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Document Information

ORIGINATOR : NASA  
FROM : CANNING, THOMAS N.  
TO : GOLDSMITH, MICHAEL

TITLE :

DATE : 04/19/1978  
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SUBJECTS :  
KENNEDY, JOHN; ASSASSINATION  
EVIDENCE

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OPENING CRITERIA :

COMMENTS : List of repairs and modifications to presidential limousine. Box 156.

National Aeronautics and  
Space Administration

**Ames Research Center**  
Moffett Field, California  
94035

**NASA**

008590

Reply to Attn of: TC:244-7-57

April 19, 1978

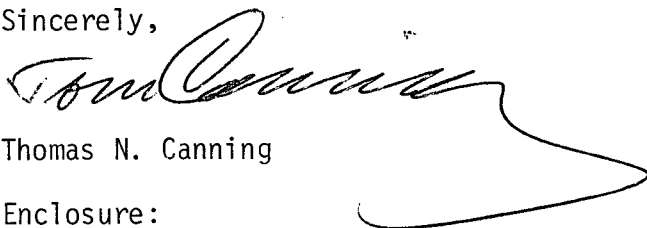
Mr. Michael Goldsmith  
House Select Committee on Assassinations  
3331 House Office Bldg., Annex 2  
Washington, D.C. 20515

Dear Mike:

During the March meeting of the Photographic and Forensic Pathology meetings, I requested that a detailed listing of minor and major repairs and inspections of the trunk area of the Presidential limousine (done after the assassination) be provided.

The listing (which is returned herein) predates the assassination by two years and cannot be of use. My interest continues in the post-assassination inspections, cleanup and repairs of the trunk-spare tire area. Please provide the records, if available.

Sincerely,



Thomas N. Canning

Enclosure:  
As stated

Lee Collins  
313-322-8740

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September 13, 1961

Mr. Max L. Westbay  
Experimental Parts Section  
Purchasing Office  
Ford Motor Company  
P. O. Box 623  
Dearborn, Michigan

SUBJECT: 1961 Presidential  
Lincoln Continental  
Modification

Dear Max:

In reply to your request for a quotation for modification work on the 1961 Presidential Lincoln Continental, we submit the following outline of work included in this quotation.

1. Center Body Pillar

- Redesign and fabricate the upper glass frame and pillar assembly to allow it to be fully removed.
- Fabricate new upper pillars.
- Provide new glass.
- Fabricate new glass frames
- Install new weatherstrip
- Rework lower pillar area, design and fabricate anchoring device.
- Provide for anchor and detachable clamps for center body pillar cross bar.

2. Center Body Pillar Cross Bar

- Redesign the bar to allow it to be fully removed when center body pillar upper glass frames are removed.
- Rework cross bar, machine ends, install locating pins or blocks and replate.
- Provide quick acting clamps.

3. Limousine Partition Glass

Remove.

D-2 MODIFICATION

Mr. Max L. Westbay  
Dearborn, Michigan

September 13, 1961

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4. Front Seat Top Bar

Fabricate, leather trim and install to conceal partition glass opening.

5. Front Seat Grab Handles

Design, fabricate and install two chrome plated grab handles on top bar of front seat.

6. Rear Seat Cushion

Build up experimental seat cushion pad to open seat included angle and to provide differential deflection in specific areas.

Untrim rear cushion and rebuild to above approved pad. Install special Ensulite pads and retrim.

7. Rear Floor Fillers

Make up and install rear floor fillers under rear floor carpet to remove 6° slope from center tunnel to rocker sill.

Rework and refit carpet.

8. Rear Seat Cushion - Arm Rest

Design and fabricate rear seat cushion arm rest. Weight arm rest with sea sand and trim in leather.

Arm rest is a loose unit and may be carried in trunk when not required.

9. Robe Straps

Design, fabricate and install elastic cords or straps to retain robe neatly in rear side door robe pockets.

10. Bumper Guard and Red Lights

Rework patterns to meet contour of 1962 front bumper bar. Make up, machine and plate new castings.

