on an invoice as Subline Item Detail (SLN) segments being added to, deleted from, or included in the baseline item configuration as shown in the example. Subline items 1.A (addition), 1.B (removal), and 1.C (included) are shown as modifications to the baseline line item 1.

Example:

Item #	Subline Item #	Basic Unit	Part #	Quantity	Unit
1	1A,1B,1C	J123456	L-1,L-A,L-B,L-C	1	150.00

IT1*1*1*EA*150.00*TE*VU*J123456*PN*L-1 N/L

SLN*A**A*1*EA*60*TE*A*VU*J123456*PN*L-A N/L

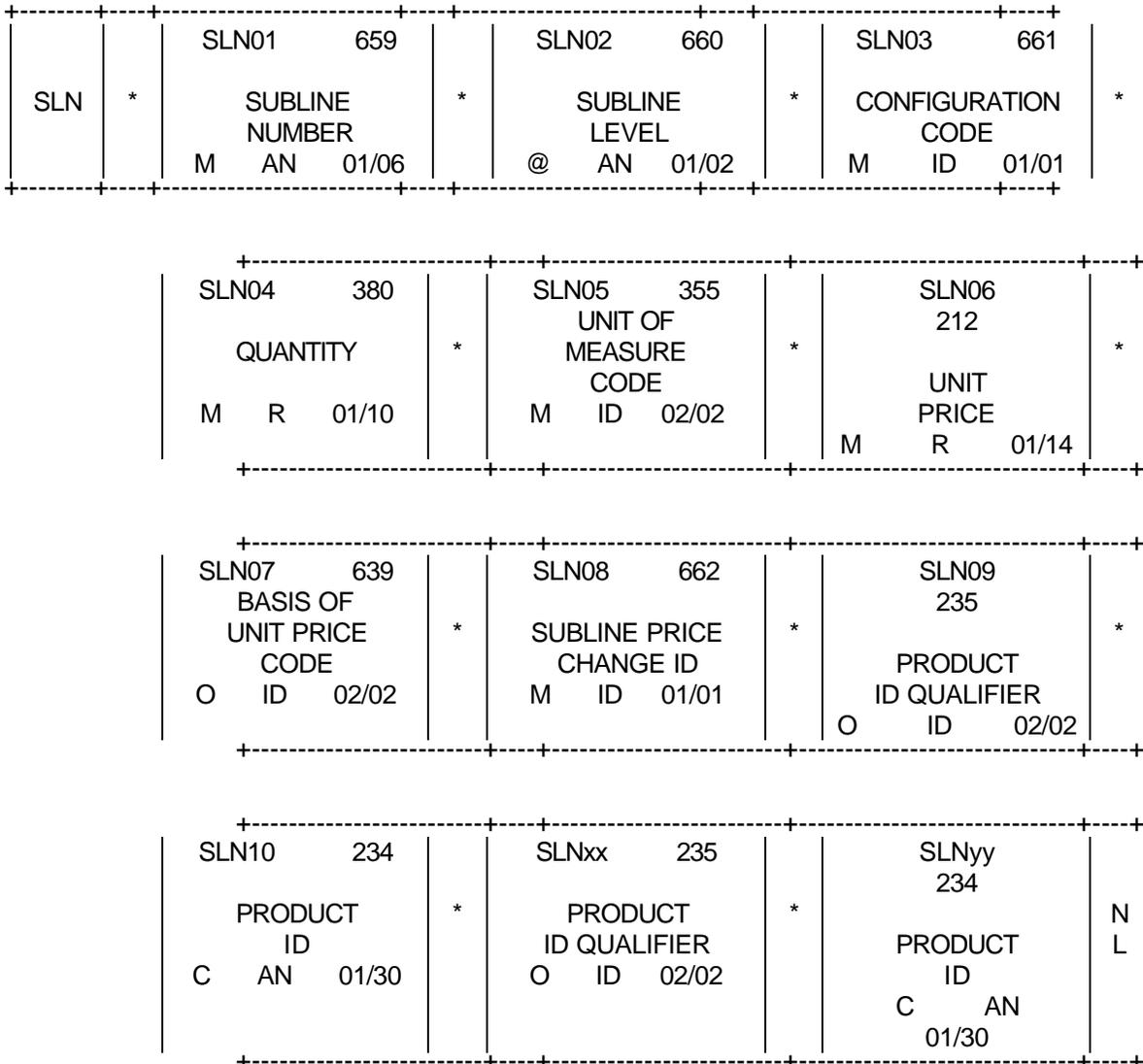SLN*B**D*1*EA*1O*TE*D*VU*J123456*PN*L-B N/L

SLN*C*1**1*EA*O*TE*1*VU*J123456*PN*L-C N/L

3.2   SLN Subline Item Detail

Purpose: The SLN data segment is an optional segment used to specify product
               information below the detail item level for baseline items on the ITI data
               segment.

Spec: Optional Max Length = 390 Max Use - 100 Within IT1 loop

Diagram:

```
+--------+----+-----------------------+----+----------------------+----+----------------------+----+
|        |    |  SLN01        659      |    |  SLN02        660     |    |  SLN03        661     |    |
|        |    |                        |    |                       |    |                       |    |
|  SLN   | *  |     SUBLINE            | *  |     SUBLINE           | *  |   CONFIGURATION       | *  |
|        |    |     NUMBER             |    |     LEVEL             |    |     CODE              |    |
|        |    |  M    AN    01/06      |    |  @    AN    01/02     |    |  M    ID    01/01     |    |
+--------+----+-----------------------+----+----------------------+----+----------------------+----+


         +-----------------------+----+----------------------+----+----------------------+----+
         |  SLN04        380      |    |  SLN05        355     |    |  SLN06               |    |
         |                        |    |  UNIT OF             |    |    212               |    |
         |     QUANTITY           | *  |  MEASURE             | *  |                       | *  |
         |                        |    |  CODE                |    |    UNIT               |    |
         |  M    R     01/10      |    |  M    ID    02/02     |    |    PRICE             |    |
         |                        |    |                       |    |  M    R     01/14     |    |
         +-----------------------+----+----------------------+----+----------------------+----+


         +-----------------------+----+----------------------+----+----------------------+----+
         |  SLN07        639      |    |  SLN08        662     |    |  SLN09               |    |
         |  BASIS OF              |    |                       |    |    235               |    |
         |  UNIT PRICE            | *  |  SUBLINE PRICE        | *  |                       | *  |
         |  CODE                  |    |  CHANGE ID           |    |   PRODUCT            |    |
         |  O    ID    02/02      |    |  M    ID    01/01     |    |   ID QUALIFIER       |    |
         |                        |    |                       |    |  O    ID    02/02     |    |
         +-----------------------+----+----------------------+----+----------------------+----+


         +-----------------------+----+----------------------+----+----------------------+----+
         |  SLN10        234      |    |  SLNxx        235     |    |  SLNyy               |    |
         |                        |    |                       |    |    234               |    |
         |   PRODUCT             | *  |   PRODUCT            | *  |                       | N  |
         |   ID                  |    |   ID QUALIFIER       |    |   PRODUCT            | L  |
         |  C    AN    01/30      |    |  O    ID    02/02     |    |   ID                 |    |
         |                        |    |                       |    |  C      AN           |    |
         |                        |    |                       |    |    01/30             |    |
         +-----------------------+----+----------------------+----+----------------------+----+
```

SLN01.   Subline Number (Data Element #659)

            (Spec: Mandatory Type = AN Min/Max = 01/06)

            The Subline Number identifies a number for a subline or point item that is
            related to, but not necessarily equivalent to, the baseline item number.

            If examples 2.1, or 2.A are used as subline or point item numbers for a
            baseline item number of 2, then SLN01 would be either 1 or A.

SLN02.   Subline Level (Data Element #660)

            NOT USED BY TI.

