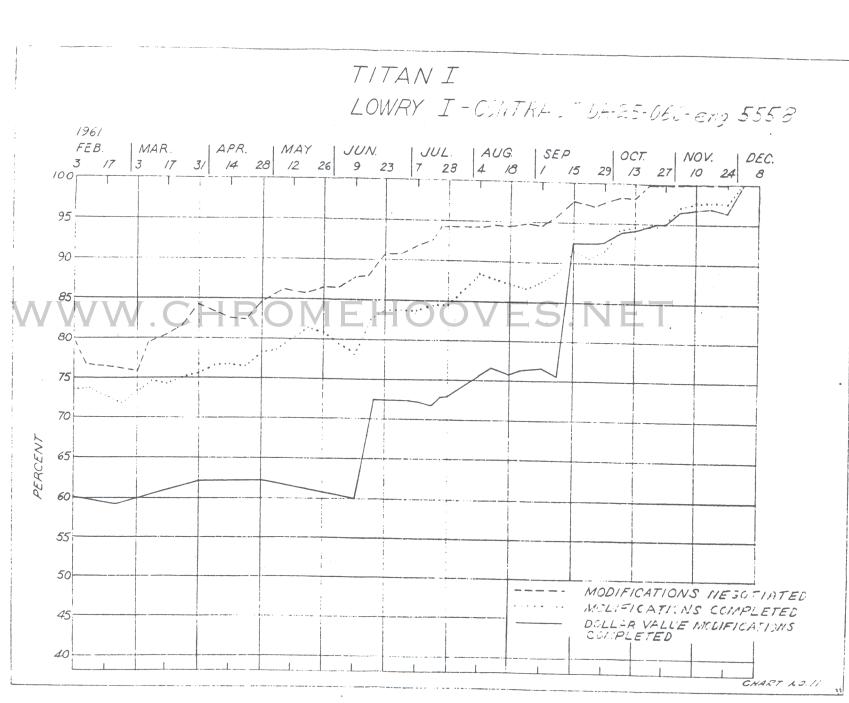
The initial site survey for the Titan I ICBM construction program

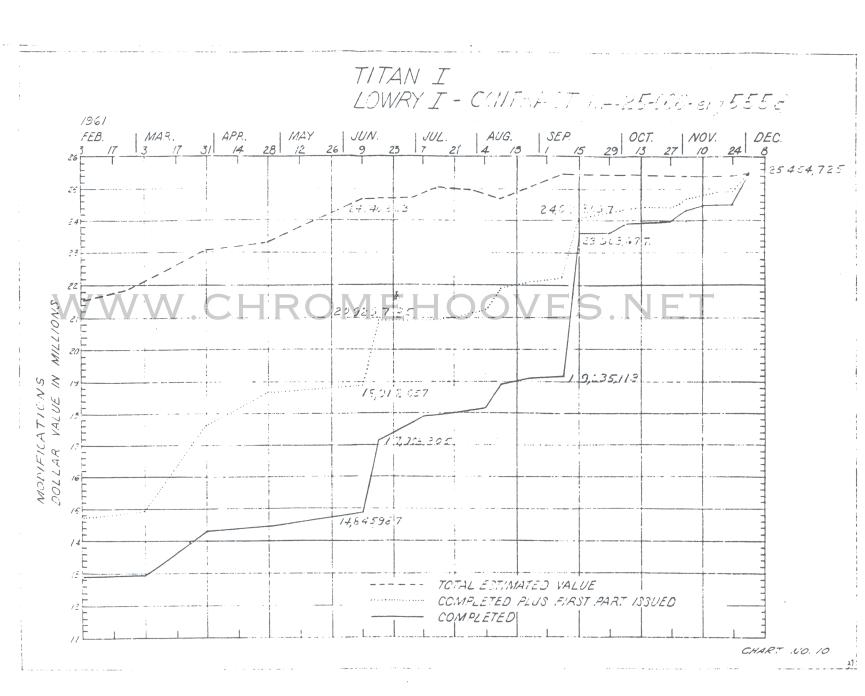
was assigned to the Denver Area under the Omaha District in September

It soon became apparent that four of the six proposed sites were without adequate access roads. To assure accessibility at the start of construction. Contract No. DA-25-066-eng-5177 was awarded to Northwestern Engineering Company on 29 September 1958 for \$294,000 for construction of approximately 10.4 miles of Lowry Range Road. This contract was completed on 20 May 1959 at a cost of \$307,709. Contract No. DA-25-066-eng-5346 was avarded to Colorado Constructors on 19 January 1959 for \$414,541.50 for construction of drainage structures on Lowry Range Road and for construction of access roads from Lowry Range Road to Sites 1A, 1B, 1C and 2A. This contract was completed on 9 September 1959 at a cost of \$423,281. To provide water at all sites at the start of construction, Contract No. DA-25-066-eng-5405 was awarded to M & G Drilling and Supply on 29 January 1959 in the amount of \$225,232 for drilling of water wells at all six sites. Twelve wells were drilled at an average depth of 1800° each, with completion on 17 July 1959 at a cost of \$411,452.

