



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

8512C2031

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

ALAN CUMMINGS
304-558-2402

RFQ COPY

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DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING DIVISION
BUILDING 5, ROOM A550
1900 KANAWHA BOULEVARD EAST
CHARLESTON, WV
25305-0430

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
01/24/2012						
BID OPENING DATE: 02/29/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		570-28		
ENERGY ABSORPTION SYSTEM/MAINTENANCE						
OPEN END CONTRACT						
THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE MATERIALS REQUIRED FOR THE MAINTENANCE, REPLACEMENT, OR INSTALLATION OF ENERGY ABSORPTION SYSTEM GREAT (GUARDRAIL ENERGY ABSORBING TERMINAL) ATTENUATING DEVICES, ENERGY ABSORPTION SYSTEM QUADGUARD ATTENUATING DEVICES, ENERGY ABSORPTION SYSTEM QUADGUARD II ATTENUATING DEVICES, ENERGY ABSORPTION SYSTEM QUADGUARD HS ATTENUATING DEVICES, AND TRINITY INDUSTRIES TRACC ATTENUATING DEVICES PER THE ATTACHED SPECIFICATIONS.						
TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO ALAN CUMMINGS IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT ALAN.W.CUMMINGS@WV.GOV.						
DEADLINE FOR TECHNICAL QUESTIONS IS 02/16/12 AT THE CLOSE OF BUSINESS.						
ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.						
EXHIBIT 3						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE			TELEPHONE		DATE	
TITLE		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
 2. The State may accept or reject in part, or in whole, any bid.
 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
 5. Payment may only be made after the delivery and acceptance of goods or services.
 6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
 7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
 12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
 13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
 14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
 15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
 16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.
- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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01/24/2012						
BID OPENING DATE: 02/29/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE. UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT BY THE STATE OF WEST VIRGINIA, ITS AGENCIES, OR POLITICAL SUBDIVISIONS, THE TERMS, CONDITIONS, AND PRICING SET FORTH HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN. OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE		TELEPHONE			DATE	
TITLE		FEIN			ADDRESS CHANGES TO BE NOTED ABOVE	

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CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.) QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN. ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM. REV. 01/17/2012 EXHIBIT 10 REQUISITION NO.:						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
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ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC. ADDENDUM NO.'S: NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING. SIGNATURE COMPANY						
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BID OPENING DATE: 02/29/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
..... DATE NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID. REV. 09/21/2009 PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.						
NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BUYER: ALAN CUMMINGS - FILE 33						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE			TELEPHONE		DATE	
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BID OPENING DATE: 02/29/2012		BID OPENING TIME 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
RFQ. NO.: 8512C2031						
BID OPENING DATE: 02/29/12						
BID OPENING TIME: 1:30 P.M.						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

CONTACT PERSON (PLEASE PRINT CLEARLY):						

ANY INDIVIDUAL SIGNING THIS BID IS CERTIFYING THAT: (1) HE OR SHE IS AUTHORIZED BY THE BIDDER TO EXECUTE THE BID OR ANY DOCUMENTS RELATED THERETO ON BEHALF OF THE BIDDER, (2) THAT HE OR SHE IS AUTHORIZED TO BIND THE BIDDER IN A CONTRACTUAL RELATIONSHIP, AND (3) THAT THE BIDDER HAS PROPERLY REGISTERED WITH ANY STATE AGENCIES THAT MAY REQUIRE REGISTRATION.						
***** THIS IS THE END OF RFQ 8512C2031 ***** TOTAL: _____						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE			TELEPHONE		DATE	
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Specifications

Purpose: The purpose of this contract shall be to furnish materials required for the maintenance, replacement, or installation of Energy Absorption System GREAT (Guardrail Energy Absorbing Terminal) attenuating devices, Energy Absorption System Quadguard attenuating devices, Energy Absorption System Quadguard-II attenuating devices, Energy Absorption System Quadguard-HS attenuating devices, and Trinity Industries TRACC attenuating devices.

1.0 DEFINITIONS

- A. The "Agency" shall be defined as the West Virginia Division of Highways
- B. The "Vendor" shall be defined as the successful bidder.
- C. The "Contract" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Vendor to provide the services as herein specified.
- D. "Release Order" shall be defined as order placed against the Contract by the Agency.
- E. Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State.

2.0 SCOPE OF WORK

Technical Requirements: The successful Vendor shall provide individual replacement components for Energy Absorption System GREAT (Guardrail Energy Absorbing Terminal) attenuating devices, Energy Absorption System Quadguard attenuating devices, Energy Absorption System Quadguard-II attenuating devices, Energy Absorption System Quadguard-HS attenuating devices, and Trinity Industries TRACC attenuating devices. The successful Vendor(s) shall also supply complete units upon request (excludes GREAT attenuating devices).

- 2.1 Complete descriptions of the individual parts are included as part of the bid schedule. The bid schedule also includes references to the appropriate manufacturer installation drawing, also included as part of this Contract for reference.

This Contract also includes items for the purchase of complete Quadguard, Quadguard-II, Quadguard-HS, and TRACC units for use at the Agency's discretion.

2.2 Freight

2.2.1 All shipments are to be FOB Destination.

2.2.2 The Vendor shall be responsible for all freight charges incurred as a result of the purchases under this Contract. For orders where expedited delivery is requested and authorized by the Agency, the Vendor may invoice for these charges provided that it will be given as a "pass through" cost to the Agency. No markup shall be permitted for expedited delivery. See Section 3.2.3 for more information. Note, the Agency understands that expedited delivery of GREAT system parts is normally not possible within the time frame stipulated. Therefore, any expedited delivery request associated with any Release Order which includes any parts for GREAT impact attenuating systems shall be disregarded. The Vendor shall not invoice for any extra freight charges for any such order regardless of the delivery turnaround time associated with any non-GREAT parts included as part of any such order, and the provisions of 2.3.2 shall apply.

2.3 Delivery

2.3.1 This Contract may be utilized by multiple recipients statewide, each having a unique delivery address.

2.3.2 Release Orders shall be delivered in full within a maximum of twenty-one (21) Calendar Days ARO. If the Vendor is unable to deliver in full within twenty-one (21) Calendar Days, the Vendor shall be subject to a \$50.00 per Calendar Day penalty at the purchasing organization's discretion for each Calendar Day beyond twenty-one (21) Calendar Days ARO. This penalty shall be assessed by subtracting the penalty from the payment due to the Vendor upon full delivery of the Release Order.

2.3.3 All large components shall be shipped adequately secured on pallets for ease in unloading. Large components shall be easily identifiable or the packaging shall be labeled indicating the contained parts. All accessory hardware and relatively small components shall be appropriately packaged and labeled. Any material delivered not meeting the above requirements shall be subject to being returned to the Vendor at the Vendor's expense. In this case, the Vendor shall be responsible for the shipment of the returned materials back to the purchasing organization, packaged as specified above. In addition, the provisions of 2.3.2 shall remain in effect. The order shall be considered "delivered in full" at the time of delivery of the returned materials back to the purchasing organization. Furthermore, the number of days for

completion of the order shall be calculated as specified in 2.3.2. If expedited delivery was requested for the order, the provisions of Section 3.2.3 shall apply to the entire order if the returned materials are not delivered back to the purchasing organization within ten (10) Calendar Days of the original receipt of the order by the Vendor.

2.3.4 Delivery is an integral part of this contract and failure to comply will be cause to initiate a WV-82, Vendor Performance Form. This form will officially notify the West Virginia Division of Purchasing and the Vendor of unsatisfactory performance in the execution of this contract and the requirements herein.

3.0 ORDERING AND INVOICING

3.1 Release Orders

3.1.1 For all orders, the Agency will issue to the Vendor a WV-39 Release Order. Issuance of the Release Order shall contain the type of merchandise to be purchased and shall serve as the authorization to process the order.

3.2 Payment

3.2.1 The State of West Virginia currently utilizes a VISA purchasing card program which is issued through a local bank. The Vendor must accept the State of West Virginia purchasing card for payment of all orders placed against this Contract.

3.2.2 The Vendor must supply a credit card receipt, sales receipt, or cash register receipt. In addition, all orders shall be shipped with an itemized packing list(s). The packing list(s) shall show all items included in the shipment as well as items on backorder. Charges must not be applied until all merchandise on the WV-39 Release Order is received in full by the Agency.

3.2.3 For orders where expedited delivery has been requested by the Agency per Section 2.2.2, the Vendor may add actual shipping costs (prepaid) to the invoice as a separate item. In this case, the Vendor shall attach a copy of the freight bill to the invoice sent to the Agency. All such orders shall be delivered in full within ten (10) Calendar Days ARO. If any such order is not received in full within ten (10) Calendar Days ARO, the Vendor may not add shipping costs as described above to the invoice and the order will be treated as a normal non-expedited order with the provisions of Section 2.3.2 to apply.

4.0 AWARD

4.1 Contract Sections

- 4.1.1 This Contract shall be awarded in its' entirety. The Vendor shall be required to provide a bid for all Items listed with the exception of any items intentionally left blank by the Agency on the RFQ bid sheet.

NOTE: VENDOR SHOULD TYPE BID SCHEDULES

The "Bid Schedule" is available for download on Purchasing's Web site at www.state.wv.us/admin/purchase

BID SCHEDULE

The following estimated quantities are for bid purposes only. Actual quantities will be determined by the needs of the West Virginia Division of Highways and may be increased or decreased:

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
Energy Absorption Systems GREAT Attenuators					
1	1	GREAT panels and parts GREAT three-beam fender panel w/ connection to diaphragm hardware, mushroom bolt assembly, and deflector assembly	5		311000
2	1	GREAT complete mushroom bolt and deflector assembly	5		312000
3	1	GREAT concrete block backup deflector panel w/ connection to fender panel hardware	14		313000
4	1	GREAT concrete block backup side panel w/ connection to fender panel hardware	8		NA
5	1	GREAT steel backup side panel w/ connection to backup hardware	11, 12		NA
6	1	GREAT extension panel w/ connection to backup and three to w-beam panel hardware	14		314000
7	1	GREAT NJ barrier backup left side 4" offset transition panel w/ support bracket, connection to support bracket hardware, and connection to steel backup hardware	11		315000
8	1	GREAT NJ barrier backup right side 4" offset transition panel w/ support bracket, connection to support bracket hardware, and connection to steel backup hardware	11		316000
9	1	GREAT three beam to w-beam transition panel w/ connection to extension panel and w-beam hardware	14		317000
GREAT diaphragms and parts					
10	1	GREAT 24" diaphragm w/ cable guide assembly and cable guide connection h/w	4		321000
11	1	GREAT 30" diaphragm w/ cable guide assembly and cable guide connection h/w	4		322000
GREAT restraining cables and parts					
12	1	GREAT 5 bay restraining cable w/ connection hardware and 6 ea. 3x3x1/4 washer bars	6		331000
13	1	GREAT 6 bay restraining cable w/ connection hardware and 6 ea. 3x3x1/4 washer bars	6		332000
14	1	GREAT 7 bay restraining cable w/ connection hardware and 6 ea. 3x3x1/4 washer bars	6		333000

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
15	1	GREAT cable guide assembly w/ connection to diaphragm hardware	4		NA
16	1	GREAT front anchor plate for restraining cable w/ connection to foundation MP-3 anchors	6		NA
17	1	GREAT rear anchor plate for restraining cable w/ connection to foundation MP-3 anchors	6		NA
18	1	GREAT nose cover and parts GREAT nose cover w/ connection to diaphragm hardware (does not include legs)	3		341000
19	1	GREAT nose support legs (2 ea.) w/ tabs and connection to nose cover hardware	3		342000
20	1	GREAT chain rail assemblies and parts GREAT 8 ft. 11 in. "A" chain rail section w/ proof coil chains	7		NA
21		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
22	1	GREAT 18 ft. "B" chain rail section w/ proof coil chains	7		NA
23	1	GREAT 9 ft. "B" or "C" chain rail section w/ proof coil chains	7		351000
24	1	GREAT 3 ft. "C" chain rail section w/ proof coil chains	7		352000
25	1	GREAT 6 ft. "C" chain rail section w/ proof coil chains	7		353000
26	1	GREAT proof coil chain w/ clevis & keeper pin	7		354000
27		GREAT backups and parts THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
28		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
29		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
30		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
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41	1	GREAT cartridges and parts GREAT Hexfoam II Type 51 cartridge	NA		371000
42	1	GREAT concrete block backup cartridge support bracket	8		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
43	1	GREAT NJ barrier metal backup cartridge support bracket w/ connection hardware	11		NA
		Energy Absorption Systems Quadguard Attenuators			
		Quadguard 24" to 36" units			
		Quadguard diaphragms and parts (24" to 36")			
44	1	Quadguard 24" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	15		811100
45	1	Quadguard 30" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	15		811200
46	1	Quadguard 36" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	15		811300
		Quadguard nose cover and parts (24" to 36")			
47	1	Quadguard yellow belt nose cover w/ cartridge support bracket, nose support legs, nose attachment brackets, pull-out brackets, and connection to diaphragm hardware (fits 24" and 30" units)	16		812100
48	1	Quadguard yellow belt nose cover w/ cartridge support bracket, nose support legs, nose attachment brackets, pull-out brackets, and connection to diaphragm hardware (fits 36" units)	16		812100
		Quadguard backups and parts (24" to 36")			
49	1	Quadguard 24" tension strut backup with cartridge support bracket, side panel, and side panel connection hardware.	19		NA
50	1	Quadguard 30" tension strut backup with cartridge support bracket, side panel, and side panel connection hardware.	19		NA
51	1	Quadguard 36" tension strut backup with cartridge support bracket, side panel, and side panel connection hardware.	19		NA
52	1	Quadguard concrete block backup 24" front face w/ side panel and side panel connection hardware.	20		NA
53	1	Quadguard concrete block backup 30" front face w/ side panel and side panel connection hardware.	20		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
54	1	Quadguard concrete block backup 36" front face w/ side panel and side panel connection hardware.	20		NA
		Quadguard panels and parts (24" to 36")			
55	1	Quadguard quad beam to w-beam transition panel w/ diagonal brace, diagonal brace connection hardware, and connection to post #2 bar washers (24" unit)	23		814100
56	1	Quadguard quad beam to w-beam transition panel w/ diagonal brace, diagonal brace connection hardware, brace blockouts, and connection to post #2 bar washers (30" unit)	23		814200
57	1	Quadguard quad beam to w-beam transition panel w/ diagonal brace, diagonal brace connection hardware, brace blockouts, and connection to post #2 bar washers (36" unit)	23		814300
58	1	Quadguard quad beam to thrie beam transition panel w/ diagonal brace, diagonal brace connection hardware, and connection to post #2 bar washers (24" unit)	24		814400
59	1	Quadguard quad beam to thrie beam transition panel w/ diagonal brace, diagonal brace connection hardware, brace blockouts, and connection to post #2 bar washers (30" unit)	24		814500
60	1	Quadguard quad beam to thrie beam transition panel w/ diagonal brace, diagonal brace connection hardware, brace blockouts, and connection to post #2 bar washers (36" unit)	24		814600
		Quadguard 69" and 90" units			
		Quadguard diaphragms and parts (69" and 90" units)			
61	1	Quadguard 26.50" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821100
62	1	Quadguard 26.95" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821110
63	1	Quadguard 32.80" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821120

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
64	1	Quadguard 35.94" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821130
65	1	Quadguard 39.09" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821140
66	1	Quadguard 42.24" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821150
67	1	Quadguard 45.39" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides (NOTE: For 120" units, use Item #89)	26		821160
68	1	Quadguard 48.54" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821170
69	1	Quadguard 50.12" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821180
70	1	Quadguard 51.69" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821190
71	1	Quadguard 54.84" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821200
72	1	Quadguard 57.99" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821210
73	1	Quadguard 59.57" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821220
74	1	Quadguard 61.14" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821230
75	1	Quadguard 64.29" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821240
76	1	Quadguard 68.07" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821250
77	1	Quadguard 70.59" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821260
78	1	Quadguard 73.74" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821270

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
79	1	Quadguard 76.89" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821280
80	1	Quadguard 80.04" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		821290
		Quadguard nose cover and parts (69" and 90" units)			
81	1	Quadguard 69" yellow belt nose cover w/ cartridge support bracket, nose attachment brackets, pullout brackets, nose attachment hardware, pullout bracket hardware, and nose attachment bracket hardware (fits 69" 3-7 bay units)	27		822100
82	1	Quadguard 90" yellow belt nose cover w/ cartridge support bracket, nose attachment brackets, pullout brackets, nose attachment hardware, pullout bracket hardware, and nose attachment bracket hardware (fits 69" to 90" units)	27		822100
		Quadguard backups and parts (69" and 90")			
83	1	Quadguard tension strut backup w/ side panel, hinge plates, telespar struts, cartridge support bracket, support bracket locking bar, and connection hardware (69" unit)	29		NA
84	1	Quadguard tension strut backup w/ side panel, hinge plates, telespar struts, cartridge support bracket, support bracket locking bar, and connection hardware. (90" unit)	29		NA
85	1	Quadguard concrete block backup front face w/ hinge plate, side panel, telespar struts, and connection hardware. (69" unit)	30		NA
86	1	Quadguard concrete block backup front face w/ hinge plate, side panel, telespar struts, and connection hardware. (90" unit)	30		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
		Quadguard panels and parts (69" and 90")			
87	1	Quadguard quad beam to w-beam transition panel w/ pivot support bracket, support bracket hardware, and connection to post #2 bar washers (69" and 90" units)	31		824100
88	1	Quadguard quad beam to thrie beam transition panel w/ pivot support bracket, support bracket hardware, and connection to post #2 bar washers (69" and 90" units)	32		824200
		Quadguard 120" units			
		Quadguard diaphragms and parts (120" units)			
89	1	Quadguard 45.39" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	35		841100
NA	NA	Quadguard 57.99" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides USE LINE ITEM 72	26	NA	NA
NA	NA	Quadguard 70.59" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides USE LINE ITEM 77	26	NA	NA
90	1	Quadguard 82.68" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		841200
91	1	Quadguard 95.31" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		841250
92	1	Quadguard 108" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides	26		841300
		Quadguard backups and parts (120" units)			
93	1	Complete Quadguard tension strut backup w/ center section, right section, left section, side panels, hinge plates, telespar struts, cartridge support bracket, support bracket locking bar, and all connection hardware Replacement 120" Quadguard tension strut backup right section w/ side panels, hinge plates, telespar struts, and all required connection h/w	33		NA
94	1	Replacement 120" Quadguard tension strut backup left section w/ side panels, hinge plates, telespar struts, and all required connection h/w	33		NA
95	1	Replacement 120" Quadguard tension strut backup left section w/ side panels, hinge plates, telespar struts, and all required connection h/w	33		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
96	1	Quadguard nose cover and parts (120" units) Quadguard 120" yellow belt nose cover w/ cartridge support bracket, nose attachment brackets, pullout brackets, nose attachment hardware, pullout bracket hardware, and nose attachment bracket hardware (fits 120" units)	27 (installation similar)		842100
Energy Absorption Systems Quadguard - HS Attenuators					
		Quadguard-HS 24" to 36" units			
		Quadguard-HS diaphragms and parts (24" to 36")			
NOTE: SPECIAL DIAPHRAGMS AND DIAPHRAGM COMPONENTS FOR DIAPHRAGMS 1 THRU 3 FROM THE FRONT ARE LISTED BELOW. FOR ALL OTHER PARTS, USE PART					
97	1	Quadguard-HS 24" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides (diaphragms 1 thru 3 only)	34		851100
98	1	Quadguard-HS 30" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides (diaphragms 1 thru 3 only)	34		851200
99	1	Quadguard-HS 36" diaphragm w/ monorail guides, cartridge support brackets, and hardware for guides (diaphragms 1 thru 3 only)	34		851300
100	1	Diaphragm #3 bumper assembly with bumper and hardware (for 24" to 36" units)	62		NA
101	1	Diaphragm #2 bumper/spacer assembly with bumper, spacer, and hardware (for 24" to 36" units)	62		NA
102	1	Diaphragm #1 spacer assembly with spacer and hardware (for 24" to 36" units)	62		NA
Quadguard-HS nose covers (24" to 36")					
103	1	Quadguard-HS yellow belt nose cover w/ nose attachment brackets, pull-out brackets, and connection to diaphragm hardware (fits 24" and 30" units)	80/81		852100
104	1	Quadguard-HS yellow belt nose cover w/ nose attachment brackets, pull-out brackets, and connection to diaphragm hardware (fits 36" units)	80/81		852200
105		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			
106		THIS ITEM NUMBER INTENTIONALLY LEFT BLANK			

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
Quadguard common parts (all units)					
Quadguard panels and parts (all units)					
107	1	Quadguard mushroom bolt assembly	17		831100
108	1	Quadguard fender panel w/ connection to diaphragm hardware and mushroom bolt assembly	17		831200
109	1	Quadguard NJ barrier backup left side 4 inch offset transition panel w/ support bracket, and connection to support bracket hardware.	22		831300
110	1	Quadguard NJ barrier backup right side 4 inch offset transition panel w/ support bracket, and connection to support bracket hardware.	22		831400
111	1	Quadguard NJ barrier backup left side 9 inch offset transition panel w/ support bracket, and connection to support bracket hardware. (not to be used for traffic approaching rear of unit)	NA		NA
112	1	Quadguard NJ barrier backup right side 9 inch offset transition panel w/ support bracket and connection to support bracket hardware. (not to be used for traffic approaching rear of unit)	NA		NA
Quadguard backups and parts (all units)					
113	1	Quadguard concrete block backup end shoe attachment w/ connection to block MP-3 anchors	21		832100
114	1	Quadguard concrete block backup wheel deflector w/ connection to block MP-3 anchors	25		832200
Quadguard monorails and parts (all units)					
115	1	Quadguard one bay monorail section	18, 28		833100
116	1	Quadguard two bay monorail section	18, 28		833200
117	1	Quadguard three bay monorail section	18, 28		833300
118	1	Quadguard monorail end cap w/ connection to monorail hardware	18, 28		833400
Quadguard cartridges (all units)					
119	1	Quadguard type I cartridge	NA		834100
120	1	Quadguard type II cartridge	NA		834200
Quadguard miscellaneous parts (all units)					
121	1	Quadguard diaphragm cartridge support bracket	26		835100
122	1	Quadguard flex belt nose clamp	16 / 27 / 79		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
		Energy Absorption Systems Quadguard II Attenuators			
		Quadguard II 24" to 48" units			
		Quadguard II diaphragms and parts (24" to 48")			
NOTE: THE STANDARD 48" QUADGUARD DIAPHRAGM BELOW IS UNIQUE TO THE QUADGUARD II SYSTEM, BUT ONLY BASED ON ITS WIDTH. STANDARD QUADGUARD					
123	1	Quadguard-II 48" diaphragm w/ monorail guides, cartridge support brackets, monorail shims, and hardware for guides	15		861100
124	1	Quadguard II diaphragm shim for 24" to 48" diaphragms (2 ea. required for each diaphragm)	85		NA
		Quadguard II nose cover and parts (24" to 48")			
125	1	Quadguard II "narrow" yellow metal nose cover w/ cartridge support brackets and connection to diaphragm hardware (fits 24" to 48" units) * see item 126 for additional part for 48" unit noses	82		862100
126	1	Quadguard II "narrow" yellow metal nose cover 12" spacer with connection hardware. (supplemental part required for nose covers used with 48" design width units)	83		862200
		Quadguard II 69" to 120" units			
		Quadguard II nose cover and parts (69" to 120")			
127	1	Quadguard II "wide" yellow metal nose cover w/ cartridge support brackets and connection to diaphragm hardware (fits 69" to 120" units)	84		863100
		Complete Quadguard Units			
128	1	Quadguard unit, 3-bay, 24" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
129	1	Quadguard unit, 3-bay, 30" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
130	1	Quadguard unit, 3-bay, 36" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
131	1	Quadguard unit, 3-bay, 69" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
132	1	Quadguard unit, 3-bay, 90" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
133	1	Quadguard unit, 3-bay, 24" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
134	1	Quadguard unit, 3-bay, 30" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
135	1	Quadguard unit, 3-bay, 36" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
136	1	Quadguard unit, 3-bay, 69" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
137	1	Quadguard unit, 3-bay, 90" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
138	1	Quadguard unit, 6-bay, 24" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
139	1	Quadguard unit, 6-bay, 30" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
140	1	Quadguard unit, 6-bay, 36" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
141	1	Quadguard unit, 6-bay, 69" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
142	1	Quadguard unit, 6-bay, 90" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
143	1	Quadguard unit, 6-bay, 120" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
144	1	Quadguard unit, 6-bay, 24" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
145	1	Quadguard unit, 6-bay, 30" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
146	1	Quadguard unit, 6-bay, 36" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
147	1	Quadguard unit, 6-bay, 69" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
148	1	Quadguard unit, 6-bay, 90" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
149	1	Quadguard unit, 6-bay, 120" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
150	1	Quadguard-HS unit, 24" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
151	1	Quadguard-HS unit, 30" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
152	1	Quadguard-HS unit, 36" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
153	1	Quadguard-HS unit, 24" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
154	1	Quadguard-HS unit, 30" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
155	1	Quadguard-HS unit, 36" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
156	1	Quadguard-II unit, 2-bay, 24" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
157	1	Quadguard-II unit, 2-bay, 30" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
158	1	Quadguard-II unit, 2-bay, 36" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
159	1	Quadguard-II unit, 2-bay, 48" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
160	1	Quadguard-II unit, 2-bay, 24" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
161	1	Quadguard-II unit, 2-bay, 30" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
162	1	Quadguard-II unit, 2-bay, 36" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
163	1	Quadguard-II unit, 2-bay, 48" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
164	1	Quadguard-II unit, 5-bay, 24" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
165	1	Quadguard-II unit, 5-bay, 30" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
166	1	Quadguard-II unit, 5-bay, 36" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
167	1	Quadguard-II unit, 5-bay, 48" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
168	1	Quadguard-II unit, 5-bay, 69" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
169	1	Quadguard-II unit, 5-bay, 90" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
170	1	Quadguard-II unit, 6-bay, 126" width, concrete backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
171	1	Quadguard-II unit, 5-bay, 24" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
172	1	Quadguard-II unit, 5-bay, 30" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
173	1	Quadguard-II unit, 5-bay, 36" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
174	1	Quadguard-II unit, 5-bay, 48" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
175	1	Quadguard-II unit, 5-bay, 69" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
176	1	Quadguard-II unit, 5-bay, 90" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
177	1	Quadguard-II unit, 6-bay, 126" width, tension strut backup installation (to include all parts, components, hardware, anchoring studs, and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
		Trinity Industries TRACC Attenuators			
		TRACC common parts			
		Base components			
178	1	TRACC base module assembly (part # 25982A) pre-assembled w/ cross ties, nut holder plates, & shoulder studs. Does not include rip plates or doubler plates.	49, 50		NA
179	1	Left end shoe (part # 25955A) w/ attachment h/w	49, 50		NA
180	1	Right end shoe (part # 25954A) w/ attachment h/w	49, 50		NA
181	1	Front anchor weldment (part # 25956A) w/ attachment h/w.	49, 50		NA
182	1	3'-1" rear extension plate (part # 25961G) w/ attachment h/w (for 9-bay units)	49, 50		NA

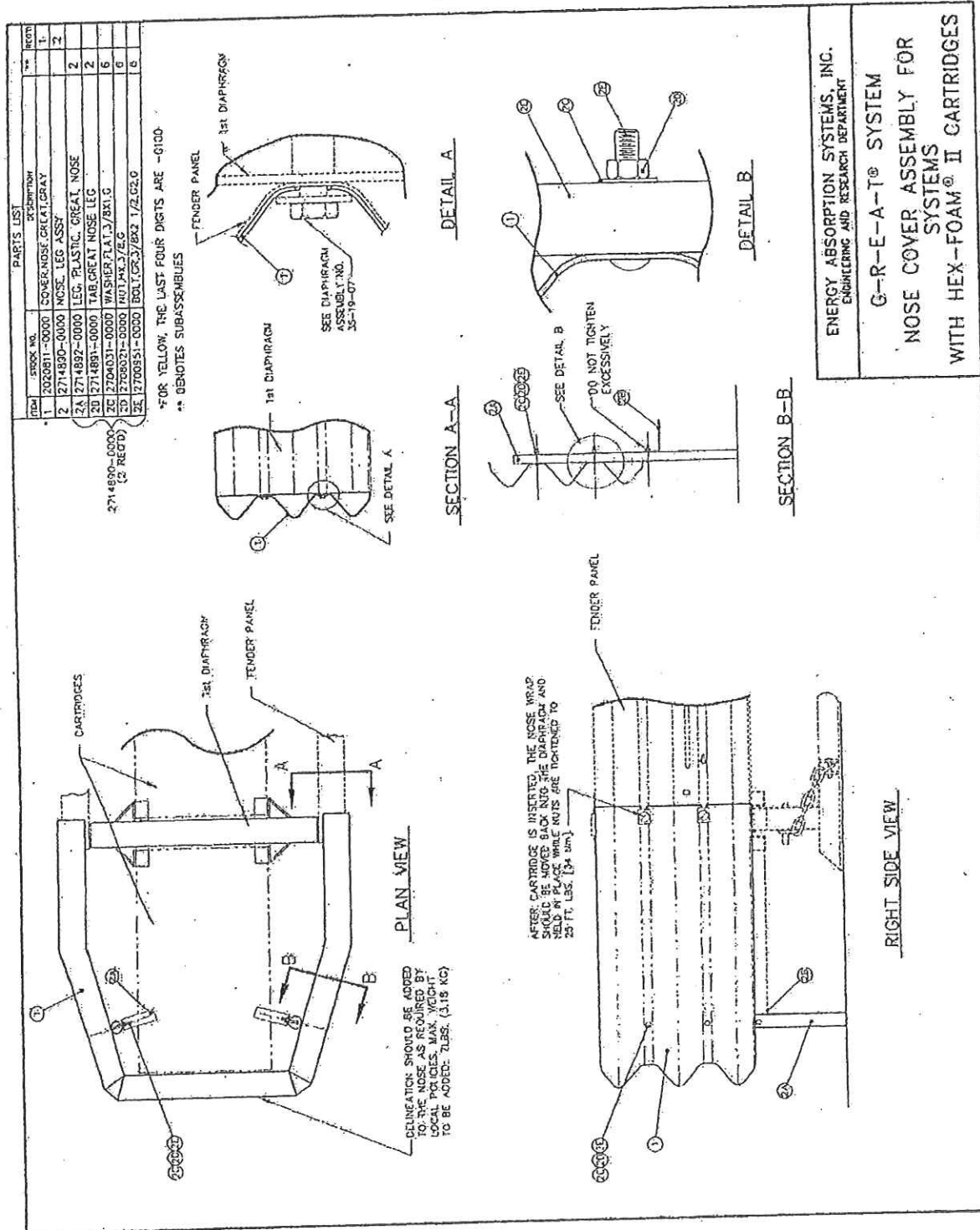
ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
183	1	2'-0 1/2" rear extension plate (part # 25995G) w/ attachment h/w (for 6-bay units)	55, 56		NA
		9-bay unit rip plate components			
184	1	Rip plate, stage 3, bottom (part # 25964G)	49, 50		211100
185	1	Rip plate, stage 3, middle (part # 25965G)	49, 50		211150
186	1	Rip plate, stage 3, top (part # 25966G)	49, 50		211200
187	1	Rip plate, stage 2, (part # 25963G)	49, 50		211250
		6-bay unit rip plate components			
188	1	Rip plate, stage 3, bottom (part # 25993G)	55, 56		211300
189	1	Rip plate, stage 3, middle (part # 25992G)	55, 56		211350
190	1	Rip plate, stage 3, top (part # 25991G)	55, 56		211400
191	1	Rip plate, stage 2, (part # 25990G)	55, 56		211450
		doubler plates			
192	1	doubler plate (part # 25960G) w/ removable bolts.	49, 50		211500
193	1	11-1/2" rear doubler plate for 6-bay unit only (part # 25996G) w/ removable bolts	55, 56		211550
		fender panels			
194	1	"two-bay" fender panel (part # 25973) w/ attachment to diaphragm and adjacent fender panel h/w	51, 52, 53, 54		212100
195	1	"one-bay" fender panel (part # 25974) w/ attachment to diaphragm and adjacent fender panel h/w	51, 52, 53, 54		212150
		sled and frames (diaphragms)			
196	1	24" frame (diaphragm) (part # 25971)	51, 52, 53, 54		213100
197	1	24" front sled (part # 25970) w/ shredder assembly (part # 25975) pre-assembled	51, 52, 53, 54		213150
198	1	shredder assembly (part # 25975) w/ hitch pin clip (part # 3253) and 3/4" x 2" clevis pin (part # 4425)	51, 52, 53, 54		213200
199	1	24" end frame (part # 25972A) w/ connection to 24" concrete block h/w, connection to NJ shape h/w (including transition adaptor (part # PC33356G) & adaptor connection to wall h/w), & connection to constant slope barrier h/w.	43, 44, 45, 46, 47, 48, 51, 52		NA
200	1	end frame (part # 33405 - 1/2 of split end frame for 33" and 39" units) w/ connection to barrier h/w (33" and 39" only)	57, 58		NA
201	1	1-1/2" WT-Frame extension (part # 33406) w/ connection to frame h/w (33" units only)	57, 58		213250
202	1	3" WT-Frame extension (part # 33471) w/ connection to frame h/w (39" units only)	59, 60, 61		213300
203	1	WT-Joint plate (part # 33467) w/ 3x1/4" fender panel plate and connection h/w (39" units only)	59, 60, 61		213350

