SEG		PAGE	REQ	MAX		
ID	TITLE	NO.	USE	USE	LOOPS	COUNT
ST	Transaction Set Header		M	1		
BFR	Beginning Segment for	830.2	M	1		
	Planning Schedule					
N1	Name	830.3	O	1	+	200
N2	Additional Name	830.5	O	2	1	
N3	Street Address	830.6	O	2		
N4	City/State	830.7	O	1		
REF	Reference Numbers	830.8	O	12	+	
LIN	Line Item Detail	830.9	M	1	+	>1
UIT	Unit Detail	830.10	M	1		
PID	Product/Item Description	830.11	O	1000	1	
REF	Reference Numbers	830.12	O	12	1	
PER	Administration	830.13	O	3		
	Communication Contact				1	
SDP	Ship/Delivery Pattern	830.14	M	1	+	260
FST	Forecast Schedule	830.15	M	260	+	
ATH	Resource Authorization	830.16	O	20	1	
SHP	Shipped Received	830.17	O	25	+	
	Information					
CTT	Transaction Totals	830.18	M	1		

TRANSACTION SET: 830 - Material Release.

SEGMENT: BFR – Beginning Segment for Planning Schedule

LEVEL: Heading

MAX USAGE/LOOPS: 1 / None

PURPOSE: To indicate the beginning of a planning schedule transaction set and related forecast

dates.

GENERAL

INFORMATION: Element BFR04 indicates whether the planning is shipment or delivery based.

EXAMPLES: BFR~05~830-BRIL02008~DL~830-BRIL02008~20020118~20020118~~~830-

BRIL02008 N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
BFR01	353	Transaction Set Purpose	M ID 02/02	'05" Replacement
BFR02	127	Forecast Order Number	C AN 01/30	Forecast-Schedule-No
BFR03	328	Release Number	C AN 01/30	Release - No
BFR04	675	Forecast Type Qualifier	M ID 02/02	"DL" Delivery dates in forecast.
BFR05	676	Forecast Quantity Qualifier	M ID 01/01	"A" Actual Discreet "C" Cumulative "D" Net Change "R" Replacement
BFR06	373	Horizon Start Date	M DT 08/08	Horizon Start Date "CCYYMMDD"
BFR07	373	Horizon End Date	M DT 08/08	Horizon End Date "CCYYMMDD"
BFR08	373	Forecast Generation Date	M DT 08/08	Current - Date

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ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
BFR10	367	Contract Number	O AN 01/30	
BFR11	324	Purchase Order Number	O AN 01/22	

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TRANSACTION SET: 830 - Material Release

SEGMENT: N1 - Name

LEVEL: Heading

MAX USAGE/LOOPS: 1 / 200

PURPOSE: To indemnify a party by type of organization, name and code.

GENERAL

INFORMATION: The N1 segment is commonly used to identify the ship-to location and ship-from location

EXAMPLES: N1~ST~Elkhart Manufacturing Plant~92~ELK01 N/L

N1~SI~Gunite Corporation~92~ELK01 N/L

N1~SU~Brillion Iron Works

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
N 101	098	Organization Identifier	M ID 02/03	Use any valid ANSI code
N 102	093	Name	C AN 01/60	
N103	066	Identification Code Qualifier	C AN 01/02	Use "92" for ship to location code.
N194	067	Identification Code	C AN 02/80	Use Gunite ELK01 Plant Code.

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TRANSACTION SET: 830 - Material Release

SEGMENT: N2 - Additional Name

LEVEL: Heading

MAX USAGE/LOOPS: 2 / None

PURPOSE: To further identify the organization.

GENERAL

INFORMATION: None.

EXAMPLES: N2~Elkhart Plant 1 N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
N201	093	Name	M AN 01/60	
N202	093	Name	M AN 01/60	

Segment Not Used At Current Time

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TRANSACTION SET: 830 - Material Release

SEGMENT: N3 - Street Address

LEVEL: Heading

MAX USAGE/LOOPS: 2 / None

PURPOSE: To identify the organizations street address.

GENERAL

INFORMATION: None.

EXAMPLES: N3~801 Co. RD. 15 N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
N301	166	Address	M AN 01/55	
N302	168	Address	O AN 01/55	

Segment Not Used At Current Time

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TRANSACTION SET: 830 - Material Release

SEGMENT: N4 - City/State

LEVEL: Heading

MAX USAGE/LOOPS: 1 / None

PURPOSE: To identify the ship-to city and state.

