



Conveying Machinery Co., Inc.

P. O. BOX 193 • MANSFIELD, TEXAS 76063 • PHONE 817/477-2104

A PROPOSAL FOR

Mr. W.A. Bennis
ASARCO, INC.
120 Broadway
New York, New York 10005

DATE February 7, 1977

QUOTATION NO. 10577A (Rev-3)

REF: Inq. #CE-76-EP-71-(E)

Revision 3 includes options
outlined in addendums 1 and 2

We propose to furnish the following materials or equipment subject to conditions listed below and on attached continuation sheets, including those printed on the reverse side of this sheet.

SECTION IITEM #1 - 6

- Six M.T.O. Drag Conveyors x 67'-3-5/8" long. Each to convey 4 TPH of Sinter Dust @ 35-40 lb/cu. ft. with chain speed of 26 FPM powered by a 5 HP motor and a 7-1/2 HP @ 8.3 RPM drive unit. All shop test assembled and each consisting of the following components:
- 1 Head terminal x 9'-8-15/16" long, constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" AR plate bottom liner. To have 3-7/16" dia. drive shaft, 3-7/16" dia. type "E" roller bearing flange block bearings, 11.89" P.D. x 6 tooth sprockets for WSD-110 or equal chain, one adjustable drive base, one 13" x 19" discharge, one special 8" O.D. flanged idler with 2" dia. shaft, two 2" dia. 2 bolt flange bearings, Dodge Solidlube, and two 2" dia. set collars. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
 - 1 Tail section x 5'-9-9/16" long constructed of 1/4" plate trough with 3/16" plate top cover, and 3/8" plate AR bottom liner. To have 2-7/16" dia. tail shaft; two 2-7/16" dia. slotted take-up bearings, Dodge Solidlube LT-700; two 2-7/16" dia. flange Solidlube bearings; one air operated travel take-up powered by a 6" dia. x 16" stroke Hydraline Model LR2C air cylinder; 11.89" P.D. x 6 tooth sprocket;

Prompt acceptance of this proposal, executed as provided below, constitutes a contract for materials and services specified herein. The purchase price and all other amounts accruing to Seller under the terms hereof are payable to Seller at P. O. Box 193, Mansfield, Tarrant County, Texas.

ACCEPTED: _____

By _____

Date _____

By Don Jordan
Don Jordan, Representative
CONVEYING MACHINERY CO., INC., Seller

This quotation is sent to you in duplicate. If accepted, sign and return the original copy.

ASARCO ELP 0001955

GENERAL TERMS AND CONDITIONS OF SALE

All published prices are based upon the sale of material as merchandise. Additional charges may be made to cover the cost of unusual services, such as special packaging, engineering, overtime work, financing, or other special costs.

MINIMUM CHARGE on any invoice will be \$5.00 net in addition to any parcel post, freight, express or handling charges that may be applicable.

PRICES AND ACCEPTANCE: All quotations are for immediate acceptance and are valid only for thirty (30) days from date of quotation, unless otherwise specifically stated in writing. It is agreed that in the event of a price increase, any material shipped later than ninety (90) days from acceptance of an order or contract will be billed at prices in effect on the date of shipment. Sale of goods is not considered completed until the order is accepted at the Home Office, Mansfield, Texas.

LIMITED WARRANTY: Company shall not be liable for damages or delays caused by defective material or workmanship, and it is agreed that the liability of the Company under all guarantees, either express or implied, is specifically limited to the replacement, free of charge, from its factory, Mansfield, Texas, of parts failing through defective workmanship or material within ninety days after delivery thereof to the original purchaser and in the manner aforesaid. Company will make no allowance for repairs or alterations unless Company in writing specifically authorizes any such repair or alteration.

This guarantee shall not apply to any equipment which has been subjected to misuse, neglect or accident, or has been altered or tampered with, or if corrective work has been done thereon without our specific written consent. No allowances will be made for such corrective work done without such consent. Improper lubrication, deterioration by chemical action, and wear caused by the presence of abrasive materials, do not constitute defects. Equipment manufactured by others, and included in our proposal, is not warranted in any way by us but carries only the manufacturer's warranty, if any.