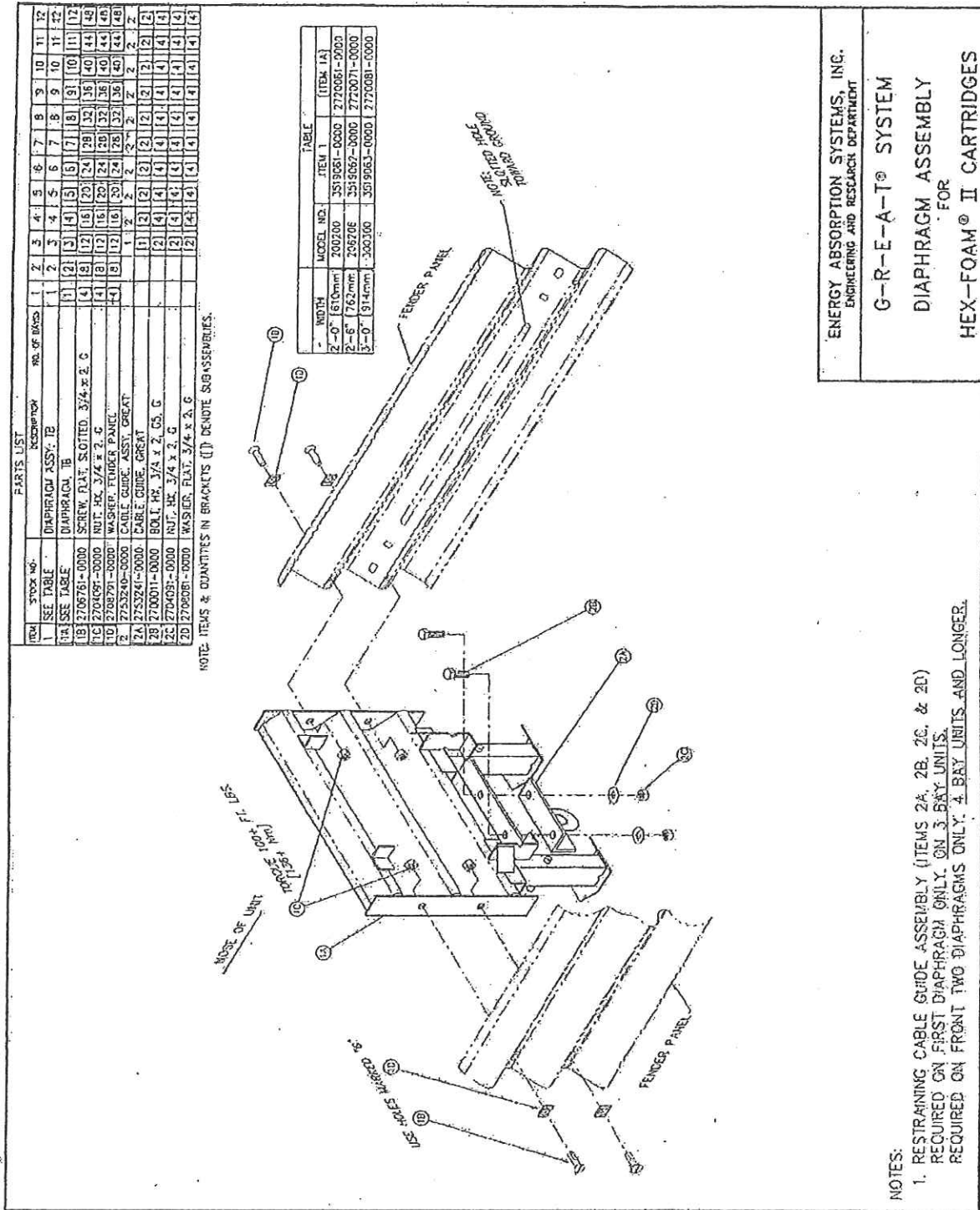
ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
204	1	TRACC to w-beam transition components Lower and Upper W-beam (part # PC33344A) w/ connection to end frame h/w & splice connection h/w	36, 37		214100
205	1	W-beam (part # PC105G) w/ splice connection h/w	36, 37		214150
206	1	Backup post (post #1) (part # PC564G) w/ connection to end frame h/w	36, 37		NA
207	1	Backup post (post #1) w/ end plate (part # PC33345A) w/ connection to end frame h/w	38		NA
208	1	Support post (post #2, 3) (part # PC33393G)	36, 37		NA
209	1	Support post (post #4-9) (part # PC33346G)	36, 37		NA
210	1	Wood block (part # PC6144B) w/ connection to support post and beam h/w	36, 37		NA
211	1	Wood block (part # PC6142B) w/ connection to support post and beam h/w	36, 37		NA
212	1	Wood block (part # PC6145B) w/ connection to support post and beam h/w	36, 37		NA
213	1	Wood block (part # PC6146B) w/ connection to support post and beam h/w	36, 37		NA
214	1	Wood block (part # PC6147B) w/ connection to support post and beam h/w	36, 37		NA
215	1	Wood block (part # PC6143B) w/ connection to support post and beam h/w	36, 37		NA
216	1	Wood block (part # PC6141B) w/ connection to support post and beam h/w	36, 37		NA
217	1	TRACC to thrie beam transition components Right transition panel (part # PC33371A) w/ connection to end frame h/w and splice h/w	39, 40		214200
218	1	Left transition panel (part # PC33372A) w/ connection to end frame h/w and splice h/w	39, 40		214250
219	1	Backup post (post #1) (part # PC564G) w/ connection to end frame h/w	39, 40		NA
220	1	Backup post (post #1) w/ end plate (part # PC33345A) w/ connection to end frame h/w	41		NA
221	1	Steel Support post (post #2-4) (part # PC33346G)	39, 40		NA
222	1	Wood block (part # PC6143) w/ connection to support post and beam h/w (for use w/ steel supports)	39, 40		NA
223	1	Wood Support post (post #2-4) (part # PC6137B)	42		NA
224	1	Wood block (part # PC6138B) w/ connection to support post and beam h/w (for use with wood supports)	42		NA
225	1	TRACC to 24" concrete block transition components 24" concrete block end shoe (part # PC33367G) w/ connection to barrier h/w	43, 44		214300

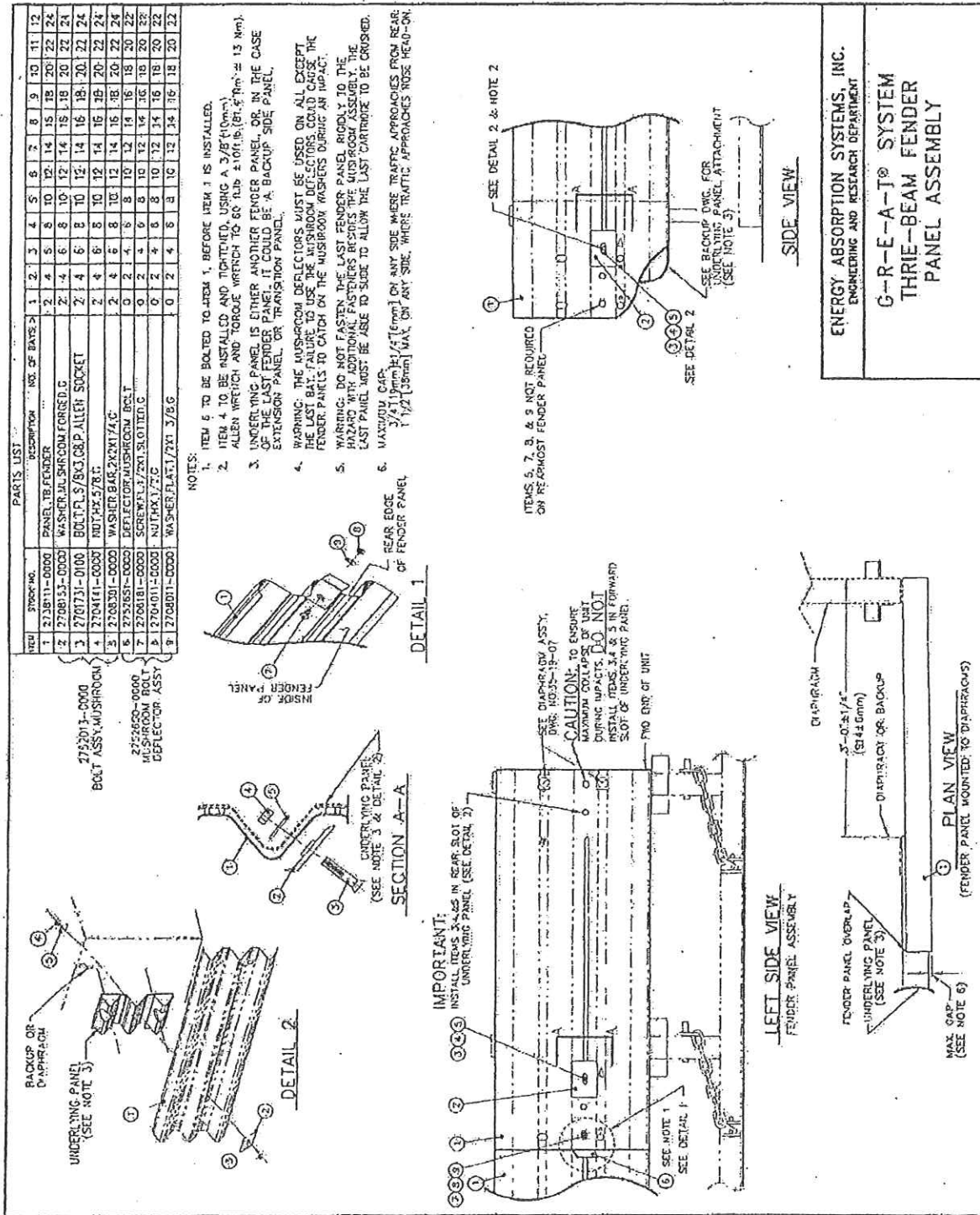
ITEM NUMBER	ESTIMATED QUANTITY	DESCRIPTION	PART DETAIL SHEET(S)	COST	(DOH USE ONLY) INVENTORY SUBCODE
		TRACC to NJ barrier transition components			
226	1	Lower W-beam (part # PC33360A) w/ connection to end frame h/w	45, 46		214350
227	1	Lower terminal (part # PC33380G) w/ connection to barrier and beam h/w	45, 46		214400
228	1	Upper W-beam (part # PC33359A) w/ connection to end frame h/w, wood blocks (part numbers PC6135B and PC6136B), and wood block connection h/w	45, 46		214450
229	1	Upper terminal (part # PC33380G) w/ connection to barrier and beam h/w	45, 46		214500
		TRACC to single slope barrier components			
230	1	Lower W-beam (part # PC33360A) w/ connection to end frame h/w.	47, 48		214550
231	1	Upper W-beam (part # PC33359A) w/ connection to end frame h/w, wood blocks (part numbers PC6533B and PC6534B), and wood block connection h/w	47, 48		214600
232	1	Upper and Lower terminal (part # PC926G) w/ connection to barrier and beam h/w	47, 48		214650
		TRACC miscellaneous hardware			
233	1	1/2" cable clamp (part # 4324)	59, 60, 61		215100
234	1	WT-cable clamp plate (part # 33470)	59, 60, 61		215150
235	1	1/2" cable (part # 6713)	59, 60, 61		215200
236	1	plate washer assembly w/ 5/8 bolt (part # 5306), 3 ea. plate washers (part # 19737), 5/8 fw (part # 4372), and 5/8 nut (part # 3361)	51, 52, 53, 54		215250
		TRACC nose cover			
237	1	TRACC plastic nose piece w/ attachment hardware (part # 6532B)	59		215300
		Complete TRACC Units			
238	1	TRACC unit, NCHRP-350 Test Level 2, 24" width, to be delivered pre-assembled (to include all anchoring studs and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
239	1	TRACC unit, NCHRP-350 Test Level 3, 24" width, to be delivered pre-assembled (to include all anchoring studs and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
240	1	TRACC unit, NCHRP-350 Test Level 2, 30" width, to be delivered pre-assembled (to include all anchoring studs and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA
241	1	TRACC unit, NCHRP-350 Test Level 3, 30" width, to be delivered pre-assembled (to include all anchoring studs and anchoring stud epoxy required for concrete installation) THIS ITEM MAY ONLY BE ORDERED BY THE TRAFFIC ENGINEERING DIVISION	NA		NA

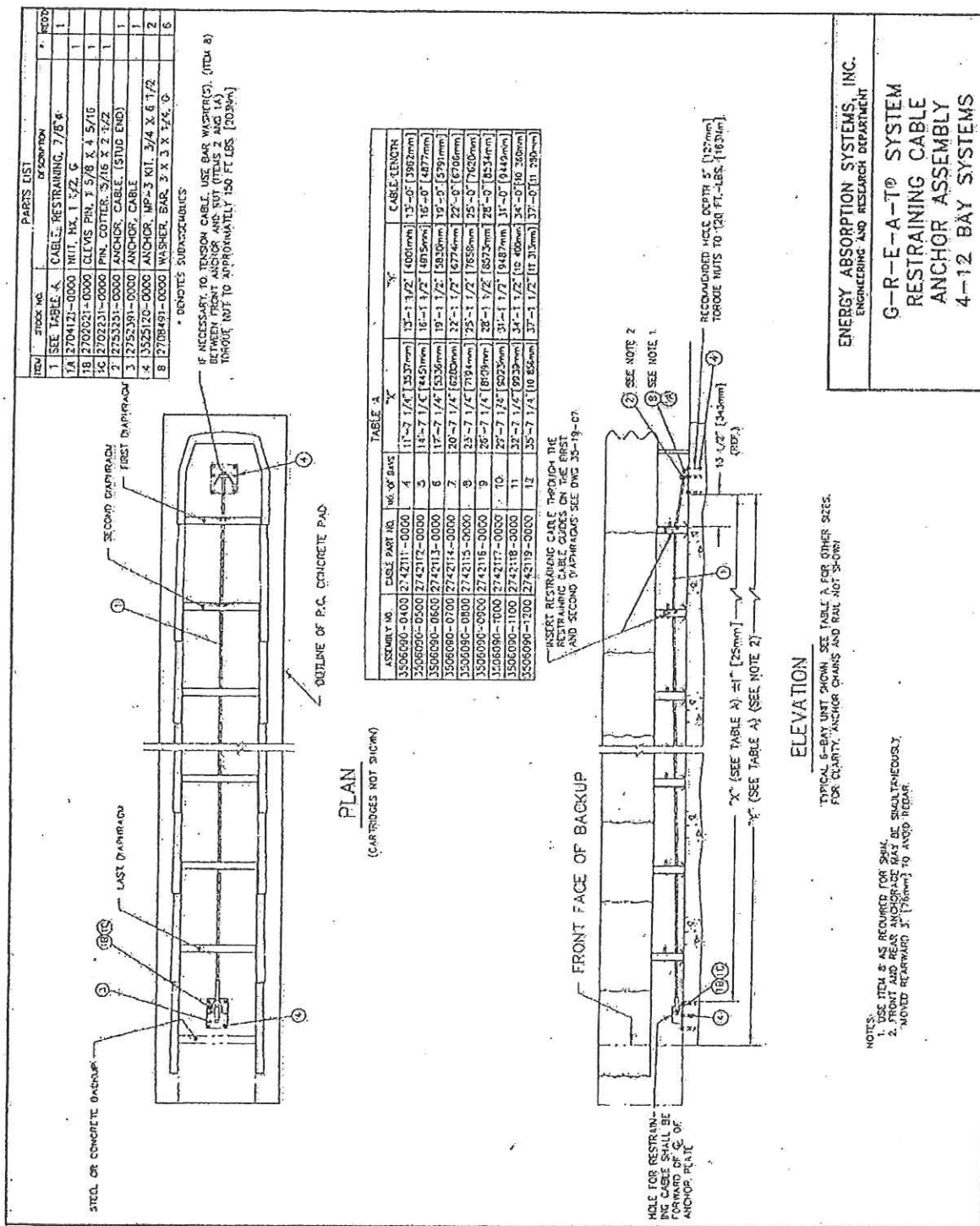
PAGES 1 THROUGH 2
NOT INCLUDED AS
PART OF THIS