SLN03.   Configuration Code (Data Element #661)

            (Spec: Mandatory Type = ID Min/Max = 01/01

            The Configuration Code indicates whether the subline item is included in,
            added to, or deleted from the baseline item configuration. The preferred TI-
            recognized codes for this transaction are:

            CODE   DEFINITION

            A   Added to the Configuration
            D   Deleted from the Configuration
            I   Included in the Configuration

            A complete list of the TI-recognized codes can be found in Appendix A.

SLN04.   Quantity (Data Element #380)

            (Spec: Mandatory Type = R Min/Max = 01/10

            The Quantity represents the quantity invoiced for the subline item being
            invoiced. See Note 1.

SLN05.   Unit of Measure Code (Data Element #355)

            (Spec: Mandatory Type = ID Min/Max = 02/02)

            The Unit of Measure Code is the basic unit of measurement for the subline
            item being invoiced. The T1-recognized codes are listed in Appendix A.

SLN06.   Unit Price (Data Element #212)

            (Spec: Mandatory Type = R Min/Max = 01/14)

            The Unit Price is the price per unit of the product, service, commodity, etc.,
            of the subline item being added to, deleted from, or included in the baseline
            item. See Notes 1 and 2.

SLN07.   Basis of Unit Price Code (Data Element #639)

            (Spec: Optional Type = ID Min/Max = 02/02)

            The Basis of Unit Price Code represents a factor applied to the product of
            quantity and unit price to determine the cost of a subline item being
            invoiced, as shown in the formula and examples of data element IT105.
            See Note 2.

            The TI-recognized codes can be found in Appendix A.

SLN08.   Subline Price Change I.D. (Data Element #662)

            (Spec: Mandatory Type = ID Min/Max = 01/01)

            The Subline Price Change I.D. is a code indicating whether the subline item
            is included in, added to, or subtracted from the baseline item unit price. The
            preferred TI-recognized codes for this transaction are:

            CODE   DEFINITION

            A   Added to the Baseline Item Unit Price
            I   Included in the Baseline Item Unit Price
            S   Subtracted from the Baseline Item Unit Price

            A complete list of the TI-recognized codes can be found in Appendix A.

SLN09.　　　　Product I.D. Qualifier (Data Element #235)

(Spec: Optional Type = ID Min/Max = 02/02)

The Product I.D. Qualifier identifies the type or source of the descriptive information being provided in the Product I.D. data element (SLN10). See Notes 3 and 4. The preferred TI-recognized codes for this transaction are:

"CI" - CLEI^{TM} (COMMON LANGUAGE® Equipment Identifier) is an alphanumeric code describing a unique equipment item (10 characters) or a group of related equipment items (7 characters). The Language Standards Division of Bell Communications Research, Inc. controls the assignment of these codes. CI is an approved ANSI code and will be published in the next release.

"CR" - Contract Number is an alphanumeric code that specifies the purchase agreement between the trading partners.

"CT" - Continuation of the part number, used when the part number exceeds 30 characters.

"IN" - Buyer's Item Number is the Customer's Standard Supply Item Number used in the internal system.

"MF" - Manufacturer is an alphanumeric code that specifies the manufacturer of the equipment.

"PN" - Company Part Number is an alphanumeric code which qualifies the basic unit to uniquely identify a specific piece of the vendor's equipment.

"RD" - Reel Number to be specified by the customer when ordering cable. A customer reel number can be provided and used or the vendor can assign a number so that the trading partners can maintain inventories and audit the return of non-billable reels to the vendor.

"SV" - Services Rendered specifies a non-material charge such as engineering or installation as identified on the purchase order and purchase order acknowledgment.

"UP" - Universal Product Code (UPC) (Full 11 Digit No.) is a common code used by the vendor and the customer to eliminate the necessity for descriptions. The codes are administrated by:

Uniform Product Council
7051 Corporate Way
Dayton, Ohio 45459

"VN" - Vendor's Item Number is an alphanumeric code that the vendor uses to identify the material ordered. This is the number that appears in the vendor's catalog.

"VO" - Vendor Order Number is a number assigned by the vendor to all or part of the order. The use of the vendor order number is at the vendor's discretion, as long as the use is consistent for the same items on the order acknowledgment and invoices.

"VS" - Vendor's Supplemental Item Number is an alphanumeric point item number used to subdivide a grouping of related pieces of equipment into separately orderable entities. It is also used for substitution items.

"VU" - Vendor's Basic Unit Number is an alphanumeric code which defines a family of related items of equipment.

"VX" - Vendor Specification Number is a number assigned by the customer engineer or the vendor engineer, depending on who engineered the order, to all or part of the order. An engineer will usually use this field to subdivide an order. The use of vendor specification numbers is at the vendor's discretion for vendor engineered jobs, as long as the use is consistent for the same items on all related transaction sets.

A complete list of the TI-recognized codes can be found in Appendix A.

SLN10.   Product I.D. (Data Element #234)

(Spec: Conditional Type = AN Min/Max = 01/30)

The Product I.D. is an identifying number for a product or service with a Product I.D. Qualifier. See Notes 3 and 4.

NOTES:

1. If quantity is not applicable as may be the case for some services, Quantity (SLN04) must contain a zero and Unit Price (SLN06) will contain the total price. Since Unit Price (SLN06) contains the total price, the formula referred to in Basis of Unit Price Code (IT105) for calculation of the extended amount is not appropriate.

2. If SLN07 is used, SLN06 is required.

3. If SLN09 is used, SLN10 is required.

4. The Product I.D. Qualifier (SLN09)/Product I.D. (SLN10) combination can occur a total of ten times. All notes and conditions applicable to SLN09 and SLN10 apply.

3.3   J2X - Item Description

Purpose: To describe an item in a free-form format.

Spec: Optional Max Length = 90 Max Use = 1000 Within the IT1 loop

Diagram:

```
+--------+----+----------------------+----+---------------------+----+---------------------+----+
|        |    |  J2X01        348     |    |  J2X02        349   |    |  JSX03       372    |    |
|        |    |                       |    |                     |    |                     |    |
|  J2X   |  * |     ITEM DESC.        |  * |    ITEM DESC.       |  * |        ITEM         | N  |
|        |    |     QUALIFIER         |    |      TYPE           |    |   DESCRIPTION       | L  |
|        |    |   M    ID     02/02   |    |  M    ID    01/01   |    |  M    AN    01/80   |    |
+--------+----+----------------------+----+---------------------+----+---------------------+----+
```
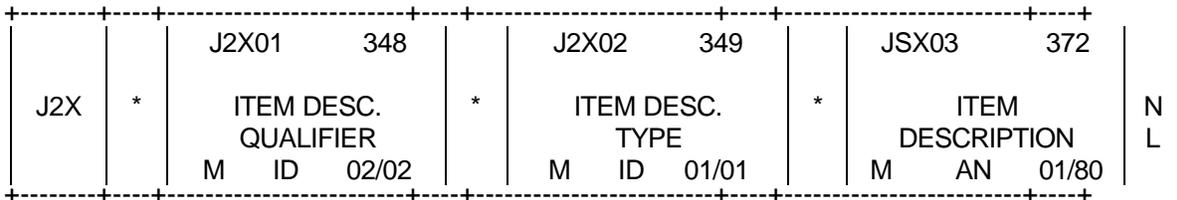
J2X01.   Item Description Qualifier (Data Element #348)

             (Spec: Mandatory Type = ID Min/Max = 02/02)

             This code identifies the group or industry for the product. 'TI'
             (Telecommunications Industry) is the only TI-recognized code.

J2X02.   Item Description Type (Data Element #349)

             (Spec: Mandatory Type = ID Min/Max 01/01)

             This code indicates the format of the description. The only TI-recognized
             code for this data element is 'F' (free-form).

J2X03.   Item Description (Data Element #372)

             (Spec: Mandatory Type = AN Min/Max = 01/80)

             This data element is a free-form description of the line item.

3.4   ITA - Allowance or Charge

Purpose: To specify allowances or charges related to a line item.