Install red lights and mount to 1962 bumper.

Mr. Max L. Westbay  
Dearborn, Michigan

September 13, 1961

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11. Front End Rework

Remove 1961 front end parts, grilles, moldings and bumpers. Install 1962 parts to be furnished by Ford Motor Company. Modify all parts and assemblies as required.

12. Miscellaneous

Clean and touch up sheet metal as required. Rework partition switch escutcheons and electrical circuits as required.

Our estimated quotation for this work is \$4000.00, plus any local, state or federal tax that may apply.

It is anticipated that the work can be completed in approximately three weeks after receipt of car.

If you have any questions regarding the work outline, we will be happy to discuss them with you.

Very truly yours,

THE HESS & EISENHARDT COMPANY

Vice President in Charge of  
Manufacturing & Engineering

Willard C. Hess  
Jes

P. S. This includes engineering and service trip to Washington, D. C. August 29, 30 and 31. Items 3, 4, 6 and 7 were completed in Washington.

cc: Mr. Gordon Doherty  
J. T. Kraus  
C. W. Hartline  
A. J. Schaerges

C. Hartline

Mr. Max L. Westbay  
Dearborn, Michigan

September 13, 1961

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P. P. S. Additions to 1961 Presidential Continental  
Modification

3. (Cont.) Partition

Remove glass  
Retrim No. 2 crossbar  
Remove glass drive motors  
Remove glass drive channel.

6. (Cont.) Rear Seat Cushion

Remove seat assembly  
Untrim rear seat cushion and back  
Install 1/4 plywood panel in each as per direction  
from V. Ferguson.

13. Rear Canvas Cover

Cut and install vinyl window of formal limousine size.

14. Flag Brackets

Make new retainer nuts.

15. Canvas Roof

Improve fit up and snaps.

16. L.H. Rear Door Glass

Check for cause of scratching.

17. Trunk Lid

Adjust tension hold open.

18. Rear Seat Pump

Check gasket.