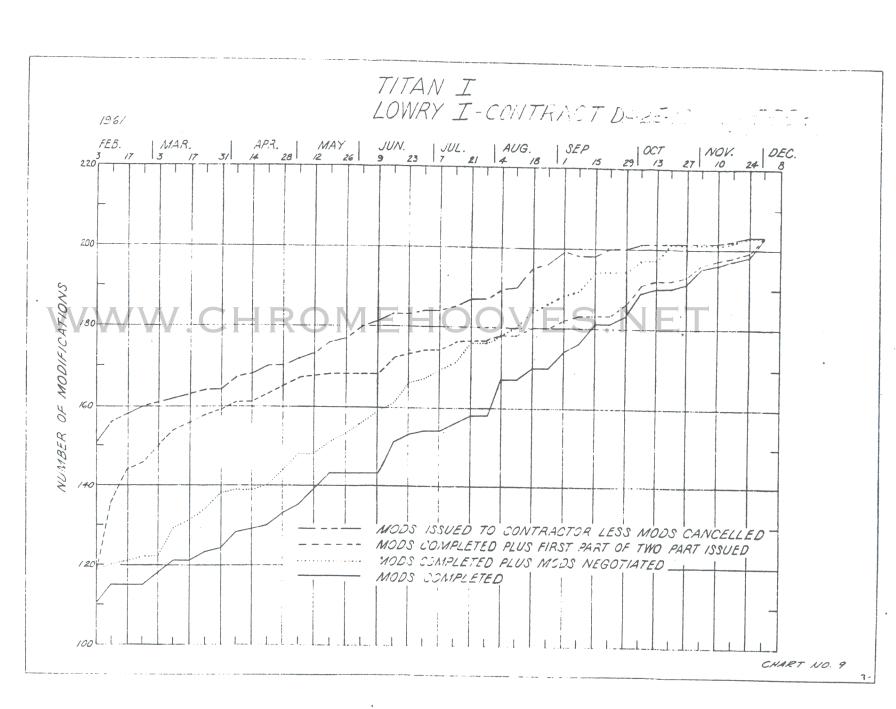
Invitation for bids for construction of Squadron I (Complexes 1A, 1B, and 1C) was dated 31 January 1959. The bids were opened on 8 April 1959 at Denver, Colorado. Contract No. DA-25-066-eng-5558 dated 17 April 1959 was awarded to a joint venture of contractors



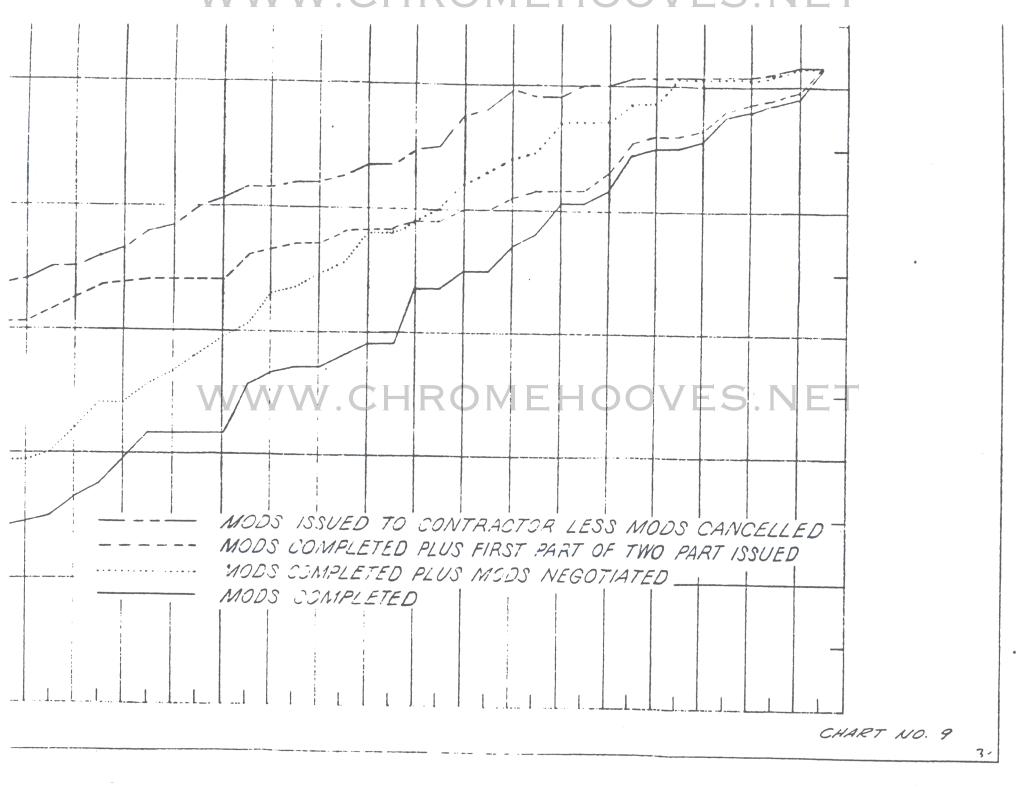
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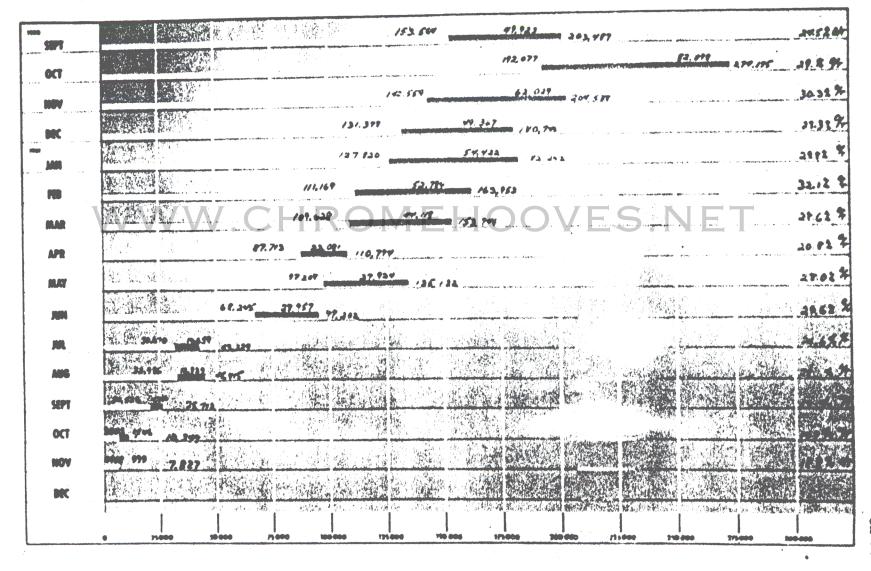
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MANHOURS CHART - CONTRACT DA 5558

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composed of Morrison-Knudsen Company, Inc., sponsor, and Paul Hardeman, Inc.; F. E. Young Construction Company; Johnson, Drake & Piper, Inc.; and Olsen Construction Company. Notice to proceed was issued on 27 April 1959 and the contractor started site work on 1 May 1959 and excavation began on 7 May 1959.

The original contract was in the amount of \$40,668,034. This amount included standardized equipment to be furnished to Squadron II.

The contract was completed on 4 August 1961 at a cost of \$66,231,948.

There were 27 modifications issued in an amount exceeding \$100,000 and 4 modifications which were formerly claims settled for an amount greater than \$100,000 each, as follows:

No.	CH Description EHOOVI	Settled Amount
1	Additional construction details 442 drawings	\$4,937,373
7	Shock mount Equipment Terminal	639,127
8	Changes to LOX tanks, structural changes to Missile Silos, Propellant Terminal, Control Center, Powerhouse, Portal Silo, and Antenna Silo	3,728,592
20	Revise guide rail brackets in Missile Silos	180,389
22	Revise piping platform supports in Missile Silos	103,605
28	Changes to Missile Silos for AMF	705,627
29	Revise water treatment facilities	1,059,405
48	Revise telephone and communication systems	106,537
58	Revise location of Powerhouse pumps	107,443
	CHDOMEHOOM	TC NET

Mod. No.	CHROMEHOOVE	Settled Amount
70	Revise Missile and Antenna Silo \$ closure doors	285,749
84	Flex hose revisions	358,534
96	Acceleration of work	2,050,000
101	Blast detector system	195,147
118	Gravel areas for associate contractors	198,700
122	Additional PLS testing equipment & personnel	578,343
145	Piping changes in Missile Silos & Propellant Terminals	225,000
149	Extension of time	1,715,457
156	Revise PLS test procedures	717,676
161	Provide & maintain air conditioning units	158,420
171	Validation testing EHOOVE Pipe supports	5 ^{67,309} ET
174	Changes to Powerhouse & associated systems	437,635
179	Change gaskets in PLS system	126,090
192	Modify chilled water piping at ice banks	111,922
207	Modify & test blast valves	189,300
225	Modify exhaust structure in Powerhouse: CBR filters	150,018
230	Overrun cement quantities	177,039
	MODS OVER \$100,000 RESULTING FROM CLAIMS	
110	Winter concrete operations	280,734
187	Rehandling Re-steel & painting A/C unit	228,297
218	Fabrication of PLS spools	109,825
V V 219 V	Tunnel and Tunnel Jct. Maintenance & repair	S161,862 E T

I UN PHILIPPILITARY T COMPLEXES 2-A, 2-B, 2-C SEPT OUT NOV DEC JAN FEE MAR APRIL MAY GUNE ! AUG SEPT OCT APRIL MAY CONE XXXY AUG 1960 Number over Ex maicares Fer complete at end of each mon

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There is one outstanding claim pending for Contract DA-5558. This claim is for additional compensation for revisions to LOX storage tanks T-201 above that included in Modification No. 8, Contract DA-5558 under unilateral settlement and claim for additional compensation for LOX subcoolers T-401 and helium subcoolers T-402 which were not changed under Modification No. 8 in the total amount of \$1,774,027.

Invitation for bids for construction of Squadron II (Complexes 2A, 2B and 2C) was dated 13 April 1959. The bids were opened on 10 June 1959 at Denver, Colorado. As a result, Contract No. DA-25-066-eng-5654 was awarded on 12 June 1959 to the same joint venture of contractors as Squadron I. Notice to proceed was issued on 1 July 1959 and site work started immediately with the first excavation on 1 July 1959.

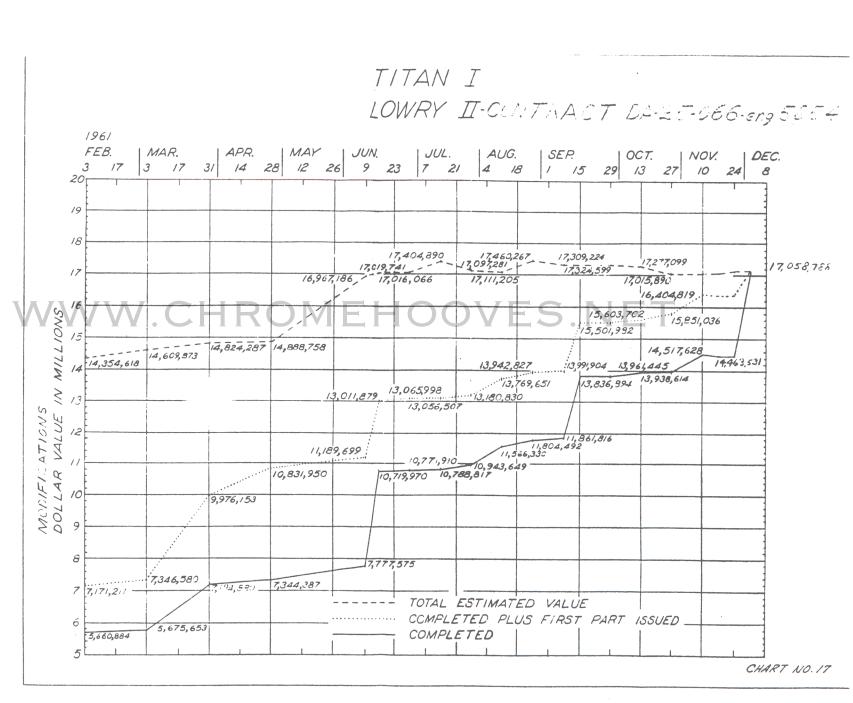
The original contract was in the amount of \$26,944,820. The contract was completed on 11 October 1961 at a cost of \$44,129,237.