Spec: Optional Max Length = 175 Max Use = 10 Within the IT1 loop

Diagram:

```
+--------+----+--------------------+----+--------------------+----+--------------------+----+
|        |    |  ITA01      248    |    |  ITA02      559    |    |  ITA03      560    |    |
|        |    |  ALLOWANCE         |    |  AGENCY            |    |  SPECIAL           |    |
|  ITA   | *  |  OR CHARGE         | *  |  QUALIFIER         | *  |  SERVICES          | *  |
|        |    |  INDICATOR         |    |  CODE              |    |  CODE              |    |
|        |    |  M    ID    01/01  |    |  O    ID    02/02  |    |  C    ID    02/10  |    |
+--------+----+--------------------+----+--------------------+----+--------------------+----+


             +--------------------+----+--------------------+----+--------------------+----+
             |  ITA04      331    |    |  ITA05      341    |    |  ITA06      359    |    |
             |  ALLOW OR          |    |  ALLOWANCE         |    |  ALLOWANCE         |    |
             |  CHG. METHOD       | *  |  OR CHARGE         | *  |  OR CHARGE         | *  |
             |  OF HANDLING       |    |  NUMBER            |    |  RATE PER UNIT     |    |
             |  M    ID    02/02  |    |  O    AN    01/16  |    |  C    R     01/09  |    |
             +--------------------+----+--------------------+----+--------------------+----+


             +--------------------+----+--------------------+----+--------------------+----+
             |  ITA07      360    |    |  ITA08      378    |    |  ITA09      332    |    |
             |  ALLOWANCE         |    |  ALLOWANCE         |    |  ALLOWANCE         |    |
             |  OR CHARGE         | *  |  OR CHARGE         | *  |  OR CHARGE         | *  |
             |  TOTAL AMOUNT      |    |  % QUALIFIER       |    |  PERCENT           |    |
             |  C    N2    01/09  |    |  O    ID    01/01  |    |  C    R     01/06  |    |
             +--------------------+----+--------------------+----+--------------------+----+


             +--------------------+----+--------------------+----+--------------------+----+
             |  ITA10      339    |    |  ITA11      355    |    |  ITA12      379    |    |
             |  ALLOWANCE         |    |  UNIT OF           |    |                    |    |
             |  OR CHARGE         | *  |  MEASURE           | *  |  FREE GOODS        | *  |
             |  QUANTITY          |    |  CODE              |    |  QUANTITY          |    |
             |  @    R     01/10  |    |  @    ID    02/02  |    |  @    R     01/10  |    |
             +--------------------+----+--------------------+----+--------------------+----+


             +--------------------+----+
             |  ITA13      352    |    |
             |                    |    |
             |  DESCRIPTION       | NL |
             |                    |    |
             |  C    AN    01/80  |    |
             +--------------------+----+
```

ITA01.   Allowance or Charge Indicator (Data Element #248)

              (Spec: Mandatory Type = ID Min/Max= 01/01)

              The Allowance or Charge Indicator is a one-position indicator specifying
              whether the allowance or charge data segment is an allowance or charge
              against the line item. The preferred TI-recognized codes for this transaction
              are:

              CODE   DEFINITION

              A   Allowance (Credit)
              C   Charge

              A complete list of the TI-recognized codes can be found in Appendix A.

              NOTE: If 'A' is used, PICS/DCPR (BVAPP) requires that ITA07 be zero.

ITA02.   Agency Qualifier Code (Data Element #559)

              (Spec: Mandatory Type = ID Min/Max = 02/02)

              The Agency Qualifier Code is a code identifying the agency assigning the
              code values used in ITA03. See Note 1. The only TI-recognized value is 'TI'
              (Telecommunications Industry).

ITA03.   Special Services Code (Data Element #560)

              (Spec: Conditional Type = ID Min/Max = 02/10)

              The Special Services Code identifies special services being performed.
              See Note 1. The TI-recognized codes can be found in Appendix A. Unique
              codes for PICS/DCPR (BVAPP) for COE and non/COE are:

              CODE   DEFINITION

              BT   Both sales and use tax are included in tax amount for the
                            same jurisdiction.

              For non COE only:

              LR   Labor (Repair and Return Orders)
              MC   Mileage Fee (for Repair and Return)
              MO   Minimum Order/Minimum Billing Charge
              SD   Service Charge (w/Cash Discount)

ITA04.   Allowance or Charge Method of Handling (Data Element #331)

(Spec: Mandatory Type = ID Min/Max = 02/02)

Allowance or Charge Method of Handling specifies how the allowance or charge on the line item should be handled. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
04	Credit Customer Account
06	Charge to be Paid by Customer

A complete list of the TI-recognized codes can be found in Appendix A.

ITA05.   Allowance or Charge Number (Data Element #341)

(Spec: Optional Type = AN Min/Max = 01/16)

Allowance or Charge Number is used to specify a tax jurisdiction if the Special Services code (ITA03) was for tax. The valid codes for tax jurisdiction are available from the customer.

ITA06.   Allowance or Charge Rate Per Unit (Data Element #359)

(Spec: Conditional Type = R Min/Max = 01/09)

The Allowance or Charge Rate Per Unit specifies the rate of the allowance or charge for the line item. See Note 2. The quantity on IT102 will be multiplied by the rate per unit to determine the allowance or charge.

ITA07.   Allowance or Charge Total Amount (Data Element #360)

(Spec: Conditional Type = N2 Min/Max = 01/09)

Allowance or Charge Total Amount is the dollar total of the allowance or charge for the line item. See Note 2.

NOTE: PICS/DCPR (BVAPP) requires zero amount if 'A' is used in ITA01.

ITA08.   Allowance or Charge Percent Qualifier (Data Element #378)

               (Spec: Optional Type = ID Min/Max = 01/01)

               Allowance or Charge Percent Qualifier is used if a percent is supplied in the
               Allowance or Charge Percent (ITA09) data element. See Notes 2 and 3.
               The preferred TI-recognized codes for this transaction are:

               CODE   DEFINITION

               1   Item List Cost
               2   Item Net Cost

               A complete list of the TI-recognized codes can be found in Appendix A.

ITA09.   Allowance or Charge Percent (Data Element #332)

               (Spec: Conditional Type = R Min/Max = 01/06)

               Allowance or Charge Percent is the allowance or charge expressed as a
               percent for the special service performed for the line item. See Note 3.

ITA10.   Allowance or Charge Quantity (Data Element #339)

               NOT USED BY TI.

ITA11.   Unit of Measure Code (Data Element #355)

               NOT USED BY TI.

ITA12.   Free Goods Quantity (Data Element #379)

               NOT USED BY TI.

ITA13.   Description (Data Element #352)

               (Spec: Conditional Type = AN Min/Max = 01/80)

               This is a semi-structured description with the first five positions being
               reserved for use when the Special Services Code (ITA03) is "ST" and
               taxes are being applied to a Special Services Charge Amount (ITA07) from
               a previous data segment. The final 75 characters of this data element
               consist of a free-form description of the allowance or charge of a special
               service performed for the line item. See Note 1.

NOTES:

1. Since ITA02 is required, either ITA03 or ITA13 is required.

2. Either ITA06, ITA07 or ITA08 is required.

3. If ITA08 is used, ITA09 is required.

3.6   N1 - Name

Purpose: To identify a party by the type of organization, name or code. If the Name
              (N102) is used in this segment, the N3 and N4 segments are required.

