Rite Aid Corporation
856 DSD Ship Notice/Manifest
Direct Store Delivery (DSD)

Functional Group ID=SH

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

	Pos. No.	Seg ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
M	0100	ST	Transaction Set Header	M	1		
M	0200	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	Pos. No.	Seg ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level Shipment	M	1		c1
M	1100	TD1	Carrier Details (Quantity and Weight)	M	20		
M	1500	REF	Reference Information	M	>1		
M	1500	REF	Reference Information	M	>1		
	1500	REF	Reference Information	O	>1		
M	2000	DTM	Date/Time Reference	M	10		
	2000	DTM	Date/Time Reference	O	10		
	2000	DTM	Date/Time Reference	O	10		
	2100	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - N1			200	
M	2200	N1	Party Identification	M	1		
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level Order	M	1		
M	0500	PRF	Purchase Order Reference	M	1		
			LOOP ID - N1			200	
	2200	N1	Party Identification	O	1		
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level Pack	M	1		
M	0500	PRF	Purchase Order Reference	M	1		
	1900	MAN	Marks and Numbers Information	O	>1		
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Item Level	M	1		

M	0200	LIN	Item Identification	M	1
M	0300	SN1	Item Detail (Shipment)	M	1
M	0700	PID	Product/Item Description	M	200

Summary:

	Pos. No.	Seg ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
Must Use	0100	CTT	Transaction Totals	O	1		n1
M	0200	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: **ST** **Transaction Set Header**
Position: 0100
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:
1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.
Comments:
Business Rules: Variable Name: STST
Notes: ST*856*8470007~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	**M**	**1**	**ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M**	**1**	**AN 4/9**

Segment: **BSN** **Beginning Segment for Ship Notice**
Position: 0200
Loop:
Level: Heading
Usage: Must Use
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: **1** If BSN07 is present, then BSN06 is required.
Semantic Notes:
1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: **1** BSN06 and BSN07 differentiate the functionality of use for the transaction set.
Notes: BSN*00*330007192402*20170711*004934*0001~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**BSN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M**	**1**	**ID 2/2**
M	**BSN02**	**396**	**Shipment Identification**	**M**	**1**	**AN 2/30**

			A unique control number assigned by the original shipper to identify a specific shipment			
M	**BSN03**	**373**	**Date**	**M**	**1**	**DT 8/8**
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
M	**BSN04**	**337**	**Time**	**M**	**1**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)			
M	**BSN05**	**1005**	**Hierarchical Structure Code**	**O**	**1**	**ID 4/4**
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0001 Shipment, Order, Packaging, Item			

Segment: **HL** **Hierarchical Level Shipment**
Position: 0100
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: HL*1**S~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**1**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure Refer to 005010 Data Element Dictionary for acceptable code values.	**M**	**1**	**ID 1/2**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 1100
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:
Comments:
Notes: TD1*CTN25*1~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**TD101**	**103**	**Packaging Code** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required CTN Carton 25 Corrugated or Solid	**O**	**1**	**AN 3/5**
M	**TD102**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**X**	**1**	**N0 1/7**

Segment: **REF** **Reference Information**
Position: 1500
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REF*IA*48012~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IA Internal Vendor Number	**M**	**1**	**ID 2/3**
M	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**1**	**AN 1/50**

Segment: **REF** **Reference Information**
Position: 1500
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REF*BM*926833017007192402~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification BM Bill of Lading Number	M	1	ID 2/3
M	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1	AN 1/50

Segment: **REF** **Reference Information**
Position: 1500
Loop: HL Must Use
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: REF*IV*INVNBR000001~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification IV Seller's Invoice Number	M	1	ID 2/3
M	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1	AN 1/50

Segment: **DTM** **Date/Time Reference**
Position: 2000
Loop: HL Must Use
Level: Detail

Usage: Must Use
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: DTM*011*20170711~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Shipped	M	1	ID 3/3
M	DTM02	373	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	1	DT 8/8

Segment: **DTM** **Date/Time Reference**
Position: 2000
Loop: HL Must Use
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: DTM*017*20170711~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 017 Estimated Delivery	M	1	ID 3/3
M	DTM02	373	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	1	DT 8/8

Segment: **DTM** **Date/Time Reference**
Position: 2000
Loop: HL Must Use
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: DTM*003*20180205~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	DTM01	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 003 Invoice	M	1	ID 3/3
M	DTM02	373	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Invoice Date	X	1	DT 8/8