There were 24 modifications issued in an amount exceeding \$100,000 and 3 modifications which were formerly claims settled for an amount greater than \$100,000 each, as follows:

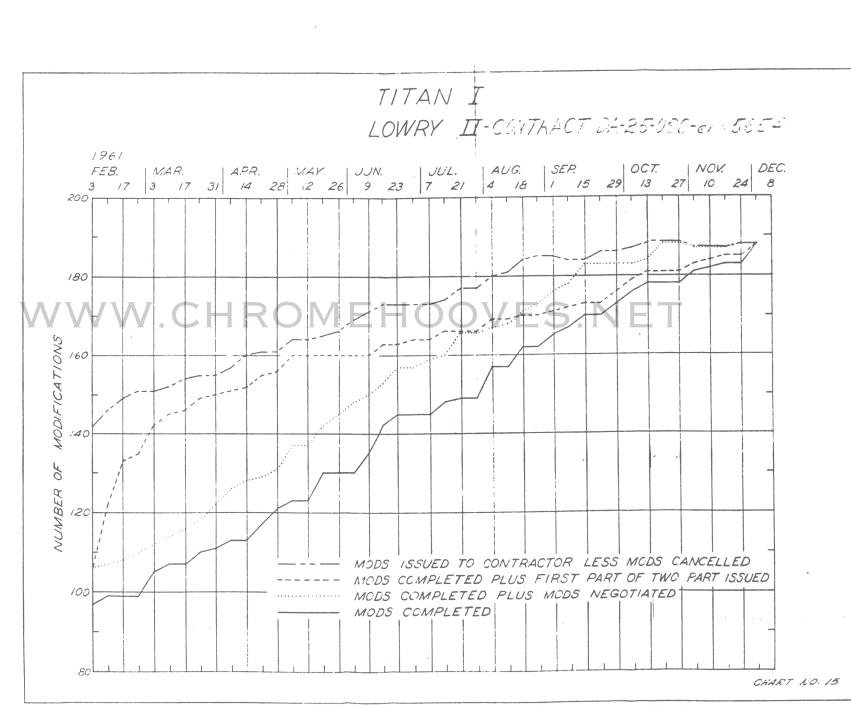
MODS OVER \$100,000

Mod. No. Description Settled Amount Shock mounting Equipment Terminal floor \$ 664,947 Changes required to correct conflicts in contract dwgs & specs; Missile Silos, Powerhouse, PLS, tunnels & general WALLER ONE HOOVES NET

Mod No.	CHRO Description OOVE	Settled Amount
11	Relocate guide rail brackets in \$ Missile Silo	153,367
19	Changes for AMF in Missile Silo	707,001
20	Revise water treatment facility	784,456
21	Emergency raw water supply in Powerhouse Add vibration isolators to compressors	106,405
36	Changes to telephone & communications systematical	em 155,236
47	Change location of pumps in Powerhouse	107,443
57	Revise Missile & Antenna Silo doors	285,749
70	Revise specs on flex hose	395,945
82	Acceleration of work	1,819,471
87	Blast detector system	193,210
120	Additional PLS test equipment & personnel Stromberg-Carlson requested changes in conduit and terminal cabinet	355,856 109,852 ET
131	Piping changes in Missile Silo and Propellant Terminal	225,000
135	Parking areas for associate contractors	197,013
139	Time extension for Mods 1-144	1,600,780
141	Revise location of wall mounted utilities & duct work in Antenna Silo	154,832
145	Revise PLS test procedure	718,197
155	Validation testing	543,889
160	Pipe supports	2,123,750
164	Powerhouse & associated systems	399,171
183	Modify chilled water piping at ice banks	111,355



TITAN I LOWRY II-CATTRACT DA-15-666-eng 5654 1961 FEB. MAR. APR. | MAY JUN. JUL. | AUG. SEP. NOV. 3 17 3 17 31 14 28 12 26 9 23 7 21 4 18 1 15 29 13 27 10 24 8 95 70 PERCENT 60 50 MODIF'CATIONS NESOTI-TES MOLINIONTIONS COMPLETED 45 DELLAR VALUE MODIFICATIONS COMPLETED CH . TT NO. 16



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Mod. No.	CHROSTIPTION	Se	ettled Amount
196	Modify & test blast valves	\$	126,200
212	Exhaust structure in Powerhouse; modify blast valves; install CBR filters		135,000
	MODS OVER \$100,000 RESULTING FROM CLAS	IMS	
98	Winter concrete operations		292,419
208	Refabrication of PLS spools		109,825
209	Tunnel and Tunnel Junction maintenance and repair		222,352

Invitation for bids for the construction of Access Roads-Phase II on Lowry Bombing Range was issued on 27 January 1960. The bids were opened on 3 March 1960 in Denver, Colorado. Contract DA-25-066-eng-6125 was awarded on 15 March 1960 to Peter Kiewit Sons' Company of Omaha, Nebraska, for \$1,298,264.50, for providing an all-weather surface for the Lowry Range Road. The contract was completed on 1 September 1960 at a cost of \$1,318,998.