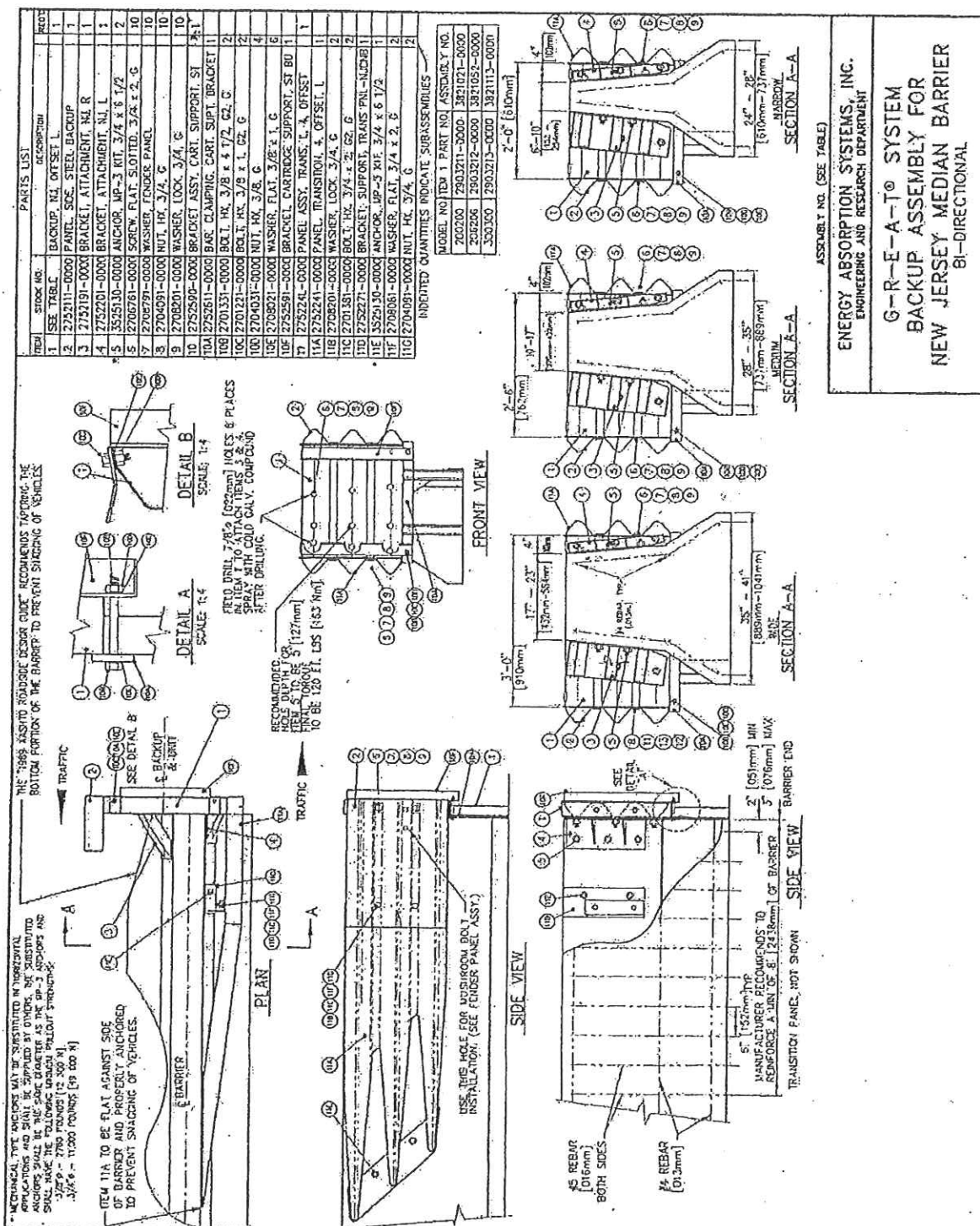
REQUEST FOR QUOTATION

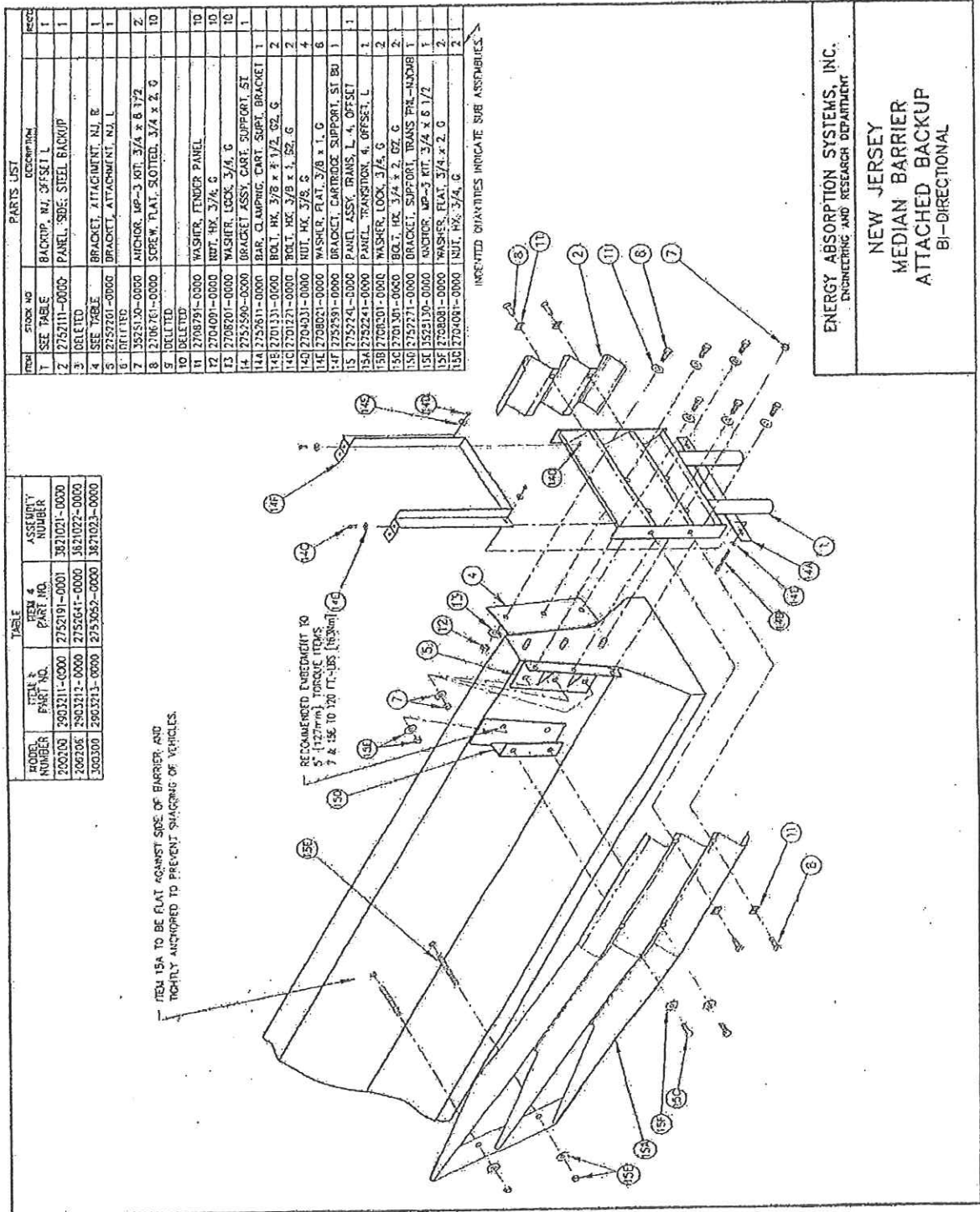


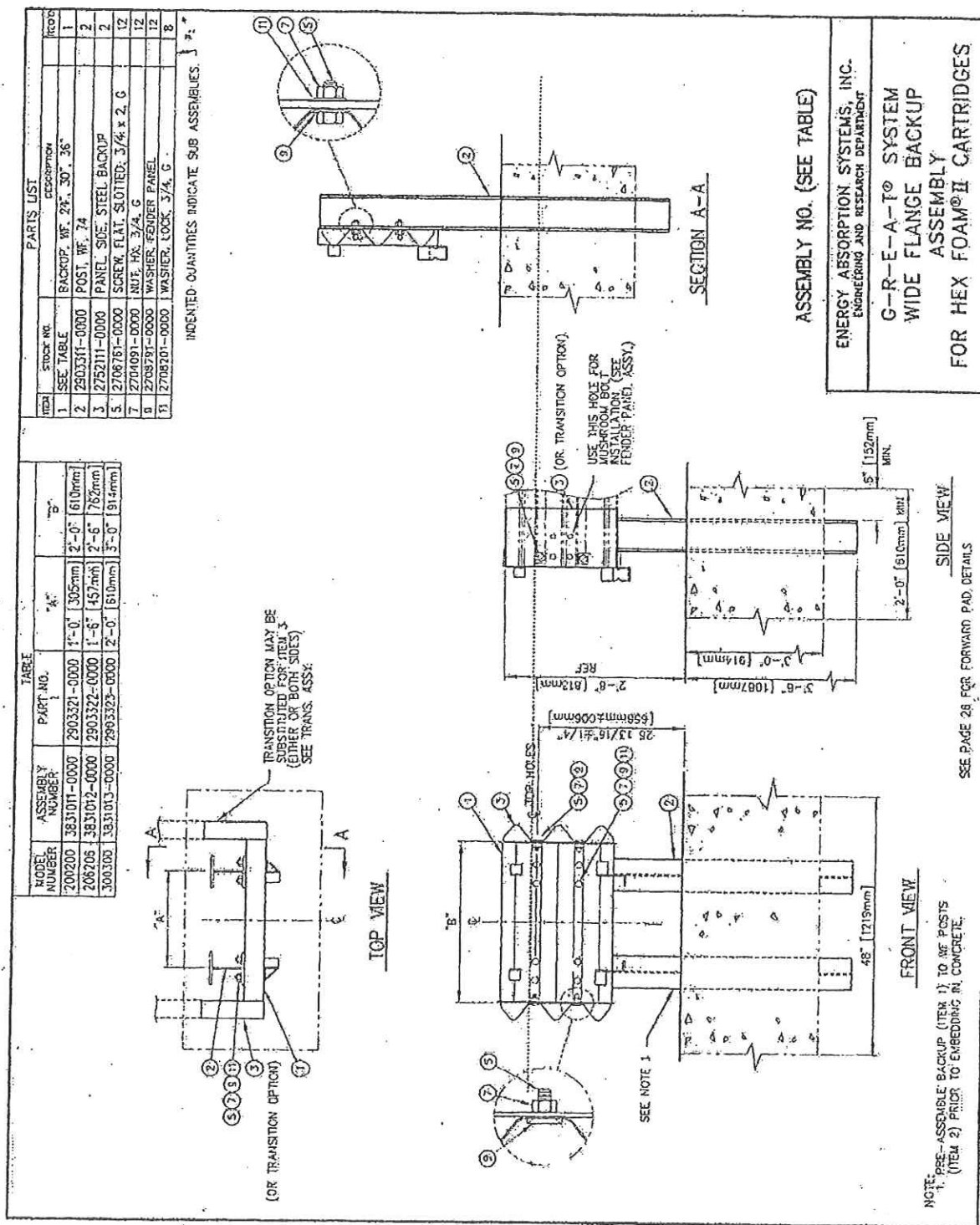


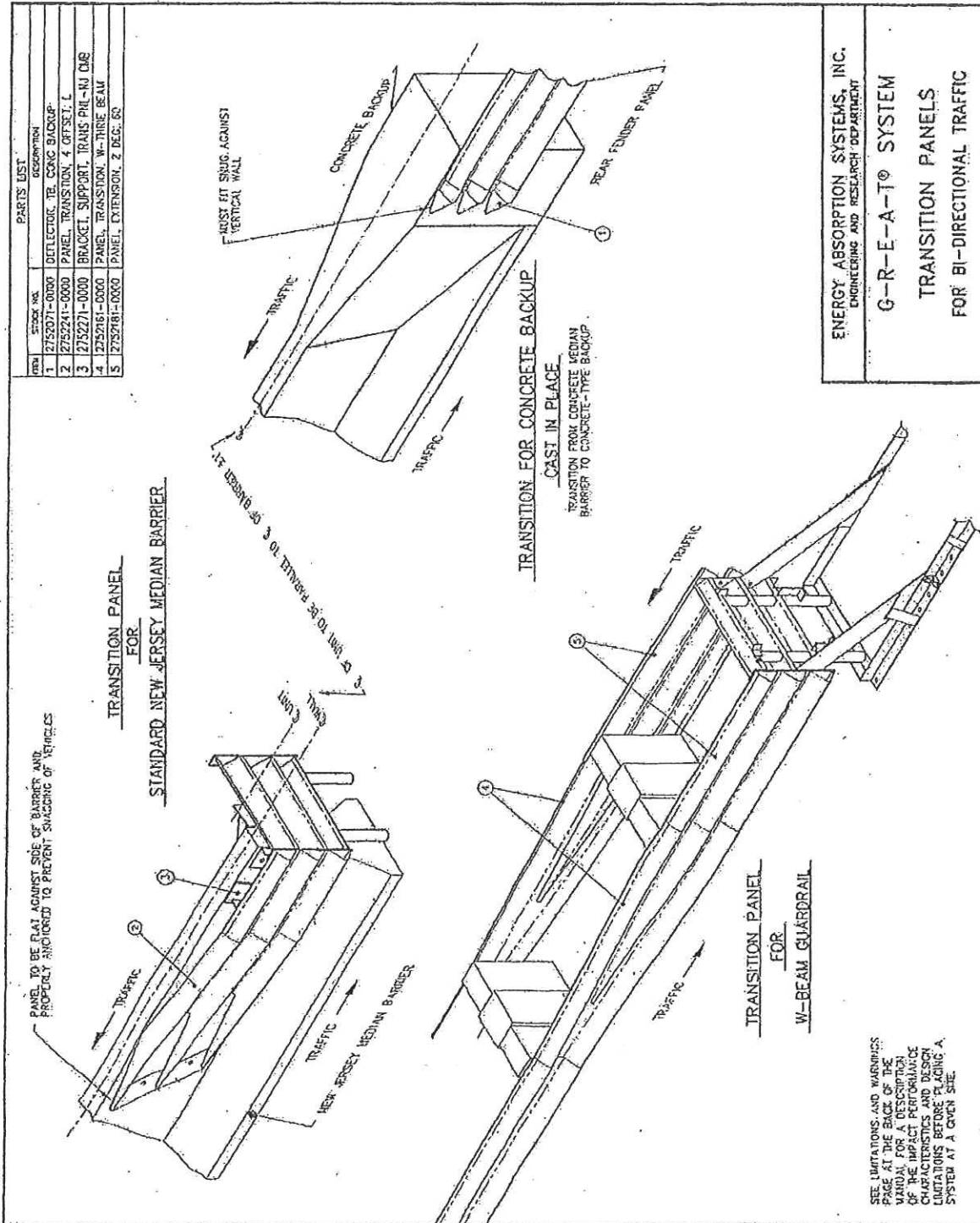


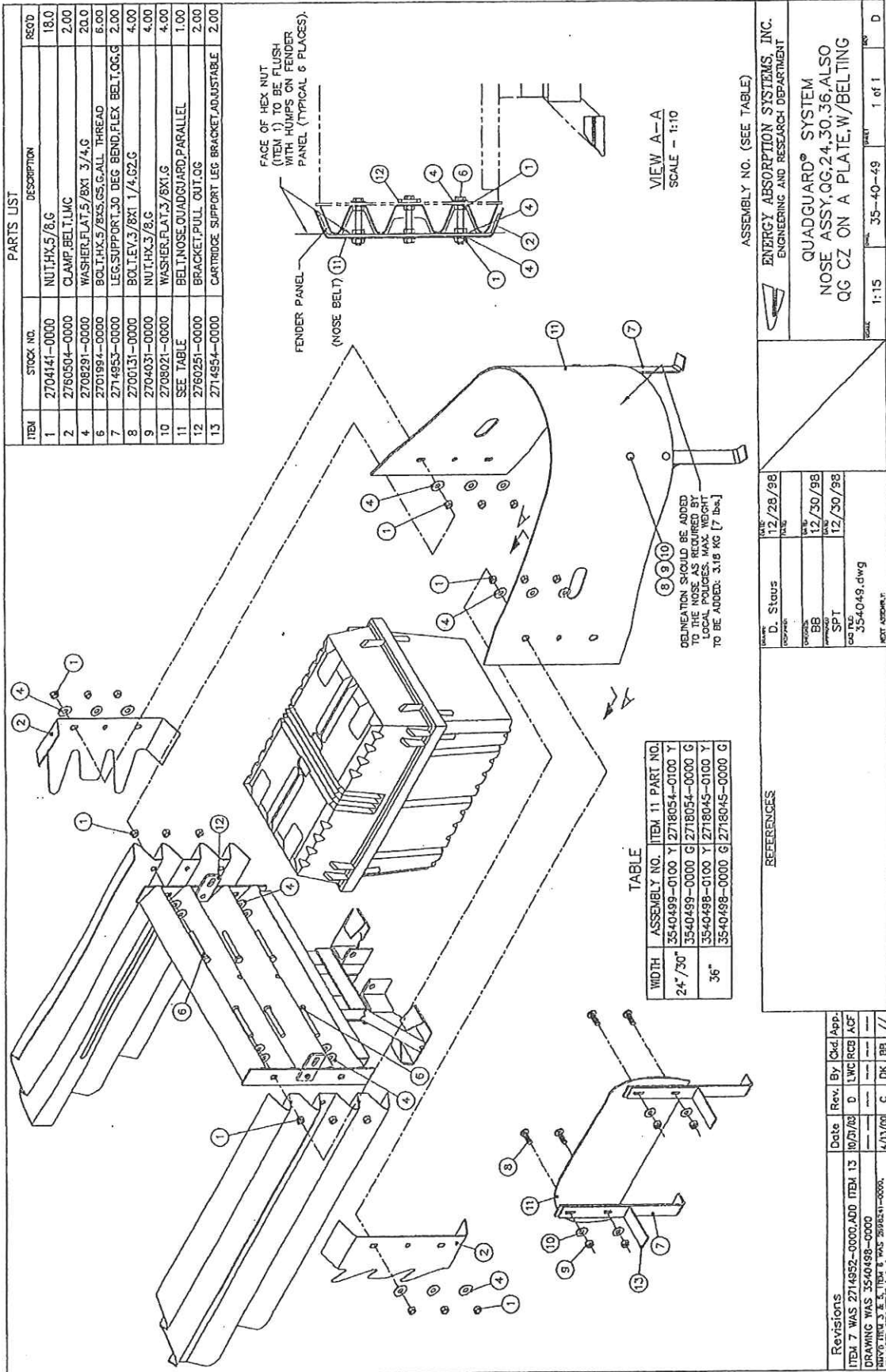


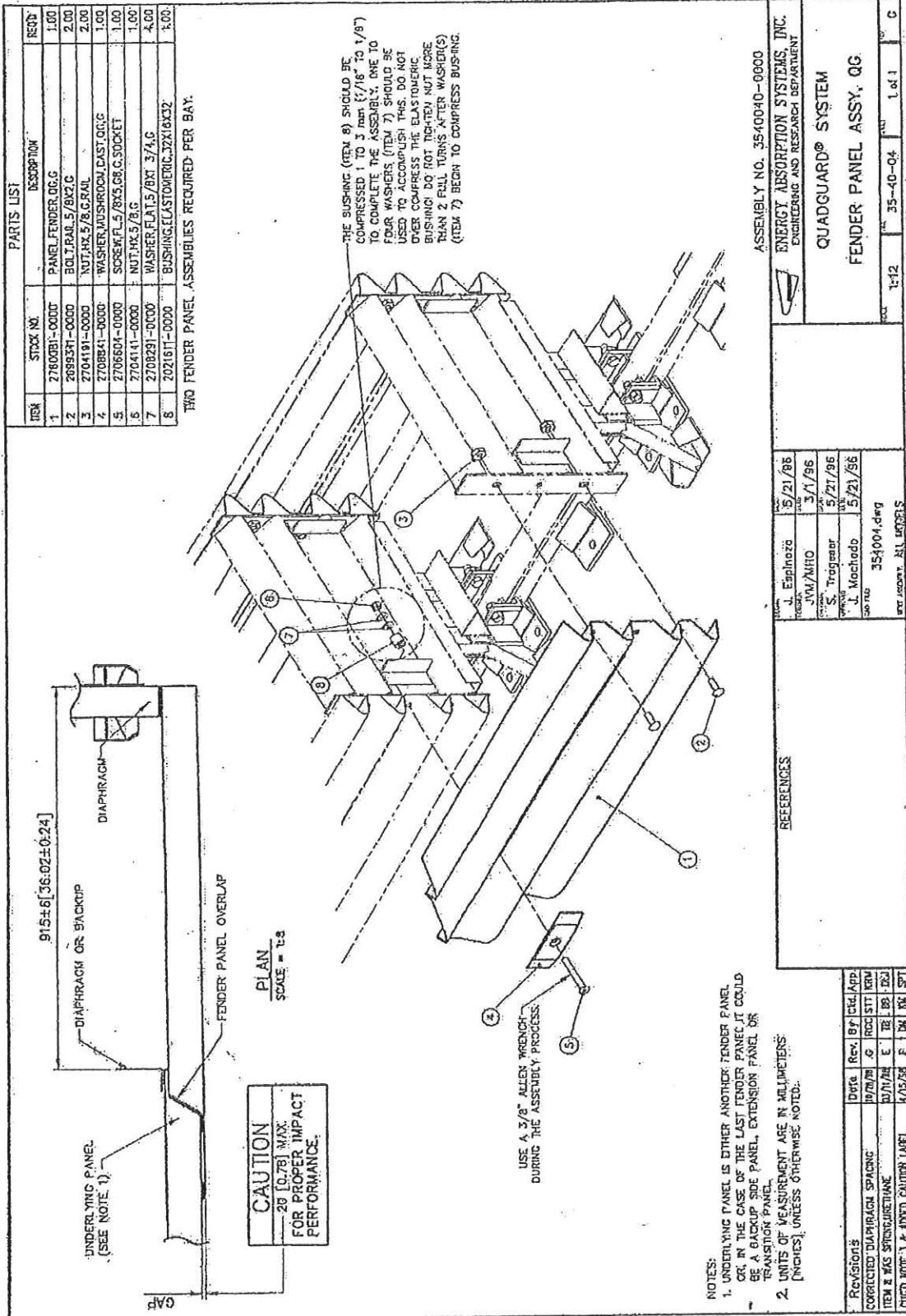












**QUADGUARD SYSTEM
FOR NARROW HAZARDS**

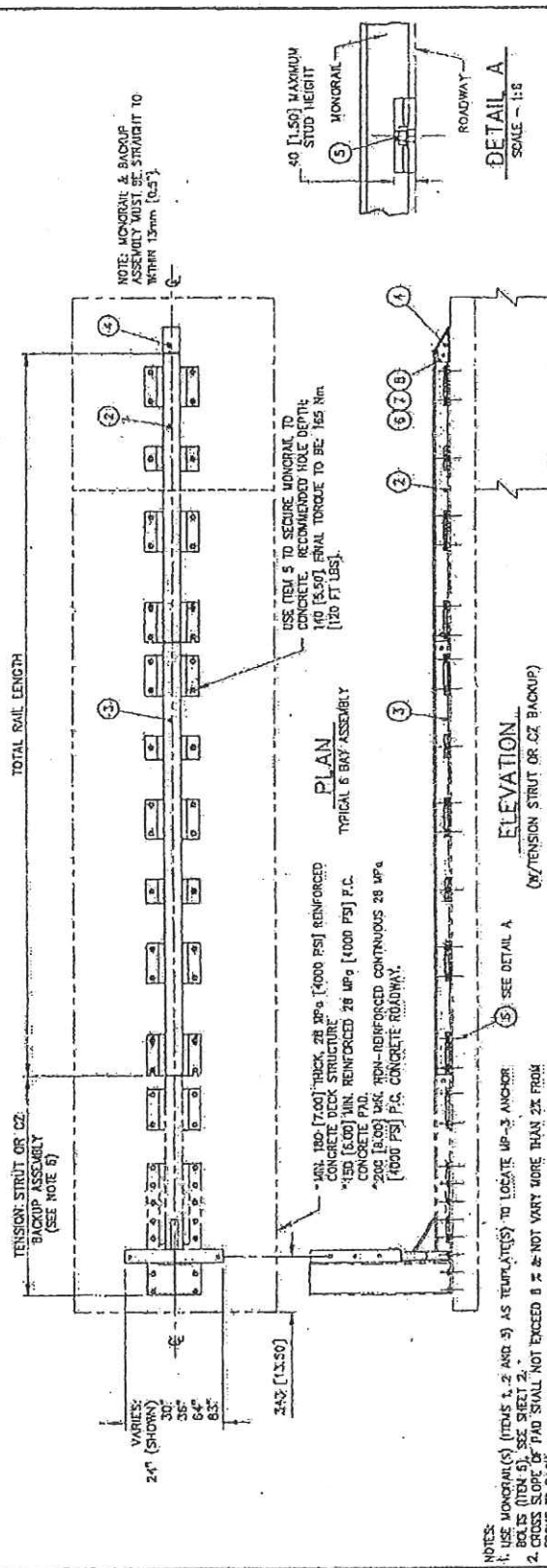
TABLE 11						
ASSEMBLY NO.	TOTAL REQ. (LENGTH)	*ITEM 1	*ITEM 2	*ITEM 3	*ITEM 5	*ITEM 6
3540080-0100	0	0	0	0	0	1
3540080-0100	915 (35.0)	1	0	0	2	2
3540080-0200	1830 (72.0)	0	1	0	3	3
3540080-0300	2745 (108.1)	0	0	1	4	4
3540080-0400	3660 (144.1)	1	0	1	5	5
3540080-0500	4575 (180.1)	0	1	1	6	6
3540080-0600	5490 (216.4)	0	0	2	7	7
3540080-0700	6405 (252.1)	1	0	2	8	8
3540080-0800	7320 (288.2)	0	1	2	9	9
3540080-0900	8235 (324.2)	0	0	3	10	10
3540080-1000	9150 (360.2)	1	0	3	12	11
3540080-1100	10065 (396.2)	0	1	3	13	12

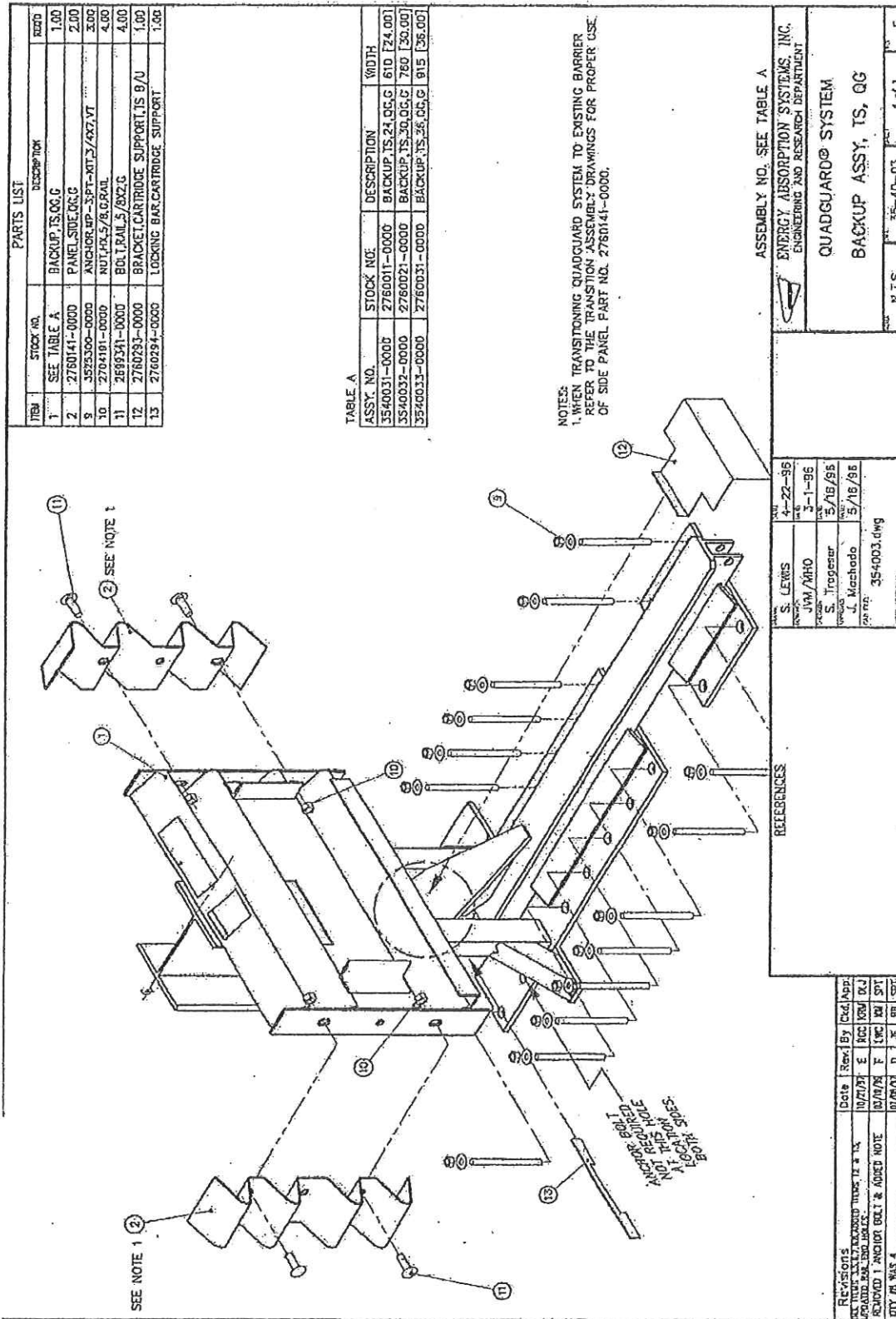
*NOT APPLICABLE FOR 05" & 90" OR 02 QG SYSTEMS

*NOT APPLICABLE FOR 02 QG SYSTEMS

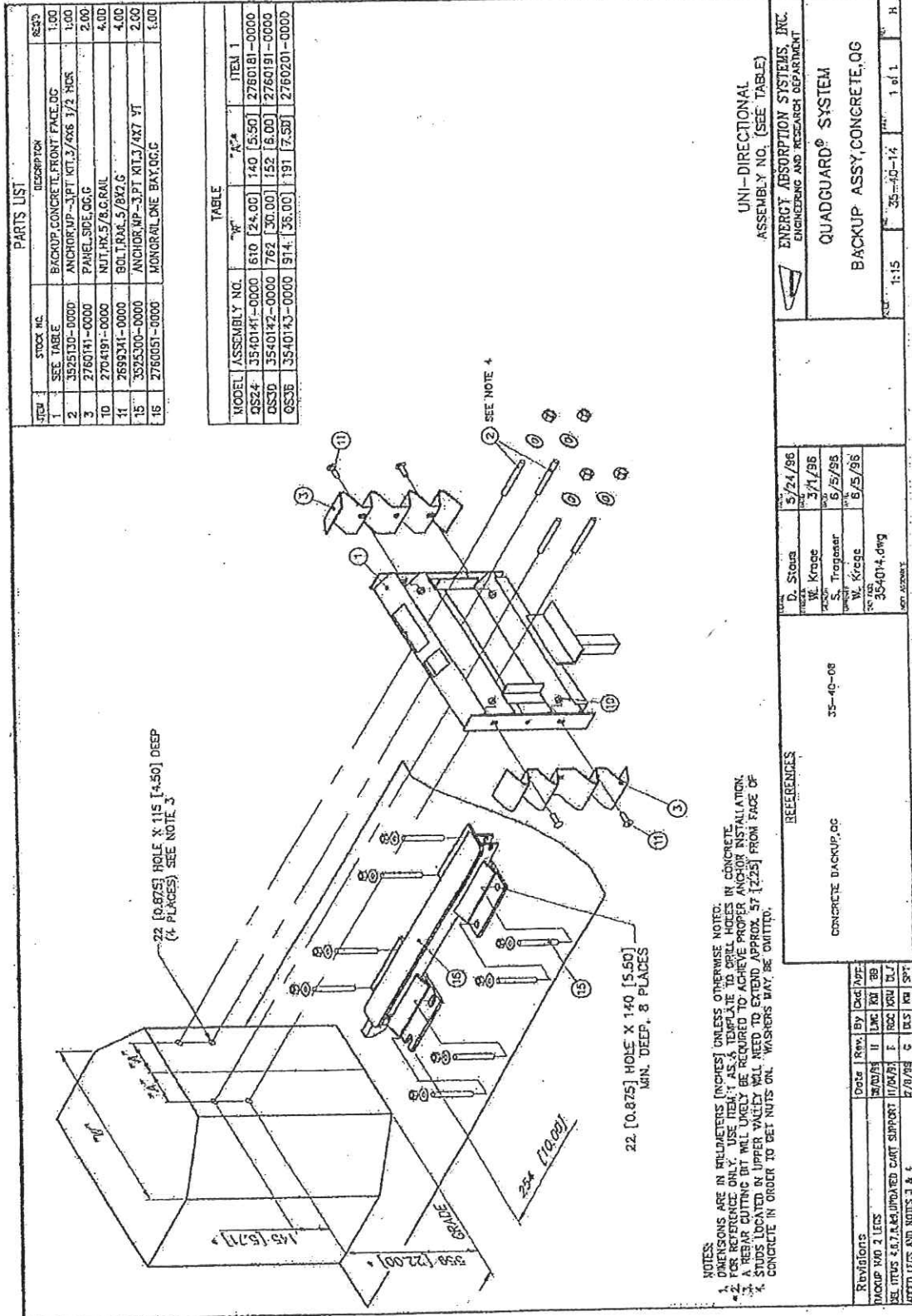
* SEE TABLE

PARTS LIST		
ITEM	STOCK NO.	DESCRIPTION
1	2760051-0000	MONORAIL ONE BAY Q.G.C.
2	2760051-0000	MONORAIL TWO BAYS Q.G.C.
3	2760071-0000	MONORAIL THREE BAYS Q.G.C.
4	2760041-0000	END CAP MONORAIL Q.G.C.
5	3525300-0000	ANCHOR WP-3 PT-KIT 3/4X7.VT
6	2899571-0000	BOLT 1/4X.5/8X3 1/2.GS.C
7	2704141-0000	NUT 1/4X.5/8.C
8	2708231-0000	WASHER LOCK 5/8.C

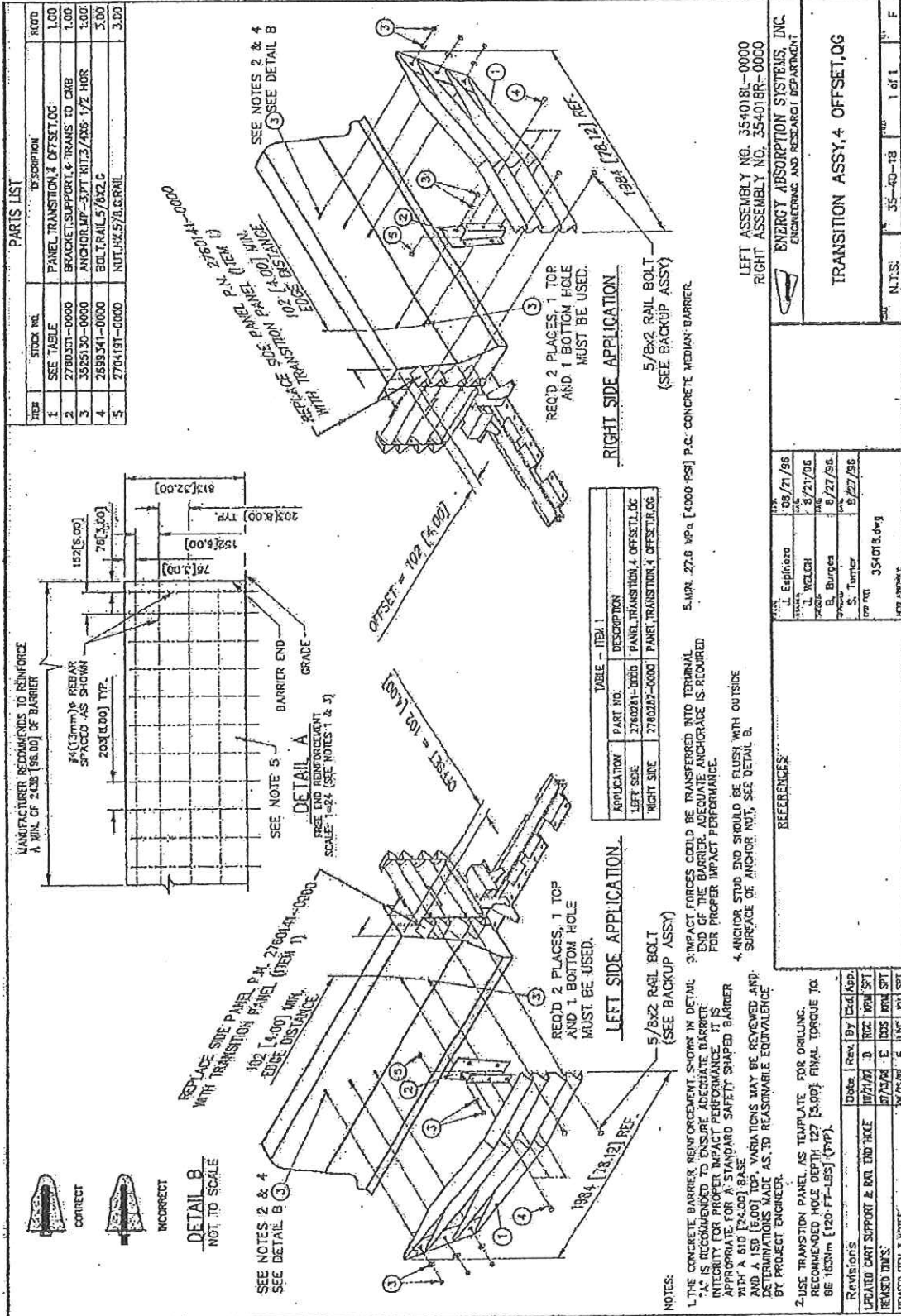
[illegible]

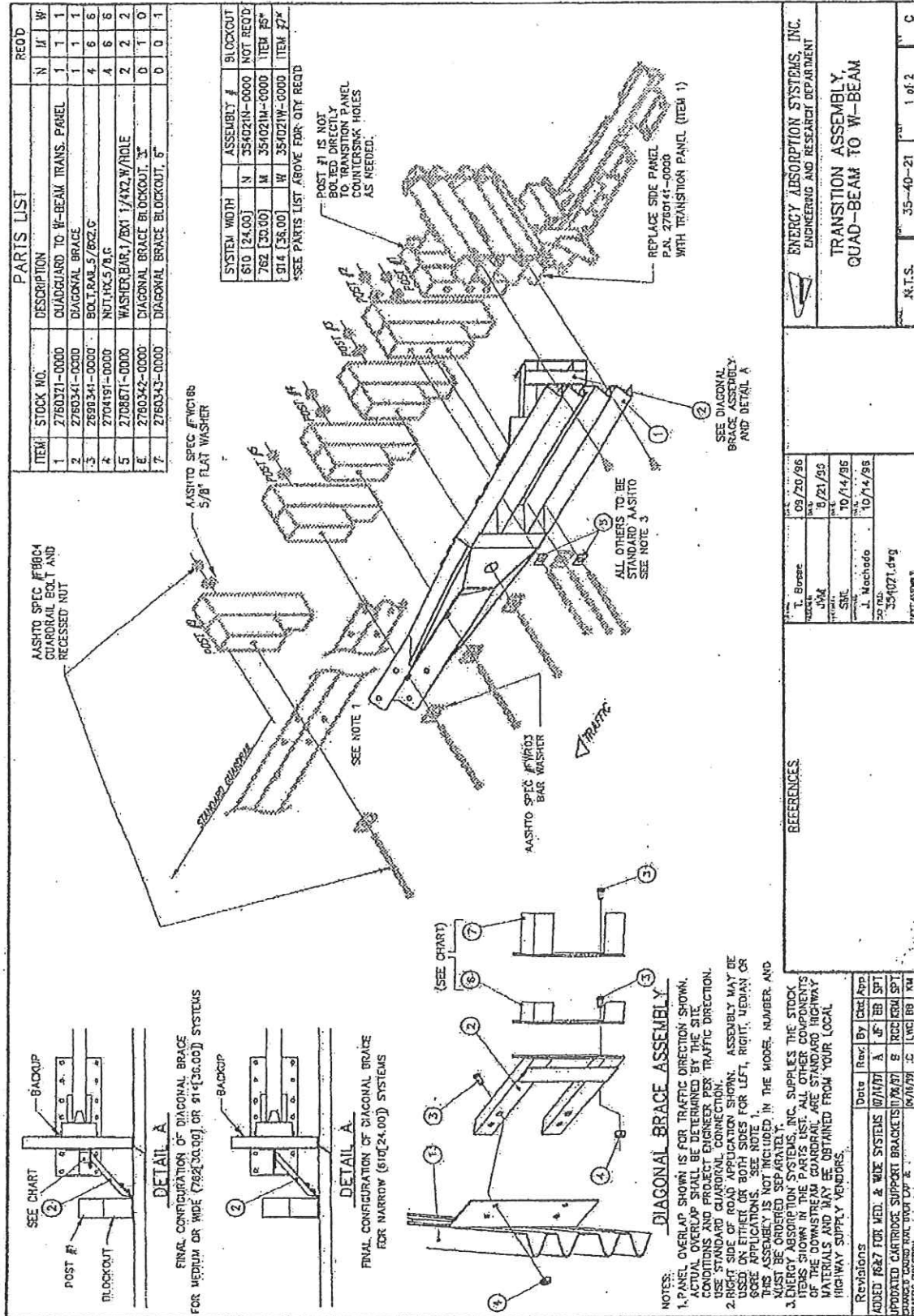


**QUADGUARD SYSTEM
FOR NARROW HAZARDS**

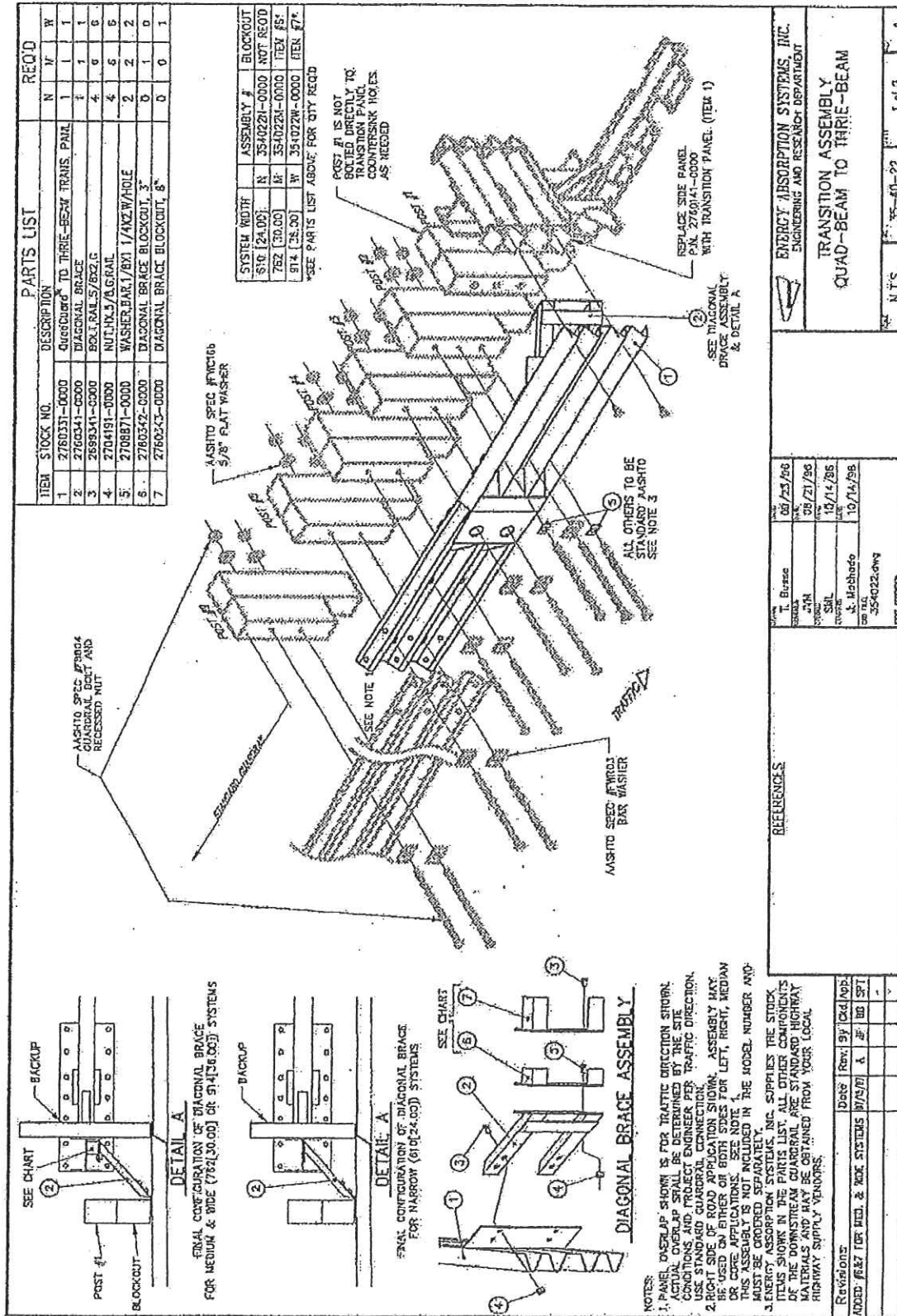


**QUADGUARD SYSTEM
FOR NARROW HAZARDS**





**QUADGUARD SYSTEM
FOR NARROW HAZARDS**



PARTS LIST		
ITEM	STOCK NO.	DESCRIPTION
1	2760311-0000	DEFLECTOR, CONCRETE BACKUP, QG
2	3525130-0000	ANCHOR, WP-3 W/ 3/16" 1/2" HORIZ

NOTE:
1. USE DEFLECTOR AS A TEMPLATE TO
LOCATE AND DRILL 2X(0.88) HOLES.
2. DIMENSIONS ARE IN MILLIMETERS [INCHES],
UNLESS OTHERWISE NOTED.