All warranty claims must be submitted within ten (10) days of discovery of defects or shall be deemed waived. No representative of our company has any authority to waive, alter, vary or add to the terms hereof without prior approval in writing.

LIABILITY: It is expressly understood that our liability for our products is limited to the furnishing of such replacement parts, and that we will not be liable for any other expense, injury, loss or damage, whether direct or consequential, including but not limited to loss of profits, production, increased cost of operation, or spoilage of material, arising in connection with the sale or use of, or inability to use, our equipment or products for any purpose, except as herein provided.

CONTRACTS: All prices are made f.o.b. cars, Mansfield, Texas, unless otherwise indicated. Our responsibility ceases when delivery is made to transportation company. If there are evidences of shortage or damage, insist that the transportation agent makes notations on shipping documents before signing receipt. Any damage or shortage claims should be made immediately with the transportation company.

PROMISE OF DELIVERY: Represents only our best estimate of the time necessary to complete the work. Failure to deliver within the time estimated will not render us liable for damages, or warrant cancellation of the order unless upon terms which will adequately indemnify us against loss.

FAILURE TO DELIVER: Seller shall not be liable for damages arising from failure to make delivery caused by fire, flood, strikes, riots, labor disturbances, failure or delay of carriers, interference by civil or military authority, inability to obtain essential supplies, parts or materials, acts of God or any circumstances or accident beyond Seller's control.

RETURNED GOODS: Will not be permitted unless such return is authorized in writing by Company.

RESERVATION OF TITLE: It is expressly stipulated and agreed that title and ownership of said property is and shall remain vested in Seller, notwithstanding delivery or possession, until the entire price is paid by cash in full.

SALES TAX: Any Federal, State or City sales tax will be added to the invoice.

FREIGHT ALLOWANCE: All items are sold F.O.B. factory, but freight will be allowed or prepaid to freight terminal nearest destination on items which are specified as "Freight Allowed" in the proposal, and within the limits set out for individual shipments meeting prescribed weight requirements. This freight allowance covers only shipments to destinations in the Continental United States, excluding Alaska and Hawaii.

No freight allowance will be allowed on shipments meeting prescribed weight requirements from points other than our factory or branch, unless it is specifically stated otherwise herein.

If weight of order does not qualify for freight allowance, shipment will be made on a collect freight basis. The freight allowance shall be determined by multiplying the actual weight in pounds by the lowest LCL rate per pound obtainable or a minimum load weight in excess of actual weight may be used if a lower freight cost can be obtained.

When freight allowed items are included with other items on which freight is not allowed, the freight allowance will be based on the freight allowed items only.

If shipping instructions are not given, we will decide how to ship and pack.

TERMS OF PAYMENT: Net 30 days unless otherwise specified.

SAFETY DEVICES: We will supply only such safety devices as are specified in this proposal. Any additional safety measures or devices which may be required by law, or which you may wish to add, are to be furnished by you, or, at your written request, they will be furnished by us at additional cost to you.

PAINTING: As a protective measure, we will apply before shipment one coat of our standard shop paint to all out-

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ITEM #1 - 6 cont.

- one 6" dia. flanged idler with 2" dia. shaft; two 2" dia. 2 bolt Dodge Solidlube flange bearings and two 2" dia. set collars, one inlet 36" x 13", one set of hanger brackets. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
- 4 Intermediate trough sections x 13'-0" long, constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" plate AF liner. Each 13'-0" long section to have two 8" dia. flanged idlers - each with a 2" dia. shaft, two 2" dia. Dodge Solidlube 2-bolt flanged bearings and 2" dia. set collars. All sections to have hanger brackets as required. Each section to have three 13' x 36" inlets, all construction to be dust tight with continuously welded seams and gasketed bolted joints.
- 134 ft. Jeffrey WSL-110F drag chain, or equal, with welded wing attachments and with heat treated links and pins. Outside to outside of wings to be 17'.
- 1 Lot Permatex-2 joint sealant for sealing top covers
- 1 Lot 1/2" dia. asbestos rope packing gasket for sealing inlets
- 1 Lot 1/8" thick asbestos flange gaskets for trough connections
- 1 Lot assembly bolts
- 1 Prime coat of zinc rich primer for exterior surfaces only
- 1 5 HP motor, 1750 RPM, 3 ph, 60 hz, 460 volt, TEFC, 1.15 service factor, class F insulation, Corro-Duty U.S. Motors frame 184T Nema design B.
- 1 Falk 7.52-70F2 motor reducer, class II, 25 RPM output with scoop motor mount, flexible coupling and coupling guard.
- 1 #140 Roller chain drive consisting of 140-B-20 sprocket, 140-B-60 sprocket and adequate length of #140 roller chain-cottered. 3 to 1 ratio for 8.33 final RPM.
- ** Chain drive to include shear pin sprocket
- 1 Fully enclosed, OSHA type, split chain guard

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ITEM #1 - E cont.

- 1 Lot shop test assembly of conveyor and drive components, match marking and disassembly for shipment.
Estimated Weight: 14,400 lbs. each run
TOTAL WEIGHT: 86,400 lbs.

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ITEM #7

- One M.T.O. Drag conveyor x 63'-11'5/8" long to convey 5 TPH of Sinter Dust @ 35-40 lb/cu. ft. with chain speed of 26 FPM powered by a 5 HP motor and a 7-1/2 HP @ 9 RPM drive unit, all shop test assembled and consisting of the following components:
- 1 Head terminal x 17'-5-3/16" long constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" AR plate bottom liner. To have 3-7/16" dia. drive shaft, 3-7/16" dia. type "E" roller bearing flange block bearings, 11.89" P.D. x 6 tooth sprockets for WSD-110 chain, or equal, four inlets 12' x 13", one inlet 19" x 13", one adjustable drive base, one 19" x 19" discharge, three sets hanger brackets, one special 8" O.D. flanged idler with 2" dia. shaft, two 2" dia. Dodge Solidlube 2-bolt flanged bearing and two 2" dia. set collars. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
- 1 Tail section x 8'-11-15/16" long constructed of 1/4" plate trough with 3/16" plate top cover, and 3/8" plate AR bottom liner. To have 2-7/16" dia. tail shaft, two 2-7/16" dia. slotted take-up bearings, Dodge Solidlube LT-700, two 2-7/16" dia. flange Solidlube bearing; one air operated travel take-up powered by a 6" dia. x 16" stroke Hydraline model LR2C air cylinders; 11.89" P.D. x 6 tooth sprocket; one 8" dia. flanged idler with 2" dia. shaft; two 2" dia., Dodge Solidlube 2 bolt flanged bearings and two 2" dia. set collars; Two inlets 13" x 12" one inlet 19" x 13"; two set hanger brackets. All construction to be dust tight with continuously welded seams and gasketed bolted joints.

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ITEM #7 cont.

- 2 Intermediate trough sections x 18'-9" long, constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" plate AR bottom liner. Each 18'-9" long section to have two 8" dia. flanged inlets each with a 2" dia. shaft, two 2" dia. Dodge Solidlube 2-bolt flanged bearings and 2" dia. set collars. All sections to have hanger brackets as required. Each section to have four 12" x 13" inlets, two 13" x 19" inlets. All construction to be dust tight with continuously welded seams and gasketed bolted joints
- 126 ft. Jeffrey WSD-110P dragchain, or equal, with welded wing attachments and with heat treated links and pins. Outside of wings to be 17".
- 1 Electro sensor model R-100 zero speed switch with sensing head and controller and with mounting bracket for attachment to tail shaft.
- 1 Lot permatex-2 joint sealant for sealing top covers
- 1 Lot 1/2" dia. asbestos rope packing gasket for sealing inlets
- 1 Lot 1/8" asbestos flange gaskets for trough connections
- 1 Lot assembly bolts
- 1 Prime coat of zinc rich primer for exterior surfaces only
- 1 5 HP motor, 1750 RPM, 3 ph, 60 hz, 230/460 volt, TEFC, 1.15 service factor, class F insulation, Corro-Duty U.S. Motors frame 184T, Nema design B.
- 1 Falk 7.52 - 7CFE motor reducer, class II, 25 RPM output with scoop motor mount, flexible coupling and coupling guard.

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ITEM #7 Cont.

- 1 #140 Roller chain drive consisting of 140-B-20 sprocket, 140-B-54 sprocket and adequate length of #140 roller chain - cottered 2.7 to 1 ratio for 9 RPM output.
 - ** Chain drive to include shear pin sprocket.
 - 1 Fully enclosed, OSHA type, split chain guard.
 - 1 Lot shop test assembly of conveyor and drive components, match marking and disassembly for shipment.
- ESTIMATED WEIGHT: 13,500 lbs.

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ITEM #8

- One M.T.O. Drag Conveyor x 96'-4 1/2" long to convey 6 TPH of sinter dust @ 35-40 lb/cu. ft. with chain speed of 30 FPM powered by a 7 1/2 HP motor and a 15 HP @ 9.3 RPM drive unit. All shop test assembled and consisting of the following components:
 - 1 head terminal x 14'-4 1/2" long constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" AR plate bottom liner. To have 3 15/16" dia. drive shaft, 3 15/16" dia. type "E" roller bearing flange block bearings, 11.89" P.D. x 6 tooth sprockets for WSD-110 chain, or equal, four inlets 12" x 13", one inlet 13" x 19", one adjustable drive base, one 19" x 19" discharge, one set hanger brackets, one special 8' C.D. flanged idler with 2' dia. shaft, two 2' dia. Dodge Solidlube 2-bolt flanged bearings and two 2" dia. set collars. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
 - 1 Tail section x 17'-3-7/8" long constructed of 1/4" plate trough with 3/16" plate top cover, and 3/8" plate AR bottom liner. To have 2 7/16" dia. tail shaft, two 2 7/16" dia. slotted take-up bearing, Dodge Solidlube LT700; two 2 7/16" dia. flange solidlube bearings; air operated travel take-up powered by a 6" dia. x 16" stroke hydraline model LR2C air cylinder; 11.89" P.D. x 6 tooth sprocket; one 8' dia. flanged idler with 2" dia. shaft, two 2' dia.

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ITEM #8 cont.

- Dodge Solidlube 2 bolt flanged bearings and two 2' dia. set collars; one inlet 19' x 36', one inlet 19' x 19'; two sets hanger brackets. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
- 5 Intermediate trough sections x 13'-0' long constructed of 1/4" plate trough with 3/16" plate top cover and 3/8" plate AR bottom liner. Four 13'-0" long section to have two 6' dia. flanged idlers each with a 2' dia. shaft, two 2' dia. Dodge Solidlube 2 bolt flanged bearings and 2" dia. set collars, one section to have one idler only. All sections to have hanger brackets as required. Four sections to have three 36' x 13' inlets, one section to have none. All construction to be dust tight with continuously welded seams and gasketed bolted joints.
- 187 ft. Jeffrey WSD-110P drag chain, or equal, with welded wing attachments and with heat treated links and pins. Outside to outside of wings to be 17".
- 1 Electro sensor model R-100 zero speed switch with sensing head and controller and with mounting bracket for attachment to tail shaft.
- 1 Lot Permatex-2 joint sealant for sealing top covers.
- 1 Lot 1/2" dia. asbestos rope packing gasket for sealing inlets.
- 1 Lot 1/8" thick asbestos flange gaskets for trough connections.
- 1 Lot assembly bolts
- 1 Prime coat of zinc rich primer for exterior surfaces only.
- 1 7 1/2 HP motor, 1750 RPM, 3 ph. 60 hz, 230/460 volt TEFC, 1.15 service factor, class "F" insulation, Corro-Duty U.S. Motors frame 213T. Nema design B.

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ITEM 6 Cont.

- 1 Falk 152-90FE motor reducer, class II, 25 RPM output with scoop motor mount, flexible coupling and coupling guard.
 - 1 #160 Roller chain drive consisting of 160-B-20 sprocket, 160-B54 sprocket and adequate length of #160 roller chain - cottered 2.7 to ratio for 9.5 RPM output.
 - ** Chain drive to include shear pin sprocket.
 - 1 Fully enclosed, OSHA type, split chain guard.
 - 1 Lot shop test assembly of conveyor and drive components, match marking and disassembly for shipment.
- ESTIMATED WEIGHT: 19,400 lbs.

TOTAL PRICE FOR SECTION I: \$153,167.00**

TOTAL ESTIMATED SHIPPING WEIGHT FOR SECTION I: 119,300 lbs.

**ALTERNATE TO SECTION I

To omit the standard Falk 'Steelflex' couplings between the motor and gearmotor shafts and delete shear pin sprockets and add Falk #7 FT controlled torque couplings. Couplings to include "light springs" with 130 to 1150 lb/in torque range. Applies to items 1 thru 8.

ADD: \$949.00

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SECTION II

- 91 Drop gates per dwgs. SLC 13352 and SLC 13353, revisions 3 and 2 respectively. Each gate to consist of the following components:
 - 1 #13352-A Gate frame of C8 x 11.5 channels
 - 2 #13352-B Gates of 3/16" plate and 1' X-heavy pipe
 - 2 #13352-C Shafts of 1 1/4" dia. CRS
 - 2 #13352-D Shafts of 15/16" dia. CRS
 - 2 #13352-E Bolts, special shoulder bolts with washers and nuts
 - 1 #13352-F Bolts, special shoulder bolts with washer and nuts

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SECTION II cont.

- 2 #13352-G Link of 5/16" plate x 1 1/2' wide x 9 3/4' long
- 1 #13352-H Handle 2'-6" long, removeable type
- 2 #13352-J Batten bar of 3/16" x 3 1/2' x 1'-7/8" bare
- 1 G-14741 Gear sector, machined cast iron
- 1 G-14742 Gear sector, machined cast iron
- 1 G-14745 Lever, machined cast iron
- 1 G-14746 Bolt plate, machined cast iron
- 1 Lot assembly bolts
- 1 Coat zinc rich primer
- 1 Lot shop assembly

ESTIMATED WEIGHT: 230 lbs. each unit

TOTAL ESTIMATED SHIPPING WEIGHT FOR SECTION II: 20,930 lbs.

NET PRICE EACH: \$573.00

NET LOT PRICE (91 pcs.): \$52,143.00

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SECTION III

- 14 Slide gates (seven sets) complete with levers and brackets per dwg. #23536. Constructed of mild steel 1/4" plate, 3/16" plate, angles and Corten A steel slide gates of 3/8" plate. Gate assembly to consist of gate, spacer bars, manual operating lever, 12" x 12" inside x 2'-1/4" long discharge chutes and are to be bolted in field to Corten A steel discharge chutes per item M of section IV of this quotation.

Exterior only painted with zinc Rich primer.

NET PRICE EACH: \$256.00

NET LOT PRICE: (14 pcs.) \$3,584.00

ESTIMATED SHIPPING WEIGHT: 232 lbs. each

TOTAL ESTIMATED SHIPPING WEIGHT FOR SECTION III: 3,246 lbs.

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SECTION IV

- One Lot conveyor hangers, supports, and interconnecting chute work.
- A 13 Discharge chutes from hoppers to conveyor #2 per dwg. 23534 items A-M. Chutes to be constructed of 1/4" plate with 1/4" x 2 1/2" bar flanges.

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SECTION IV cont.

- B 2 Transition chutes between conveyor #7 and conveyor #8 and between conveyor #8 and bucket elevator, same construction as above chute except 1/4' x 3' bar flanges.
- C 18 (9 sets) hanger brackets for conveyor #8 constructed of 3/8' plate per dwg. #23535. To be welded to 9 units of item A above.
- D 18 Locke #43136 or equal jaw only with required bolts and nuts per dwg. #23535. To connect items A and C to conveyor #8.
- E 54 Sets hanger brackets for conveyors #1 thru #6. Each set constructed of one 3/8' x 4" x 1'-11-7/8' long mitered hopper braces (weld to hopper interior by others), and two 5/8' x 4' x 8 1/2' mitered hanger brackets (to be welded to hopper exterior by others). Per dwg. #23535.
- F 108 Locke No. 43129 or equal 5/8' dia. turnbuckles with 9" take-ups. Type: jaw and jaw with required nuts and bolts. To connect hoppers with hanger brackets from item "E" to conveyors #1 thru #6. Per dwg. #23535.
- G 2 Hanger support frames for tail end of conveyor #8 per dwg. #23534. Constructed of C4 x 7.25 channels with 1/2" plate base plates.
- H 4 Locke No. 43136 or equal jaw only, 5/8' dia. To connect item G frames to conveyor #8 tail section with required nuts and bolts for assembly, per dwg. #23534.
- J 1 Hanger support frame for head end of conveyor #8 per dwg. #23535. Constructed of C5 x 9 channels and with 1/2" plate base plates.
- K 4 Locke No. 43130 or equal jaw only, with required nuts and bolts for connection to item J and conveyor #8.
- L 5 Hanger support frames per dwg. #23535 section L, constructed of C5 x 9 channels and with 1/2" plate base plates.
- M 10 Locke No. 43130 or equal jaw only with required nuts and bolts for connection to item L and conveyor #8.

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SECTION IV cont.

- N 7 Discharge chutes from hoppers to conveyor #7, per dwg. #23536, constructed of C8 x 11.5 Corten-A steel channels. To be unpainted and to be welded by others in field to hoppers and bolted to slide gates. (See section III of this quotation for slide gates).
- P 12 Hangers for conveyors #1 thru #6 at connections to conveyor #7. Each to consist of one 3/8" x 2 1/2" x 12" long bar (to be welded in field by others to item N above) and one locke No. 43130 or equal jaw only with required nuts and bolts for connection between conveyors #1 thru #6 and item N above. All per dwg. #23534 section E.
- Q 26 Locke No. 43130 or equal 5/8" dia. turnbuckles with 12" of take-up, type: Jaw and jaw with required nuts and bolts for connection of item N above with conveyor #7.

TOTAL PRICE FOR SECTION IV: \$10,054.00

TOTAL ESTIMATED SHIPPING WEIGHT FOR SECTION IV: 8,100 lbs.

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TERMS: 1 1/2 10 days, net 30 days

F.O.B.: Mansfield, Texas

TOTAL ESTIMATED SHIPPING WEIGHT: 151,578 lbs.

PROPOSED SHIPPING: Contract hauler direct to plant site. Requires approximately four truck loads.

ESTIMATED FREIGHT COSTS: \$4,200.00 (not included in quoted prices)

DRAWINGS: To be submitted in four weeks after receipt of order.

SHIPMENT: To be made in ten to twelve weeks after receipt of approved drawings, subject to availability of chain.

This quotation is made on the basis of the Terms and Conditions of Sale as shown on the reverse side of page one of this proposal except the warranty is extended to twelve month from date of shipment.

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TOTAL VALUE OF THIS QUOTATION AS DESCRIBED ON PREVIOUS PAGES:

AMOUNT: \$218,918.00**

**ALTERNATE TO SECTION I

To omit the standard Falk "Steelflex" couplings between the motor and gearmotor shafts and delete shear pin sprockets and add Falk #7 FT controlled torque couplings. Couplings to include 'Light Springs' with 130 to 1150 lb/in torque range.

Applies to items 1 thru 8.

ADD: \$549.00

WE APPRECIATE YOUR CONSIDERATION AND HOPE TO BE FAVORED WITH YOUR ORDER.

Copies of proposals distributed as follows:

Original:	Mr. W.A. Bennis
One copy each:	Mr. E.E. Haug
	Mr. A.C. Marsh, Jr.
	Mr. W.R. Kelly
	JESCO, Inc.
	COMAC