Ouided Missile Assembly Building and Technical Supply Facilities on Lowry Air Force Base were constructed by Thomas Bate and Sons, Inc., of Denver, Colorado under Contract DA-25-066-eng-6160, which was awarded on 1 April 1960 in the amount of \$1,145,402. Construction was completed on 4 May 1961 at a cost of \$1,394,569. There was one modification issued in an amount greater than \$100,000. This was Modification No. 9 for additional changes to monorail and diesel generators at a total cost of \$197,742. There is one outstanding claim as of the time of this report. This claim is in the amount of \$21,610 which the

contractor states is due for use of heavy weight blocks in lieu of light weight.

Nosecone Facilities on Lowry Air Force Base, Denver, Colorado were constructed by Westwood Construction Company of Denver under Contract DA-25-066-eng-6311, awarded on 20 June 1960 in the amount of \$308,356.45. The work included Gate House, Shop-Small Arms, Storage-Spare Parts, Storage Base M/C Magazine and Storage Base Segregated. Construction was completed on 28 February 1961 at a cost of \$345,054.

Contract DA-7113, Perimeter Fencing, Squadrons I and II, Lowry

Air Force Base, Denver, Colorado, was awarded to Amco Fence Company of

Houston, Texas in the amount of \$124,749.80 on 31 July 1961. The

contract was for the installation of chain link fence complete in
cluding gates, barriers, and crossings for all six sites. The contract

was completed 14 December 1961 at a cost of \$128,267.

Contract DA-25-066-eng-5558:

Subcontractor

Automatic Sprinkler Corp. Denver, Colorado

Fenestra, Inc. Denver, Colorado

Fischbach & Moore, Inc. Denver, Colorado

Sam Fox Sheet Metal Company Denver, Colorado

William Van Genderen Company Denver, Colorado

Hopkins Construction Company Denver, Colorado

Industrial Painting Corp. Riverside, California

Johnson Service Company Denver, Colorado

Meehleis Steel Company Vernon 58, California

Otis Elevator Company New York 1, New York

Preload Company, Inc. New York 16, New York

Contract DA-25-066-eng-5654:

Automatic Sprinkler Corp. Denver, Colorado

Sam Fox Sheet Metal Company Denver, Colorado

Phase of Work

Furnish and install Fire Protection System'

Furnish and install wall panels, metal doors & hardware

Furnishing & installation of electrical work

Furnishing & installing sheet metal for ventilating & air conditioning

Installing movable wall panels, doors & hardware

Open cut excavation

Painting and Damp-proofing

Furnishing and installing temperature controls

Furnishing and installation of reinforcing steel

Furnishing and installation of elevators

Furnishing & installing horizontal prestressed reinforcement

Furnish & install fire protection system

Furnishing & installing sheet metal for ventilating & air Conditioning

Subcontractor

William Van Genderen Company Denver, Colorado

Hopkins Construction Company Denver, Colorado

Industrial Painting Corp. Riverside, California

Johnson Service Company Denver, Colorado

Ling-Howard Electric Company Denver, Colorado

Meehleis Steel Company Vernon 58, California

Otis Elevator Company New York 1, New York

Preload Company, Inc. New York 16, New York

Stearns-Roger Manufacturing Co. Denver, Colorado

Contract DA-25-066-eng-6160:

Curtis Painting & Decorating Co. Denver, Colorado

Diamond Tile Company Littleton, Colorado

M. W. Edwards Plastering Denver, Colorado

Englewood Construction Co. Englewood, Colorado

Sam Fox Sheet Metal Company Denver, Colorado,

Phase of Work

Install movable wall panels, doors & hardware

Open cut excavation

Painting and damp-proofing

Furnish & install temperature controls

Furnishing & installation of Electrical work

Furnish & install reinforcing steel

Furnish & install elevators

Furnish & install horizontal prestressed reinforcement

Install temporary air & water lines

Painting

Furnish & install ceramic floor & wall tile

Lathing and Plastering

Install sanitary sewers & outside water supply & storm drains

Sheet metal work for plumbing, heating, ventilation & air conditioning

Subcontractor

William Van Genderen Company Denver, Colorado

Lauren-Burt, Inc. Denver, Colorado

Martinson Construction Co. Denver, Colorado

Natkin and Company Denver, Colorado

L. Nothhaft and Son Denver, Colorado

Osborne Masonry Construction Co. Denver, Colorado

Reynolds Electrical and Engineering Company, Inc. Englewood, Colorado

Schriber Decorating Company Denver, Colorado

United Materials, Inc. Denver, Colorado

Western Paving Construction Company Denver, Colorado

Contract DA-25-066-eng-6311:

Aladdin Iron and Steel Corp. Denver, Colorado

Colorado Fuel & Iron Corp. Denver, Colorado

Denver, Colorado

Phase of Work:

General sheet metal work, install metal toilet partitions, & hoisting and installing of steel roof decking

Furnish & install accoustical & gypsum board ceilings, including suspension systems

Transit-mixed concrete, excavation & backfill

All mechanical work, gas distribution, water supply, sanitary sewer, process vessels and piping

Furnish & install automatic sprinkler system

All masonry work

Electrical work

Furnish & install gypsum wal

Roofing, roof insulation, perimeter insulation and dan proofing

Furnish subbase and base coubituminous pavements, etc.

Structural steel

Fencing

Curtis Painting & Decorating Co. Paint

Subcontractor

John F. McCauley, Inc. Denver, Colorado

Mechanical Work

Reynolds Electrical & Engineering

Electrical Work

Co., Inc.

Englewood, Colorado

Masonry Work

Norman D. Schillo Littleton, Colorado

Paving

Western Paving Company Denver, Colorado

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Contracting Officer Authority for the missile construction work near Denver, Colorado, was retained by Omaha District from 29 September 1958 to 15 April 1960, at which time the Area Engineer, Denver, Area, Omaha District was designated successor Contracting Officer.

By letter dated 13 April 1959, Lt. Colonel Paavo D. Carlson was delegated Authorized Representative of the Contracting Officer by D. G. Hammond, Colonel, Corps of Engineers, District Engineer, Contracting Officer, Omaha District.

By letter dated 17 April 1959 from Colonel D. G. Hammond, District

Letter indicated the estimates would not receive a detailed review by the Omaha District

Office.

Letter dated 11 June 1959 from Leonard J. Goodsell, Lt. Colonel, Corps of Engineers, Deputy Omaha District Engineer, Contracting Officer, designated William J. Brummette Authorized Representative of the Contracting Officer during such time as he was designated Acting Area Engineer of the Denver Area by Area Order.

By letter dated 6 August 1959, Mr. Brummette was redesignated

Authorized Representative of the Contracting Officer by John M. Frassrand,

Lt. Colonel, Corps of Engineers, Contracting Officer, with the same

Vrestriction as imposed by Lt. Colonel Leonard J. Goodsell when he was

Contracting Officer.

By letter dated 13 April 1960, D. G. Hammond, Colonel, Corps of Engineers, Omaha District Engineer, designated Lt. Colonel Carlson Contracting Officer with a five million dollar aggregate amount limit per contract and with the provisions that he would issue no time extensions without the prior approval of the District Engineer.

By letter dated 14 April 1960 from Colonel Hammond, Contracting Officer authority was transferred to Lt. Colonel Carlson for contracts DA-5558, DA-5654, DA-5685, DA-6125, and DA-6160.

By letter dated 15 April 1960 from Colonel Hammond, Contracting

Officer authority was transferred to Lt. Colonel Carlson for contracts DA-5956, DA-6056, DA-5685, DA-6141, and C-60-649. With the
transferral of Contracting Officer authority, the official files were
transferred to the Denver Area.

Lt. Colonel Carlson designated Ralph F. Rader (or C. A. Rife,
Alternate) Contracting Officer Representative by letter dated 18 April
1960 for purpose of approving shop drawings.

Lt. Colonel Carlson designated Jerald K. Riggs (or Carl G. Johnson, Alternate) Contracting Officer Representative for purpose of approving payment estimates, by letter dated 18 April 1960.

By letter dated 16 July 1960, Lt. Colonel Carlson was redelegated WWW.CHROMEHOOVES.NET

Contracting Officer Authority by Colonel H. G. Woodbury, Jr., Corps of Engineers, District Engineer, Contracting Officer (Colonel Woodbury succeeded Colonel Hammond as District Engineer.)

By letter dated 16 July 1960, Lt. Colonel Paavo D. Carlson was designated Authorized Representative of the Contracting Officer by Colonel H. G. Woodbury, Corps of Engineers, District Engineer, on all contracts for which his predecessor, Colonel Hammond, had served as Contracting Officer.

By letter dated 16 July 1960, Mr. Brummette was designated authorized representative of the Contracting Officer by Colonel Woodbury,

District Engineer, on all contracts for which his predecessor, Colonel

Hammond, had served as Contracting Officer and under the same terms.

By letter dated 11 August 1960, Lt. Colonel Paavo D. Carlson was designated Authorized Representative of the Contracting Officer for Contract DA-5697 by J. M. Frassrand, Lt. Colonel, Corps of Engineers, Contracting Officer, Omaha District.

Colonel Carlin H. Whitesell, Deputy Commander for Titan I, CEBMCO, was designated Contracting Officer by Brigadier General A. C. Welling, Special Order 45, OCE, dated 12 August 1960.

By letter dated 11 September 1960, from General Welling, CEBMCO, Colonel Carlin H. Whitesell was designated Contracting Officer and Successor Contracting Officer.

Letter dated 30 September 1960 from Omaha District Office to Mr.

Brummette indicated that authorization as representative of Contracting Officer in letters dated 11 June 1959 and 6 August 1959 would be applicable on or after 1 October 1960 to those contracts in the Denver Area which remained under the jurisdiction of the U. S. Army Engineer District, Omaha, Letter signed by Colonel Frassrand, Contracting Officer.

Letter dated 30 September 1960 from Omaha District Office, signed by Colonel Woodbury, designated Mr. Brummette as Authorized Representative of Contracting Officer in accordance with letters dated 13 April 1959 and 16 July 1960 on or after 1 October 1960 to those contracts in the Denver Area which remained under the jurisdiction of the U.S. Army Engineer District, Omaha. E.H.O.O.E.S.N.E.T.

Letter from Omaha District Officer dated 30 September 1960, Lt.

Colonel J. M. Frassrand, Contracting Officer to Lt. Colonel Paavo D.

Carlson revoking designation of authorized representative of Contracting Officer for the purpose of supervision and inspection of all work under Contract DA-5697 which was designated by letter dated 11 August 1959.

Letter dated 30 September 1960 from Omaha District, Colonel H. G. Woodbury, District Engineer, Contracting Officer to Lt. Colonel Paavo D. Carlson, indicating that authorization as Authorized Representative of the Contracting Officer would only be applicable on or after 1 October 1960 to those contracts in the Denver Area which remained under the jurisdiction of the U. S. Army Engineer District, Omaha.

Colonel Carlson revoking Contracting Officer Authority, COB 30

September 1960, which was delegated in letters dated 13 April 1960 and 16 July 1960.

By letter datedl October 1960 from Colonel C. H. Whitesell, Lt. Colonel Carlson was designated Successor Contracting Officer for Contracts DA-5558, DA-5654, DA-6125, DA-6160, and DA-6311.

By letter dated 17 October 1960 from Colonel Whitesell, Lt. Colonel Carlson's Contracting Officer Authority was amended to require prior approval by the Titan I Director for those modifications involving acceleration to buy back time, time extensions, and those affecting other Titan I construction sites.

By letter dated 1 March 1961 from Department of the Army signed by Major General Keith R. Barney, Deputy Chief of Engineers for Construction, Colonel Joe A. Clema was delegated Contracting Officer for Lowry Area.

By letter dated 1 March 1961 from Colonel Whitesell, Colonel Clema's Contracting Officer's Authority as designated by General Barney was limited to existing contracts and new contracts subject to specific approval by the Titan I Director. Colonel Clema's authority also required prior approval by the Titan I Director for modifications involving acceleration to buy back time, time extensions, and those effecting other Titan I construction sites.

By letter dated 1 March 1961 from Colonel Whitesell to Lt. Colonel

Carlson, Successor Contracting Officer authority which was delegated in letter dated 1 October 1960 was revoked effective 1 March 1961.

By letter dated 9 March 1961 from Colonel Clema to Major George W. Keyes, Lowry Area, delegation as Authorized Representative of the Contracting Officer for Contracts DA-5558 and DA-5654 was granted.

By letter dated 20 March 1961 from Colonel Clema, Captain William

P. Rorabaugh, Lowry Area, was designated Authorized Representative of
the Contracting Officer for Contracts DA-5558 and DA-5654 for the purpose of implementing General Provision 9 (Inspection) of subject contracts.

Contract DA-7113 was awarded on 31 July 1961 with Colonel J. J.

Haley Omaha District as Contracting Officer. By letter dated 4

August 1961 from Omaha District, Colonel Haley designated Colonel

Clema as Successor Contracting Officer for Contract DA-7113.

By letter dated 11 August 1961 from Colonel Clema, Mr. Robert H. Brown was designated Authorized Representative of the Contracting Officer for Contracts DA-5558, DA-5654, and DA-7113 with authority to approve interim and final "as-built" drawings.

By letter dated 11 September 1961 from Colonel Clema, Mr. Brown was designated Authorized Representative of the Contracting Officer for Contracts DA-5558, DA-5654, and DA-7113 with authority to approve shop drawings.