DEFLECTOR ASSEMBLY, CONCRETE BACKUP RETROFIT, QG

ASSY NO. 3540200-0000

ENERGY ABSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

DATE: 08/26/96
BY: R. CHAMBERS
CHECKED: W. KRADE
DATE: 08/26/96
BY: SUT
DATE: 08/26/96
BY: WCK
DATE: 08/26/96
BY: 354020.dwg

REFERENCES

Revisions

CHG'D	PART NO.	TO ASSY NO.	DATE	REV	BY	CHK	APP
CHG'D	TITLE BLOCK		W/M	A	RC	SM	WK
			W/M	B	SC	BR	SPT

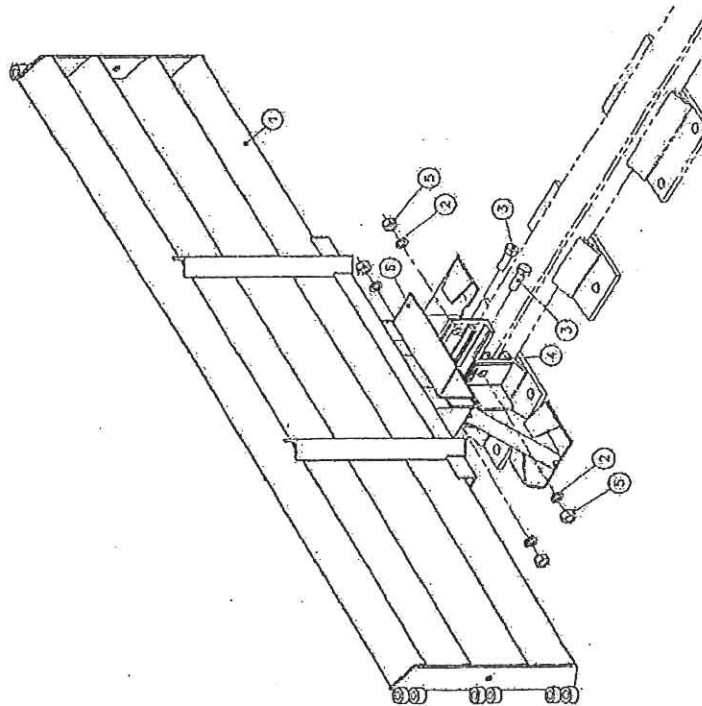
35-40-20 1 of 1 B

QUADGUARD SYSTEM
FOR NARROW HAZARDS

QUADGUARD SYSTEM FOR WIDE HAZARDS

ITEM	STOCK NO.	DESCRIPTION	QTY
1	SEE TABLE A	DIAPHRAGM ASSY, QG	1.00
2	2708201-0000	WASHER LOCK 3/4 G	4.00
3	2689121-0000	BOLT 1/2 X 3/4 G	4.00
4	2760081-0000	MONORAIL GUIDE QG	2.00
5	2704341-0000	NUT 1/2 X 3/4 G	4.00
6	2760292-0000	BRACKET CARTRIDGE SUPPORT DIAPHRAGM	2.00

PARTS LIST



ASSEMBLY NO.	DESCRIPTION	REV. 1 PART NO.
3540340-0673	DIAPHRAGM ASSY, QG 0673	2761041-0673
3540340-0753	DIAPHRAGM ASSY, QG 0753	2761041-0753
3540340-0833	DIAPHRAGM ASSY, QG 0833	2761041-0833
3540340-0913	DIAPHRAGM ASSY, QG 0913	2761041-0913
3540340-0993	DIAPHRAGM ASSY, QG 0993	2761041-0993
3540340-1073	DIAPHRAGM ASSY, QG 1073	2761041-1073
3540340-1153	DIAPHRAGM ASSY, QG 1153	2761041-1153
3540340-1233	DIAPHRAGM ASSY, QG 1233	2761041-1233
3540340-1273	DIAPHRAGM ASSY, QG 1273	2761041-1273
3540340-1313	DIAPHRAGM ASSY, QG 1313	2761041-1313
3540340-1393	DIAPHRAGM ASSY, QG 1393	2761041-1393
3540340-1473	DIAPHRAGM ASSY, QG 1473	2761041-1473
3540340-1513	DIAPHRAGM ASSY, QG 1513	2761041-1513
3540340-1553	DIAPHRAGM ASSY, QG 1553	2761041-1553
3540340-1633	DIAPHRAGM ASSY, QG 1633	2761041-1633
3540340-1713	DIAPHRAGM ASSY, QG 1713	2761041-1713
3540340-1793	DIAPHRAGM ASSY, QG 1793	2761041-1793
3540340-1873	DIAPHRAGM ASSY, QG 1873	2761041-1873
3540340-1953	DIAPHRAGM ASSY, QG 1953	2761041-1953
3540340-2033	DIAPHRAGM ASSY, QG 2033	2761041-2033

TABLE A

(SEE TABLE A)

ASSEMBLY NO. 3540340-

ENERGY ABSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

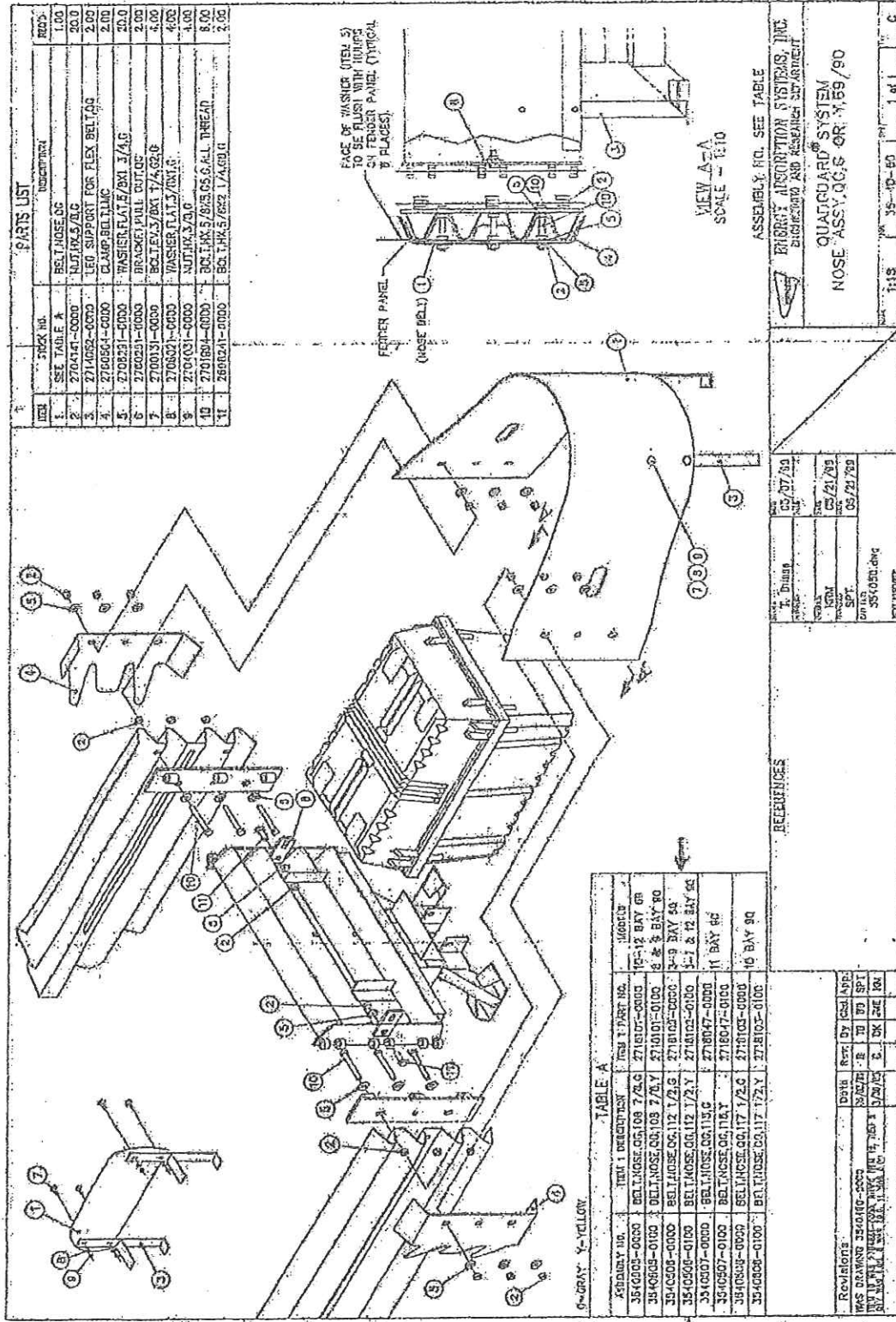
QUADGUARD SYSTEM
DIAPHRAGM ASSY, QG, WIDE

D. Stairs	9/12/87
J. Machado	9/13/87
KRM	7/2/87
J. Machado	7/7/87
3540340-0000.dwg	
DATE	11/22/89

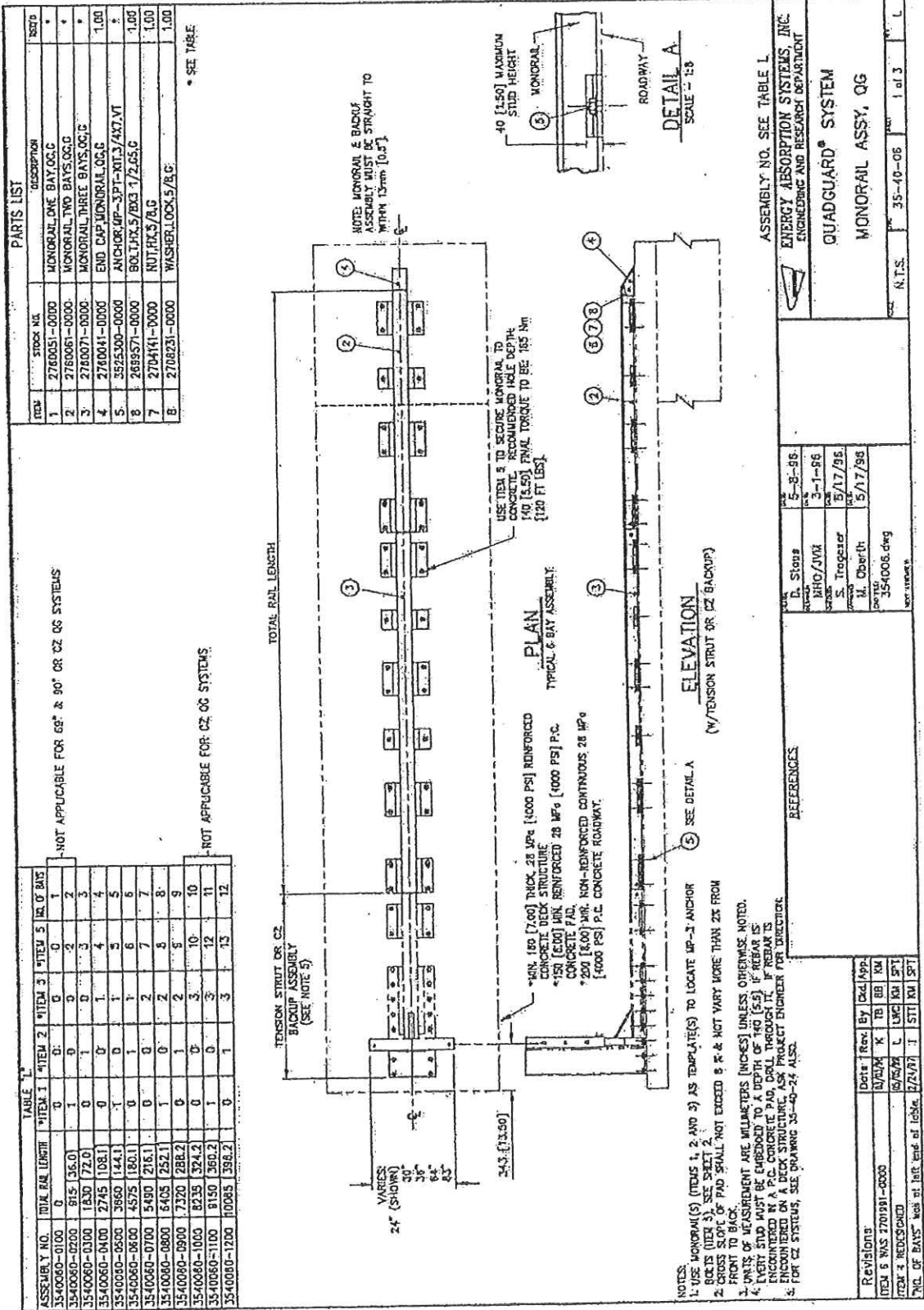
REFERENCES

Revisions	Date	By	Check
DELICIT ITEMS 2.1.5.6, RE-NUMBERED	9/22/89	C	DDG STI KM
SEE SHEET 2	9/22/89	H	TKM KM SPT
REV CHG TO MATCH SHEET 2	9/22/89	T	DLS KM DLS

1 of 2



QUADGUARD SYSTEM
FOR WIDE HAZARDS

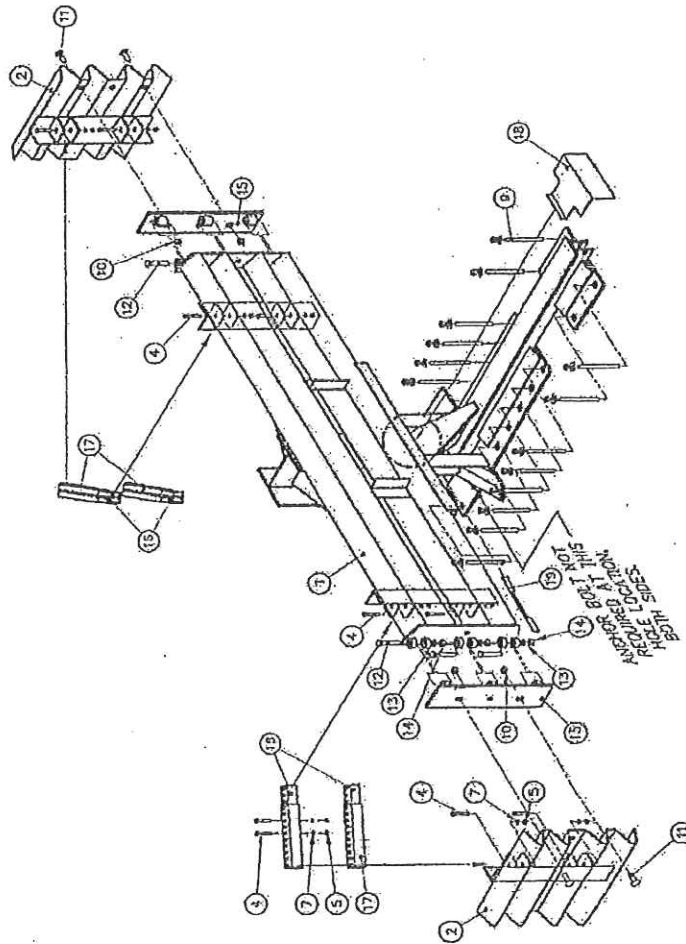


PARTS LIST			
ITEM	STOCK NO.	DESCRIPTION	QTY
1	SEE TABLE A	BACKUP TS, QG WIDE, G	1.00
2	2760471-0000	PANEL SIDE, QG WIDE, G	2.00
4	2699801-0000	BOLT, HK, 3/8X3 1/2, G2, CALL THREAD	16.0
5	2704031-0000	NUT, HK, 3/8, G	16.0
7	2708041-0000	WASHER, LOCK, 3/8, G	16.0
8	3523300-0000	ANCHOR, WP-3PT-KIT, 3/4X7, VT	3.00
10	2704191-0000	NUT, HK, 5/8, G, RAL	4.00
11	2699341-0000	BOL, TRAIL, 5/8X2, G	4.00
12	2701991-0000	BOLT, HK, 5/8X4, G, G	6.00
13	2708231-0000	WASHER, LOCK, 5/8, G	6.00
14	2704141-0000	NUT, HK, 3/8, G	6.00
15	2760435-0000	HINGE PLATE, FENDER PANEL, QG, G	2.00
16	2760501-0000	TEL ST 1 3/4X1 3/4X12GA, H45, G, 10" LG	4.00
17	2760502-0000	TEL ST 2X2X12GA, H45, G, 10" LONG	4.00
18	2760293-0000	BRACKET, CARTRIDGE SUPPORT, TS B/U	1.00
19	2760294-0000	LOCKING BAR, CART SUPPORT, QG	1.00

TABLE A

ASSY. NO.	STOCK NO.	DESCRIPTION	WIDTH
3540391-0000	2760451-0000	BACKUP TS, 84, QG WIDE, G	1620 [64"]
3540392-0000	2760452-0000	BACKUP TS, 84, QG WIDE, G	2100 [83"]

NOTES:
1. WHEN TRANSITIONING QUADGUARD SYSTEM TO EXISTING BARRIER REFER TO THE TRANSITION ASSEMBLY DRAWINGS FOR PROPER USE OF SIDE PANEL PART NO. 2760414-0000.



ASSEMBLY NO. SEE TABLE A

ENERGY ADSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

QUADGUARD® SYSTEM

BACKUP ASSY, TS, QG WIDE

REFERENCES

DESIGNED BY	D. Slouze	DATE	7/1/97
DESIGNED BY	J. Machado	DATE	6/2/97
DESIGNED BY	B. Kroger	DATE	7/13/97
DESIGNED BY	J. Machado	DATE	7/17/97
PROJECT NO.	3540390-0000.dwg	REV.	1 of 1

Revisions	Date	Rev. by	Chk. App.
ITEM 13 WAS 2708041-0000	11/20/96	E	ENC (HUK) SPT
REMOVED 1 ANCHOR BOLT & AFTER NOTE	01/13/98	C	ENC (HUK) SPT
UPDATED NUMBER ITEM 13 WAS 2708041-0000	11/20/96	D	DK (BB) SPT

QUADGUARD SYSTEM
FOR WIDE HAZARDS

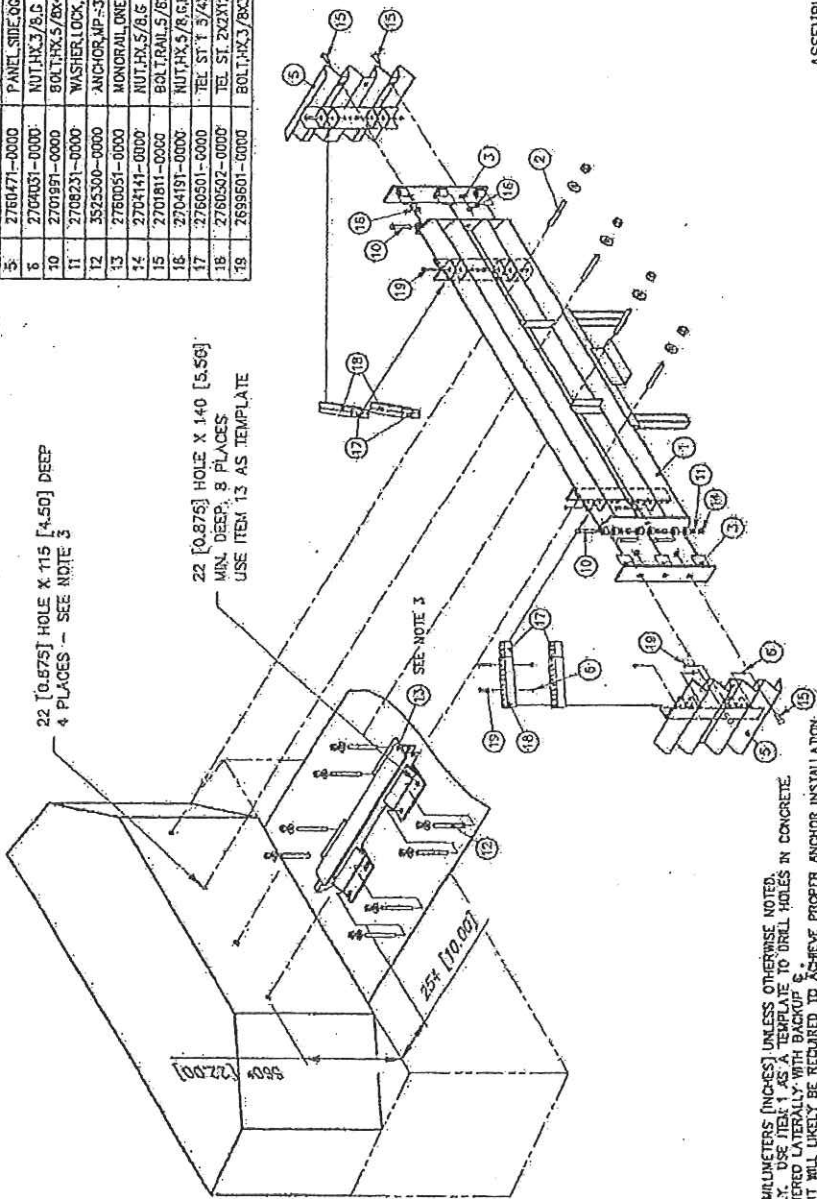
QUADGUARD SYSTEM FOR WIDE HAZARDS

TABLE

ASSY. NO.	ITEM 1	DESCRIPTION	WIDTH
3540401-0000	2760451-0000	BACKUP FACE CONC. 64.00 WIDE, 1820. [64"]	
3540402-0000	2760481-0000	BACKUP FACE CONC. 83.00 WIDE, 2100. [83"]	

22 [0.875] HOLE X 115 [4.50] DEEP
4 PLACES - SEE NOTE 3

22 [0.875] HOLE X 140 [5.50]
MIN. DEEP, 8 PLACES
USE ITEM 13 AS TEMPLATE



- NOTES:
1. DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
 2. FOR REFERENCE ONLY. USE ITEM 1 AS A TEMPLATE TO DRILL HOLES IN CONCRETE.
 3. ITEM 13 TO BE CENTERED LATERALLY WITH BACKUP 6.
 4. A REBAR CUTTING BIT WILL LIKELY BE REQUIRED TO ACHIEVE PROPER ANCHOR INSTALLATION.

REFERENCES

CONCRETE BACKUP, OG WIDE

35-10-41

DATE	7/8/97
BY	D. Slatis
DATE	5/27/97
BY	J. Moehle
DATE	7/17/97
BY	B. Korman
DATE	7/17/97
BY	S. Trostler
DATE	3540400-0000.dwg
BY	3540400-0000.dwg

ASSEMBLY NO. (SEE TABLE)

ENERGY ABSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

BACKUP ASSY. CONCRETE, OG WIDE

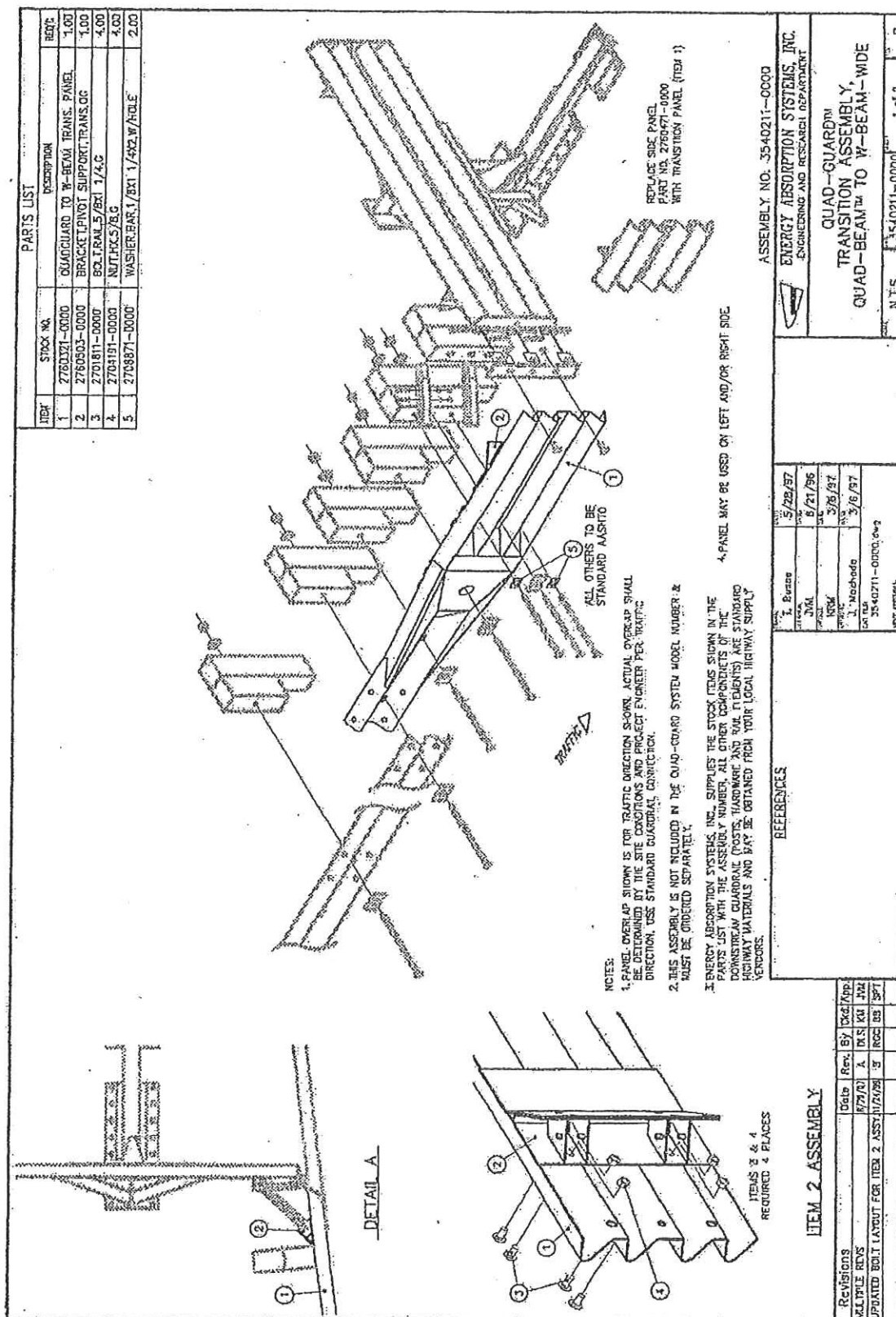
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3540400-0000

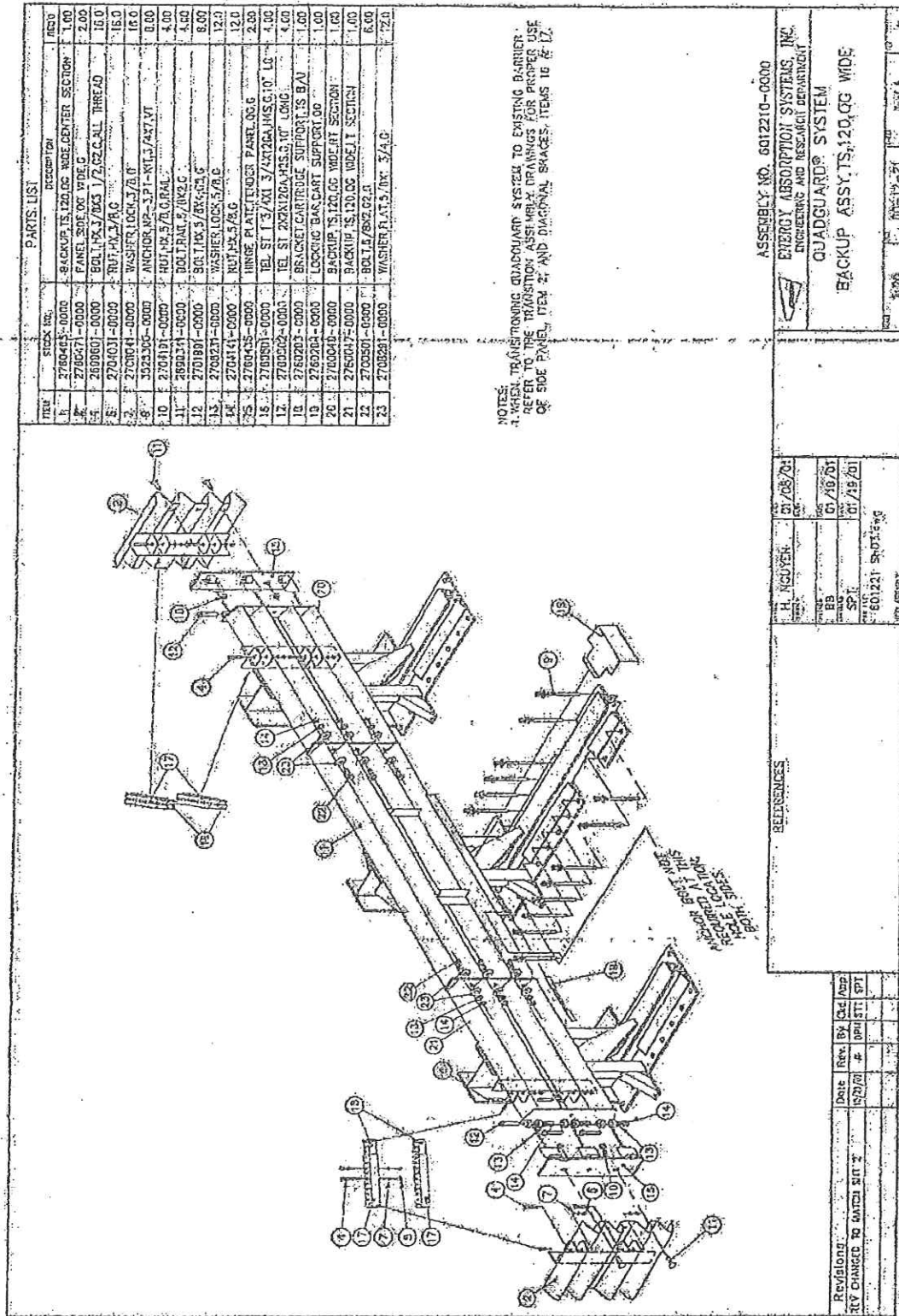
1 of 1

D

QUADGUARD SYSTEM FOR WIDE HAZARDS







PARTS LIST

ITEM	STOCK NO.	DESCRIPTION	QTY
1	2700415-0000	BACKUP TS, 120.00 WIDE CENTER SECTION	1.00
2	2700417-0000	PANEL SIDE 000 WIDE C	2.00
3	2600001-0000	BOLT 1/2 X 3/4 X 1/2, 0.02 C. ALL THREAD	10.00
4	2700401-0000	WASHER LOCK 5/8 B	10.00
5	2700401-0000	WASHER LOCK 5/8 B	10.00
6	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
7	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
8	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
9	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
10	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
11	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
12	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
13	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
14	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
15	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
16	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
17	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
18	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
19	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
20	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
21	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
22	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00
23	2700401-0000	ANCHOR M2-3 P1-NIL 3/4 X 1/2	10.00

NOTES:
1. WHEN TRANSITIONING QUADGUARD SYSTEM TO EXISTING BARRIER, REFER TO THE TRANSITION ASSEMBLY DRAWINGS FOR PROPER USE OF SIDE PANEL, ITEM 2, AND DIAGONAL BRACES, ITEMS 16 & 17.