Spec: Optional Max Length = 63 Max Use = 1 N1 Loopstart
              Max Loops = 5 Within IT1 loop

Diagram:
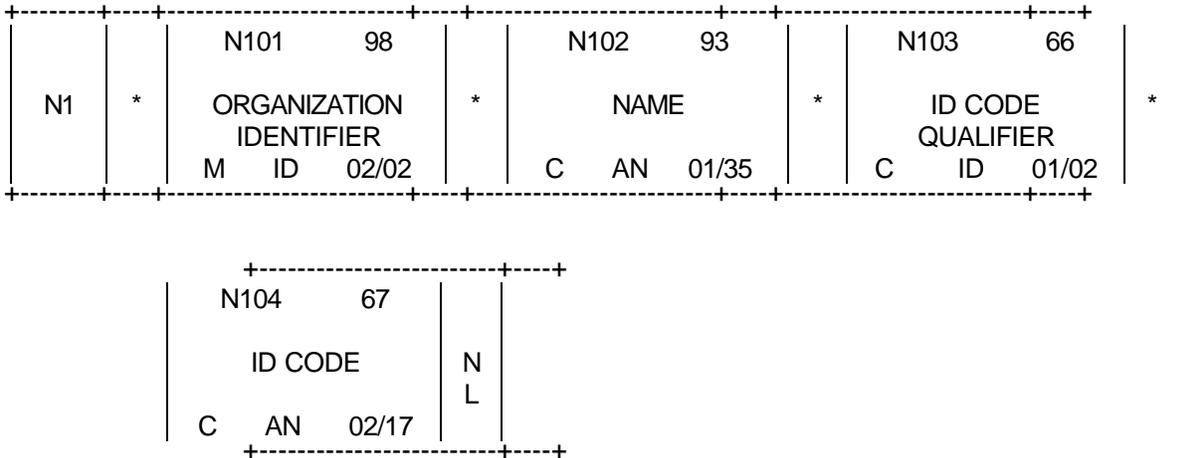
```
+--------+----+-----------------------+----+---------------------+----+-----------------------+----+
|        |    |   N101        98      |    |   N102       93     |    |   N103        66      |    |
|        |    |                       |    |                     |    |                       |    |
|  N1    | *  |   ORGANIZATION        | *  |       NAME          | *  |    ID CODE            | *  |
|        |    |   IDENTIFIER          |    |                     |    |    QUALIFIER          |    |
|        |    |   M     ID    02/02   |    |   C    AN    01/35  |    |   C      ID    01/02  |    |
+--------+----+-----------------------+----+---------------------+----+-----------------------+----+

            +------------------------+----+
            |   N104        67       |    |
            |                        |    |
            |   ID CODE              | N  |
            |                        | L  |
            |   C     AN    02/17    |    |
            +------------------------+----+
```

N101.   Organization Identifier (Data Element #98)

              (Spec: Mandatory Type = ID Min/Max = 02/02)

              This data element defines the organization specified in the Name field
              (N102). The preferred TI-recognized codes for this transaction are:

              CODE   DEFINITION

              BY   Buyer
              PE   Remit to
              SE   Seller
              SF   Ship from
              ST   Ship to

              A complete list of the TI-recognized codes can be found in Appendix A.

N102.   Name (Data Element #93)

               (Spec: Conditional Type = AN Min/Max = 01/35)

               This data element contains the name of the party referenced by the
               Organization Identifier (N101). See Note 1.

N103.   I.D. Code Qualifier (Data Element #66)

               (Spec: Conditional Type = ID Min/Max = 01/02)

               This data element identifies the type code found in the I.D. Code data
               element (N104). See Note 1. The TI-recognized codes can be found in
               Appendix A.

N104.   I.D. Code (Data Element #67)

               (Spec: Conditional Type = AN Min/Max = 02/17)

               This data element contains the mutually agreed upon code identifying the
               organization specified in the I.D. Code Qualifier (N103). See Note 1.

NOTE: 1. Either N102 or N103 and N104 is required.

3.7   N3 - Street Address

Purpose: To specify the street, building, or other address information. This segment
              should be used if the Name (N102) data element was specified in the N1
              segment .

Spec: Optional Max Length = 75 Max Use = 2 Within the N1 loop
              Within the IT1 loop
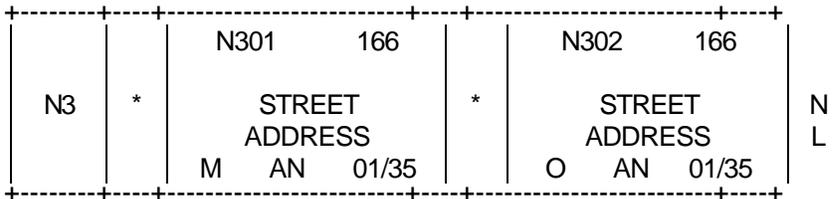
Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    |   N301        166    |    |   N302        166    |    |
|        |    |                      |    |                      |    |
|  N3    | *  |      STREET          | *  |      STREET          | N  |
|        |    |     ADDRESS          |    |     ADDRESS          | L  |
|        |    |   M    AN    01/35   |    |   O    AN    01/35   |    |
+--------+----+----------------------+----+----------------------+----+
```

N301.   Street Address (Data Element #166)

              (Spec: Mandatory Type = AN Min/Max = 01/35)

              This data element is used to give the street address.
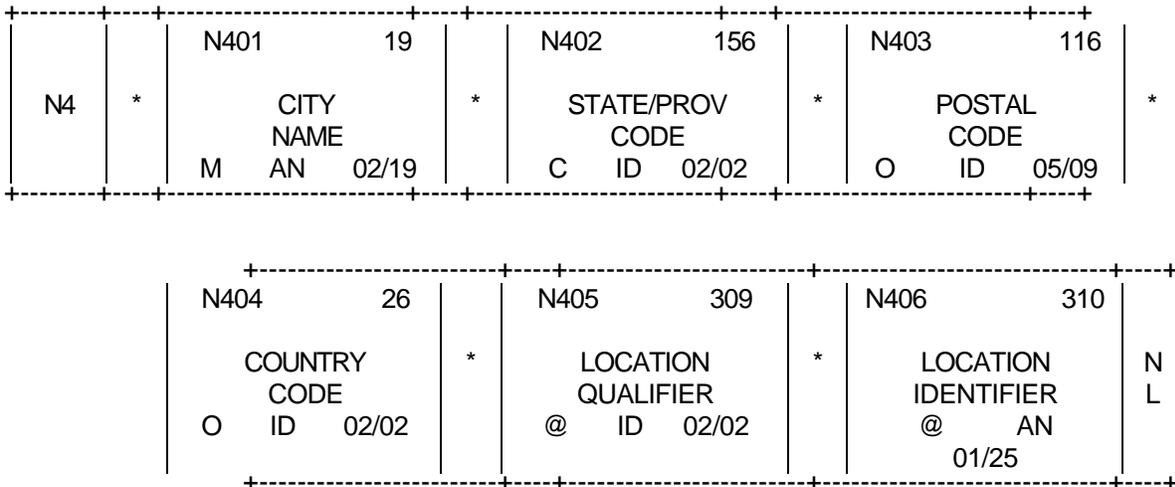
N302.   Street Address (Data Element #166)

              (Spec: Optional Type = AN Min/Max = 01/35)

              This data element is used to give additional street address information.

3.8   N4- City/State

Purpose: To specify the geographic location of the named party. This segment is required if the Name (N102) data element was specified in the N1 segment.

Spec: Optional Max Length = 68 Max Use = 1 Within N1 loop
Within the IT1 loop

Diagram:

```
+--------+----+-----------------------+----+---------------------------+----+-----------------------+---+
|        |    |  N401           19    |    |  N402             156     |    |  N403            116   |   |
|        |    |                       |    |                           |    |                       |   |
|  N4    | *  |       CITY            | *  |      STATE/PROV           | *  |       POSTAL          | * |
|        |    |       NAME            |    |        CODE               |    |        CODE           |   |
|        |    |  M    AN    02/19     |    |  C    ID    02/02         |    |  O    ID    05/09     |   |
+--------+----+-----------------------+----+---------------------------+----+-----------------------+---+