GENERAL

INFORMATION: None.

EXAMPLES: N4~ELKHART~IN~46516~US N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
N401	019	City Name	O AN 02/30	
N402	156	State or Province Code	O AN 02/02	
N403	116	Postal Code	O ID 03/15	
N404	026	Country Code	O ID 02/03	"US" = United States "CA" = Canada
N405	309	Location Qualifier	C ID 01/02	
N406	310	Location Identifier	O AN 01/30	

Segment Not Used At Current Time

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TRANSACTION SET: 830 - Material Release

SEGMENT: REF - Reference Numbers

LEVEL: Heading

MAX USAGE/LOOPS: 12 / None

PURPOSE: To transmit reference numbers.

GENERAL

INFORMATION: None.

EXAMPLES: REF~PO~Purchase Order N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
REF01	128	Reference Number Qualifier	M ID 02/03	PO
REF02	127	Reference Number	M AN 01/30	9773 P O - No
REF03		Reference Description	O AN 01/30	Purchase Order

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TRANSACTION SET: 830 - Material Release

SEGMENT: LIN - Line Item Detail

LEVEL: Heading

MAX USAGE/LOOPS: > 1

PURPOSE: To specify basic item identification data.

GENERAL

INFORMATION: This segment is used for part number. Vendor part number or Engineering change

number.

Product/service qualifiers and ID's may be used for each LIN segment. The valid codes

that can be used for the Product/Service Qualifier and ID are as follows.

	<u>Qualifier</u>	<u>ID</u> Buyers Part Number		
	"BP"			
	"EC"	Engineering Change Level		
	"PO"	Purchase Order Number		
*	"PD"	Part Description		
*	"DR"	Drawing Revision Level		
*	"UP"	UPC Code		
.14	((DT 3)	D 1 0 1 T' N 1		

* "PL" Purchase Order Line Number

*For future use

EXAMPLES: LIN~~BP~HUB # PD~DESC. PO~9773 N/L~PL~00000

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
LIN02	235	Product ID Qualifier	M ID 02/02	See general information
LIN03	234	Product ID	M AN 01/48	
LIN04	235	Product ID Qualifier	O ID 02/02	
LIN05	234	Product ID	C AN 01/48	
LIN06				
LIN31	Note:	LIN06 through LIN31 provide 13 and Product/Service ID (234).	additional pairs of Product	/Service ID Qualifier (235)

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TRANSACTION SET: 830 - Material Release

SEGMENT: UIT - Unit Detail

LEVEL: Detail

MAX USAGE/LOOPS: 1 / None

PURPOSE: To Specify item unit data.

GENERAL

INFORMATION: This segment indicates the unit of measure for all quantities relating to the line item.

EXAMPLES: UIT~EA N/L

ELEM ANSI
ID # NAME FEATURES COMMENTS
-----UIT01 355 Unit of Measurement Code M ID 02/02 Any valid ANSI code.

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TRANSACTION SET: 830 - Material Release

SEGMENT: PID - Product/item Description

LEVEL: Detail

MAX USAGE/LOOPS: 1000 / None

PURPOSE: To describe a product or item in coded or free-form format.

GENERAL

INFORMATION: None.

EXAMPLES: PID~F~~~HUB~DESC N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
PID01	349	Item Description Type	M ID 01/01	Use "F" - free-form
PID02	750	Product Characteristic Code	O ID 02/03	
PID03	348	Item Description Qualifier	C ID 02/02	
PID04	751	Industry Product Description Code	C AN 01/12	
PID05	352	Description	C AN 01/80	
PID06	752	Surface Indicator	O ID 02/02	

Segment Not Used At Current Time

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TRANSACTION SET: 830 - Material Release

SEGMENT: REF - Reference Numbers

LEVEL: Detail

MAX USAGE/LOOPS: 12 / None

PURPOSE: To specify identifying information.

GENERAL

INFORMATION: None.

EXAMPLES: REF~DK~D2096 N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
REF01	128	Reference Number Qualifier	M ID 02/03	"DK" Dock code **Dana SAD USES THE FOLLOWING: "CN" Carrier's Reference Number (PRO/Invoice) "PG" Product Group "LI" Line Item Identifier (Seller's)
REF02	127	Reference Number	M AN 01/30	

Segment Not Used At Current Time

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TRANSACTION SET: 830 - Material Release

SEGMENT: PER - Administrative Communications Contact

LEVEL: Detail

MAX USAGE/LOOPS: 3 / None

PURPOSE: To identify a person or office to whom administrative communications should be

directed.