ASSEMBLY NO. 6012210-0000

ENERGY ABSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

QUADGUARD® SYSTEM

BACKUP ASSY, TS, 120.00 WIDE

H. NGUYEN

BB

SP

6012210-0000

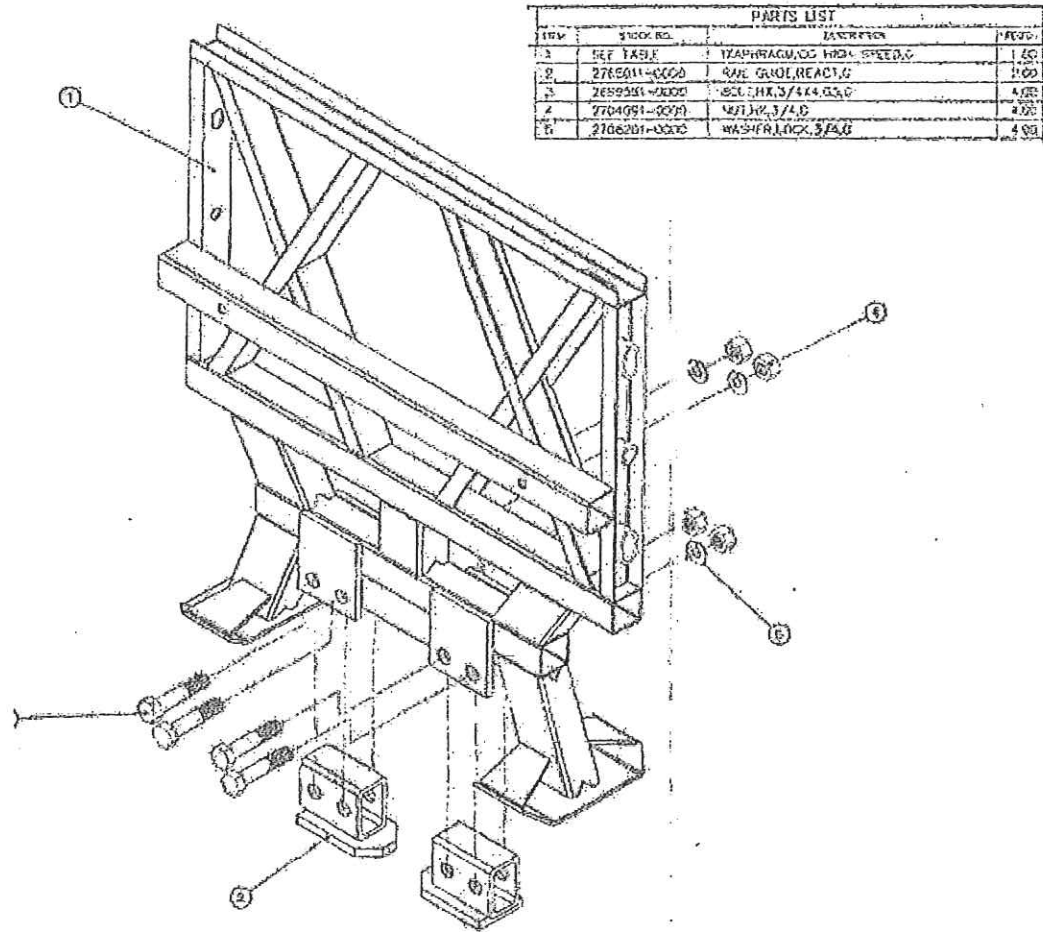
6/19/01

6/19/01

6/19/01

REFERENCES

Revised	Date	Rev.	By	Qc	App
REV CHANGED TO MATCH SHT 2	6/20/01	#	OPN	STT	ENT



NOTE: THIS DIAPHRAGM TO BE USED ONLY FOR DIAPHRAGMS 1 THRU 3 ON THE QUADGUARD-HS

FOR ASSEMBLY OF THE
TOOLING

SEE PART 1, 2

FOR ASSEMBLY OF THE
TOOLING

ITEM	STOCK NO.	DESCRIPTION	QTY.
1	2731841-1153	DIAPHRAGM ASSY EX-WIDE, 1153	1
2	2732911-0000	RAL CLAMP BRACKET	2
3	2732911-0000	RAL CLAMP BRACKET	2
4	2731291-0000	NUT LOCK WASHER	1
5	2732911-0000	WASHER LOCK WASHER	1
6	2732911-0000	BRACKET CAP BRIDGE BOLT DIA 0.0	2

NOTE:
1. ASSEMBLY ITEMS 2 WITH FASTENERS 4 & 5.

ASSEMBLY NO. 6010132-1153

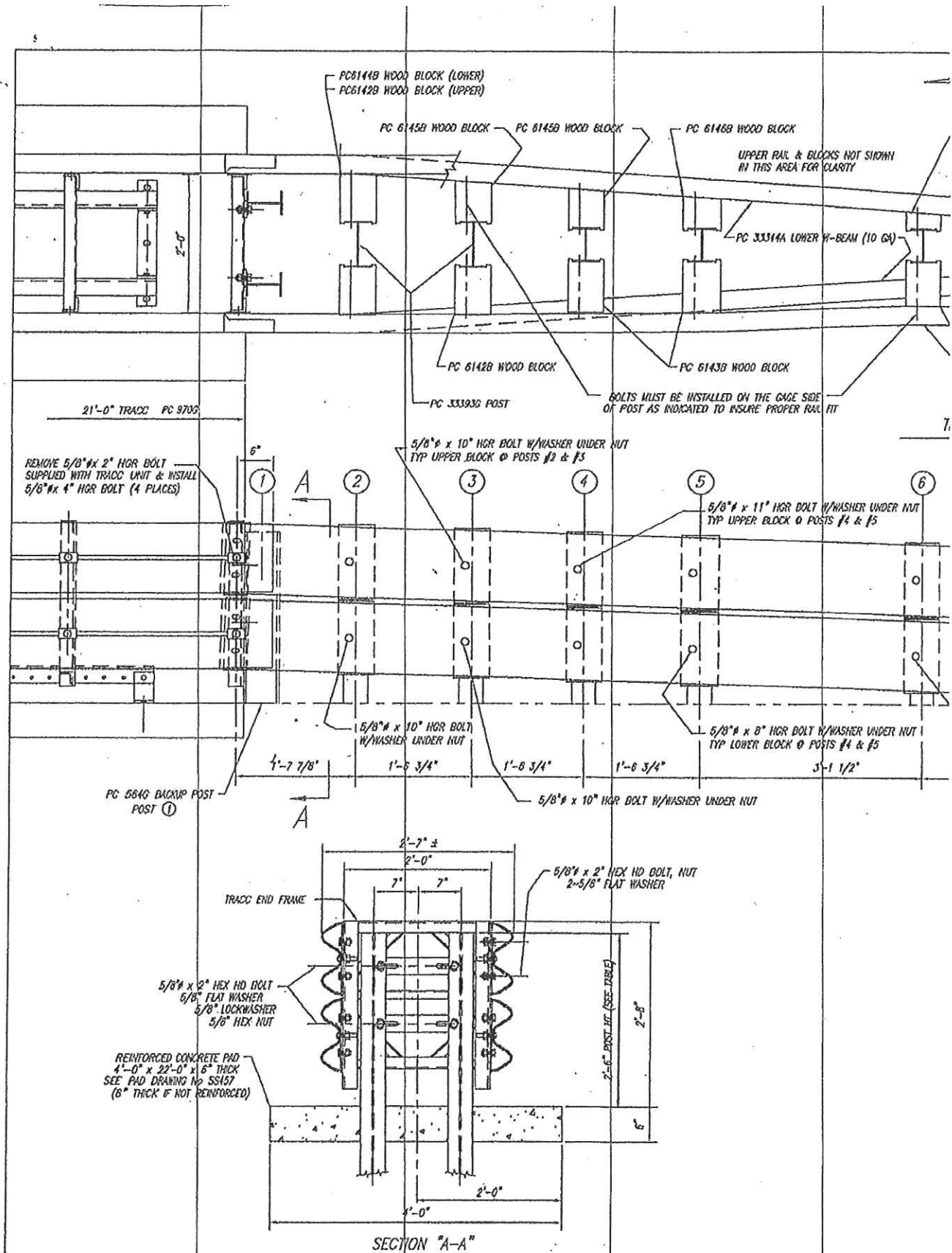
ENERGY ABSORPTION SYSTEM, INC.
"IMPROVED AND REDESIGNED"

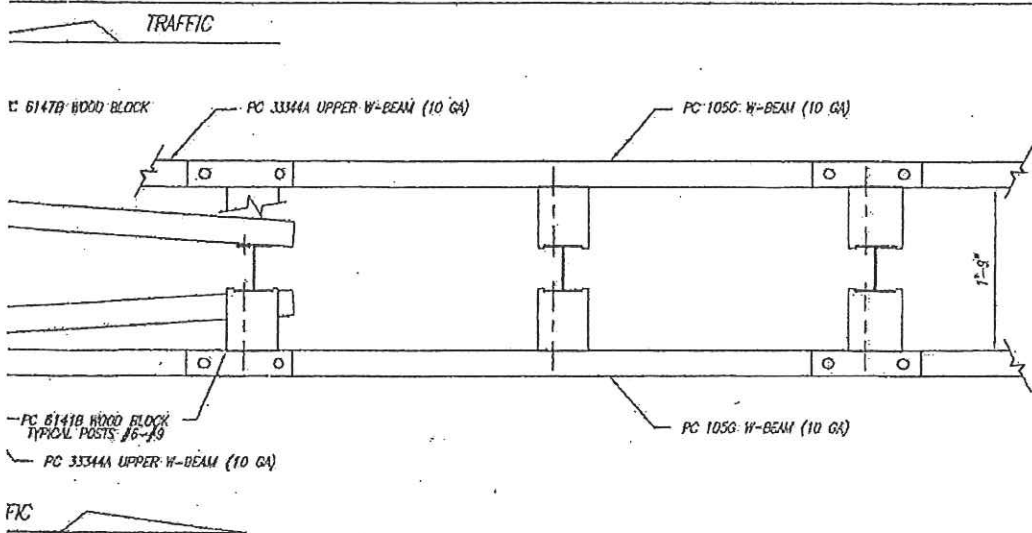
DIAPHRAGM ASSY, EX-WIDE, 1153

DATE: 11/11/2003
BY: A. FORDIN
CHECKED: 11/11/2003
BY: SPT

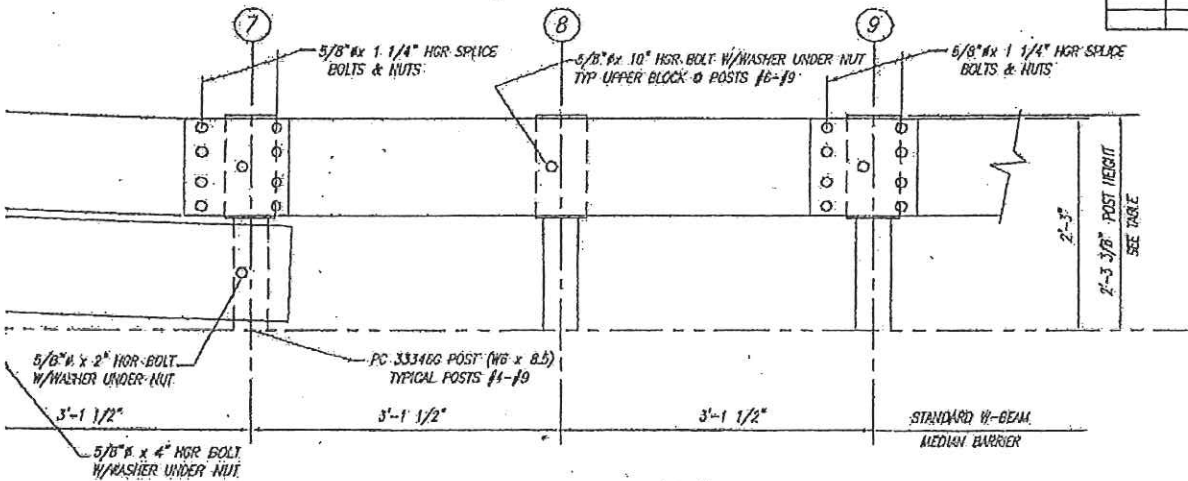
6010132-1153

1 of 1





TRACC TRANSITION BILL OF MATERIAL		
PRODUCT CODE	QTY	DESCRIPTION
1056C	2	10/6 3/8 TRACD (GLU/RAL)
5546C	2	BACKUP POST W8 x 2.5 x 6'-6"
33344A	4	10/12 6/8 TRACD (GLU/RAL)
33383G	2	POST W8 x 13 x 7'-6"
33346G	6	POST W6 x 2.5 x 6'-6"
6141B	8	RTD WD BLOCK 1'-1 (6 x 8)
6142B	4	RTD WD BLOCK 1'-1 (6 x 8 3/4)
6143B	4	RTD WD BLOCK 1'-1 (6 x 9 1/4)
6144B	2	RTD TPED WD BLK 1'-1 (6 x 8 9/16)
6145B	4	RTD TPED WD BLK 1'-1 (6 x 7 1/4)
6146B	2	RTD TPED WD BLK 1'-1 (6 x 5 15/16)
6147B	2	RTD. TPED WD BLK 1'-1 (6 x 3 3/8)
HARDWARE		
3310B	4	5/8" x 11" HGR POST BOLT
3300B	16	5/8" x 10" HGR POST BOLT
3480C	4	5/8" x 6" HGR POST BOLT
4326C	6	5/8" x 4" HGR POST BOLT
3400C	2	5/8" x 2" HGR POST BOLT
3380C	32	5/8" x 1 1/4" HGR SPACE BOLT
3340C	60	5/8" HGR-HEX NUT
3300C	32	5/8" FLAT WASHER (6 HGR POST BOLT)
5404G	12	5/8" x 2" HEX HD BOLT (4326)
4326C	20	6/8" WASHER
3310B	4	5/8" LOCKWASHER
3361G	12	5/8" HEX. NUT



POST NO	HEIGHT
①	2'-5"
②	2'-7 3/8"
③	2'-6 3/4"
④	2'-6 1/8"
⑤	2'-5 1/2"
⑥	2'-4 3/8"
⑦	2'-3 3/8"
⑧	2'-3 3/8"
⑨	2'-3 3/8"

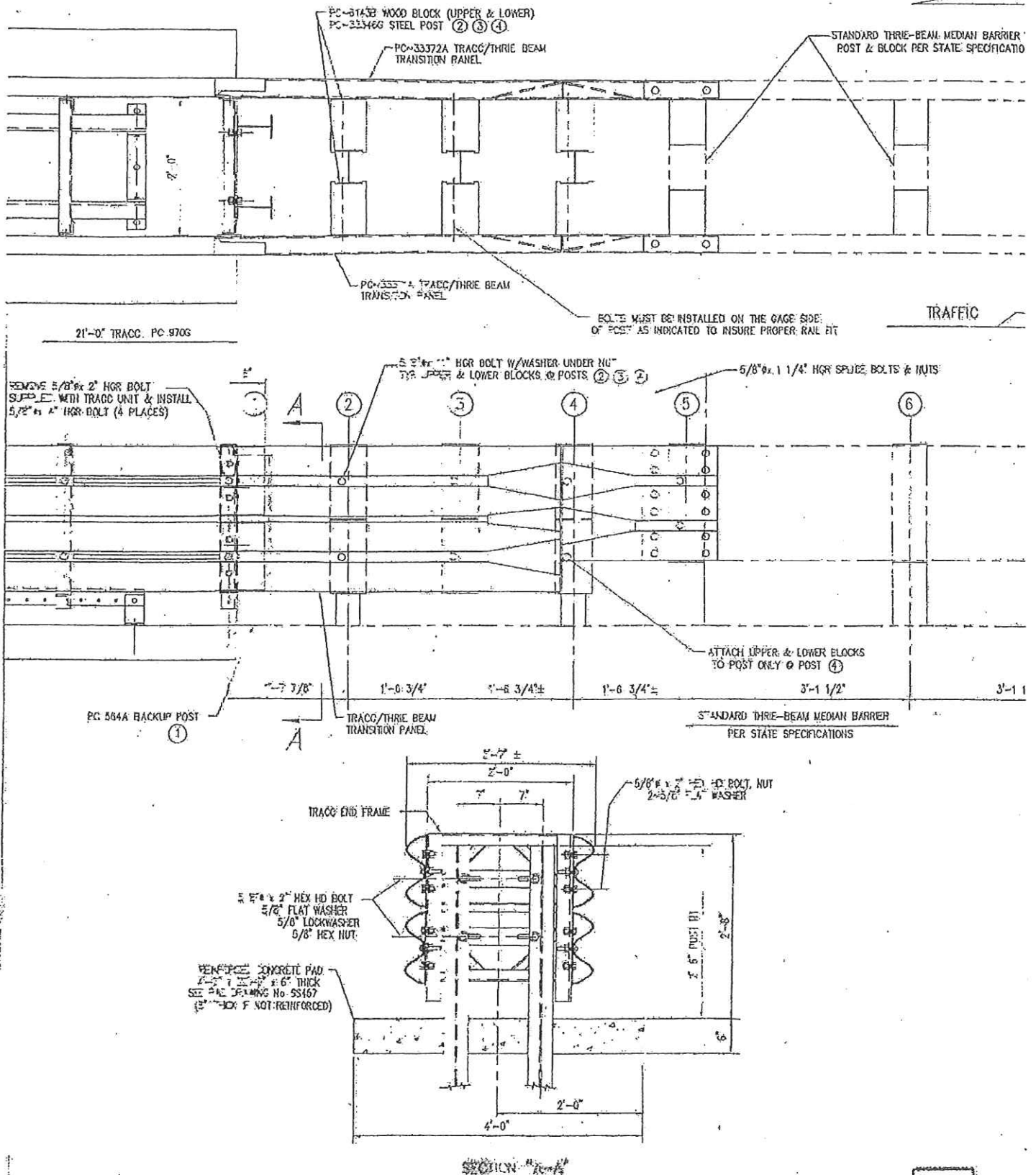
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37

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 36

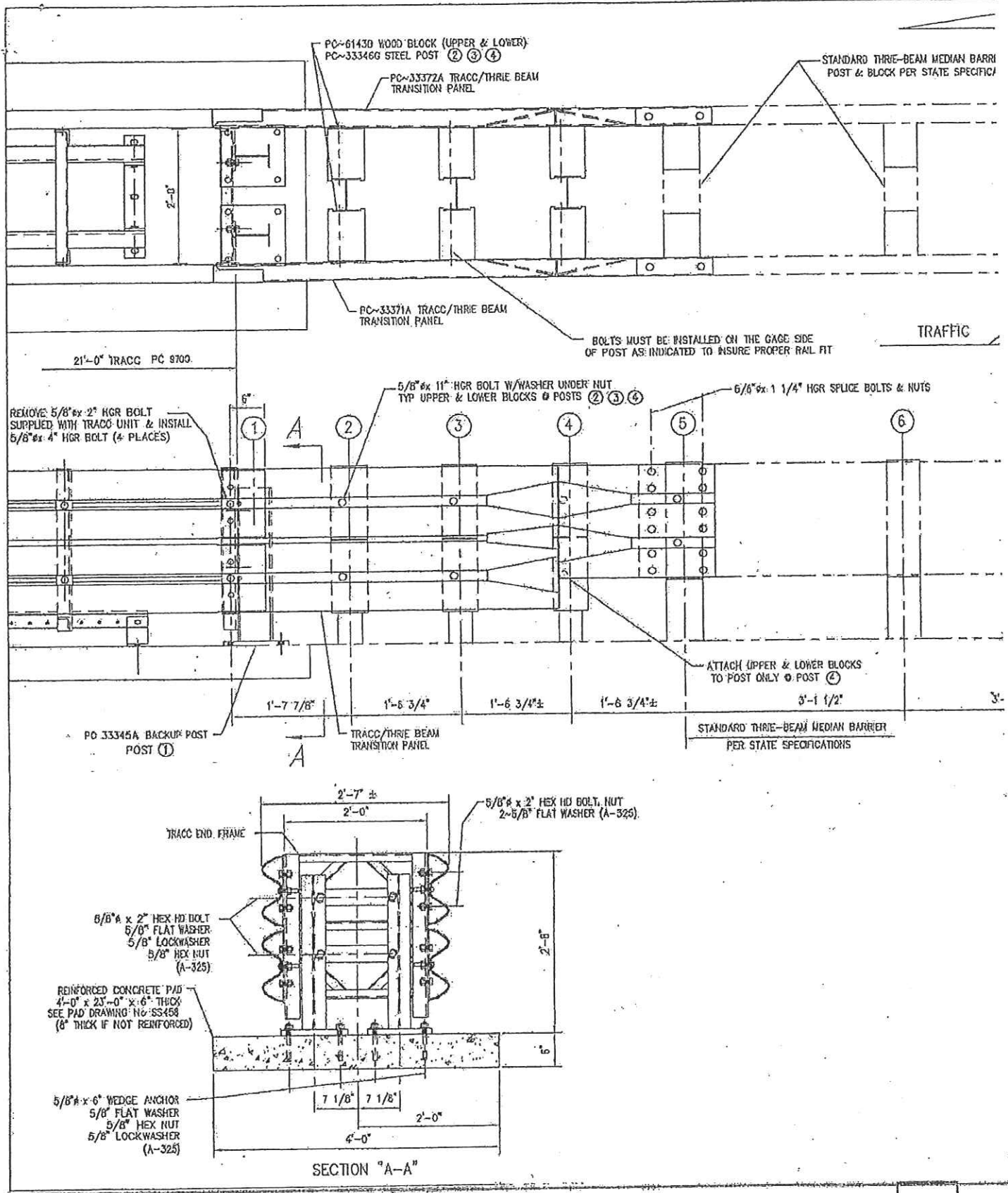


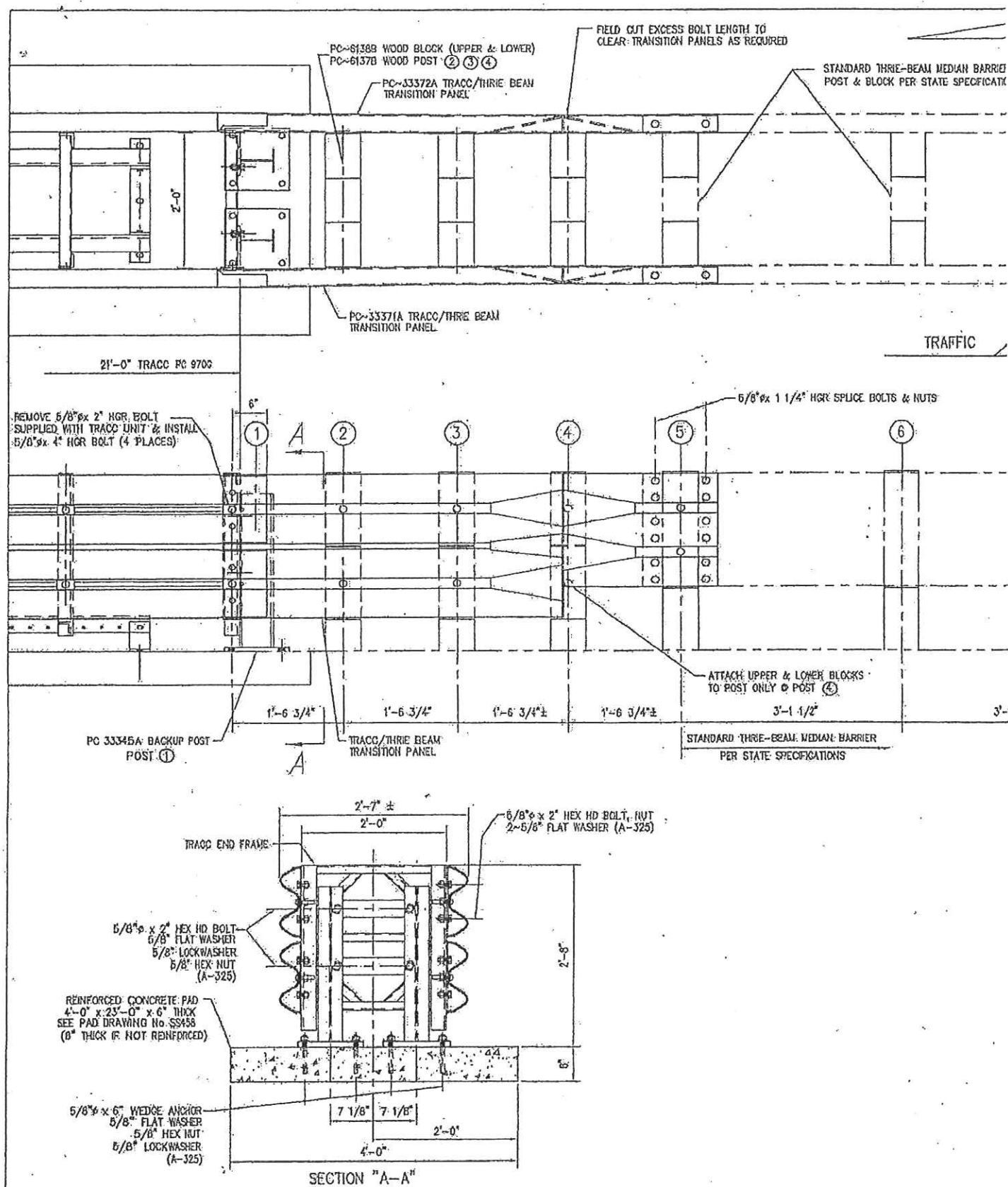


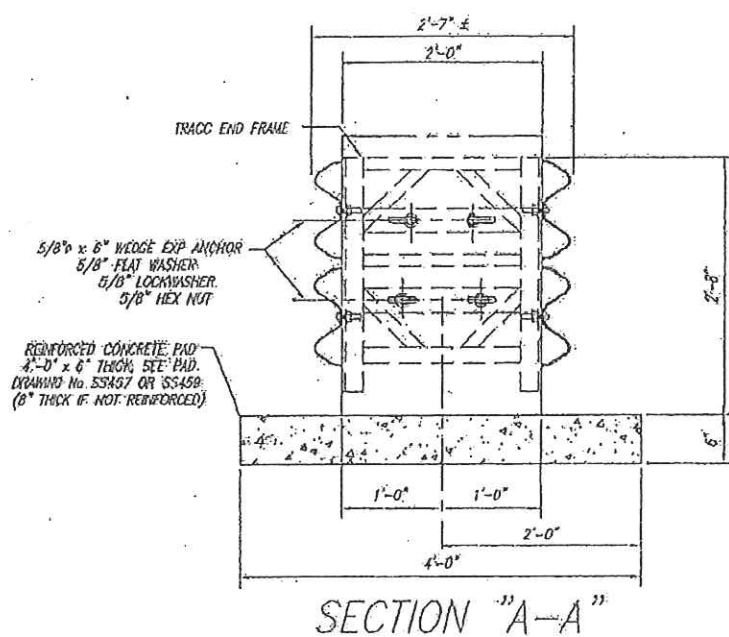
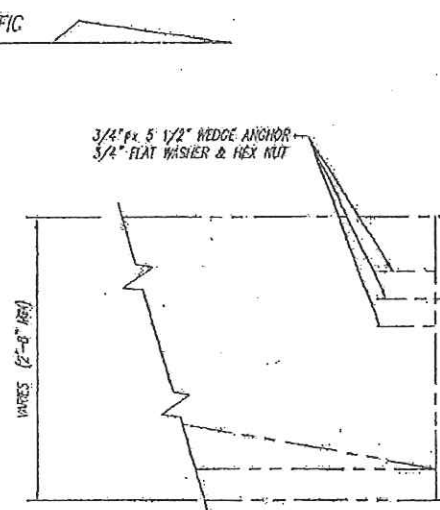
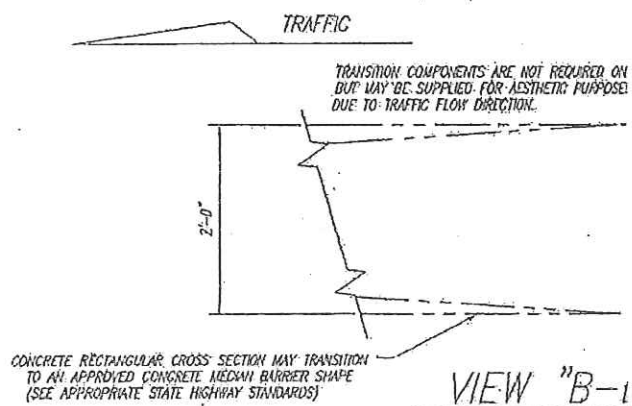
39