WCH:jes

cc: J. T. Kraus

C. W. Hartline

A. J. Schaerges

PROJECT D-2 DRAWINGS BEING SENT OUT

*Fo. Mo. Co.  
LEE HOLDINGS*

<u>Drg. Size</u>	<u>Part No.</u>	<u>Description</u>
E	EX-5500	BODY DRAFT
E	EX-5502	PRELIMINARY LAYOUT (REAR END & REAR ROOF) (FOR MOCK UP)
E	EX-5503-A	CONTINENTAL TIRE KIT INSTALLATION (2 SHEETS) SHT 1 42" WIDE FILLED W/DR
E	EX-5504	REAR BUMPER ASSEMBLY
A	EX-5506	BRACKET-REAR LICENSE LIGHT SUPPORT
A	EX-5507	HANDLE-ROOF #1 BOW LOCK
A	EX-5508	NUT-ROOF #1 BOW LOCK HANDLE
E	EX-5510	PLASTIC ROOF ASSEMBLY
A	EX-5511	PLATE-REAR DOOR SILL
A	EX-5512	INSERT-REAR DOOR SILL PLATE
C	EX-5513	PANEL-REAR DECK LID CONTINENTAL TIRE COVER
C	EX-5514	PANEL-REAR CONTINENTAL TIRE COVER
B	EX-5515	STIFFENER ASSY-FLOOR SIDE OUTER MEMBER
B	EX-5516	EXTENSION-FLOOR SIDE INNER MEMBER
B	EX-5517	EXTENSION-FLOOR SIDE LOWER MEMBER
E	EX-5519	MEMBER ASSY-CENTER BEARING FLOOR PAN CROSS MEMBER "A"
See 5519	EX-5520	MEMBER ASSY-CENTER FLOOR PAN CROSS MEMBER "B"
A	EX-5521	STRAP - RESONATOR INLET PIPE MOUNTING
A	EX-5522	CLIP-PARKING BRAKE CABLE SUPPORT
E	EX-5523	PAN-CENTER FLOOR
E	EX-5524	PRELIMINARY STUDY OF FRT SEAT GUN COMPT & PARTITION
A	EX-5526	BRACKET-FUEL FILTER TO A.C. BRKT
B	EX-5527	RAIL-CTR BODY PILLAR BELT
E	EX-5528	EXTENSION-CTR BODY PILLAR FRONT
E	EX-5529	EXTENSION-CTR BODY PILLAR REAR
B	EX-5530	REINFORCEMENT-CTR BODY PILLAR BELT RAIL
C	EX-5531	PANEL-CTR BODY PILLAR UPPER OUTER
E	EX-5532	PANEL-CTR BODY PILLAR LOWER OUTER
B	EX-5533	STRAP-ALTERNATOR BELT TENSION
C	EX-5534	BRACKET-ALTERNATOR (ON ALTERNATOR)
B	EX-5535	BRACKET-ALTERNATOR (ON ENGINE)
E	EX-5536	GLASS-REAR DOOR WINDOW
D	EX-5537	CTR BODY PILLAR WINDOW ASSY
D	EX-5538	CTR BODY PILLAR WINDOW FRAME ASSY-UPPER
See 5538	EX-5539	FRAME-CTR BODY PILLAR WINDOW UPPER
B	EX-5540	RETAINER-CTR BODY PILLAR WINDOW FRAME
D	EX-5541	GLASS-CTR BODY PILLAR WINDOW
A	EX-5542	CTR BODY PILLAR WINDOW FRAME ASSY-LOWER
See 5542	EX-5543	FRAME-CTR BODY PILLAR WINDOW LOWER
A	EX-5544	REINFORCEMENT-CTR BODY PILLAR WINDOW LOWER FRAME
E	EX-5549	FRAME-ASSEM FRONT DOOR GLASS
E	EX-5550	LAYOUT OF CTR BODY PILLAR & PARTITION (2 SHEETS)(SHT 2 42" WIDE W/ DRAFT
E	EX-5552	FRAME ASSEM-REAR DOOR GLASS
D	EX-5555	SIDE QUARTER GLASS FRAME ASSEMBLY
C	EX-5556	GLASS- " " "
E	EX-5557	REAR SEAT STUDY
E	EX-5558	GLASS-REAR BACK LIGHT (FORMAL SEDAN)
D	EX-5559	TRIM SCHEME-SEAT CUSHION PAN
E	EX-5560	FOLDING SEAT ASSEMBLY

<u>Drg. Size</u>	<u>Part No.</u>	<u>Description</u>		
C	EX-5561	PLATE-FLOOR REINFORCING		
C	EX-5562	HINGE-FOLDING SEAT FLOOR OUTSIDE		
A	EX-5563	PIN-FOLDING SEAT FLOOR HINGE		
A	EX-5564	SPACER-FOLDING SEAT FLOOR HINGE PIN		
E	EX-5565	FRAME (ASSY) - SEAT CUSHION - L.H. SEAT		
C	EX-5566	LEG-FOLDING SEAT OUTSIDE		
D	EX-5567	PAN-SEAT CUSHION - L.H. SEAT		
C	EX-5568	FRAME (ASSY) - SEAT BACK		
B	EX-5569	RAIL - SEAT BACK SIDE		
C	EX-5570	PAN - SEAT BACK		
A	EX-5571	PIN - SEAT BACK HINGE		
E	EX-5572	FRAME (ASSY) - SEAT CUSHION - R.H. SEAT		
C	EX-5573	LEG - FOLDING SEAT INSIDE		
D	EX-5574	PAN - SEAT CUSHION - R.H. SEAT		
C	EX-5575	HINGE - FOLDING SEAT FLOOR INSIDE		
D	EX-5576	COVER - SEAT CUSHION PAN TRIM		
A	EX-5577	BAR - CUSHION PAN TRIM COVER ATTACHING TIE		
D	EX-5578	PANEL - SEAT CUSHION		
D	EX-5579	PAD - SEAT CUSHION		
C	EX-5582	PAD - SEAT BACK		
A	EX-5583	RISER-SEAT CUSHION PAN TRIM		
E	EX-5585	PARTITION ASSY		
See 5585	EX-5586	PANEL-PARTITION (MAIN)		
A	EX-5589	STRAINER-PARTITION PANEL (UPPER)		
See 5589	EX-5590	STRAINER-PARTITION PANEL (CTR)		
See 5589	EX-5591	STRAINER-PARTITION PANEL (LOWER)		
A	EX-5593	CLOSURE-PARTITION CORNER PANEL (AT BELT)		
C	EX-5594	ANGLE-PARTITION ATTACHING		
D	EX-5596	PILLAR-CTR BODY UPPER		
E	EX-5597	BOW-CTR BODY PILLAR ROOF		
B	EX-5598	CAP-CTR BODY PILLAR FRT (AT BELT)		
C	EX-5599	CAP-CTR BODY PILLAR REAR (AT BELT)		
B	EX-5600	RETAINER-CTR BODY PILLAR WEATHERSTRIP		
See 5585	EX-5601	CLOSURE-PARTITION SIDE (AT FLOOR)		
E	EX-5602	SCALP-PARTITION GLASS CHANNEL		
E	EX-5603	REAR SEAT LAYOUT		
D	EX-5604	GLASS-PARTITION		
E	EX-5605	FORMAL ROOF ASSEMBLY		
A	EX-5609	PLUG-LUGGAGE COMPT. DOOR GRAB HANDLE HOLE (WITH FORMAL ROOF)		
E	EX-5610	PROPOSED REAR SEAT AUXILIARY CUSHION (42" WIDE FILLED WITH DRAFT)		
C	EX-5611	LAYOUT OF RADIO & ACCESSORY CONTROLS		
C	EX-5612	STRAINER-READING LAMP		
A	EX-5613	SHIM-FOLDING SEAT FLOOR OUTSIDE HINGE		
A	EX-5614	SHIM-FOLDING SEAT FLOOR INSIDE HINGE		
A	EX-5615	SECTION-ROOF RAIL MOLDING	PLAST. BLISTER	
A	EX-5616	SECTION-PLASTIC BLISTER SIDE BELT MOLDING	"	"
A	EX-5617	SECTION-PLASTIC BLISTER REAR BELT MOLDING	"	"
A	EX-5618	SECTION-REAR ROOF BLISTER FRONT MOLDING	"	"



<u>Dr. Size</u>	<u>Part No.</u>	<u>Description</u>
A	EX-5619	SECTION-REAR SIDE BLISTER INSIDE MOLDING PLAST. BLISTER
A	EX-5620	SECTION-REAR CENTER BLISTER SIDE MOLDING " "
A	EX-5621	SECTION-CENTER ROOF BLISTER FT & REAR MOLDING " "
A	EX-5622	SECTION-FORMAL ROOF FRONT FORMAL ROOF
E	EX-5625	REAR ROOF BLISTER FRAME ASSEMBLY
A	EX-5626	ROOF CLAMP ASSY-PLASTIC ROOF & FORMAL ROOF QTR MTG (TO BODY)
A	EX-5627	ROOF CLAMP ASSY-FORMAL ROOF (REAR) (TO BODY)
A	EX-5628	CLAMP ROOF
A	EX-5629	BASE-ROOF CLAMP-PLASTIC ROOF & FORMAL ROOF QTR MTG
A	EX-5630	BASE-ROOF CLAMP-FORMAL ROOF (REAR)
A	EX-5631	PIN-ROOF CLAMP
A	EX-5632	ROOF CLAMP & LINK ASSY
A	EX-5633	LINK-ROOF CLAMP
A	EX-5634	STRIKER-ROOF CLAMP (REAR DECK)
A	EX-5635	STRIKER-ROOF CLAMP (PLASTIC ROOF QTR MTG)
A	EX-5636	STRIKER-ROOF CLAMP (FORMAL ROOF QTR MTG)
C	EX-5637	FRAME-QUARTER TRIM ESCUTCHEON PANEL
See 5637	EX-5638	FRAME-L.H. QUAR. TRIM ESCUTCH. PANEL
B	EX-5640	PARTITION CLOCK INSTALLATION PANEL
B	EX-5641	CLOCK BEZEL REOPERATION-PART. CLOCK
B	EX-5642	CLOCK HOUSING REOPERATION - PART. CLOCK
C	EX-5643	ENCLOSURE-PARTITION CLOCK
E	EX-5644	PANEL-PARTITION CLOCK ESCUTCHEON
E	EX-5645	FRAME-PART. CLOCK ESCUTCHEON PANEL
B	EX-5646	PANEL-L.H. QUAR. TRIM PANEL LEDGE
B	EX-5647	REOPERATION OF RADIO BEZEL
C	EX-5648	PANEL-L.H. QUARTER TRIM ESCUTCHEON
C	EX-5649	PANEL-R.H. QUARTER TRIM ESCUTCHEON
D	EX-5650-A	ROOF #1 BOW ASSY & LOCK ASSY LAYOUT
D	EX-5651	ROOF #1 BOW ASSY
See 5651	EX-5652	BOW-ROOF #1
A	EX-5653	SPACER-ROOF #1 BOW LOCK ASSY
D	EX-5654	FILLER-ROOF #1 BOW ROOF-FORMAL ROOF
A	EX-5655	SUPPORT-ROOF #1 BOW LOCKING HOOK PIVOT
D	EX-5656	PANEL-ROOF #1 BOW UPPER (PLASTIC ROOF ONLY)
D	EX-5657	PANEL-ROOF #1 BOW LOWER (PLASTIC ROOF)
D	EX-5658	PANEL-ROOF #1 BOW LOWER (FORMAL ROOF)
A	EX-5659-B	ROOF #1 BOW LOCK PINION GEAR & STUD ASSY
A	EX-5660-B	STUDY-ROOF #1 BOW LOCK HANDLE
A	EX-5661	GEAR-ROOF #1 BOW LOCK WORM
B	EX-5663	LUGGAGE COMPARTMENT DOOR GRAB HANDLE BRACKET ASSY
See 5663	EX-5664	BRACKET-LUGGAGE COMPT. DOOR GRAB HANDLE
A	EX-5667	STUD-LUGGAGE COMPT. DOOR GRAB HANDLE BRKT. MTG.
D	EX-5695	LAYOUT R.H. & L.H. QUAR. PANEL ESCUTCH. PANELS, FRAME, SWITCHES, LEDGES
B	EX-5696	DOOR-R.H. QUAR. PANEL TELEPHONE COMPARTMENT
A	EX-5697	HINGE-R.H. QUAR. PANEL TELEPHONE COMPT. DOOR
A	EX-5698	SPRING-R.H. QUAR. PANEL TELEPHONE COMPT. DOOR
A	EX-5699	PLATE-SWITCH COVER (1-SWITCH FOR L.H. QUAR. PANEL)
A	EX-5700	PLATE-SWITCH COVER (3-SWITCH FOR R.H. QUAR. PANEL)

<u>Dr. Size</u>	<u>Part No.</u>	<u>Description</u>
A	EX-5701	HOUSING-L.H. QUAR. PANEL (1-SW.) SWITCH
A	EX-5702	HOUSING-R.H. QUAR. PANEL (3-SW.) FT. SWITCH
A	EX-5703	HOUSING-R.H. QUAR. PANEL (3-SW.) CENTER SWITCH
A	EX-5704	HOUSING-R.H. QUAR. PANEL (3-SW.) REAR SWITCH
B	EX-5705	BAR ASSY-LUGGAGE COMPT DOOR GRAB HANDLE HOLE COVER
A	EX-5706	SPACER-LUGGAGE COMPT DOOR GRAB HANDLE HOLE COVER BAR
A	EX-5707	BUSHING-HOLE COVER BAR EXPANDABLE
A	EX-5708	COVER-GRAB HANDLE RELEASE HOLE ( $\frac{1}{2}$ DIA.)