Segment: **FOB** **F.O.B. Related Instructions**
Position: 2100
Loop: HL Must Use
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:
1 If FOB03 is present, then FOB02 is required.
2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB08 is present, then FOB09 is required.
Semantic Notes:
1 FOB01 indicates which party will pay the carrier.
2 FOB02 is the code specifying transportation responsibility location.
3 FOB06 is the code specifying the title passage location.
4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Comments:
Notes: FOB*PP~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	FOB01	146	**Shipment Method of Payment** Code identifying payment terms for transportation charges PP Prepaid (by Seller)	M	1	ID 2/2

Segment: **N1** **Party Identification**
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:

Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Notes: N1*ST**92*00217~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual ST Ship To	**M**	**1**	**ID 2/3**
M	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X**	**1**	**ID 1/2**
M	**N104**	**67**	**Identification Code** Code identifying a party or other code Rite Aid 5 Digit Store Number	**X**	**1**	**AN 2/80**

Segment: **HL** **Hierarchical Level Order**
Position: 0100
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments: **1** The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

The HL segment defines a top-down/left-right ordered structure.

2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: HL*2*1*O~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**1**	**AN 1/12**

	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**1**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure Refer to 005010 Data Element Dictionary for acceptable code values.	**M**	**1**	**ID 1/2**

Segment: **PRF** **Purchase Order Reference**
Position: 0500
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: **1** PRF04 is the date assigned by the purchaser to purchase order.
Comments:
Notes: PRF*14766~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**PRF01**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	**M**	**1**	**AN 1/22**

Segment: **N1** **Party Identification**
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: N1*BY**92*00217~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser)	**M**	**1**	**ID 2/3**
M	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 1/2**
M	**N104**	**67**	**Identification Code** Code identifying a party or other code	**X**	**1**	**AN 2/80**

Segment: **HL** **Hierarchical Level Pack**
Position: 0100
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:
1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
Notes: HL*3*2*P~
Tare and Pack levels are optional now. However label scanning is expected to be implemented at a future date at which time Tare and Pack levels will be mandatory for label compliance.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	HL01	628	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	1	AN 1/12
	HL02	734	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	1	AN 1/12
M	HL03	735	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure Refer to 005010 Data Element Dictionary for acceptable code values.	M	1	ID 1/2

Segment: **PRF** **Purchase Order Reference**
Position: 0500
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:

Semantic Notes: **1** PRF04 is the date assigned by the purchaser to purchase order.

Comments:

Notes: PRF*14766~

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	PRF01	324	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser	M	1	AN 1/22

Segment: MAN Marks and Numbers Information

Position: 1900

Loop: HL Must Use

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax Notes:
1 If either MAN04 or MAN05 is present, then the other is required.
2 If MAN06 is present, then MAN05 is required.

Semantic Notes:
1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:
1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Notes: MAN*GM*00092683300071924024~
The Man segment is only mandatory if Tare Hierarchical Level HL is present.
UCC-128 labeling is not required at this time. Rite Aid expects to address label requirements at a later date.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	MAN01	88	**Marks and Numbers Qualifier** Code specifying the application or source of Marks and Numbers (87) GM EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier	M	1	ID 1/2
M	MAN02	87	**Marks and Numbers** Marks and numbers used to identify a shipment or parts of a shipment	M	1	AN 1/48

Segment: HL Hierarchical Item Level

Position: 0100

Loop: HL Must Use

Level: Detail

Usage: Must Use

Max Use: 1

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

Comments:
1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: HL*4*3*I~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**1**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**1**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure Refer to 005010 Data Element Dictionary for acceptable code values.	**M**	**1**	**ID 1/2**

Segment: **LIN** **Item Identification**
Position: 0200
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1 If either LIN04 or LIN05 is present, then the other is required.
2 If either LIN06 or LIN07 is present, then the other is required.
3 If either LIN08 or LIN09 is present, then the other is required.
4 If either LIN10 or LIN11 is present, then the other is required.
5 If either LIN12 or LIN13 is present, then the other is required.
6 If either LIN14 or LIN15 is present, then the other is required.
7 If either LIN16 or LIN17 is present, then the other is required.
8 If either LIN18 or LIN19 is present, then the other is required.
9 If either LIN20 or LIN21 is present, then the other is required.
10 If either LIN22 or LIN23 is present, then the other is required.
11 If either LIN24 or LIN25 is present, then the other is required.

12 If either LIN26 or LIN27 is present, then the other is required.
13 If either LIN28 or LIN29 is present, then the other is required.
14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: **1** LIN01 is the line item identification

Comments: **1** See the Data Dictionary for a complete list of IDs.
2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: LIN*4*VN*426643*UP*077741360830~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O**	**1**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) VN Vendor's (Seller's) Item Number	**M**	**1**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service	**M**	**1**	**AN 1/48**
M	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN EAN/UCC – 13 Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN) EO EAN/UCC – 8 Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN) ND National Drug Code (NDC) UA U.P.C./EAN Case Code (2-5-5) UI U.P.C. Consumer Package Code (1-5-5) UP UCC – 12 Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)	**X**	**1**	**ID 2/2**
M	**LIN05**	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**1**	**AN 1/48**
	LIN06	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) IN Buyer's Item Number	**X**	**1**	**ID 2/2**
	LIN07	**234**	**Product/Service ID** Identifying number for a product or service	**X**	**1**	**AN 1/48**

Segment: **SN1** **Item Detail (Shipment)**
Position: 0300
Loop: HL Must Use
Level: Detail

Usage: Must Use
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes:
1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes:
1 SN101 is the ship notice line-item identification.
2 SN105 is quantity ordered.
Comments:
1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: SN1**6*EA~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**SN102**	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M**	**1**	**R 1/10**
M	**SN103**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	**M**	**1**	**ID 2/2**

Segment: **PID** **Product/Item Description**
Position: 0700
Loop: HL Must Use
Level: Detail
Usage: Must Use
Max Use: 200
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
3 If PID07 is present, then PID03 is required.
4 If PID08 is present, then PID04 is required.
5 If PID09 is present, then PID05 is required.
Semantic Notes:
1 Use PID03 to indicate the organization that publishes the code list being referred to.
2 PID04 should be used for industry-specific product description codes.
3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4 PID09 is used to identify the language being used in PID05.
Comments:
1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3 PID07 specifies the individual code list of the agency specified in PID03.
Notes: PID*F**ZZ*GB*CLOVER HALF & HALF PAPER 1QT~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description F Free-form	**M**	**1**	**ID 1/1**
M	**PID03**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values ZZ Mutually Defined	**X**	**1**	**ID 2/2**

M	**PID04**	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic	**X**	**1**	**AN 1/12**
M	**PID05**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**1**	**AN 1/80**

Segment: **CTT** **Transaction Totals**
Position: 0100
Loop:
Level: Summary
Usage: Must Use
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: CTT*10~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set	**M**	**1**	**N0 1/6**

Segment: **SE** **Transaction Set Trailer**
Position: 0200
Loop:
Level: Summary
Usage: Must Use
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: SE*46*8470007~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M**	**1**	**N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M**	**1**	**AN 4/9**

Sample Data

```
ISA*00*          *00*          *08*925791A750      *01*014578892PEP    *170522*181
3*<*00501*000000001*0*T*:~
GS*SH*925791A750*014578892PEP*20170522*1813*1*X*005010~
ST*856*8470007~
BSN*00*330007192402*20170711*004934*0001~
HL*1**S~
TD1*CTN25*1~
REF*IA*68970~
REF*BM*926833017007192402~
REF*IV*INVNBR000001~
DTM*011*20170711~
DTM*017*20170711~
DTM*003*20180205~
FOB*PP~
N1*ST**92*00217~
HL*2*1*O~
PRF*14766~
N1*BY**92*217~
HL*3*2*P~
PRF*14766~
MAN*GM*00092683300071924024~
HL*4*3*I~
LIN*4*VN*426643*UP*077741360830~
SN1**6*EA~
PID*F**ZZ*GB*CLOVER HALF & HALF PAPER 1QT~
HL*5*3*I~
LIN*5*VN*445908*UP*077741360021~
SN1**6*EA~
PID*F**ZZ*GB*CLOVER SKIM MILK PLSTC 1GL~
HL*6*3*I~
LIN*6*VN*772772*UP*077741360007~
SN1**3*EA~
PID*F**ZZ*GB*CLOVER WHOLE MILK    1GL~
HL*7*3*I~
LIN*7*VN*445924*UP*077741360014~
SN1**6*EA~
PID*F**ZZ*GB*CLOVER 2% MILKPLSTC 1GL~
HL*8*3*I~
LIN*8*VN*764522*UP*683300085856~
SN1**4*EA~
PID*F**ZZ*GB*F&L VAN YGRT W/BLUBRY~
HL*9*3*I~
LIN*9*VN*764308*UP*683300085870~
SN1**4*EA~
PID*F**ZZ*GB*F&L VAN YGRT W/STRWBRY~
HL*10*3*I~
LIN*10*VN*428640*UP*033383000701~
SN1**6*EA~
PID*F**ZZ*GB*PRIMO APPLES RED~
CTT*10~
SE*48*8470007~
GE*1*1~
IEA*1*000000001~
```