GENERAL

INFORMATION: This segment is used to convey information about the contact person.

EXAMPLES: PER~EX~BRAD FRY N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
PER01	366	Contact Function Code	M ID 02/02	Any valid ANSI code.
PER02	093	Name	M AN 01/60	Brad Fry
PER03	365	Communications Number Qualifier	C ID 02/02	
PER04	364	Communications Number	C AN 01/80	

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TRANSACTION SET: 830 - Material Release

SEGMENT: SDP - Ship / Delivery Pattern

LEVEL: Detail

MAX USAGE/LOOPS: 1 / 260

PURPOSE: To identify specific ship/delivery requirements.

GENERAL

INFORMATION: This segment specifies what day of the week and/or a time frame during the day that a

shipment is to be made.

EXAMPLES: SDP~L~A N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
SDP01	678	Ship/Delivery Pattern	M ID 01/02	Any valid ANSI code
SDP02	679	Ship/Delivery Pattern Time	M ID 01/01	Any valid ANSI code

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TRANSACTION SET: 830 - Material Release

SEGMENT: FST - Forecast Schedule

LEVEL: Detail

MAX USAGE/LOOPS: 260 / None

PURPOSE: To specify the forecast dates and quantities.

GENERAL

INFORMATION: This segment is mandatory.

EXAMPLES: FST~213~D~W N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
FST01	380	Quantity	M R 01/15	Quantity as described In BFR05.
FST02	680	Forecast Qualifier	M ID 01/01	Any valid ANSI code. "D" - Discreet
FST03	681	Forecast Timing Qualifier	M ID 01/01	Any valid ANSI code.
FST04	373	Date	M DT 08/08	Horizon date CCYYMMDD Sunday Date

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TRANSACTION SET: 830 - Material Release

SEGMENT: ATH - Resource Authorization

LEVEL: Detail

MAX USAGE/LOOPS: 20 / None

PURPOSE: To specify resource authorizations.

GENERAL

INFORMATION: The quantity fields in this segment are always cumulative quantities.

EXAMPLES: ATH~MT~19980315~50 N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
ATH01	672	Resource Authorization Qualifier	M ID 02/02	Any valid ANSI code.
ATH02	373	Date	C DT 08/08	
ATH03	380	Quantity	C R 01/15	Current cumulative Required quantities.
ATH04	380	Quantity	O R 01/15	Maximun cumulative required quantities.
ATH05	373	Date	C DT 08/08	

Segment Not Used At Current Time

TRANSACTION SET: 830 - Material Release

SEGMENT: SHP - Shipped/Received Information

LEVEL: Detail

MAX USAGE/LOOPS: 25 / None

PURPOSE: To specify shipment and/or receipt information.

GENERAL

INFORMATION: This segment is used to give information on either the last shipment received/shipped or

the cumulative quantity received/shipped to date.

EXAMPLES: SHP~14~0~140~19980302 N/L

ELEM ID	#	NAME	ANSI FEATURES	COMMENTS
SHP01	673	Quantity Qualifier	O ID 02/02	Any valid ANSI code.
SHP02	380	Quantity	C R 01/15	
SHP03	374	Date/Time Qualifier	C ID 03/03	Any valid ANSI code.
SHP04	373	Date	C DT 08/08	
SHP05	337	Time	O DT 08/08	
SHP01	14	In-Transit		
	12	Lost Receipt		
	02	Current Cum		

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TRANSACTION SET: 830 - Material Release

SEGMENT: CTT - Transaction Totals

LEVEL: Summary

MAX USAGE/LOOPS: 1 / None

PURPOSE: To transmit hash totals for all LIN segments and for the quantities appearing in element

FST01 within this transaction set.

GENERAL

INFORMATION: This segment allows the receiver to perform checks for completeness and correctness of

this transaction set.

EXAMPLES: CTT~15~16504 N/L

ELEM ID	#	NAME 	ANSI FEATURES	COMMENTS
CTT01	354	Number of Line Items	M N0 01/06	Total number of LIN segments.
CTT02	347	Hash Total	OR 01/10	Accumulation of ALL quantities found in FST01.

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