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 40

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 39

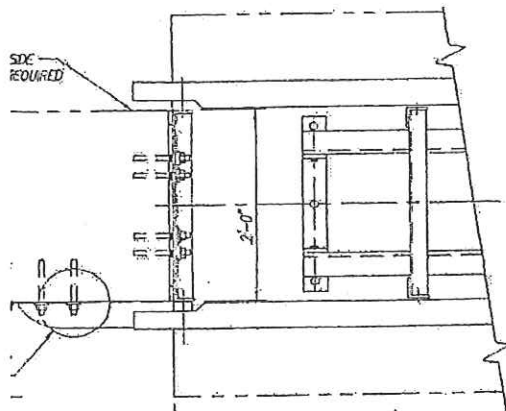




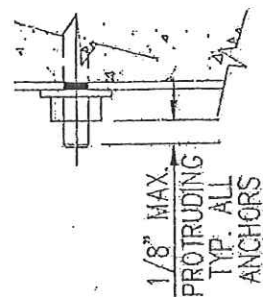
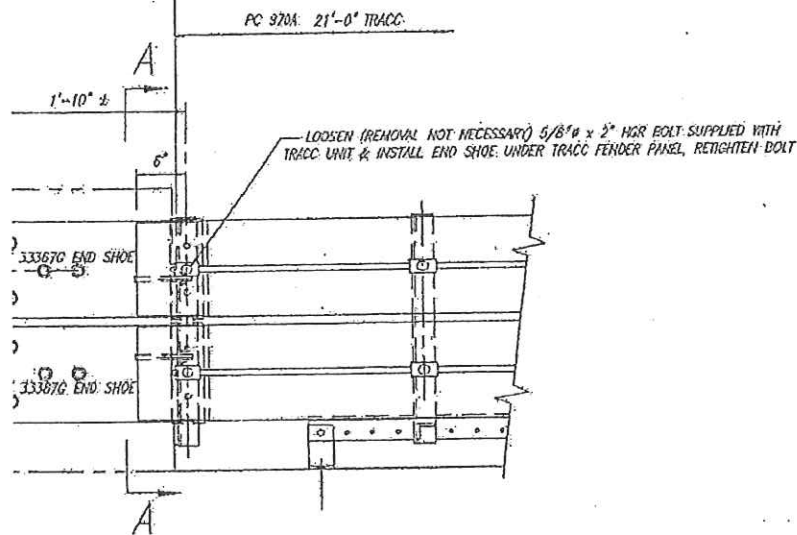


43

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 44



TRACC TRANSITION BILL OF MATERIAL		
PRODUCT CODE	QTY	DESCRIPTION
33367D	2	TRACC 100A END SHOE
HARDWARE		
33102	4	5/8" LOCKWASHER
4451G	4	5/8" x 6" WEDGE EXP. ANCHOR
4688G	8	3/4" x 5 1/2" WEDGE EXP. ANCHOR



"B-B"

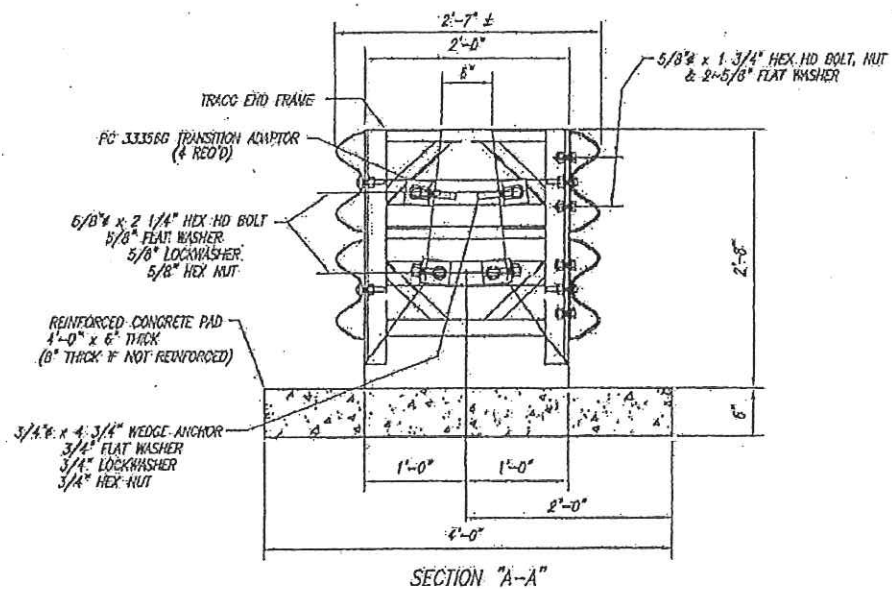
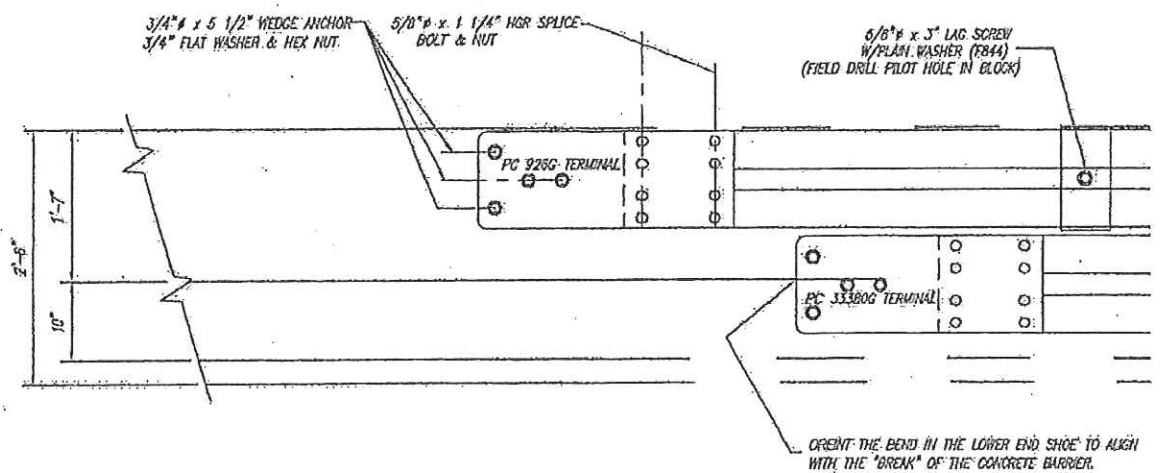
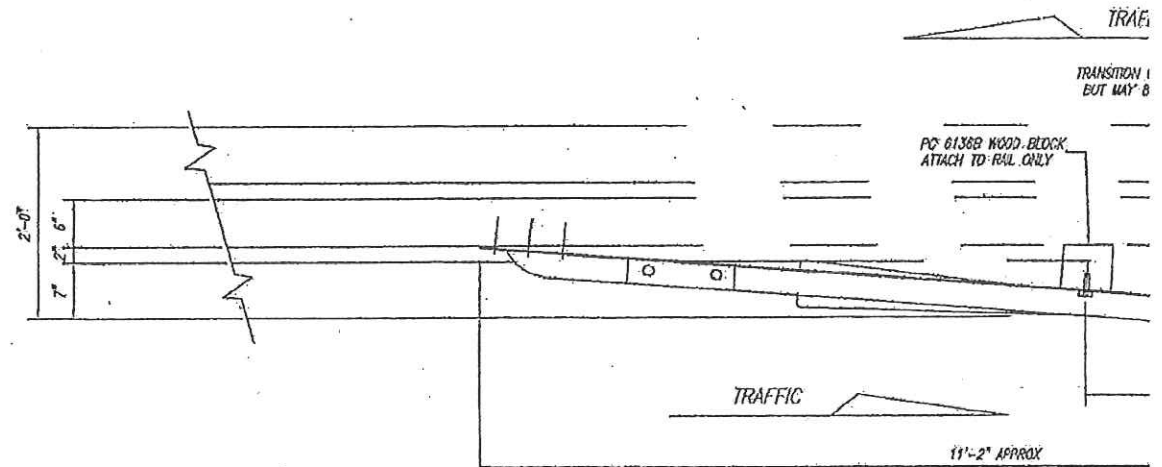
1	B.T.	L.H.	11/19/03	ADDED EXPANSION BOLT VIEW B-B
REV.	CHG'D	BY	DATE	REMARKS
 TRACC				
TRACC TRANSITION TO VERTICAL CONCRETE WALL, PIER, PARAPET OR BARRIER PLAN, ELEVATION & SECTIONS				
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS 2525 STEMMONS FREEWAY, DALLAS, TX 75356				DRAWN B.T. CHECKED APPROVED DATE 9-7-00 EXA FILE J SS456-DIE SHEETS 11 OF 1 DRAWING NO. SS 456 REV. 1

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44

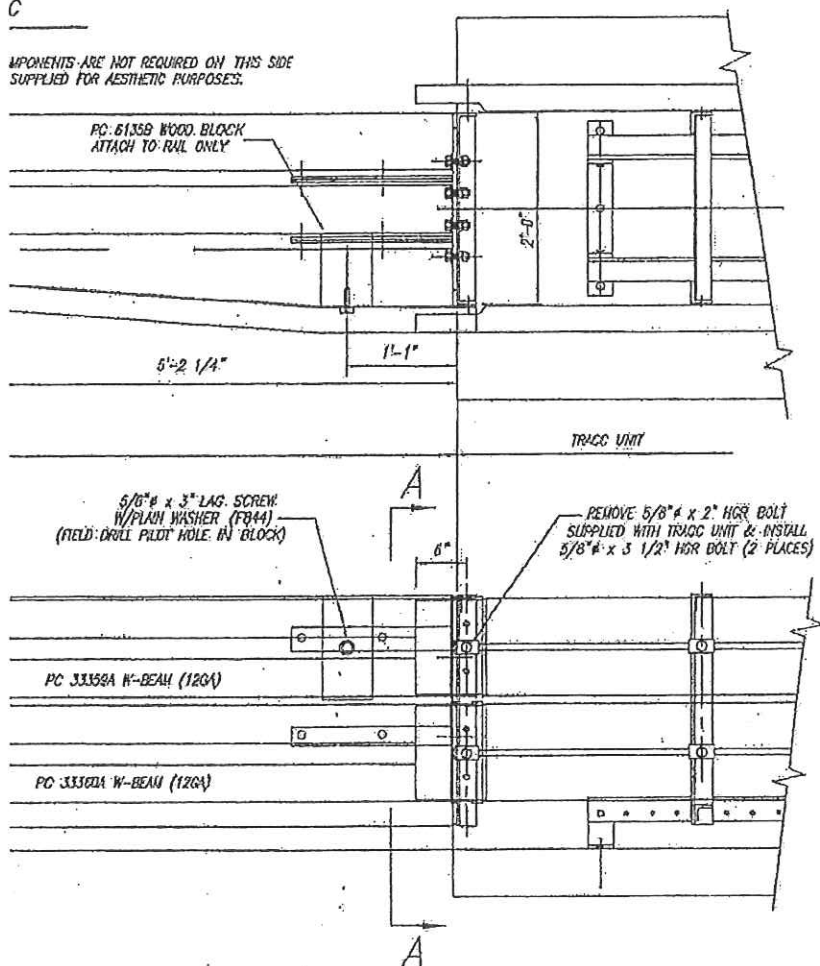
MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 43



MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 46

C

COMPONENTS ARE NOT REQUIRED ON THIS SIDE
SUPPLIED FOR AESTHETIC PURPOSES.



TRACC TRANSITION BILL OF MATERIAL

PRODUCT CODE	QTY	DESCRIPTION
8266	1	10/END SHOE/EXTRA HOLE (UPPER)
61358	1	TAPERED WD BLK 1'-1" (6 x 8 1/2)
61368	1	TAPERED WD BLK 1'-1" (6 x 5 3/4)
333585	4	TRANSITION ADAPTOR PLATE
33358A	1	12/10/0/TRACC (UPPER GUARDRAIL)
33360A	1	12/6/10.5/TRACC (LOWER GUARDRAIL)
33360C	7	10/END SHOE/EXTRA HOLE/BEND (LOWER)
HARDWARE		
3360C	16	5/8" x 1 1/4" HGR SPLICE BOLT
3435G	2	5/8" x 3 1/2" HGR POST BOLT
4412G	2	5/8" x 3" LAG SCREW
4306G	4	5/8" x 2 1/4" HEX HD BOLT (A325)
3391G	4	5/8" x 1 3/4" HEX HD BOLT (A325)
3300G	2	5/8" WASHER (F844)
3340G	16	5/8" HGR NUT
4372G	12	5/8" WASHER (F436)
3310G	4	5/8" LOCKWASHER
3361G	8	5/8" HEX NUT (A583 DH)
4668G	8	3/4" x 5 1/2" WEDGE ANCHOR
6138G	8	3/4" x 4 3/4" WEDGE ANCHOR
4699G	8	3/4" LOCKWASHER
3701G	16	3/4" WASHER
3710G	16	3/4" HEX NUT

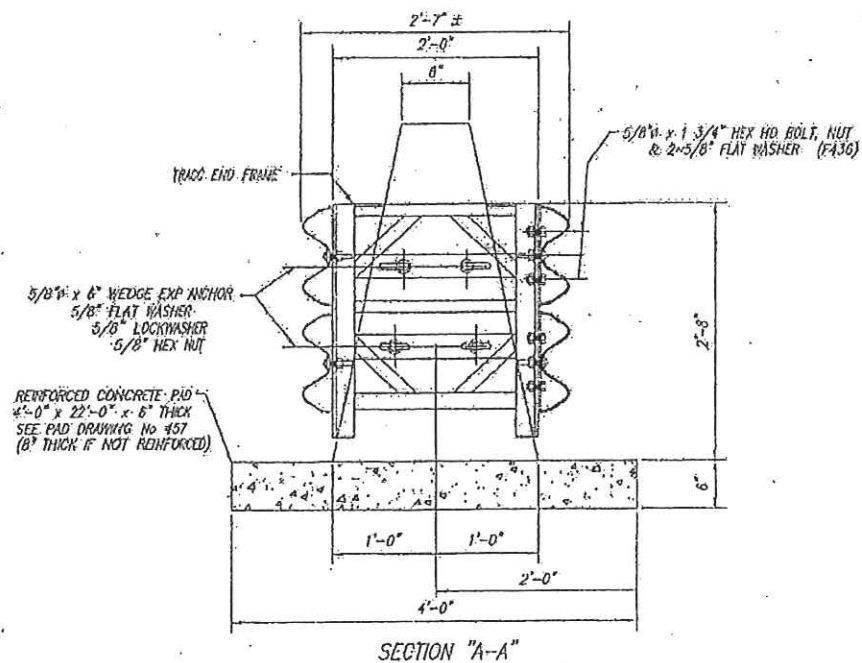
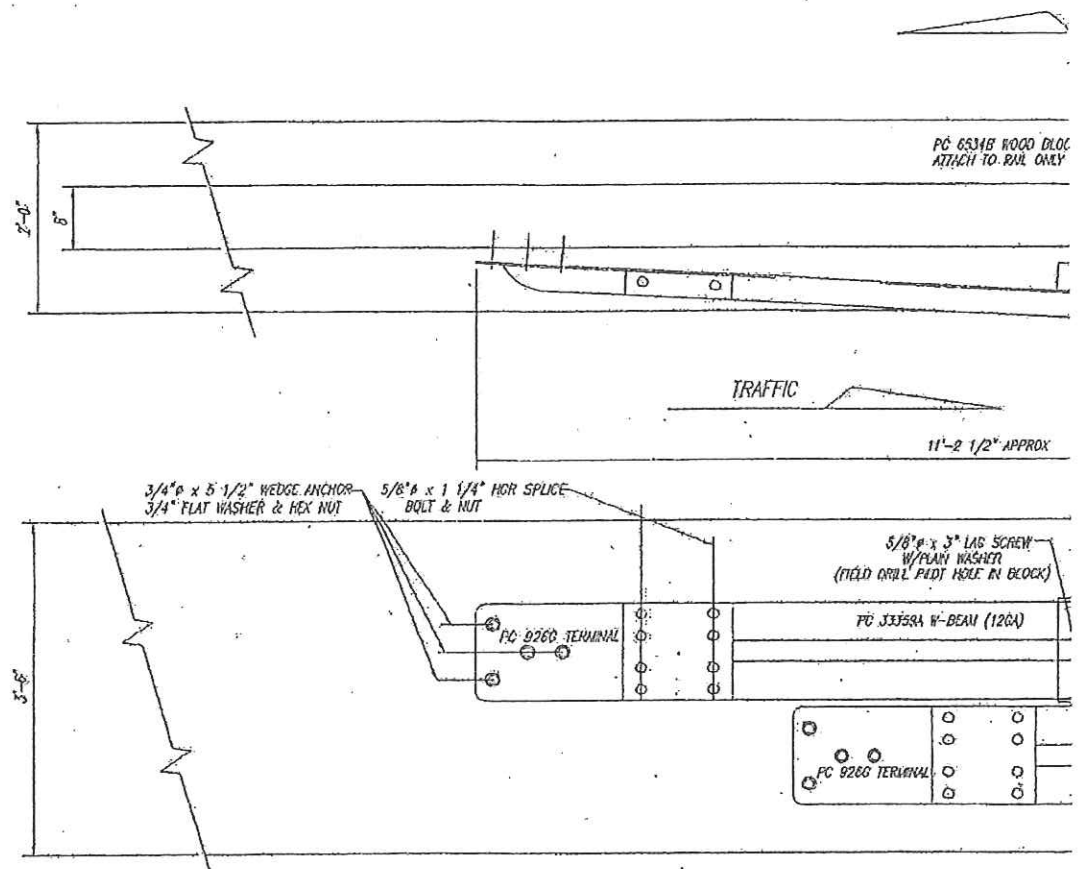
REV.	BY	DATE	REMARKS
6	SAR	6-20-05	UPDATED PART NUMBERS
5	LH	6-18-02	CHANGED BLOCK POSITION ON TOP RAIL: ADDED LOWER END SHOE NOTE
4	BT	8-2-00	DELETED PC4171, PC33361 & 62. ADDED PC329 & PC33380, CHG QTY HARDWARE
3	BT	3-29-00	DELETED PC4421, ADDED PC4412
2	BT	11-5-99	DELETED PC6139, 8140, 8307 & 4411, ADDED PC6135, 8136 & 4412
1	BT	6-30-99	DELETED PC333570 & 33358, ADDED & MORE PC33355; CHG SECT A-A & HGR
			
TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, ELEVATION & SECTIONS			DRAWN BT CHECKED APPROVED DATE 05/10/02 ENG FILE # SS461-01E SHOWN E1 OF 1 DRAWING NO. 46 REV.
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS			

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46

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 45

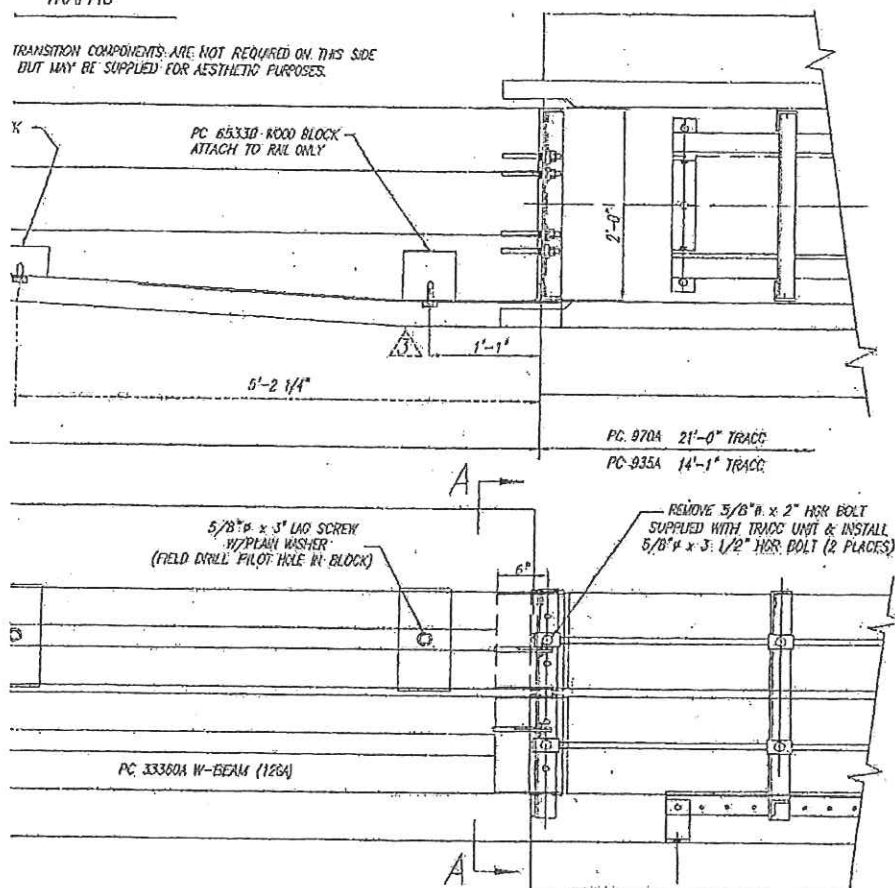


47

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 48

TRAFFIC

TRANSITION COMPONENTS ARE NOT REQUIRED ON THIS SIDE
BUT MAY BE SUPPLIED FOR AESTHETIC PURPOSES.



TRACC TRANSITION BILL OF MATERIAL

PRODUCT CODE	QTY	DESCRIPTION
5266	2	10' END SHOE
65339	1	TAPERED WD BLK 1'-1" (6 1/8" x 8)
65349	1	TAPERED WD BLK 1'-1" (6 x 3 3/4)
333581	1	12/10/0" TRACC (UPPER GUARDRAIL)
333601	1	12/6/10.5" TRACC (LOWER GUARDRAIL)
HARDWARE		
33606	16	5/8" x 1 1/4" HGR SPICE BOLT
33916	4	5/8" x 1 3/4" HEX BOLT
34355	2	5/8" x 3 1/2" HGR POST BOLT
44120	2	5/8" x 3" LAG SCREW
33005	6	5/8" WASHER (F844)
33406	16	5/8" HGR NUT
43720	8	5/8" WASHER (F438)
33106	4	5/8" LOCKWASHER
33916	8	5/8" HEX NUT (A563 DH)
44516	4	5/8" x 6" WEDGE EXP ANCHOR
4E882	8	3/4" x 5 1/2" WEDGE EXP ANCHOR
37010	8	3/4" WASHER
37106	8	3/4" HEX NUT

4	UH	08/27/03	REVISED QUANTITY OF 3/4" NUTS/WASHERS
3	BT	01/29/03	CHANGED BLOCK LOCATION
2	UH	01/21/03	CHANGED BLOCKS & THEIR LOCATION ON TOP PANEL
1	BT	8-2-00	DELETED PC33351 & PC 4717, ADDED PC926, CHG QTY HARDWARE

REV. CHKD BY DATE

REMARKS

TRACC

TRACC TRANSITION TO
CONCRETE BARRIER SINGLE SLOPE
PLAN, ELEVATION & SECTIONS

DRAWN B.T.

DESIGNED

APPROVED

DATE 11/05/99

DWG FILE # 55162-01E

SHEET 1 OF 1

SS 462

REV. 4

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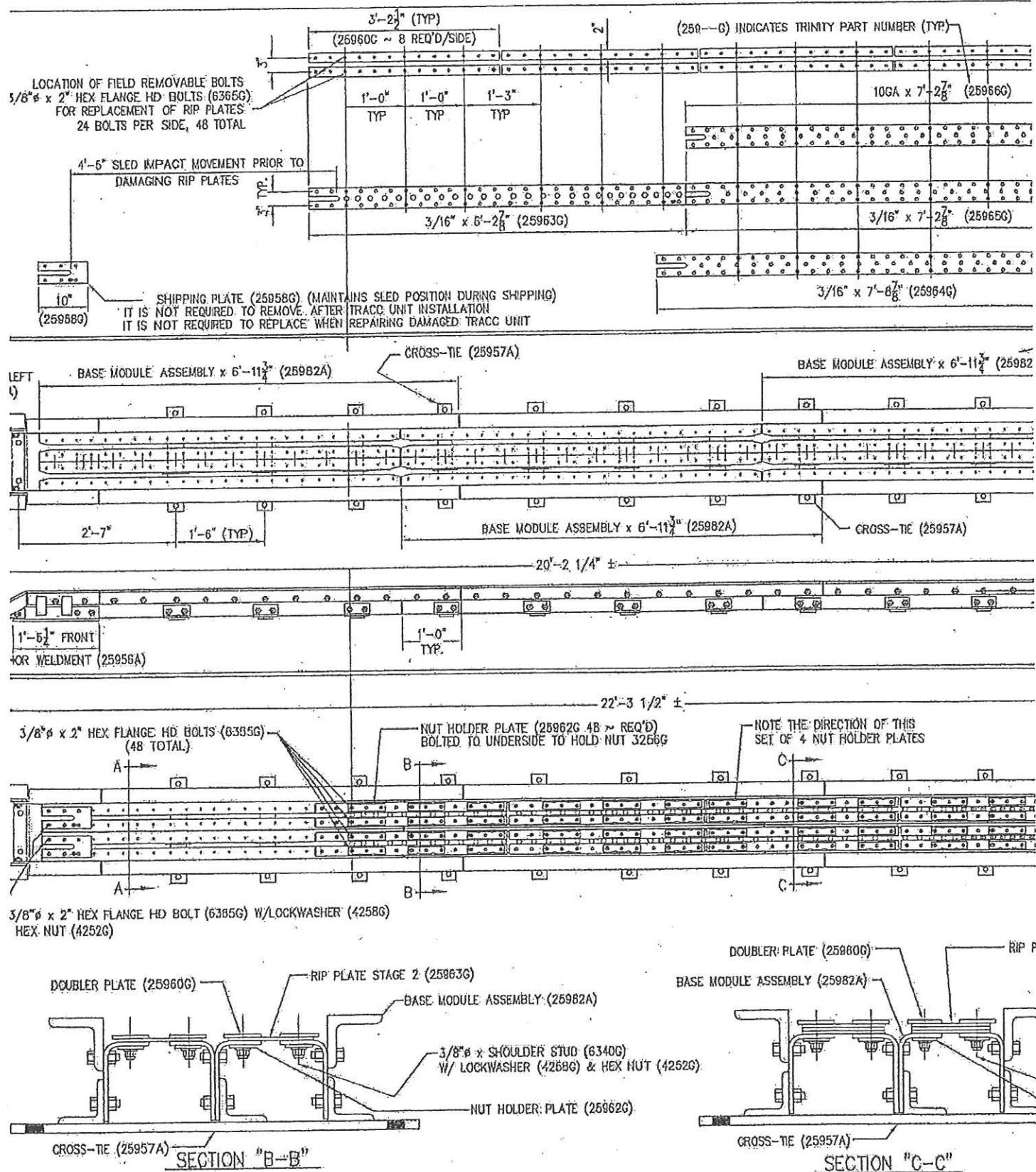
TRINITY INDUSTRIES, INC.

HIGHWAY SAFETY PRODUCTS

2520 STEVENS FREEWAY, DALLAS, TX 75356

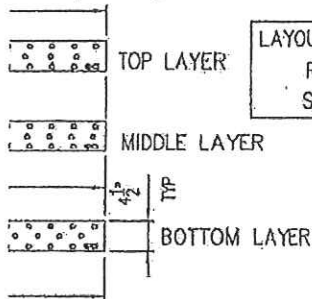
48

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 47



MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 50

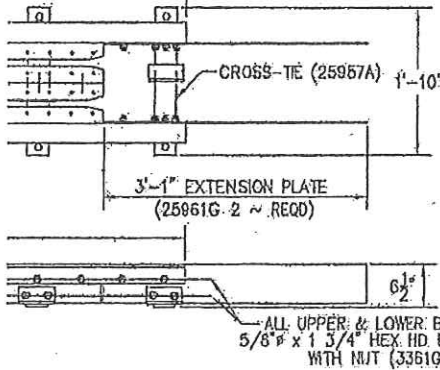
DOUBLER PLATES



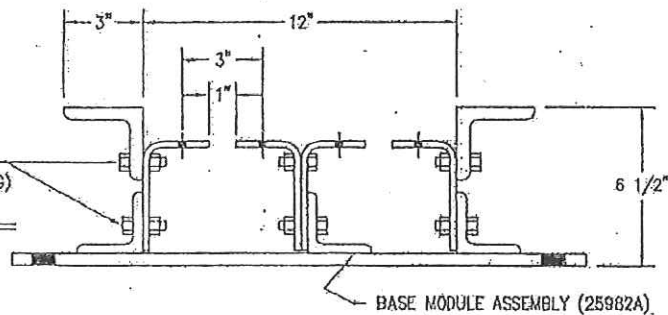
LAYOUT SCHEMATIC, TOP VIEW
RIP PLATES FOR ONE
SIDE OF TRACC BASE

TRACC BASE (25981A) BILL OF MATERIALS				
Part #	Description	Qty	WT. EACH (#)	TOTAL WT.
03258G	3/8" Shoulder Nut	40	0.030	1.44
03361G	5/8" Heavy Hex Nut (A563 DH)	40	0.120	4.8
03391G	5/8" x 1 3/4" Hex Head Bolt (A825)	40	0.210	8.4
04252G	3/8" Hex Nut	180	0.030	5.4
04258G	3/8" Lock Washer	180	0.006	1.08
06340G	3/8" X 1 1/2" Shoulder Stud	178	0.060	10.68
06366G	3/8" x 2" Hex Flange Head Bolt (GR-5)	50	0.070	3.5
25954A	End Shoe, Right	1	11.000	11
25955A	End Shoe, Left	1	11.000	11
25956A	Front Anchor Weldment	1	67.000	67
25957A	Cross Tie	3	18.000	54
25958G	Rip Plate, Stage 1 (Shipping Plate)	2	0.800	1.6
25959G	Doublers	16	8.000	128
25961G	Extension Plate, Rear	2	16.000	32
25962G	Nut Holder (Nut Retainer Plate)	48	0.600	24
25963G	Rip Plate, Stage 2	2	17.000	34
25964G	Rip Plate, Stage 3, Bottom	2	22.000	44
25965G	Rip Plate, Stage 3, Middle	2	20.000	40
25966G	Rip Plate, Stage 3, Top	2	16.000	32
25982A	Base Module Assembly	3	328.000	987
			TOTAL WEIGHT	1498.80

NOTE:
SEE DRAWING PN 25982 FOR ASSEMBLY
OF BASE MODULE COMPONENTS.