               +-----------------------+----+---------------------------+----+-----------------------+---+
               |  N404           26    |    |  N405             309     |    |  N406            310   |   |
               |                       |    |                           |    |                       |   |
               |     COUNTRY           | *  |      LOCATION             | *  |      LOCATION         | N |
               |      CODE             |    |      QUALIFIER            |    |      IDENTIFIER       | L |
               |  O    ID    02/02     |    |  @    ID    02/02         |    |  @       AN           |   |
               |                       |    |                           |    |       01/25           |   |
               +-----------------------+----+---------------------------+----+-----------------------+---+
```

N401.   City Name (Data Element #19)

(Spec: Mandatory Type = AN Min/Max = 02/19)

This data element specifies the city of the named party. See Note 1.

N402.   State/Province Code (Data Element #156)

(Spec: Conditional Type = ID Min/Max = 02/02)

This data element is a two-position abbreviation as contained in the document FIPS-PUB-5-1. The document is available from:

National Technical Information Service
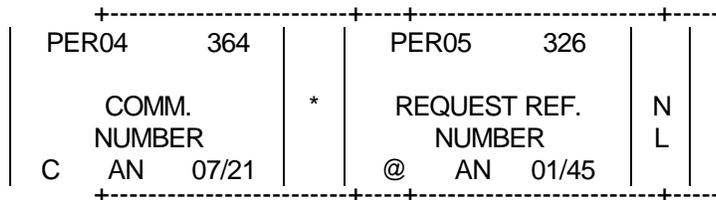Springfield, Virginia 22161

See Note 1.

N403.   Postal Code (Data Element #116)

             (Spec: Optional Type = ID Min/Max = 05/09)

             This data element identifies the postal zone code, excluding punctuation or blanks. For the United States, this is the ZIP Code.

N404.   ISO Standard Country Code (Data Element #26)

             (Spec: Optional Type = ID Min/Max = 02/02)

             This data element is a two-position code contained in the document Codes for Representation of Names and Countries (ISO 3166-1974(E)). The international standard provides a two-position alphabetic code for representing the names of countries, dependencies, and other areas of special geopolitical interest for purposes of international exchange and general directions for the maintenance of the code. The standard is intended for use in any application requiring expression of entities in coded form. It is available from:

             American National Standards Institute
             1430 Broadway
             New York, NY 10018

N405.   Location Qualifier (Data Element #309)

             NOT USED BY TI.

N406.   Location Identifier (Data Element #310)

             NOT USED BY TI.

NOTE: 1. N402 is required only if City Name (N401) is in the USA or Canada.

3.9   PER - Administrative Communications Contact

Purpose: To identify a person or office to whom administrative communications
should be directed.

Spec: Optional Max Length = 114 Max Use = 3 N1 loop end, if used; IT1 loop
end.

Diagram:
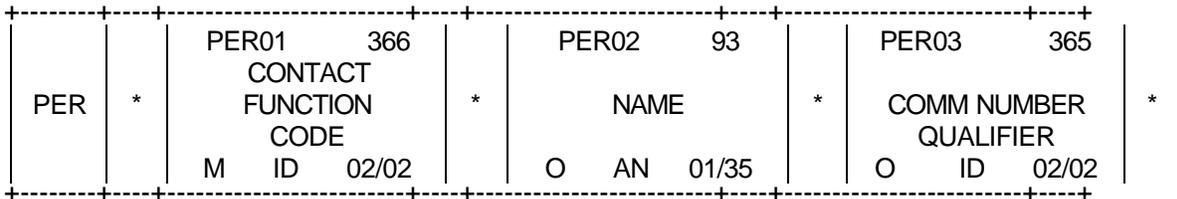
```
+--------+----+-----------------------+----+----------------------+----+---------------------+---+
|        |    |  PER01       366      |    |  PER02       93      |    |  PER03       365    |   |
|        |    |     CONTACT           |    |                      |    |                     |   |
|  PER   | *  |    FUNCTION           | *  |       NAME           | *  |   COMM NUMBER       | * |
|        |    |      CODE             |    |                      |    |    QUALIFIER        |   |
|        |    |   M    ID    02/02    |    |   O    AN    01/35   |    |   O    ID    02/02  |   |
+--------+----+-----------------------+----+----------------------+----+---------------------+---+


                 +-----------------------+----+-----------------------+----+
                 |  PER04       364      |    |  PER05       326      |    |
                 |                       |    |                       |    |
                 |     COMM.             | *  |   REQUEST REF.        | N  |
                 |    NUMBER             |    |     NUMBER            | L  |
                 |   C    AN    07/21    |    |   @    AN    01/45    |    |
                 +-----------------------+----+-----------------------+----+
```

PER01.   Contact Function Code (Data Element #366)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This data element contains a code identifying the major duty or
responsibility of the person or group named. The TI-recognized codes can
be found in Appendix A.

PER02.   Name (Data Element #93)

(Spec: Optional Type = AN Min/Max = 01/35)

This data element is the free-form name of the person or organization to be
contacted regarding the line item.

PER03.   Communication Number Qualifier (Data Element #365)

                (Spec: Optional Type = ID Min/Max = 02/02)

                This data element identifies the type of communication number which
                follows. See Note 1. The preferred TI-recognized codes for this transaction
                are:

                CODE   DEFINITION

                IT   International Telephone
                PS   Packet Switching
                TE   Telephone
                TL   Telex
                TM   Telemail
                TX   TWX

                A complete list the the TI-recognized codes can be found in Appendix A.

PER04.   Communication Number (Data Element #364)

                (Spec: Conditional Type = AN Min/Max = 07/21)

                This is the complete communication number including the country or area
                code when applicable. See Note 1.

PER05.   Request Reference Number (Data Element #326)

                NOT USED BY TI.

NOTE: 1. If PER03 is used, PER04 is required.

CONTENTS

INVOICE SUMMARY SEGMENTS
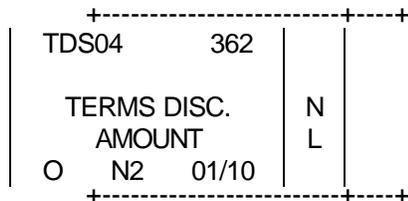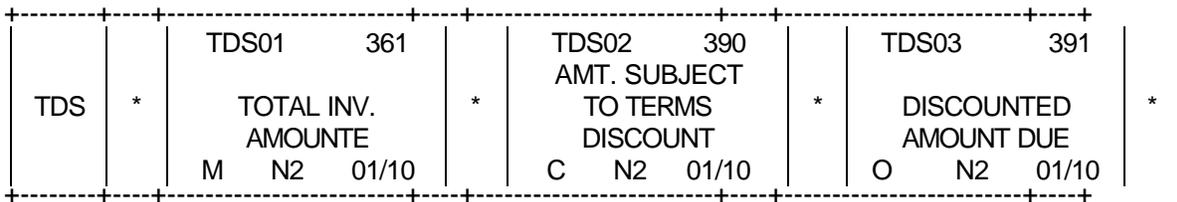
4.   Invoice Summary Segments

4.1   TDS - Total Monetary Value Summary

Purpose: To specify the total invoice discounts and amounts.

Spec: Mandatory Max Length = 48 Max Use = 1

Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+----+
|        |    |  TDS01        361     |    |  TDS02        390     |    |  TDS03        391     |    |
|        |    |                      |    |  AMT. SUBJECT        |    |                      |    |
|  TDS   |  * |    TOTAL INV.        |  * |    TO TERMS          |  * |    DISCOUNTED        |  * |
|        |    |    AMOUNTE           |    |    DISCOUNT          |    |    AMOUNT DUE        |    |
|        |    |  M    N2    01/10    |    |  C    N2    01/10    |    |  O    N2    01/10    |    |
+--------+----+----------------------+----+----------------------+----+----------------------+----+

              +------------------------+----+
              |  TDS04        362      |    |
              |                        |    |
              |   TERMS DISC.          |  N |
              |   AMOUNT               |  L |
              |  O    N2    01/10      |    |
              +------------------------+----+
```

TDS01.   Total Invoice Amount (Data Element #361)

             (Spec: Mandatory Type = N2 Min/Max = 01/10)

             Total Invoice Amount is the amount of invoice (including detail and summary
             charges, less detail and summary allowances) before terms discount is
             taken.

TDS02.   Amount Subject to Discount (Data Element #390)

             (Spec: Conditional Type = N2 Min/Max = 01/10)

             Amount Subject to Discount is the amount upon which the terms discount
             percent (ITD03) is applied. This field is required if the amount subject to
             discount is not equal to the total invoice Amount (TDS01).

TDS03.   Discounted Amount Due (Data Element #391)

             (Spec: Optional Type = N2 Min/Max = 01/10)

             Discounted Amount Due is the amount of invoice due if paid by the Terms
             Discount Due Date (ITD04).

TDS04.   Terms Discount Amount (Data Element #362)
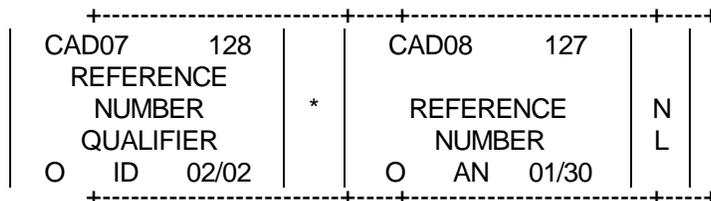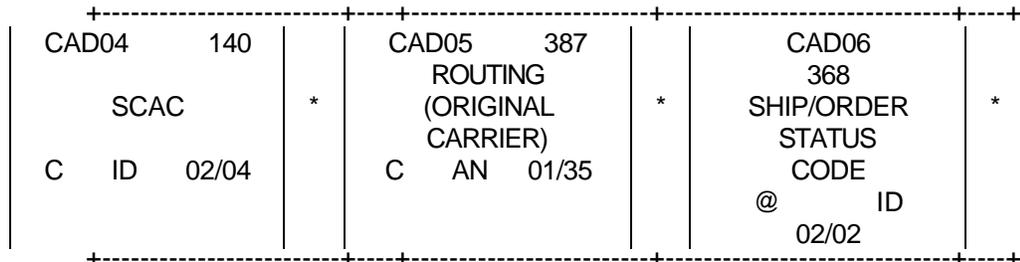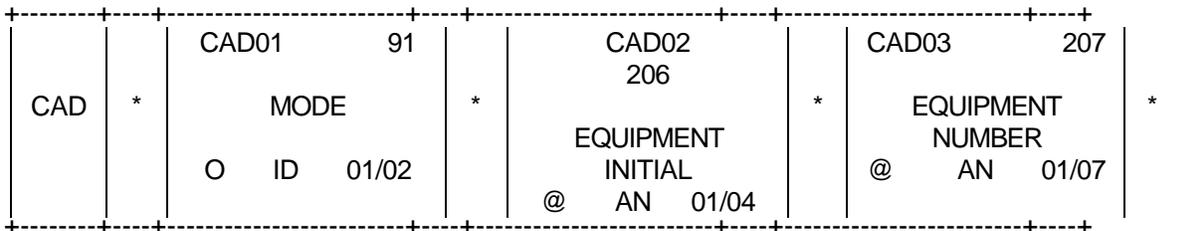
              (Spec: Optional Type = N2 Min/Max = 01/10)

              This data element contains the total amount of the terms discount.

4.2   CAD - Carrier Detail

Purpose: To specify transportation details for the invoice.

Spec: Optional Max Length = 98 Max Use = 1

Diagram:

```
+--------+----+----------------------+----+-----------------------+----+------------------------+----+
|        |    | CAD01          91    |    | CAD02                 |    | CAD03          207     |    |
|        |    |                      |    | 206                   |    |                        |    |
| CAD    | *  |      MODE            | *  |                       | *  |     EQUIPMENT          | *  |
|        |    |                      |    |    EQUIPMENT          |    |     NUMBER             |    |
|        |    |  O    ID    01/02    |    |    INITIAL            |    |  @     AN     01/07    |    |
|        |    |                      |    |  @   AN    01/04      |    |                        |    |
+--------+----+----------------------+----+-----------------------+----+------------------------+----+
```

```
                +----------------------+----+-----------------------+----+----------------------------+----+
                | CAD04          140   |    | CAD05        387      |    | CAD06                      |    |
                |                      |    | ROUTING               |    | 368                        |    |
                |      SCAC            | *  | (ORIGINAL             | *  | SHIP/ORDER                 | *  |
                |                      |    | CARRIER)              |    | STATUS                     |    |
                |  C    ID    02/04    |    | C    AN    01/35      |    | CODE                       |    |
                |                      |    |                       |    | @          ID             |    |
                |                      |    |                       |    | 02/02                      |    |
                +----------------------+----+-----------------------+----+----------------------------+----+
```

```
                +----------------------+----+----------------------+----+
                | CAD07        128     |    | CAD08        127     |    |
                | REFERENCE            |    |                      |    |
                | NUMBER               | *  | REFERENCE            | N  |
                | QUALIFIER            |    | NUMBER               | L  |
                | O    ID    02/02     |    | O    AN    01/30     |    |
                +----------------------+----+----------------------+----+
```

CAD01.   Mode (Data Element #91)

              (Spec: Optional Type = ID Min/Max = 01/02

              Mode specifies the mode of transportation for the shipment. The TI-
              recognized codes can be found in Appendix A.

CAD02.   Equipment Initial (Data Element #206)

              NOT USED BY TI.

CAD03.   Equipment Number (Data Element #207)

                              NOT USED BY TI.

CAD04.   SCAC (Data Element #140)

              (Spec: Conditional Type = ID Min/Max = 02/04)

              SCAC (Standard Carrier Alpha Code is a unique two- to four-position code
              for use as an abbreviation or to identify a particular carrier for purposes of
              processing transportation data. See Note 1. The TI-recognized codes can
              be obtained from:

              National Motor Freight Traffic Association, Inc.
              1616 P Street, N.W.
              Washington, DC 20036

CAD05.   Routing (Original Carrier) (Data Element #387)

              (Spec: Conditional Type = AN Min/Max = 01/35)

              Routing (Original Carrier) is the free-form description of the routing or
              requested routing for shipment, or the originating carrier's name or code.
              See Note 1.

CAD06.   Ship/Order Status Code (Data Element #368)

              (Spec: Optional Type = ID Min/Max = 02/02)

              Reference Number Qualifier is a code qualifying the Reference Number
              (CAD08). See Note 2. The TI-recognized codes can be found in Appendix
              A.

CAD08.   Reference Number (Data Element #127)

              (Spec: Optional Type = AN Min/Max = 01/30)

              Reference Number is a number or identification code as qualified by the
              Reference Number Qualifier (CAD07). See Note 2.

NOTES:

              1. Either CAD04 or CAD05 is required.

              2. If CAD07 is used, CAD08 is required.

4.3   ITA - Allowance or Charge

Purpose: To specify allowances or charges related to the entire invoice.

Spec: Optional Max Length = 175 Max Use = 10

Diagram:

```
+--------+----+----------------------+----+----------------------+----+----------------------+----+
|        |    | ITA01          248   |    | ITA02          559   |    | ITA03          560   |    |
|        |    | ALLOWANCE            |    | AGENCY               |    | SPECIAL              |    |
|  ITA   | *  | OR CHARGE            | *  | QUALIFIER            | *  | SERVICES             | *  |
|        |    | INDICATOR            |    | CODE                 |    | CODE                 |    |
|        |    | M      ID            |    | M      ID     02/02  |    | C      ID            |    |
|        |    |      01/01           |    |                      |    |      02/10           |    |
+--------+----+----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+----------------------+----+----------------------+----+
              | ITA04          331   |    | ITA05          341   |    | ITA06          359   |    |
              | ALLOW. OR            |    | ALLOWANCE            |    | ALLOW. OR            |    |
              | CHG. METHOD          | *  | OR CHARGE            | *  | CHARGE               | *  |
              | OF HANDLING          |    | NUMBER               |    | RATE PER UNIT        |    |
              | M      ID            |    | O      AN            |    | @      R             |    |
              |      02/02           |    |      01/16           |    |      01/09           |    |
              +----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+----------------------+----+----------------------+----+
              | ITA07          360   |    | ITA08          378   |    | ITA09          332   |    |
              | ALLOWANCE            |    | ALLOWANCE            |    | ALLOWANCE            |    |
              | OR CHARGE            | *  | OR CHARGE            | *  | OR CHARGE            | *  |
              | TOTAL AMOUNT         |    | % QUALIF.            |    | PERCENT              |    |
              | C      N2            |    | O      ID     01/01  |    | C      R      01/06  |    |
              |      01/09           |    |                      |    |                      |    |
              +----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+----------------------+----+----------------------+----+
              | ITA10          339   |    | ITA11          355   |    | ITA12          379   |    |
              | ALLOWANCE            |    | UNIT OF              |    |                      |    |
              | OR CHARGE            | *  | MEASURE              | *  | FREE GOODS           | *  |
              | QUANTITY             |    | CODE                 |    | QUANTITY             |    |
              | @      R             |    | @      ID     02/02  |    | @      R             |    |
              |      01/10           |    |                      |    |      01/10           |    |
              +----------------------+----+----------------------+----+----------------------+----+


              +----------------------+----+
              | ITA13          352   |    |
              |                      | N  |
              | DESCRIPTION          | L  |
              |                      |    |
              | C      AN     01/80  |    |
                                          +----------------------+----+
```

ITA01.   Allowance or Charge Indicator (Data Element #248)

(Spec: Mandatory Type = ID Min/Max = 01/01)

The Allowance or Charge Indicator is a one-position indicator specifying whether the allowance or charge data segment is an allowance or charge against the entire invoice. The preferred T1-recognized codes for this transaction are:

CODE   DEFINITION

A   Allowance
C   Charge

A complete list of the TI-recognized codes can be found in Appendix A.

NOTE: If 'A' is used, PICS/DCPR (BVAPP) requires that ITA07 be zero.

ITA02.   Agency Qualifier Code (Data Element #559)

(Spec: Mandatory Type = ID Min/Max = 02/02)

The Agency Qualifier Code is a code identifying the agency assigning the values used in ITA03. See Note 1. The only TI-recognized value is 'TI' (Telecommunications Industry).

ITA03.   Special Services Code (Data Element #560)

(Spec: Conditional Type = ID Min/Max = 02/10)

The Special Services Code identifies the special Service being performed. See Note 1. The TI-recognized codes can be found in Appendix A.

ITA04.   Allowance or Charge Method of Handling (Data Element #331)

(Spec: Mandatory Type = ID Min/Max = 02/02)

Allowance or Charge Method of Handling specifies how the allowance or charge on the invoice should be handled. The preferred TI-recognized codes for this transaction are:

CODE   DEFINITION

04   Credit Customer Account
06   Charge to be paid by Customer

A complete list of the TI-recognized codes can be found in Appendix A.

ITA05.   Allowance or Charge Number (Data Element #341)

               (Spec: Optional Type = AN Min/Max = 01/16)

               Allowance or Charge Number is used to specify a tax jurisdiction if the
               Special Services code (ITA03) was for tax. The valid codes for tax
               jurisdiction are available from the customer.

ITA06.   Allowance or Charge Rate Per Unit (Data Element #359)

               NOT USED BY TI.

ITA07.   Allowance or Charge Total Amount (Data Element #360)

               (Spec: Conditional Type = N2 Min/Max = 01/09)

               Allowance or Charge Total Amount is the dollar total of the allowance or
               charge for the entire invoice. See Note 2.

               NOTE: PICS/DCPR (BVAPP) requires zero amount if 'A' is used in ITA01.

ITA08.   Allowance or Charge Percent Qualifier (Data Element #378)

               (Spec: Optional Type = ID Min/Max = 01/01)

               Allowance or Charge Percent Qualifier is a code indicating on what basis
               the Allowance or Charge Percent (ITA09) is calculated. See Notes 2 and 3.
               The preferred TI-recognized codes for this transaction are:

               CODE   DEFINITION
               1   Item List Cost
               2   Item Net Cost

               A complete list of the TI-recognized codes can be found in Appendix A.

ITA09.   Allowance or Charge Percent (Data Element #332)

               (Spec: Conditional Type = R Min/Max = 01/06)

               Allowance or Charge Percent is the allowance or charge expressed as a
               percent for the invoice based on the Allowance or Charge Percent Qualifier
               (ITA08). See Note 3.

ITA10.   Allowance or Charge Quantity (Data Element #339)

               NOT USED BY TI.

ITA11.   Unit of Measure Code (Data Element #355)

                NOT USED BY TI.

ITA12.   Free Goods Quantity (Data Element #379)

                NOT USED BY TI.

ITA13.   Description (Data Element #352)

                (Spec: Conditional Type = AN Min/Max = 01/80)

                This data element is a semi-structured description with the first five
                positions being reserved for use when the Special Services Code (ITA03)
                is "ST" and taxes are being applied to a Special Services Charge Amount
                (ITA07) from a previous data segment. The final 75 characters of this data
                element consist of a free-form description of the allowance or charge for a
                special service performed for the line item.
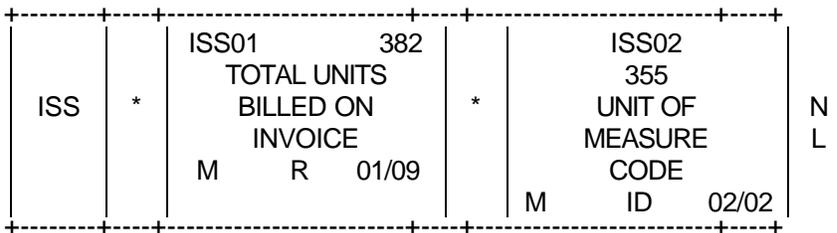
NOTE:

                1. Since ITA02 is required, either ITA03 or ITA13 is required.

                2. Either ITA07 or ITA08 is required.

                3. If ITA08 is used, ITA09 is required.

4.4   ISS - Invoice Shipment Summary

Purpose: PICS/DCPR (BVAPP) uses this segment for invoices containing repair
               services. It is not used for invoices containing purchases. This segment
               does not adhere to the TCIF guidelines.

Spec: Mandatory for Repair Invoices Max Length = 42 Max Use = 1
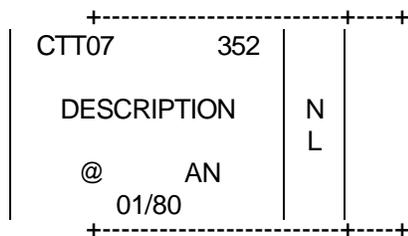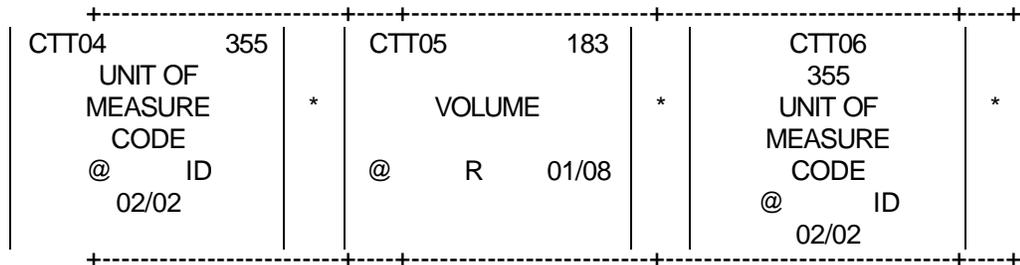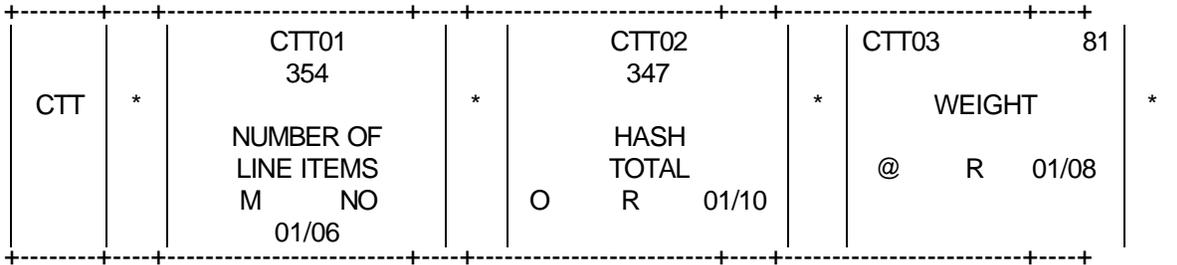
Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    | ISS01         382    |    |       ISS02          |    |
|        |    | TOTAL UNITS          |    |        355           |    |
|  ISS   | *  | BILLED ON            | *  |      UNIT OF         | N  |
|        |    | INVOICE              |    |      MEASURE         | L  |
|        |    | M      R     01/09   |    |       CODE           |    |
|        |    |                      |    | M      ID     02/02  |    |
+--------+----+----------------------+----+----------------------+----+
```

ISS01.   Total Units Billed on Invoice - Non TCIF (Data Element #382)

                (Spec: Mandatory Type = R Min/Max = 01/09)

                Specifies the total number of physical units being charged for on this Repair
                Invoice. Transportation only invoices should populate this field with zeros.
                Invoices containing other charges in addition to transportation must
                populate this field with the appropriate amount.

ISS02.   Unit of Measure Code (Data Element #355)

                (Spec: Mandatory Type = ID Min/Max = 02/02)

                Unit of Measure Code is a code identifying the basic unit of measure. The
                only TI-recognized code for ISS02 is 'EA' (Each).

ISS03.   Weight (Data Element #81)
                NOT USED BY TI.

ISS04.   Unit of Measure Code (Data Element #355)
                NOT USED BY TI.

ISS05.   Volume (Data Element #183)
                NOT USED BY TI.

ISS06.   Unit of Measure Code (Data Element #355)
                NOT USED BY TI.

4.5 CTT - Transaction Totals

Purpose: To provide hash totals to validate transaction completeness and correctness.

Spec: Mandatory Max Length = 127 Max Use = 1

Diagram:

```
+--------+----+----------------------+----+----------------------+----+---------------------+---+
|        |    |        CTT01         |    |        CTT02         |    | CTT03          81   |   |
|        |    |        354           |    |        347           |    |                     |   |
| CTT    | *  |                      | *  |                      | *  |    WEIGHT           | * |
|        |    |    NUMBER OF         |    |    HASH              |    |                     |   |
|        |    |    LINE ITEMS        |    |    TOTAL             |    | @       R    01/08  |   |
|        |    |    M       NO        | O  |    R       01/10     |    |                     |   |
|        |    |      01/06           |    |                      |    |                     |   |
+--------+----+----------------------+----+----------------------+----+---------------------+---+
```

```
+----------------------+----+----------------------+----+---------------------------+---+
| CTT04          355   |    | CTT05          183   |    | CTT06                     |   |
| UNIT OF              |    |                      |    | 355                       |   |
| MEASURE              | *  |    VOLUME            | *  | UNIT OF                   | * |
| CODE                 |    |                      |    | MEASURE                   |   |
| @       ID           |    | @       R    01/08   |    | CODE                      |   |
|   02/02              |    |                      |    | @          ID             |   |
|                      |    |                      |    |   02/02                   |   |
+----------------------+----+----------------------+----+---------------------------+---+
```

```
+------------------------+----+
| CTT07          352     |    |
|                        | N  |
| DESCRIPTION            | L  |
|                        |    |
| @        AN            |    |
|    01/80               |    |
+------------------------+----+
```

CTT01.   Number of Line Items (Data Element #354)

(Spec: Mandatory Type = NO Min/Max = 01/06)

Number of Line Items is the total number of line items (IT1 segments) in the invoice transaction set.

CTT02.   Hash Total (Data Element #347)

(Spec: Optional Type = R Min/Max = 01/10)

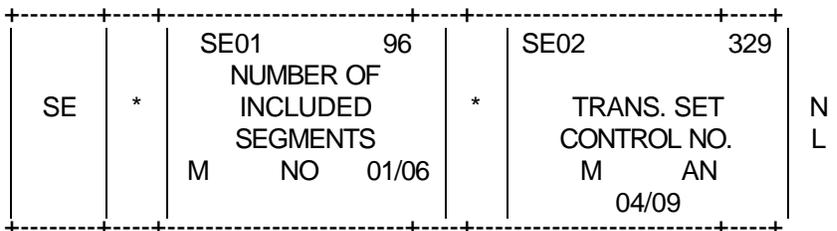Hash total is the sum of all values of Quantity Invoiced (IT102).

CTT03.   Weight (Data Element #81)

             NOT USED BY TI.

CTT04.   Unit of Measure Code (Data Element #355)

             NOT USED BY TI.

CTT05.   Volume (Data Element #183)

             NOT USED BY TI.

CTT06.   Unit of Measure Code (Data Element #355)

             NOT USED BY TI.

CTT07.   Description (Data Element #352)

             NOT USED BY TI.

4.6   SE - Transaction Set Trailer

Purpose: To identify the end of a transaction set.

Spec: Mandatory Max Length = 20 Max Use = 1

Diagram:

```
+--------+----+----------------------+----+----------------------+----+
|        |    | SE01          96     |    | SE02           329   |    |
|        |    |     NUMBER OF        |    |                      |    |
|   SE   | *  |     INCLUDED         | *  |     TRANS. SET       | N  |
|        |    |     SEGMENTS         |    |    CONTROL NO.       | L  |
|        |    |  M     NO    01/06   |    |    M       AN        |    |
|        |    |                      |    |        04/09         |    |
+--------+----+----------------------+----+----------------------+----+
```

SE01.   Number of Included Segments (Data Element #96)

             (Spec: Mandatory Type = NO Min/Max = 01/06)

             Number of Included Segments is the total of all segments used in the
             transaction set including the 'ST' and 'SE' segments.

SE02.   Transaction Set Control Number (Data Element #329)

             (Spec: Mandatory Type = AN Min/Max - 04/09)

             This data element is the identifying control number assigned by the
             originator of the transaction set. The value of this data element must equal
             the same data element in the Transaction Set Header (ST02).

LABI-	Installation Labor
LABN-	Labor, No Trouble Found
LABR-	Labor Repair
LABT-	Labor, Test and Calibrate
LABM-	Labor, Modify
MATN-	Material
MATR-	Material, Repair
MATM-	Material, Modify
ENG-	Engineering
H & H-	Hauling & Hoisting
L & MR-	Labor & Material, Repair
L & MM-	Labor & Material, Modify
RTUI-	Right to Use, Initial
RTUR-	Right to Use, Recurring
OSSS-	Optional Software Support Service
SERC-	Service Charges (only used for Central Office Equipment repair invoices). For other than COE repair invoices, line item service charges are specified using the allowance or charge segment.
TRND-	Transportation, Direct Billing. Vendor bills for transportation company on vendor invoice.
TRN3-	Transportation, Third Party Billing. Transportation Company sends their own invoice for services.
TRNV-	Transportation, Vendor Provided
WARE-	Warehousing
R & L-	Rents & Leases
MISC-	Miscellaneous
SALV-	Salvage
PUBL-	Publication
REPR-	Reproduction

Exhibit 4-1 Valid Billing Categories for PICS/DCPR (BVAPP)

CONTENTS

Chapter and Section   **Page**

5.   References

5.1   Publication References

Telecommunications Industry Forum (TCIF) Guidelines - Issue 1

ASC X12 Version 2, Release 1

TR-ISD-000152, Issue 2, May 1987

BR 756-120-098, Issue 1, dated August 1989, "BVAPP EDI DATA ELEMENT JOB AID"

Bellcore Mechanized Invoicing Training Document

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