TRACC BASE ASSEMBLY
WITHOUT RIP PLATES
AND DOUBLER PLATES



SECTION "A-A"

COMPLETE TRACC BASE ASSEMBLY
WITH RIP PLATES AND DOUBLERS

ES STAGE: 3
(TOP) (25966G)
(MIDDLE) (25965G)
(BOTTOM) (25964G)

3/8" x 1 1/2" SHOULDER STUD (06340G)
W/ LOCKWASHER (04258G) & HEX NUT (04252G)

NUT HOLDER PLATE (25962G)

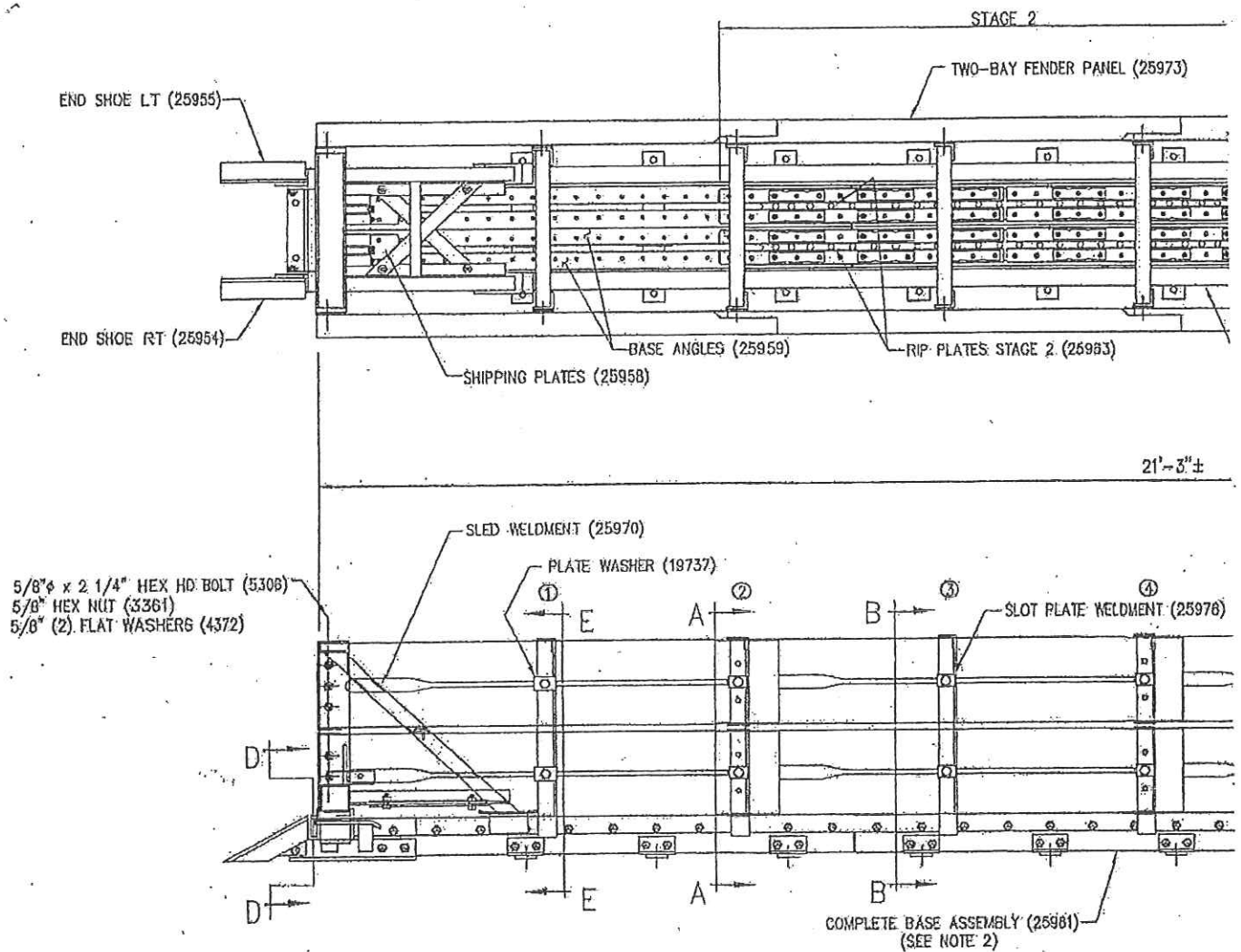
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2	SAR	6/17/05	UPDATED PART NUMBERS
1	SC BT	5/13/05	REPLACED BEAM GUIDES & BASE ANGLES WITH BASE MODULES
REV.	CHG'D	BY	DATE
REMARKS			
TRACC CRASH-CUSHION ATTENUATING TERMINAL ASSEMBLED BASE UNIT PN 25981			
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS 2525 STEVENS FREEWAY, DALLAS, TX 75207			
DRAWN		BT/LH	
CHECKED		B.T.	
APPROVED			
DATE		04/22/05	
DWA FILE #		SS1001-01E	
SHEET #		E1 OF 1	
DRAWING NO.		SS 1001/PN 25981	
REV.		2	

50

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 49

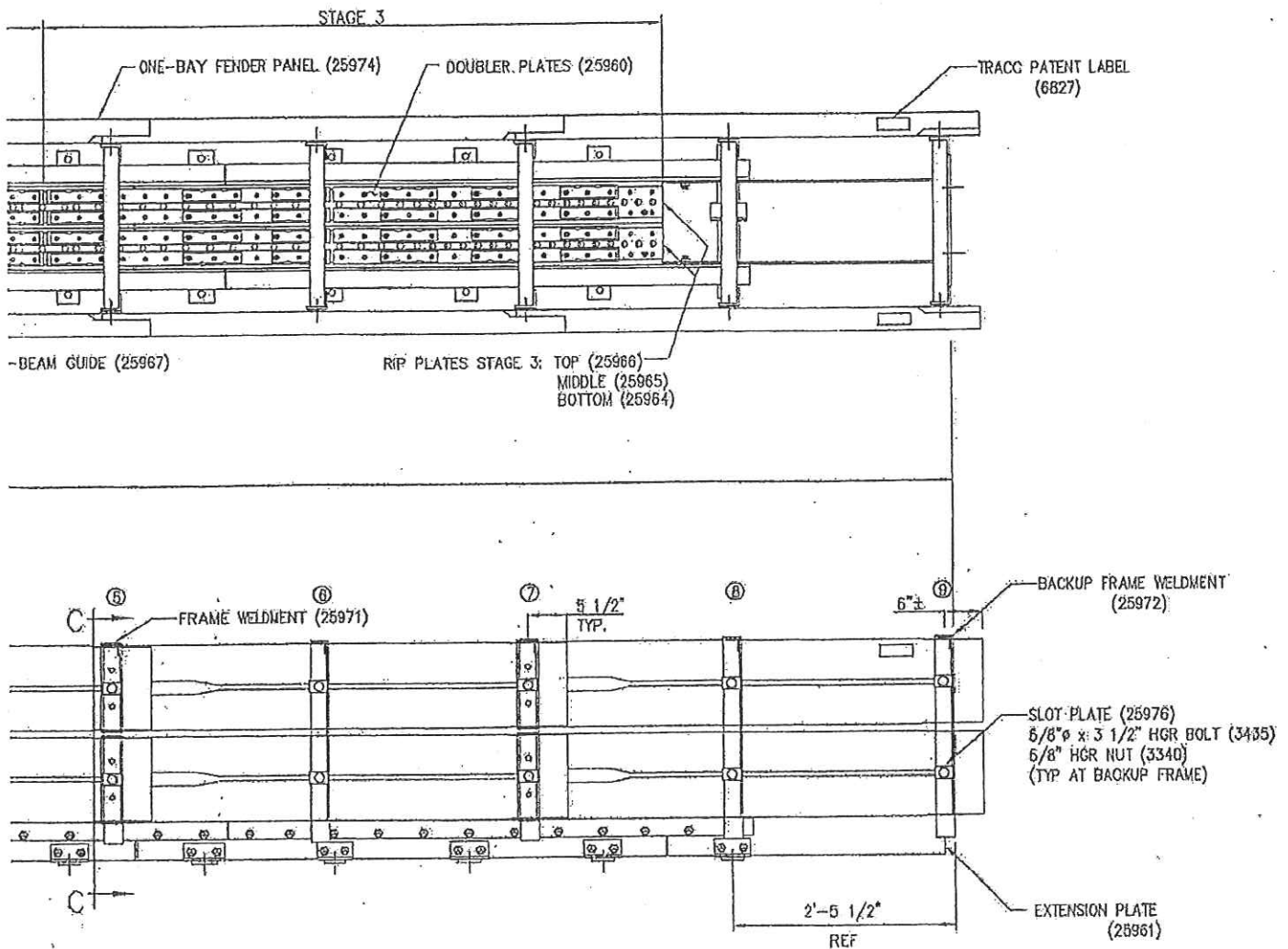


TRACC. BILL OF MATERIAL (PN 25980)			
PART NUMBER	QTY	DESCRIPTION	WT/EA
19737G	12	1/4"x3"x2 1/4" TRACC WSHR	0.5#
25970A	1	SLED WELDMENT	185#
25971A	8	FRAME WELDMENT	60#
25972A	1	BACKUP FRAME WELDMENT	74#
25973A	16	TWO - BAY FENDER PANEL	49#
25974A	4	ONE - BAY FENDER PANEL	28#
25975A	2	SHREDDER ASSEMBLY	6#
25976A	32	SLOT PLATE	0.4#
25981A	1	ASSEMBLED BASE (NOTE 2)	1499#
TOTAL WEIGHT (EXCLUDES SHOP HRDWR)			3185#

SHOP HARDWARE (CALV A153)			
PART NUMBER	QTY	DESCRIPTION	MATL SPEC
3253G	2	HITCH PIN CLIP	
3340G	32	5/8" HGR NUT	A563 GR. A
3361G	46	5/8" HEX NUT	A563 GR. DH
3391G	32	5/8" x 1 3/4" HEX HD. BOLT	A325
3400G	12	5/8" x 2" HGR BOLT	A307 GR. A
3435G	20	5/8" x 3 1/2" HGR BOLT	A307 GR. A
4372G	88	5/8" FLAT WASHER	F436
4425G	2	3/4" x 2" CLEVIS PIN	
5306G	14	5/8" x 2 1/4" HEX HD. BOLT	A325
6827B	2	TRACC PATENT LABEL	

51

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 52



NOTES:

- 1.) FOR SECTIONAL VIEWS SEE SHEET E2 OF 2.
- 2.) SEE DRAWING: SS1001 (PN 25981) FOR ASSEMBLY OF ALL BASE COMPONENTS.

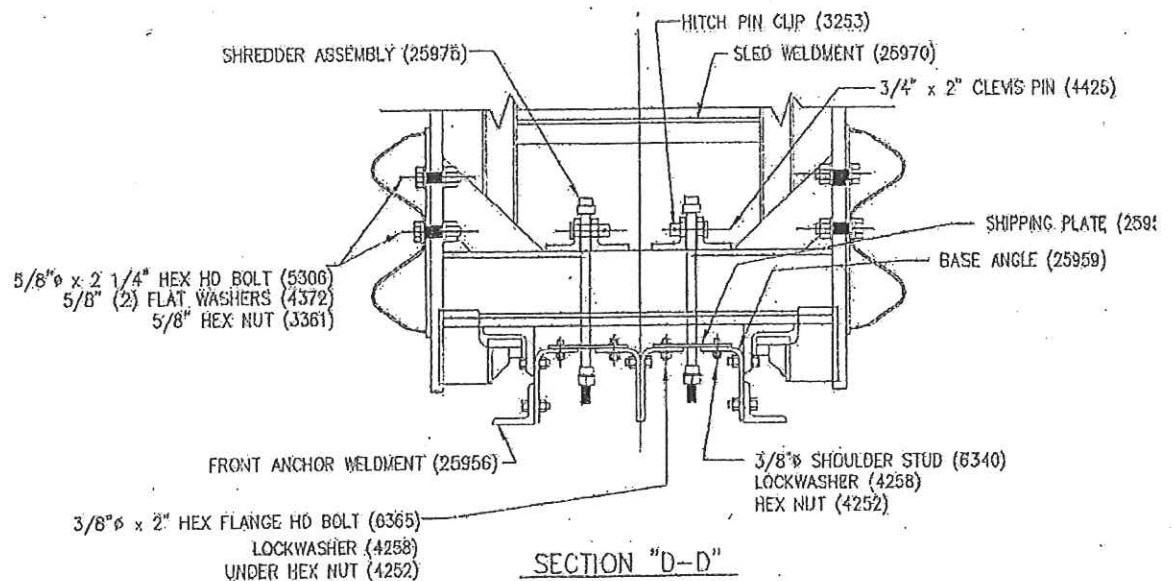
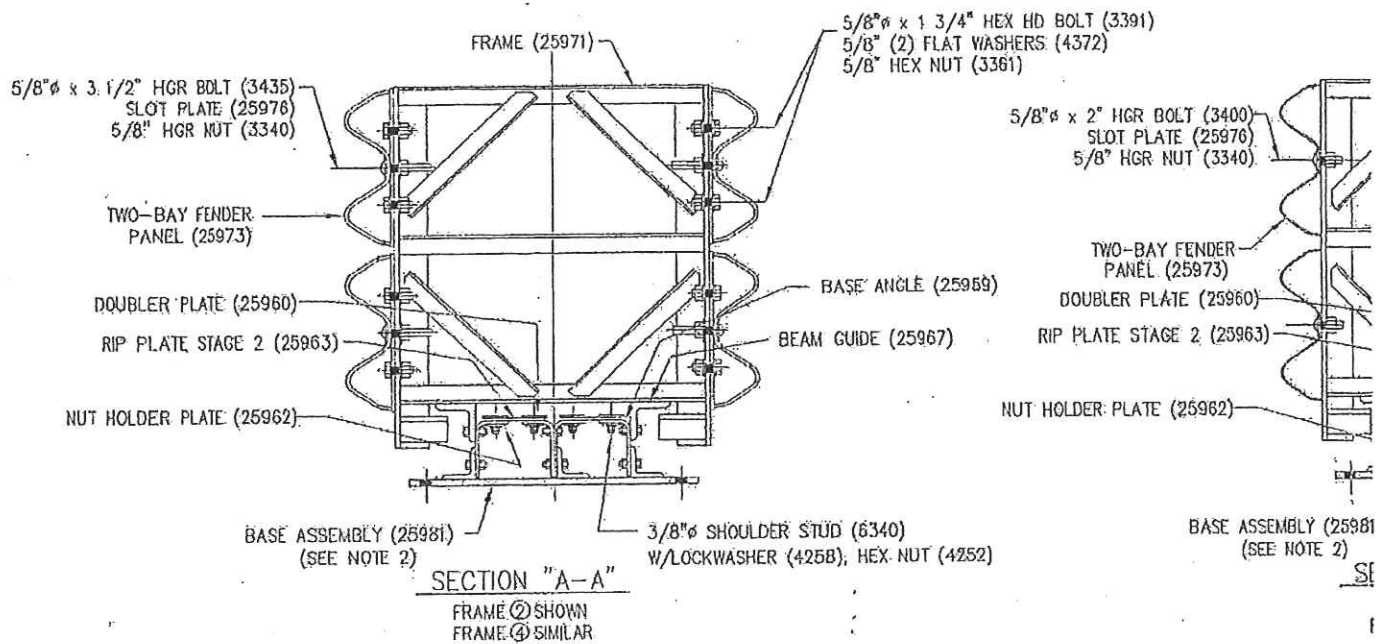
REV.	DATE	BY	DATE	REMARKS
1	6/18/05	SAR		FIXED WEIGHT & ADDED STAGES 2 & 3
 TRACC CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION, & SECTION SHOP ASSEMBLY DETAILS PN 25980				
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS 2625 STEMMONS FREEWAY, DALLAS, TX 75207				DRAWN LH CHECKED BY APPROVED DATE 05/11/05 Dwg. FILE # SS1002-01E RETURN E1 OF 2 DRAWING NO. 100-1000-001-00001

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PROPERTY OF TRINITY INDUSTRIES, INC.

52

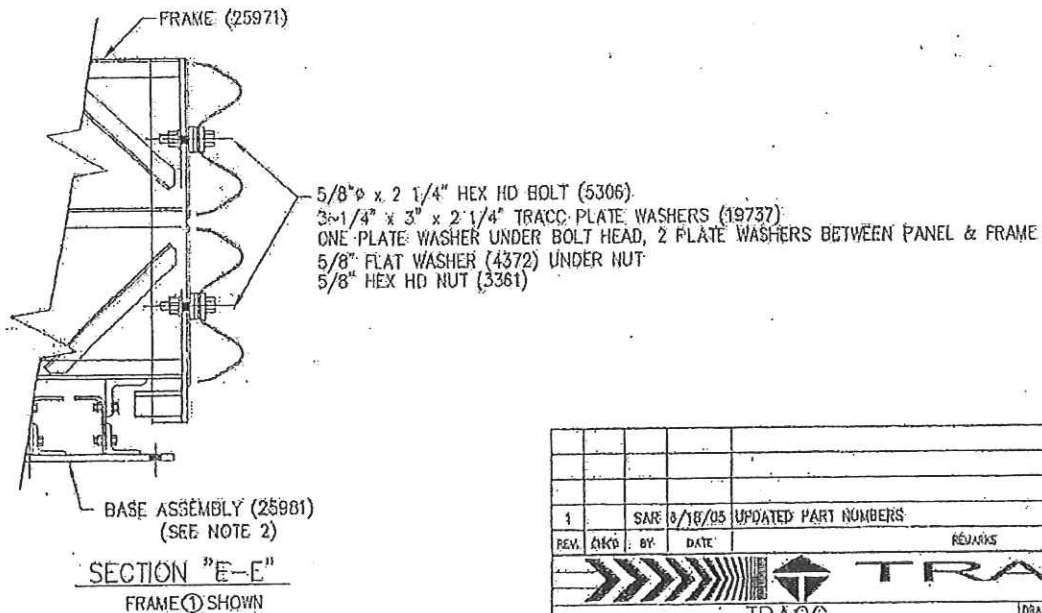
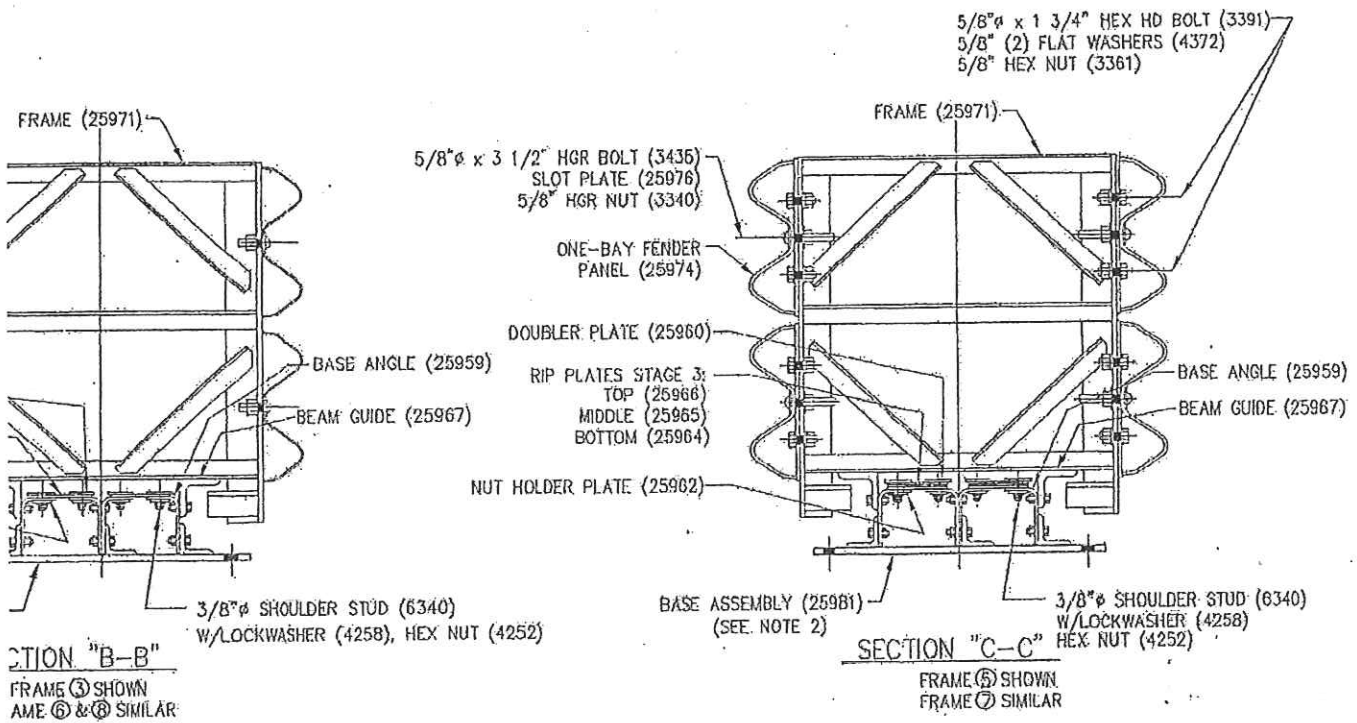
MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 51



- NOTES:**
1.) FOR PLAN & ELEV
2.) SEE DRAWING SSII
OF ALL BASE COM

53

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 54



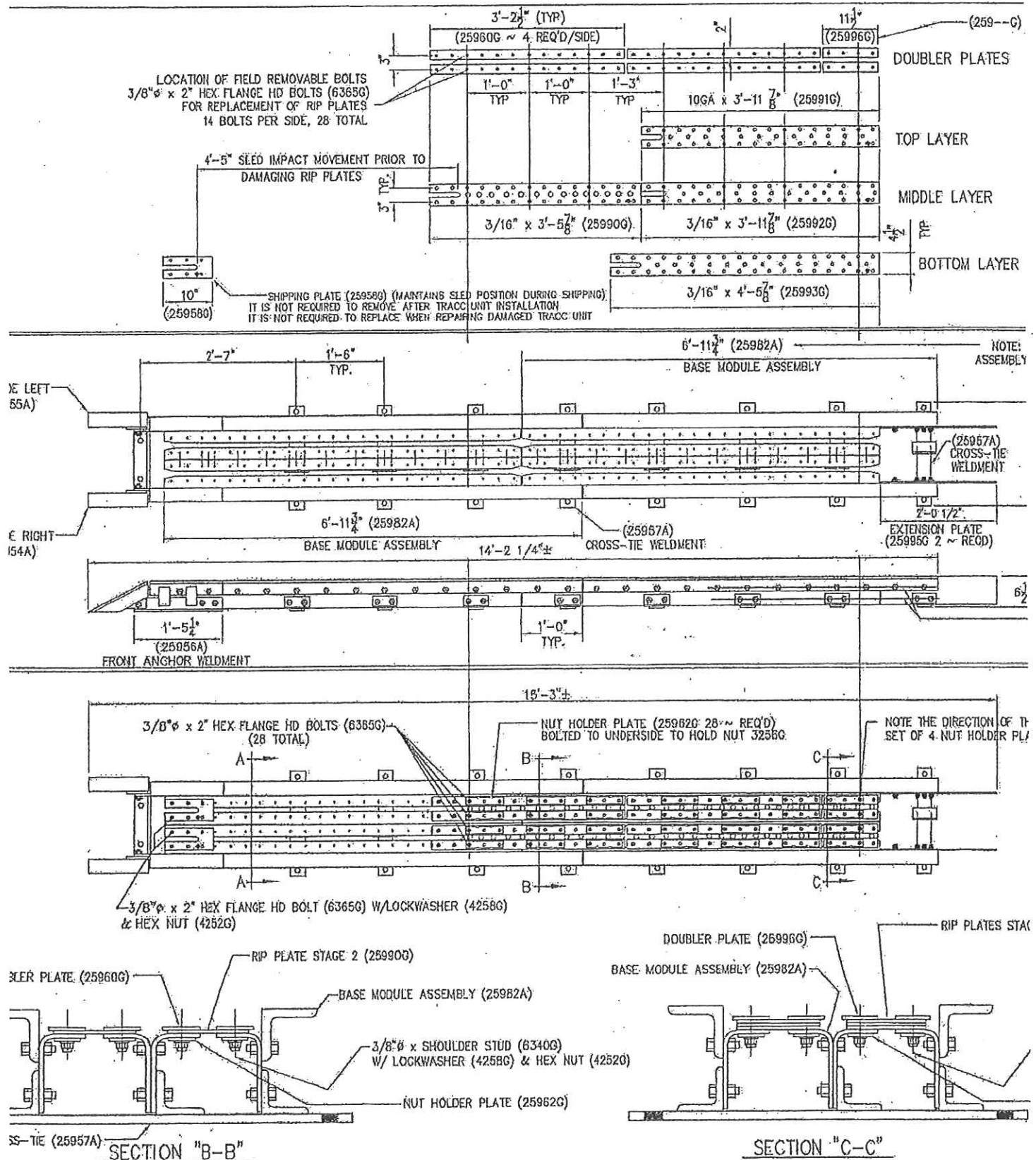
NON VIEW SEE SHEET E1 OF 2.
11 (PN 25981) FOR ASSEMBLY
INENTS.

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any purpose other than that for which it was prepared.

1	SAF	8/18/05	UPDATED PART NUMBERS	REMARKS
REV.	CHKD	BY	DATE	REMARKS
 TRACC CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS SHOP ASSEMBLY DETAILS PN 25980				
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS				DRAWN L.H. CHECKED B.T. APPROVED DATE 05/11/05 ENG. FILE # SS1002-02E SKETCH E2 OF 2 DRAWING NO.

54

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 53



55

MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 56

INDICATES TRINITY PART NUMBER (TYP)

LAYOUT SCHEMATIC, TOP VIEW
RIP PLATES FOR ONE
SIDE OF TRACC BASE

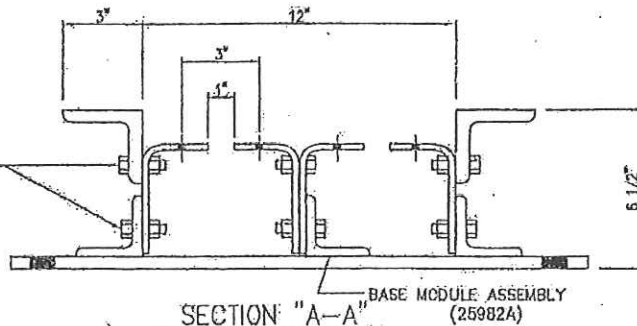
DRAWING PN 25982 FOR
BASE MODULE COMPONENTS

TRACC BASE ASSEMBLY
WITHOUT RIP PLATES
AND DOUBLER PLATES

SHORTRACC BASE (25994A) BILL OF MATERIALS

Part #	Description	Qty	WT. EACH (#)	TOTAL WT.
03256G	3/8" Shoulder Nut	28	0.03	0.84
03361G	5/8" Heavy Hex Nut (A563 DH)	30	0.12	3.6
03391G	5/8" x 1 3/4" Hex Head Bolt (A325)	30	0.21	6.3
04252G	3/8" Hex Nut	104	0.03	3.12
04258G	3/8" Lock Washer	104	0.006	0.624
06340G	3/8" X 1 1/2" Shoulder Stud	102	0.06	6.12
06365G	3/8" x 2" Hex Flange Head Bolt (GR-5)	30	0.07	2.1
25954A	End Shoe, Right	1	11.0	11
25955A	End Shoe, Left	1	11.0	11
25956A	Front Anchor Weldment	1	67.0	67
25957A	Cross Tie	2	18.0	36
25958G	Rip Plate, Stage 1 (Shipping Plate)	2	0.80	1.6
25960G	Doublers	8	8.0	64
25962G	Nut Holder (Nut Retainer Plate)	28	0.50	14
25982A	Base Module Assembly	2	329	658
25990G	Rip Plate, Stage 2	2	9.0	18
25991G	Rip Plate, Stage 3, Top	2	8.0	16
25992G	Rip Plate, Stage 3, Middle	2	11.0	22
25993G	Rip Plate, Stage 3, Bottom	2	12.0	24
25995G	Extension Plate, Rear	2	11.0	22
25996G	Doubler Plate, Stage 3 (1 1/2")	4	2.5	10
TOTAL WEIGHT				997

ALL UPPER & LOWER BOLTS ARE
5/8" x 1 3/4" HEX HD BOLT (3391G)
WITH NUT (3361G)



COMPLETE TRACC BASE ASSEMBLY
WITH RIP PLATES AND DOUBLERS.

(TOP) (25991G)
(MIDDLE) (25992G)
(BOTTOM) (25993G)

3/8" x SHOULDER STUD (6340G)
// LOCKWASHER (4258G) & HEX-NUT (4252G)

NUT HOLDER PLATE (25962G)

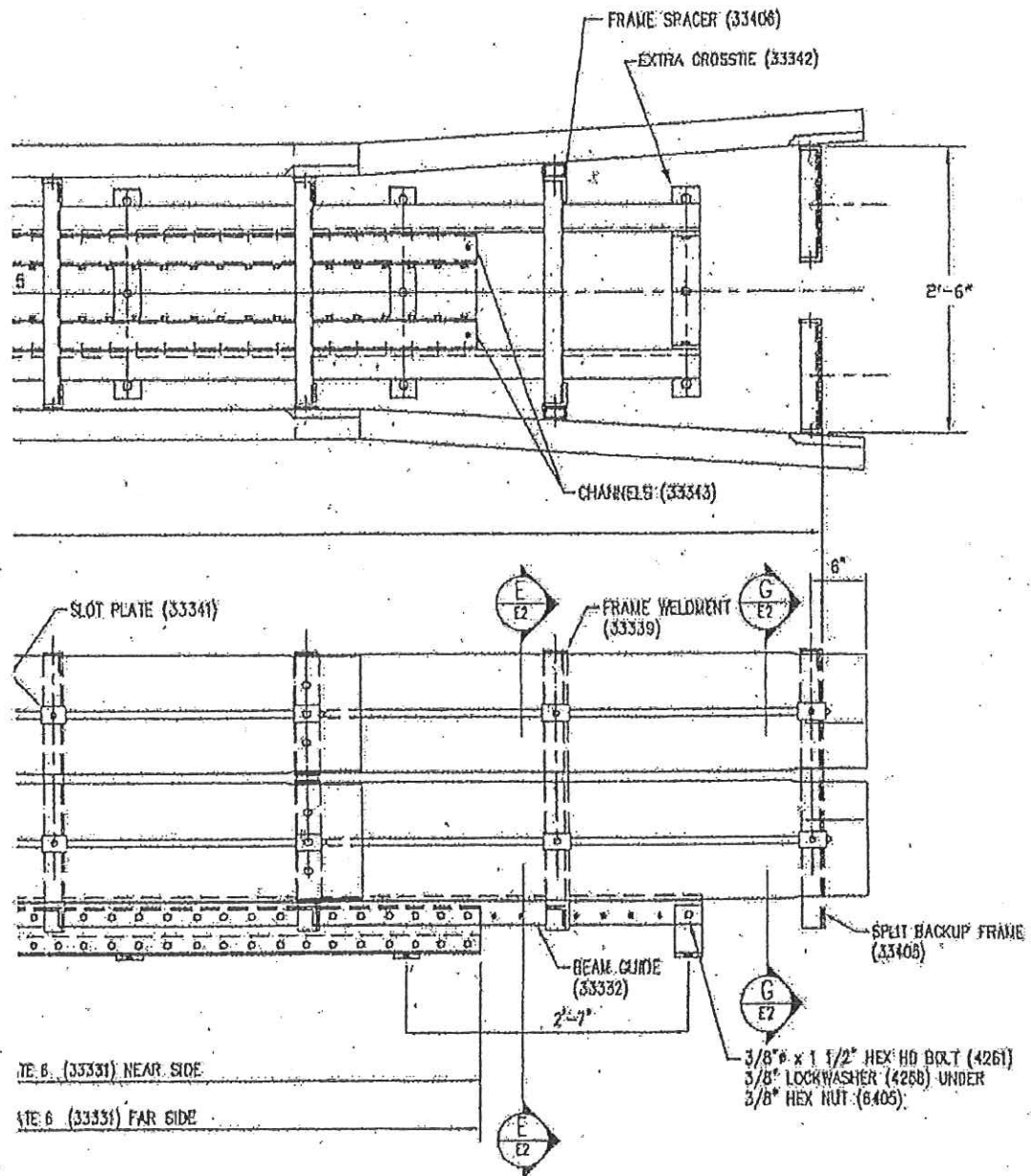
COPYRIGHT © 2005 TRINITY INDUSTRIES INC.

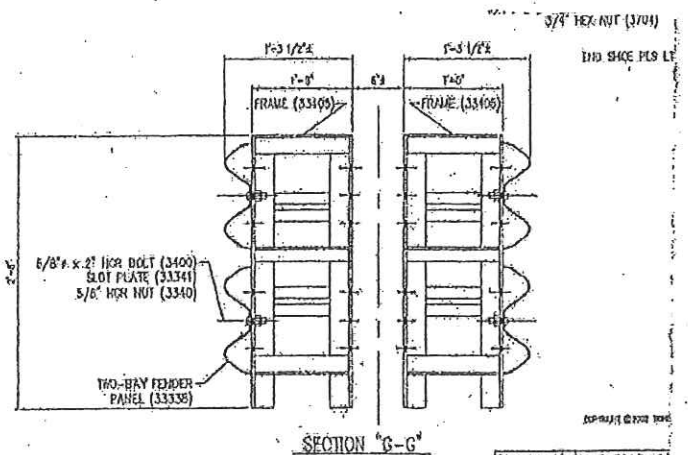
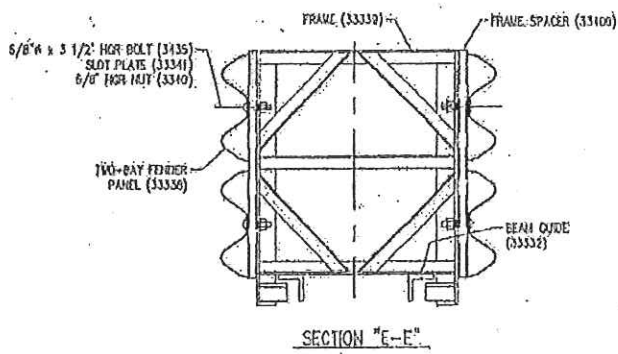
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1	SAR 6/17/05	UPDATED PART NUMBERS
REV.	OK'D	BY DATE
REMARKS		
SHORTRACC CRASH-CUSHION ATTENUATING TERMINAL ASSEMBLED BASE UNIT PN 25994		
TRINITY INDUSTRIES, INC. HIGHWAY SAFETY PRODUCTS 2525 STEAKHORN FREEWAY, DALLAS, TX 75207		
DRAWN	LH	
CHECKED	BLT	
APPROVED		
DATE	05/16/05	
ENCL. FILE #	SS1004-01E	
SHEET	ET OF 1	
DRAWING NO.	SS 1004 / PN 25994	REV.

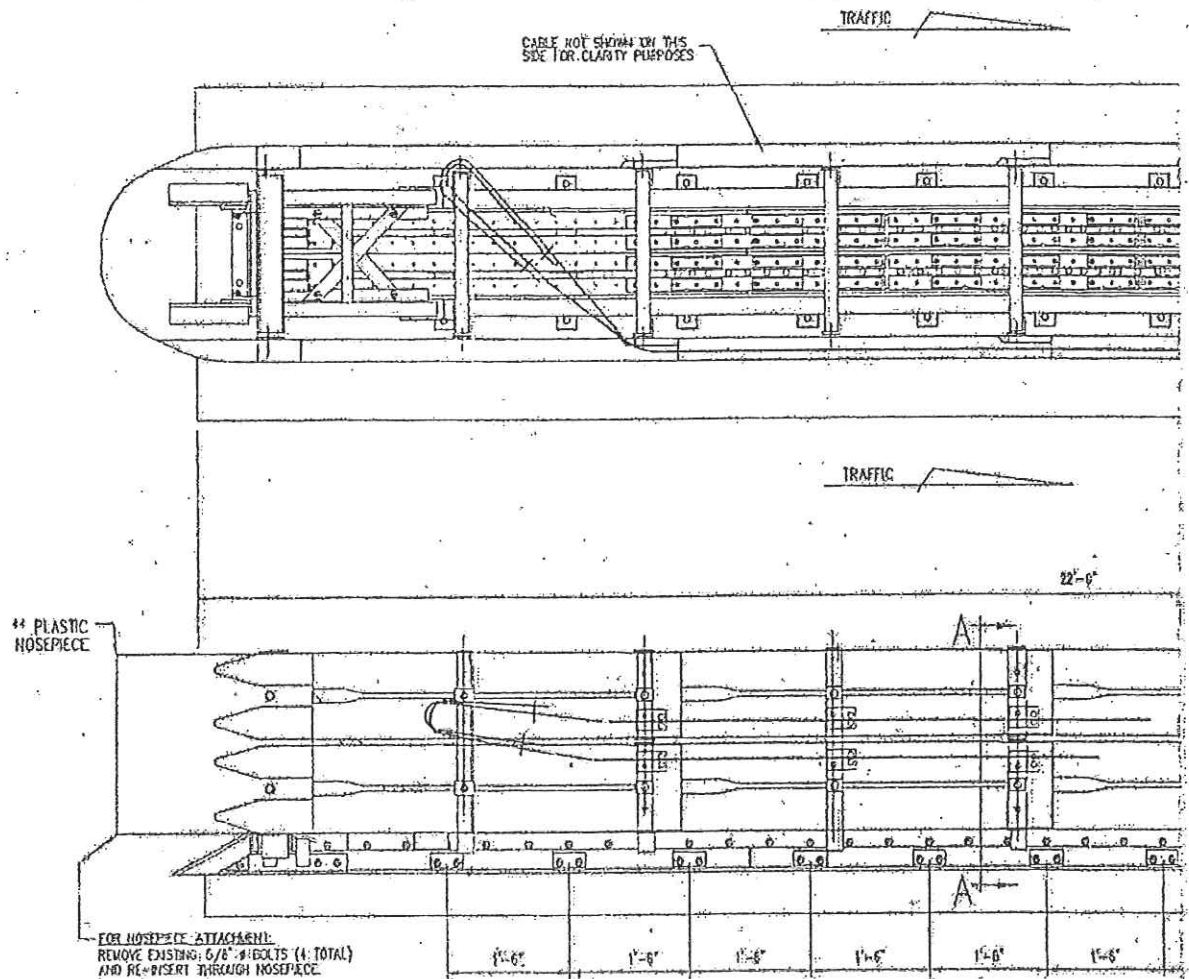
56

MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET 55





Do not show any dimensions from these drawings. Do not show any dimensions from these drawings. Do not show any dimensions from these drawings.



WIDE TRACK BILL OF MATERIAL

PRODUCT CODE	QTY	DESCRIPTION
6605A	1	39" WIDETRACK UNIT ASS'LY
6658B	4	REFLECTIVE TAPE
6531B	1	YELLOW PLASTIC NOSEPIECE

OPTIONAL TRACK ANCHOR ITEMS

PRODUCT CODE	DESCRIPTION
6205B	ADHESIVE DISPENSER
6207B	WIDER HIT HY150 (NOZZLE)
6208B	FILLER HIT HY150 (FILLER TUBE)
6209B	B1 TE-CR-11/16-1/8 (11/16" x 8")

EACH TRACK UNIT SHIPS 100% ASSEMBLED
(PLASTIC NOSEPIECE INSTALLED AFTER PLACEMENT)

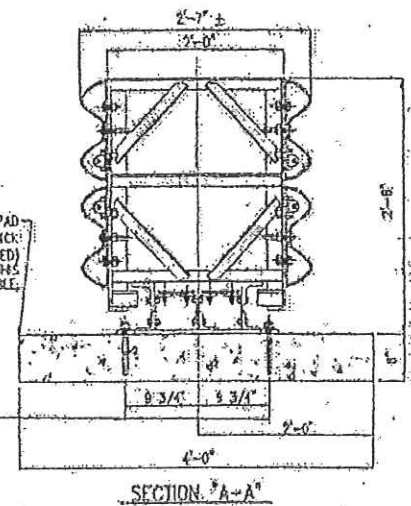
★ EACH CARTRIDGE INCLUDES 1 EACH WIDER HIT HY 150 CARTRIDGE (NOZZLE)
1 FILLER HIT HY 150 (FILLER TUBE)

** ANCHOR HARDWARE - (CONCRETE BASE)		
6204B	26	5/8" x 7 1/16" ANCHOR STUD
3310G	26	5/8" LOCKWASHER
3351G	26	5/8" HEX NUT
3300G	26	5/8" FLAT WASHER
★ 6205B	2	ADHESIVE HIT HY150 (CARTRIDGE)
** ANCHOR HARDWARE - (ASPHALT BASE)		
6390G	26	5/8" x 16" ALL THD ROD
3310G	26	5/8" LOCKWASHER
3351G	26	5/8" HEX NUT
3300G	26	5/8" FLAT WASHER
★ 6205B	6	ADHESIVE HIT HY150 (CARTRIDGE)

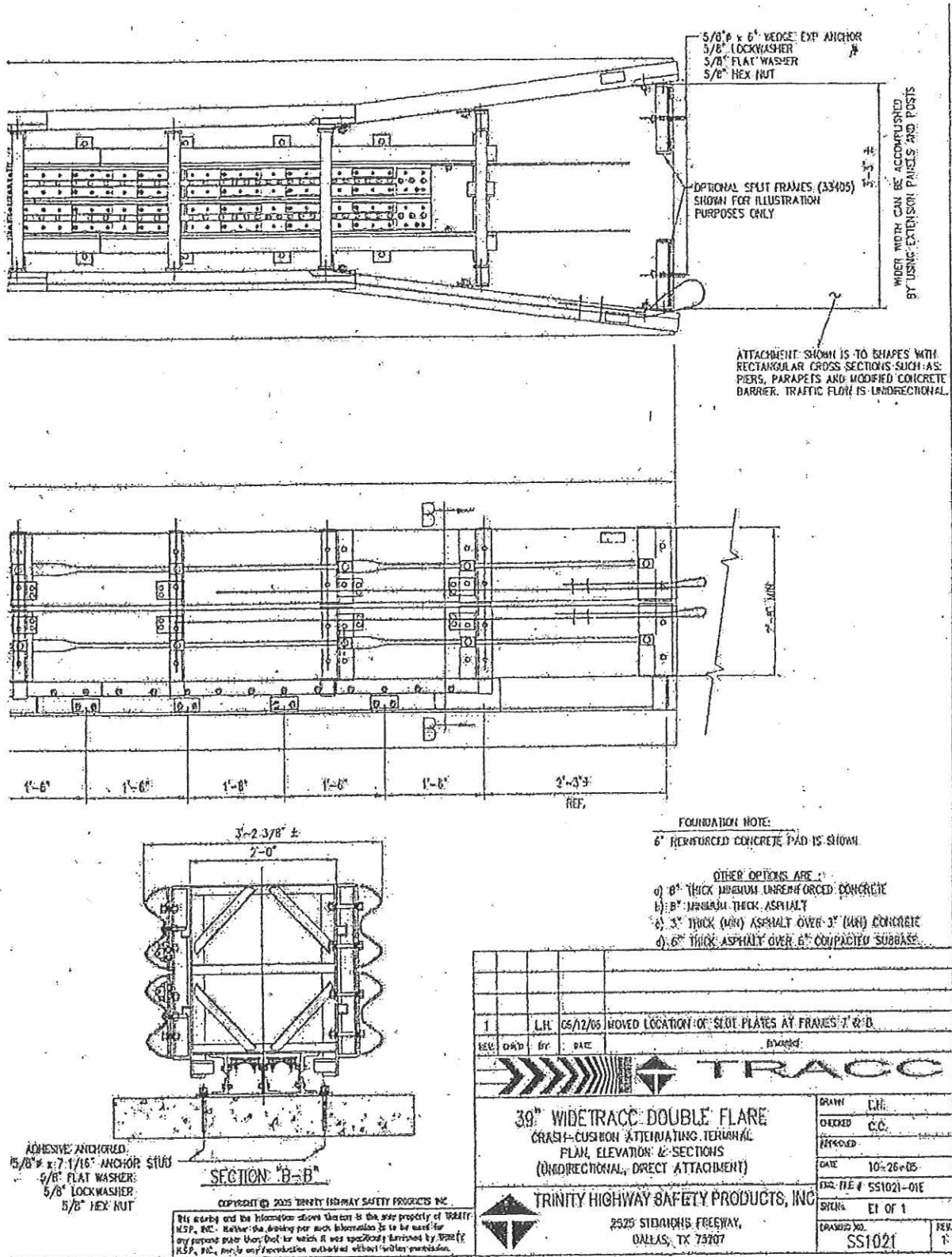
★ SEE PRODUCT MANUAL

REINFORCED CONCRETE PAD
4'-0" x 27'-0" x 6" THICK
(6" THICK IF NOT REINFORCED)
REINFORCEMENT DRAWINGS FOR THIS
PAD AND OTHER SIZES ARE AVAILABLE

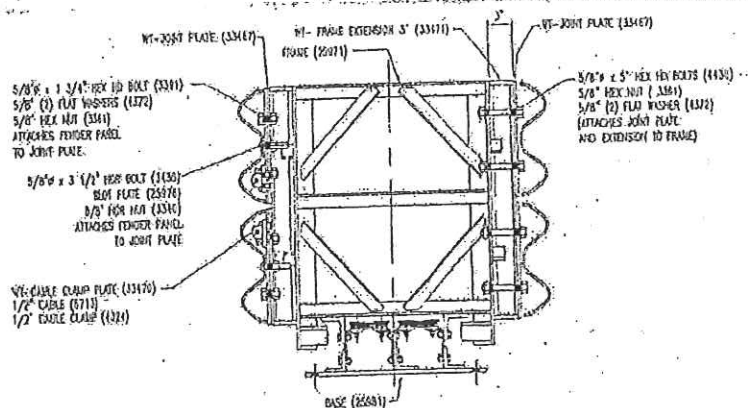
ADHESIVE ANCHORED
5/8" x 7 1/16" ANCHOR STUD
5/8" FLAT WASHER
5/8" LOCKWASHER
5/8" HEX NUT



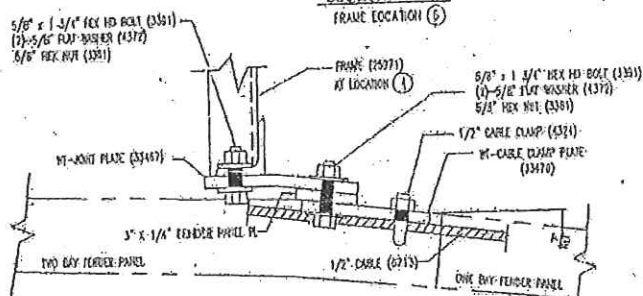
MATCH RIGHT SIDE OF SHEET WITH LEFT SIDE OF SHEET 60



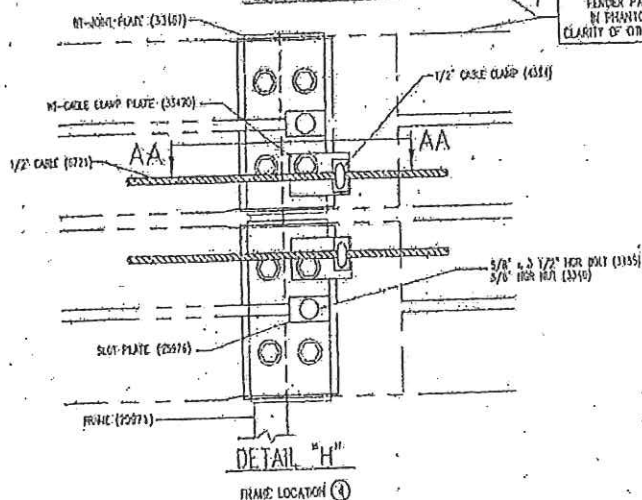
MATCH LEFT SIDE OF SHEET WITH RIGHT SIDE OF SHEET



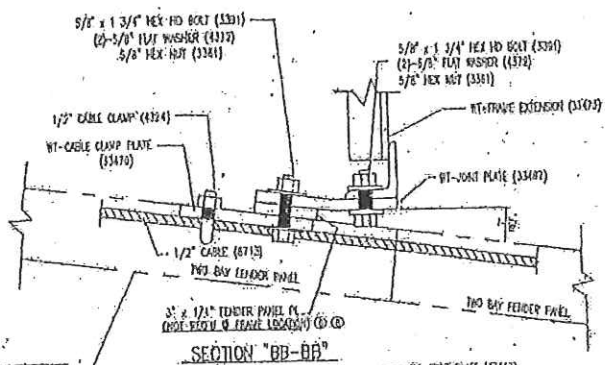
SECTION "E-E"
FRAME LOCATION ⑥



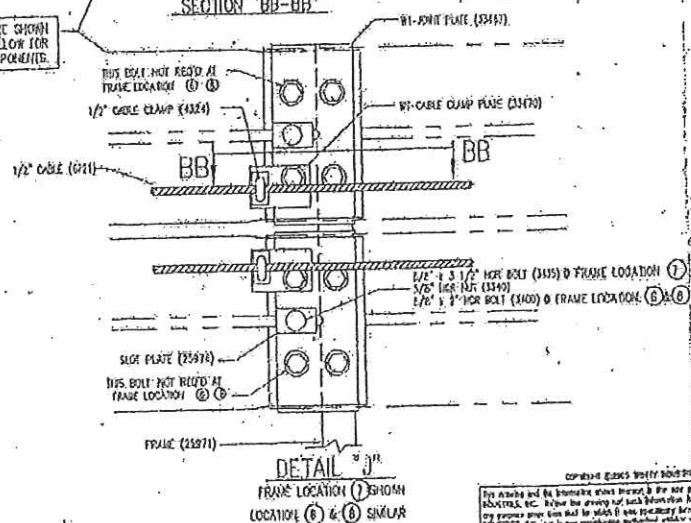
SECTION "AA-AA"



DETAIL "H"
FRAME LOCATION ③



SECTION "BB-BB"



DETAIL "J"
FRAME LOCATION ① KNOWN
LOCATION ⑥ & ⑧ SIMILAR

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QuadGuard® HS

Installation (cont'd.)

9) Install Bumper Assembly

- A. Use 1/2" x 3" bolts, 1/2" flat washers and 1/2" nuts to attach bumper to front of diaphragm 3. Hang cartridge support bracket onto the lower rear of diaphragm 3 as shown in Figure 29.

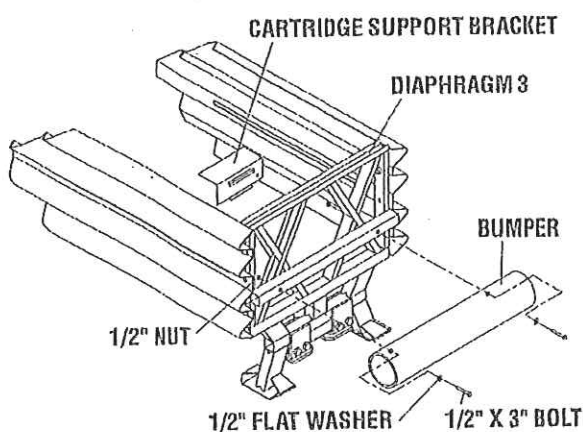


Figure 29

Bumper and Cartridge Support Bracket Installation (Diaphragm 3)

- B. Using 1/2" x 8" bolts, 1/2" flat washers and 1/2" nuts, attach bumper to front, and spacer to rear of diaphragm 2 as shown in Figure 30.

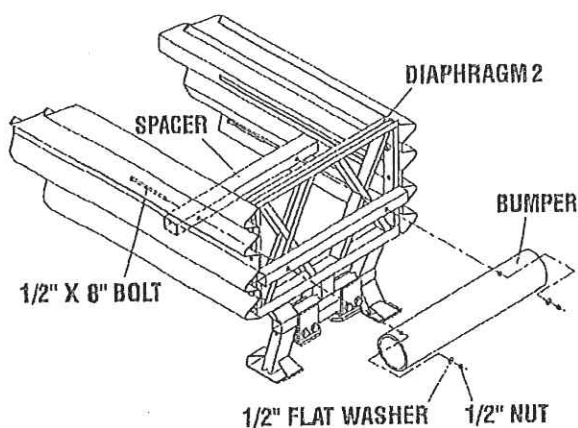


Figure 30

Bumper and Spacer Installation (Diaphragm 2)

- C. Using 1/2" x 8" bolts and 1/2" nuts, attach spacer to rear of diaphragm 1 as shown in Figure 31.

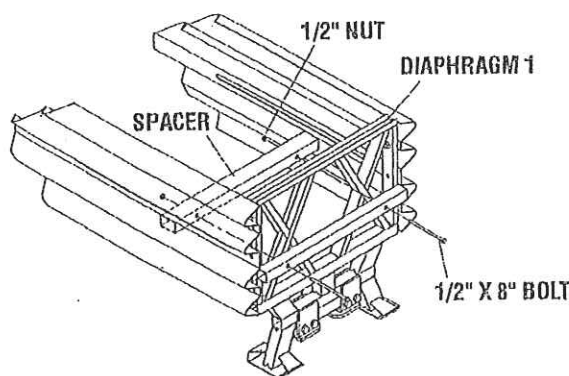


Figure 31

Spacer Installation (Diaphragm 1)

10) Install End Cap

Install end cap to the monorail as shown in Figure 32 and the monorail assembly drawing.

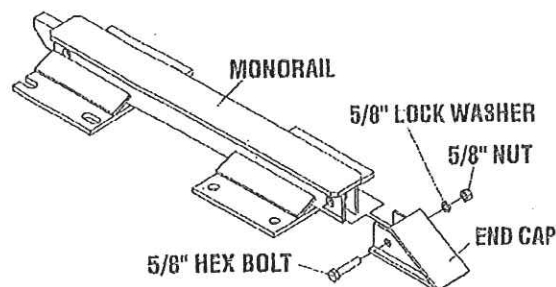


Figure 32

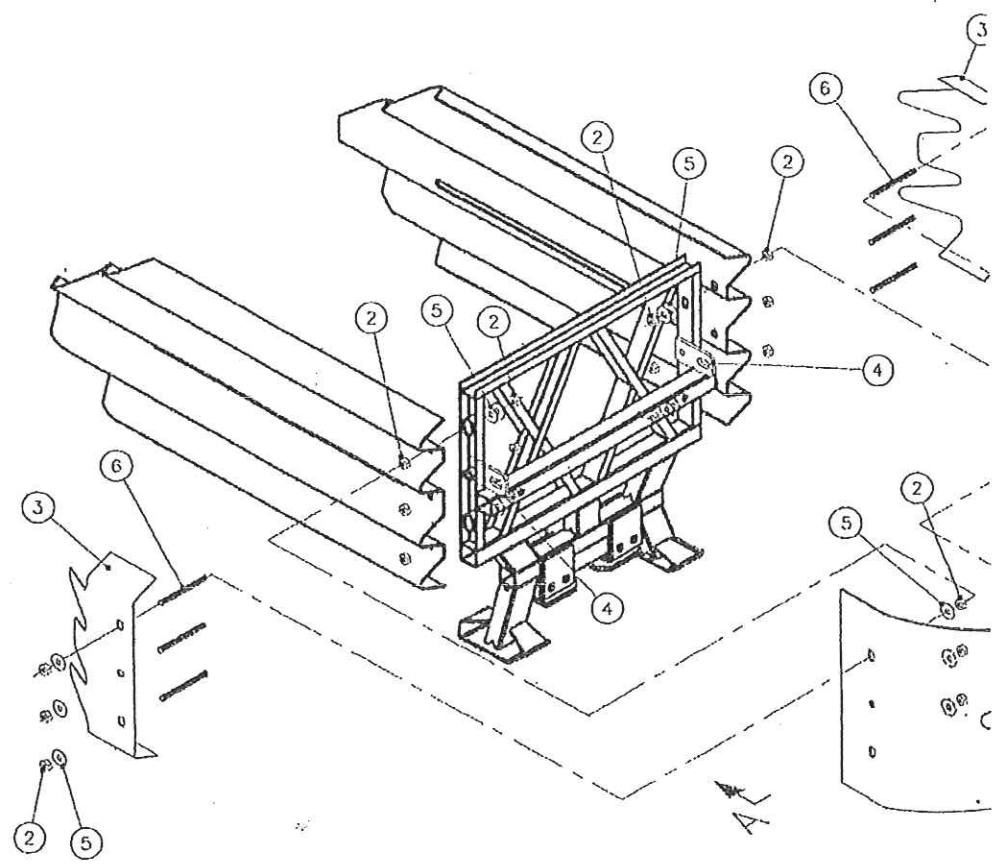
Monorail End Cap Installation



62

PAGES 63 THROUGH 79
NOT INCLUDED AS
PART OF THIS
CONTRACT

QuadGuard® HS



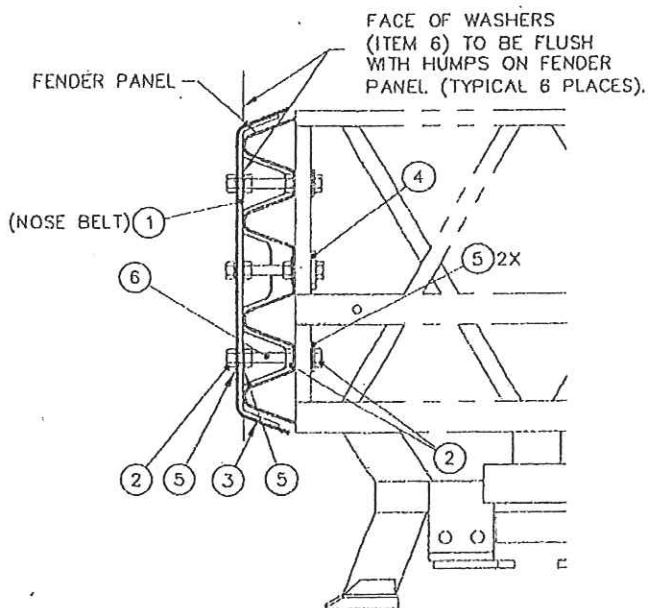
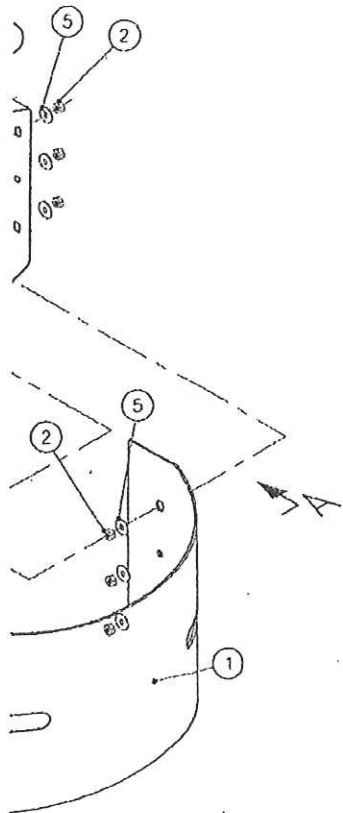
SYSTEM
24" OR
36

REFERENCES

Revisions	Date	Rev.	By	Ckd.	App.
ITEM 6 WAS 2701024-0000, ITEM 2 WAS 18.0	4/17/02	A	DDW	JME	DMO

PARTS LIST			
ITEM	STOCK NO.	DESCRIPTION	REQ'D
1	SEE TABLE	BELT, NOSE, OG CEN	1.00
2	2704141-0000	NUT, HX, 5/8, G	24.0
3	2760504-0000	CLAMP, BELT, LMC	2.00
4	2760251-0000	BRACKET, PULL OUT, OG	2.00
5	2708291-0000	WASHER, FLAT, 5/8X1 3/4, G	20.0
6	2699016-0000	ROD, THREADED, 5/8X6, G5, G	6.00

* 0 = GRAY, 1 = YELLOW



TABLE

WIDTH	BELT LENGTH	COLOR	ASSY NO.	ITEM 1 PART NO.
30"	1524	GRAY	3540611-0000	2718106-0000
	1524	YELLOW	3540611-0100	2718106-0100
	1780	GRAY	3540612-0000	2718108-0000
	1780	YELLOW	3540612-0100	2718108-0100

ASSEMBLY NO. - SEE TABLE

DRAWN: D. Webber DATE: 7/26/01 DESIGNED: Bret Eckert DATE: 7/26/01 CHECKED: JME DATE: 10/12/01 APPROVED: Bret Eckert DATE: 10/12/01 CAD FILE: 354061.dwg NEXT ASSEMBLY:	ENERGY ABSORPTION SYSTEMS, INC. ENGINEERING AND RESEARCH DEPARTMENT QUADGUARD HIGH SPEED SYSTEM NOSE ASSY		
	SCALE	1:15	REV
	35-40-61	SHEET	1 of 1
	REV	A	

81

ITEM	STOCK NO.	DESCRIPTION	QTY.
1	272215-0000	SHIM, 1/8"X3 5/8"X.6	2

DETAIL A
TYPICAL BOTH SIDES

D. Kothand M.J. Bhatnagar J.M.E. M.J.B. 3540078-0000 Low		2/27/2009 12/30/2008 3/4/2009 3/19/2009
--	--	--

ASSEMBLY NO. 3540078-0000

REWORK ASSEMBLY NO. 3540078-0000

REWORK ASSEMBLY NO. 3540078-0000

SHIM KIT, DIAPHRAGM, RAIL GUIDE, QG II

Revision	Date	Rev	By	CHK	App.
1	5/27/09	A	WALSH	MJD	
2	7/14/09	B	DK	JME	

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 ____ Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
 ____ Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,

2. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

3. Application is made for 2.5% resident vendor preference for the reason checked:

- ____ Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

4. Application is made for 5% resident vendor preference for the reason checked:

- ____ Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,

5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- ____ Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,

6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:

- ____ Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: _____ Signed: _____

Date: _____ Title: _____

**Check any combination of preference consideration(s) indicated above, which you are entitled to receive.*

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ____ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____

Please use this document for technical questions, posing in a question format

Please refer to the section your question is in reference to.

Technical questions for RFQ# _____

Vendor Name: _____

Questions:
