

UNITED STATES GENERAL ACCOUNTING OFFICE
WASHINGTON, D.C. 20548

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RESOURCES AND ECONOMIC
DEVELOPMENT DIVISION

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B-180617

MAR 4 - 1974

RELEASED

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The Honorable Andrew Young
House of Representatives

Dear Mr. Young:

Pursuant to your request of February 7, 1974, and subsequent agreement, we are enclosing information on contracts for rail rapid transit projects in Atlanta, Georgia; San Francisco, California; and Washington, D.C.

As agreed, we have not verified the completeness or accuracy of the information collected from the three transit systems. This fact should be considered in any use made of this material.

We are also forwarding this information today to Congressmen Fortney H. Stark, Jr., Joseph Moakley, and Stewart B. McKinney.

Sincerely yours,

Henry Eschwege
Henry Eschwege
Director

Enclosures - 3

BEST DOCUMENT AVAILABLE

~~90-66-74~~
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SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
RAIL RAPID TRANSIT CONTRACTS

Total cost--all contracts as of October 1, 1973	\$1,522 million
Total cost--all contracts listed in this enclosure (\$3 million or more)	\$ 922 million
Percentage of listed contracts to total contracts	61

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

Information on Major Contracts
as of October 1973

Contract No. and date	Name of contractor	General description of contract task	Contract completion date		Contract cost	
			Original	Actual or currently projected	Original (millions)	Actual or currently projected (millions)
LA0011 8/11/66	Stolte, Inc.	7th/8th Ave. to 38th Ave., Oakland	June 4, 1968	April 10, 1969	\$ 4,511	\$ 4,790
LA0021 8/11/66	Stolte, Inc.	38th Ave. to 81st Ave., Oakland	June 4, 1968	April 10, 1969	5,419	5,589
LA0031 5/26/66	Stolte, Inc.	81st Ave. to Oakland--San Leandro	Mar. 30, 1968	Mar. 27, 1969	4,149	4,257
LA0041 5/26/66	Stolte, Inc.	Oakland--San Leandro to Halcyon	May 18, 1968	Mar. 27, 1969	6,426	6,468
LA0051 9/8/66	Stolte, Inc.	Ashland Ave. to "C" St., Hayward	Mar. 7, 1968	Aug. 14, 1969	5,326	5,583
LA0077 1/24/74	Muni Track Const.	Test Track, Hayward	Aug. 1, 1975	Oct. 1975	4,968	4,968
LA0081 8/6/69	Olson, Inc.	Whipple Rd. to Niles Blvd., Union City	Feb. 24, 1971	July 14, 1970	2,841	3,084
LA1011 2/26/68	Newbery Elect. Corp.	Electrification - "A" line	Sept. 11, 1969	Jan. 14, 1971	3,025	4,558
LB0021 2/16/67	Massman-Johnson	Subway - Maritime St. to Oakland, Vent	Dec. 23, 1968	Sept. 25, 1969	6,230	6,249
LB0031 1/11/68	Perini Corp.	Subway - Spear St. to San Fran., Vent	Nov. 10, 1969	Mar. 12, 1970	14,624	15,022
LC0041 2/11/65	Shea-Kaiser, Inc.	Berkeley Hills Tunnel	Dec. 28, 1968	Jan. 23, 1969	30,958	31,633
LC0071 3/14/68	Polich-Benedict	Hillcrest to Parkside	Dec. 15, 1969	May 14, 1970	3,648	3,640
LC0081 12/10/70	H. Phelps	Concord Sta. & Line	Oct. 17, 1972	Mar. 8, 1973	4,251	4,779

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			Original	Actual or currently projected	Original (millions)	Actual or currently projected (millions)
1K0013 5/12/66	Massman Const.	Subway - 21st to 24th, Oakland	June 29, 1968	April 10, 1969	\$ 4,064	\$ 4,148
1K0014 6/9/66	McLean-Grove	12th St. Sta. to Madison St., Tunnel	Aug. 20, 1968	Aug. 28, 1969	7,934	8,097
1K0015 11/10/66	Early-Winston	19th St. Sta. Shell	Nov. 4, 1969	Feb. 26, 1970	14,988	16,046
1K0016 12/22/66	Perini et al	12th St. Sta. Shell	Oct. 21, 1969	Nov. 20, 1969	19,429	20,194
1K0051 12/9/65	Fruin-Colnon	Fallon St. to 7th Ave., Oakland	Aug. 21, 1969	Feb. 9, 1968	4,381	4,436
1K0061 9/28/67	Gordon Ball	Oakland Wye to Jefferson St.	Mar. 14, 1970	April 9, 1970	15,706	15,931
1K0071 5/11/67	Rothschild & Raffin	Lake Merritt Sta. Shell & Adm. Footing	July 27, 1969	Nov. 13, 1969	6,043	6,538
1K0073 12/11/69	Rothschild & Raffin	Admin. Bldg.	May 10, 1971	Dec. 9, 1971	2,838	3,126
1C1011 6/6/69	Midland Ind. Elect.	Track Elect. - C001 - C018	May 24, 1971	April 12, 1973	2,879	3,478
1M0011 3/9/67	Kiewit & Traylor	16th St. to 23d St., S. F.--Subway	Sept. 2, 1969	Sept. 25, 1969	12,735	12,804
1M0012 11/9/67	Rothschild & Raffin	16th St. Sta. Shell	June 8, 1970	Aug. 13, 1970	6,116	6,383
1M0013 11/9/67	" " "	24th St. Sta. Shell	May 11, 1970	June 23, 1970	5,811	6,010
1M0031 4/27/67	Morrison et al	24th St. to Randall St., S. F., Subway	Sept. 22, 1969	Dec. 11, 1970	11,679	11,604
1M0041 9/8/67	S & M Const., Inc.	Randall St. to Glen Park Sta., S. F.	April 14, 1970	Aug. 13, 1970	9,357	9,662
1M0042 12/14/67	P. Kiewit Sons	Glen Park Sta. to Santa Rosa Ave., Subway	Dec. 6, 1969	Dec. 11, 1969	4,966	4,738
1M0043 6/25/68	" " "	Glen Park Sta. Shell	June 1, 1970	June 25, 1970	3,424	3,566
1M0051 10/22/68	Gordon Ball	Balboa Sta. Shell & Line	Sept. 11, 1970	Nov. 12, 1970	8,574	8,881
1M0061 2/28/69	Hensen Phelps	Modoc St. to Crystal St. Line	Aug. 3, 1970	April 8, 1971	3,075	3,069

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1P0050 11/13/69	Shea Co., Inc.	Ashby Sta. Shell	June 5, 1971	Jan. 27, 1972	\$ 4,331	\$ 4,682
1R0051 8/11/66	Haas & Haynie Corp.	Berkeley Sta. Shell	Jan. 8, 1969	Mar. 27, 1969	5,978	6,150
1R0052 10/13/66	Fruin-Colnon	Berkeley South, Subway	Mar. 30, 1969	July 25, 1968	5,936	5,916
1R0053 10/13/66	Shea-Macco	Berkeley North, Subway	May 5, 1969	July 3, 1969	7,354	7,883
1R0054 7/29/68	Shea	Berkeley/Oakland to Ashby Station	Aug. 24, 1970	Aug. 13, 1970	3,782	3,933
1R0057 5/28/68	Fruin-Colnon	Calif. St. to No. Berkeley Sta.	April 14, 1970	April 9, 1970	3,916	3,890
1R0081 4/28/66	D. M. Drake Co.	Garfield Ave. to Knott Blvd.	Jan. 15, 1968	June 27, 1968	4,795	4,822
1R0091 6/18/68	Fruin-Colnon	Knott Blvd. to 20th St.	Aug. 24, 1970	Aug. 13, 1970	2,954	3,577
1R0101 8/25/69	Rothschild & Raffin	Richmond yard & line	May 25, 1971	June 8, 1972	4,032	4,257
1S0011 5/25/67	Ball, Granite, Shea	Subway Montgomery to Powell St.	April 13, 1970	Sept. 10, 1970	9,267	9,302
1S0012 5/25/67	Willston, Drake, Early	Montgomery St. Sta. Shell	Sept. 14, 1970	Oct. 8, 1970	14,177	14,872
1S0013 6/28/67	Ball, Granite, Shea	Powell St. Sta. Shell	April 10, 1971	Oct. 28, 1971	16,551	16,114
1S0021 6/28/67	Delewere Corp.	Subway, Powell St. to Civ. Center	March 2, 1970	April 8, 1971	10,467	11,379
1S0022 10/13/66	Morrison et al	Civ. Center Sta. to 16th St. Sta.	March 24, 1970	May 14, 1970	17,764	18,120
1S0023 4/27/67	McClellan-Grove Co.	Civ. Center Sta. Shell	Jan. 25, 1970	June 3, 1971	18,266	20,634
1S0024 8/5/70	P. Kiewit	Van Ness Sta. Shell & Tunnel Const.	March 9, 1973	Sept. 25, 1973	10,732	11,048
1S0031 5/28/70	Fruin-Colnon Corp.	Van Ness Sta. to Duboce Ave.	Dec. 9, 1972	Sept. 27, 1973	10,967	12,039

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1S0032 10/13/72	Fruin-Colnon Corp.	Duboce Ave. to Sanchez St. & Church Sta. Sh.	May 6, 1975	not available	\$10,056	\$ 10,050
1S0033 12/14/72	" " "	Church Sta. to Twin Pks. and Castro Sta. Shell	July 19, 1975	not available	12,181	12,192
1S0041 8/74	To be awarded	West Portal Sta. & Line	-	Oct. 1976	5,735	5,735
1S0051 1/17/69	Morrison-Knudsen	Embarcadero Sta. Shell & Crossover	Dec. 4, 1971	Nov. 9, 1972	20,042	22,347
1S1011 2/12/70	American Cont., Inc.	Track Electrification - K006 - M007	Mar. 20, 1972	June 21, 1973	3,140	4,170
1S3011 6/11/70	Rothschild & Raffin	Montgomery St. Sta. Finish	Nov. 1, 1971	May 25, 1972	3,058	3,172
1S3012 6/11/70	" "	Powell St. Station "	Jan. 3, 1972	Sept. 14, 1972	3,036	3,173
1S3014 6/1/71	H. J. Olsen, Inc.	Powell St. Sta., Mez. ext.	April 17, 1973	Oct. 25, 1973	5,003	5,271
1S3051 4/26/73	H. J. Olsen, Inc.	Embarcadero Sta. Finish	Nov. 8, 1975	Nov. 8, 1975	14,094	14,359
1S3021 7/9/70	Christensen & Foster	Civ. Center Sta. Finish	Jan. 10, 1972	Sept. 14, 1972	3,028	3,232
1T0011 1/28/66	Trans Bay Const.	Tube & S. F. Vent Bldg.	Oct. 9, 1969	Sept. 25, 1969	89,875	94,008
1T0013 12/12/67	American Cont.	Elect. & Mech. Trans Bay tube	June 22, 1970	April 22, 1971	2,939	3,143
1Z2011 3/23/67	Westinghouse	Train Control	Jan. 17, 1971	not available	28,800	39,764
1Z4481 4/22/68	Dravo Corp.	Track work, K007-A007, R001-K001	Aug. 18, 1969	Oct. 8, 1970	8,769	11,588
1Z4482 6/30/69	" "	Track work, C001-C008	Aug. 16, 1971	Mar. 9, 1972	6,896	9,529
1Z4483 2/20/70	Dravo, Gordon Ball	" " , K006-M007	July 19, 1971	Dec. 9, 1971	8,543	9,519
1Z4487 10/30/69	A. Smith	" " , R--2-R010	March 22, 1971	June 8, 1972	5,815	6,510

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original (millions)</u>	<u>Actual or currently projected (millions)</u>
1Z4552 10/10/68	Westinghouse	Escalator II	Aug. 30, 1972	not available	\$ 2,183	\$ 3,036
1Z4791 6/27/68	IBM	Fare Collection	Dec. 20, 1971	not available	5,450	7,210
2Z1011 12/12/67	Gen. Elect.	Substation Equipment	April 5, 1971	April 5, 1971	5,099	6,710
2Z1014 11/30/67	Kaiser Alum.	1,000 volt D. C. contact rail	Oct. 25, 1971	Oct. 25, 1971	8,477	9,021
2Z4316 5/17/65	Kaiser Steel	Tunnel liners systwide	Feb. 28, 1972	Feb. 28, 1972	27,323	27,705
2Z4602 7/3/69	Rohr Corp.	Transit vehicle	June 5, 1972	not available	66,708	162,124
2Z1016 1/10/74	Gen. Elect.	Substation equip. cap. increase	March 31, 1975	March 31, 1975	3,463	3,463
1C0011 2/9/67	Gordon Ball	Rockridge Sta. Track & Platform Struct. & Aerial Struct.	Jan. 15, 1970	March 6, 1970	6,414	6,607
1R0011 -	Guy Atkinson Co.	McArthur Sta. Shell & Line	March 3, 1969	Aug. 12, 1969	6,215	6,561
1C0051 6/17/67	Gordon Ball	Berkeley Hills Tunnel to Acalanes Rs.	April 23, 1970	May 15, 1970	8,600	8,915
1C0061 9/11/67	P. Kiewit & Sons	Lafayette to Hillcrest Dr., Walnut Creek	July 28, 1969	April 8, 1971	9,100	11,774
1A0062 6/6/67	Stolte, Inc.	Five (5) Grade Separation Struct., Hayward	Sept. 30, 1968	May 22, 1969	2,983	3,000
					<u>\$774,669</u>	<u>\$921,837</u>

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
RAIL RAPID TRANSIT CONTRACTS

Total cost -- all contracts as of February 7, 1974	\$1,371 million
Total cost -- all contracts listed in this enclosure (\$1 million or more)	\$1,161 million
Percentage of listed contracts to total contracts	85

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

INFORMATION ON MAJOR CONTRACTS

AS OF FEBRUARY 1974

<u>Contract number and date</u>	<u>Name of contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>	
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
<u>Line and Station Construction</u>						
----- (millions) -----						
1A0011 8/70	Peter Kiewit Sons' Company	Tunnel and METRO Center Station structural construction	7/73	9/74	\$ 38.0	\$ 41.8
1A0021 12/69	American Structures - MEMCO	Tunnel construction	9/71	2/74	12.3	16.3
1A0031 2/71	Intercounty Construction, Buckley and Conduit Foundation (Joint venture)	Tunnel and Farragut North Station structural construction	6/73	1/75	23.0	23.4
1A0043 3/70	S. A. Healey Company	Tunnel construction	6/71	3/73	7.1	12.9
1A0044 6/71	Granite Construction Company	Tunnel and DuPont Circle Station structural construction	6/73	7/74	11.7	17.4
1A0061 2/73	Morrison-Knudsen Company, Inc., American Structures, J. R. Steers (Joint venture)	Tunnel and Zoological Park, Cleveland Park, and Van Ness-WFI Stations structural construction	12/75	12/75	30.6	30.6
1A3011 3/73	Morrison-Knudsen Company, Inc.	METRO Center Station finish construction	7/75	8/75	5.5	5.5
1A3031 3/73	Morrison-Knudsen Company, Inc.	Farragut North Station finish construction	8/74	2/75	3.5	3.5
1B0011 12/69	Gordon H. Ball, Inc., J. F. Shea Company, Norair Engineering Corporation (Joint venture)	Tunnel and Judiciary Square and Gallery Place (Upper Level) Stations structural	7/72	1/74	33.7	36.7
1B0021 5/70	Norair Engineering Corporation	Tunnel construction	8/72	2/74	12.3	12.5

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

INFORMATION ON MAJOR CONTRACTS

AS OF FEBRUARY 1974

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			Original	Actual or currently projected	Original	Actual or currently projected	
						-----(millions)-----	
1B0031 12/71	Norsair Engineering Corporation	Washington Terminal Company steam and air facilities	4/73	1/74	\$.8	\$	1.3
1B0032 3/71	P & Z Company, Inc.-Mergentime Corporation	Tunnel and half of Union Station - Visitor Center Station structural construction	12/72	4/74	6.4		6.6
1B0033 3/72	Norsair Engineering Corporation	Tunnel, surface, aerial, and half of Union Station - Visitor Center Station structural construction	11/73	5/75	13.2		15.4
1B004B 11/71	Granite Construction Company	Surface, aerial, and Rhode Island Avenue Station structural and finish construction	9/73	12/73	9.8		9.9
1B0051 7/71	METRO Track Constructors	WMATA main line and yard construction	1/73	9/73	3.2		3.6
1B0061 3/71	Allied Contractors, Inc.	Move highway and railroad structures and prepare for surface line	7/72	9/73	1.1		1.2
1B0062 8/72	Corson and Gruman Company, Inc.	Move highway and railroad bridges and prepare for surface line	11/74	1/75	4.4		4.5
1B0063 5/73	The Lane Construction Corporation	Grade and drain for surface line	12/75	12/75	26.5		26.5
1B0065 5/73	Excavation Construction, Inc.	Fort Totten, Takoma, and Silver Spring	2/76	1/76	21.4		21.4
1B3011 8/72	The George Hyman Construction Company	Gallery Place and Judiciary Square Stations finish construction	12/73	12/73	4.0		4.0

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----(millions)----</u>	
1B3032 5/73	The George Hyman Construction Company	Union Station - Visitor Center Station finish construction	2/75	2/75	\$ 2.5	\$ 2.5
1C0011 5/72	Early - Massman (Joint venture)	Tunnel and McPherson Square Station structural construction	11/74	7/75	19.0	19.5
1C0021 9/71	Morrison - Knudsen Company, Inc.	Tunnel and Farragut West Station structural construction	4/74	11/74	31.0	31.2
1C0031 7/71	Maseman, Kiewit, and Early - Joint venture	Tunnel and Foggy Bottom Station structural construction	1/74	1/75	26.0	26.1
1C0041 4/71	J. F. Shea Company, Gordon H. Ball, Inc., and S&M Constructors (Joint venture)	Tunnel under Potomac River	12/73	8/75	23.4	30.3
1C0051 6/71	J. F. Shea Co. and Gordon H. Ball, Inc. (Joint venture)	Tunnel, surface, and Rosslyn Station structural construction	2/74	3/75	25.5	30.5
1C0061 12/72	Morrison-Knudsen Company, Inc.	Tunnel construction	1/75	2/75	17.1	17.1
1C0062 3/72	Norair Engineering Corporation	Tunnel and Pentagon Station structural construction	9/74	1/75	17.6	17.7
1C0065 5/73	Excavation Construction, Inc.	Surface and Arlington Cemetery Station structural construction	10/74	10/74	6.3	6.3
1C0071 2/72	Square Construction Company and LaFera Contracting Company (Joint venture)	Tunnel and Pentagon City Station structural construction	9/74	3/75	23.1	23.3

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					------(millions)-----	
1C0081 10/72	Peter Kiewit Sons' Company	Tunnel and Crystal City Station structural construction	4/75	5/75	\$ 19.3	\$ 19.3
1C0082 6/73	Ohio Valley/Hardaway (Joint venture)	Aerial line substructure construction	1/75	1/75	4.6	4.6
1C0083 11/73	Granite Construction Company	Aerial line superstructure and National Airport Station structural construction	4/76	4/76	14.5	14.5
1D0011 10/72	P & Z Company, Inc., and J. F. Shea Company (Joint venture)	Tunnel and Federal Triangle Station structural construction	4/75	9/75	29.2	29.7
1D0021 6/72	Swindell-Dressler and Paul R. Jackson (Joint venture)	Tunnel and Smithsonian Station structural construction	11/74	3/75	14.7	14.8
1D0031 8/72	Slattery Associates and Grow Tunneling Company	Tunnel and L'Enfant Plaza Station structural construction	9/75	9/75	48.8	48.9
1D0041 9/72	S & M Constructors and Traylor Brothers (Joint venture)	Tunnel construction	10/74	5/75	22.4	22.3
1D0042 9/72	Mergentime-Steers-Arundel (Joint venture)	Federal Center SW Station structural construction	2/75	2/75	17.9	18.1
1D0043 1/73	S. A. Healy Company - Kruse Construction Company (Joint venture)	Capitol South Station structural construction	3/75	3/75	12.1	12.2
1D0061 9/72	S. A. Healy Company - Kruse Construction Company (Joint venture)	Tunnel and Eastern Market Station structural construction	1/75	1/75	31.9	31.9
1D0071 - 11/72	Norair Engineering Corporation	Potomac Avenue Station structural construction	2/75	6/75	11.4	11.4

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					<u>----- (millions) -----</u>	
1D0081 9/73	Granite Construction Company -- S. J. Groves Company (Joint venture)	Tunnel and Stadium-Armory Station structural construction	10/75	11/75	\$ 27.4	\$ 27.4
1D0082 5/73	Peter Kiewit Sons' Company	Relocate utilities at Stadium-Armory Station	11/73	11/73	1.0	1.0
1D0091 1/74	Fruin - Colnon Corporation	Tunnel and surface construction	N/A (note a)		13.0	13.0
1F0011 8/73	Gordon H. Ball, Inc.	Tunnel and Gallery Place Station (lower level) structural construction	4/76	4/76	20.1	20.1
1F0012 12/72	Dravo Corporation	Tunnel and Archives Station structural construction	7/75	7/75	28.6	28.6
1K0041 10/73	Morrison-Knudsen Company, Inc.	Tunnel and Glebe Road Station structural construction	8/75	8/75	6.4	6.4
1L0022 3/73	Virginia Department of Highways	Tunnel construction, including transition to surface line	8/75	8/75	12.5	12.4
<u>Equipment Contracts</u>						
1Z1041 10/73	Truland Corporation	Installation of power equipment (partial)	12/75	12/75	1.1	1.1

^a Completion date cannot yet be calculated.

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					<u>----- (millions) -----</u>	
1Z2011 9/71	General Railway Signal Company	Train Supervisory Control System	11/74	4/75	\$ 42.1	\$ 42.1
1Z2021 4/72	Seal and Company, Inc.	Communications System	10/76	10/76	5.5	5.8
1Z3101 7/73	The George Hyman Construction Company	Interior finish - Operations Control Center Building	4/74	4/74	1.3	1.3
1Z4051 12/71	Westinghouse Electric Corporation	Escalators phase I - furnish and install	1/75	1/75	12.4	14.1
1Z4052 3/73	Westinghouse Electric Corporation	Escalators phase II - furnish and install	1/76	1/76	13.5	13.5
1Z4081 4/71	METRO Track Constructors	Trackwork phase I - furnish and install	1/74	1/75	8.3	9.7
1Z4082 1/74	METRO Track Constructors	Trackwork phase II-- furnish and install	N/A (note a)		12.6	12.6
1Z4101 7/71	The George Hyman Construction Company	Operations Control Center Building structural construction	9/73	12/73	11.7	11.8
1Z420A 11/71	Whiting Corporation	Transit car hoists and turntables	10/73	10/73	1.5	1.5
1Z4202 10/71	The George Hyman Construction Company	WMATA Main Shop Building construction	1/73	5/73	5.5	5.8
2Z0061 6/72	Rohr Industries, Inc.	Vehicles (one-half of total quantity)	6/76	6/76	91.6	91.6

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<u>Contract number and date</u>	<u>Name of contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>	
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					----- (millions) -----	
2Z1031 5/71	General Electric Company	Purchase of power equipment (partial)	9/73	11/73	\$ 1.8	\$ 2.0
<u>Section Design</u>						
3A0011 3/68	Sverdrup & Parcel	Design tunnel and METRO Center Station	12/69	4/70	.8	1.2
3A0031 2/68	Rummel, Klepper & Kahl	Design tunnel and Farragut North Station	5/70	6/70	.7	1.0
3A0041 12/67	Kaiser Engineers	Design tunnel and DuPont Circle Station	7/68	11/69	.9	1.2
3A0061 2/71	Harza Associates of D.C.	Design tunnel and Zoological Park, Cleveland Park, and Van Ness - WII Stations	7/72	.8/72	2.2	2.6
3A0091 1/72	Ralph M. Parsons Company and Parsons Associates	Design tunnel and Tenley Circle and Friendship Heights Stations	1/73	3/73	2.2	2.3
3A0111 5/73	Mathews-Chatelain-Beall (joint venture)	Design tunnel and Bethesda and Medical Center Stations	8/74	8/74	2.2	2.2
3B0011 8/67	Ammann & Whitney	Design tunnel and Judiciary Square and Gallery Place (upper level) Stations	6/68	7/69	1.0	1.3
3B0031 3/68	J. E. Greiner Company, Inc.	Design tunnel, surface, and aerial line, and Union Station - Visitor Center Station	11/70	8/71	.6	1.2

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AS OF FEBRUARY 1974

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>(millions)</u>	
3B0061 8/69	Dalton-Dalton-Little	Design surface line and Fort Totten, Takoma and Silver Spring Stations	8/70	12/70	\$ 1.4	\$ 2.6
3C0021 1/70	Ralph M. Parsons Company	Design terminal and Farragut West Station	4/71	4/71	.9	1.1
3C0051 10/69	Bechtel Associates	Design tunnel and surface line and Rosslyn Station	10/70	4/71	.8	1.1
3C0071 3/70	Green Associates, Inc.	Design tunnel and Pentagon City Station	8/71	9/71	.8	1.1
3C0081 1/71	Hayes, Seay, Mattern & Mattern	Design tunnel and Crystal City Station	3/72	6/72	.9	1.1
3C0082 4/72	Richardson, Gordon & Associates	Design aerial line and National Airport Station	3/73	3/73	1.0	1.2
3D0011 12/70	Daniel, Mann, Johnson & Mendenhall	Design tunnel and Federal Triangle Station	12/71	5/72	.9	1.1
3D0031 6/70	Sverdrup & Parcel	Design tunnel and L'Enfant Plaza Station	12/71	2/72	1.1	1.6
3D0041 12/70	Praeger-Kavanaugh-Waterbury	Design tunnel and Federal Center SW and Capitol South Stations	2/72	2/72	1.5	1.6
3D0061 1/71	Edwards and Kelcey	Design tunnel and Eastern Market Station	2/72	3/72	1.0	1.0

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----- (millions) -----</u>	
3D0081 5/72	Henningson, Durham & Richardson, Inc.	Design tunnel and Stadium-Armory Station	5/73	5/73	\$ 1.1	\$ 1.2
3D0101 6/72	Ewell, Bomhardt & Associates	Design surface line and Anacostia River Bridge	1/74	1/74	.9	1.0
3D0131 10/71	Whitman, Requardt & Associates	Design surface line and Cheverly and Landover Stations	3/74	3/74	.9	1.2
3E0011 10/73	Edwards and Kelcey	Design tunnel and Federal City College and Shaw Stations	7/75	7/75	1.8	1.8
3E0021 12/73	C. E. Maguire, Inc. - Robert J. Nash	Design tunnel and U Street Station	9/75	9/75	1.3	1.3
3F0021 1/72	Parsons, Brinckerhoff, Quade & Douglas--Fry & Welsh Associates (joint venture)	Design tunnel and Waterfront Station	5/73	2/74	1.2	1.4
3F0031 7/73	Tippetts-Abbett-McCarthy-Stratton	Design tunnel and Navy Yard Station	9/74	9/74	1.5	1.5
3G0011 10/73	TEI Consulting Engineers, Inc.	Design tunnel and Benning Road Station	7/75	7/75	1.2	1.2
3K0042 11/72	Green Associates, Inc.	Design tunnel and Glebe Road Station	2/74	3/74	.9	1.0
3K0071 11/73	Blauvelt-Syska & Hennessy-Wilburn	Design surface line and Dunn Loring and Vienna Stations	2/75	2/75	1.5	1.5
3K4041 7/72	Virginia Department of Highways	Redesign Interstate Route 66 median for METRO	(Not available)		1.2	1.2

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
<u>----- (millions) -----</u>						
<u>Stage (Equipment) Contracts Design</u>						
3Z0071 4/72	Control Data Corporation	Design Fare Collection Equipment	4/73	4/73	\$ 2.8	\$ 3.1
3Z2011 2/68	Gibbs & Hill, Inc.	Design Train Control System Phases I - III	5/71	5/71)	1.2	2.6
3Z2021 2/68	Gibbs & Hill, Inc.	Design Communications System - Phases I - III	12/71	12/71)		
)		
<u>Other Major Contracts</u>						
1B0064 3/71	General Railway Signal Company	Relocation of C&O/B&O signal and communication pole line	11/75	11/75	1.5	1.5
1Z4203 7/71	METRO Track Constructors	Relocation of Washington Terminal Company East Coach Yard	1/73	9/73	5.6	6.6
1Z4206 2/71	General Railway Signal Company	Washington Terminal Company signal modifications	11/72	5/74	2.4	2.6
<u>Testing and Inspection Contracts</u>						
1A5011 8/70	Sverdrup & Parcel	Field engineering for contract 1A0011	7/73 ^b	9/74 ^b	1.0	2.2

^bSame as for corresponding construction contracts.

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INFORMATION ON MAJOR CONTRACTS

AS OF FEBRUARY 1974

<u>Contract number and date</u>	<u>Name of contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>	
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----- (millions) -----</u>	
1A5021 1/70	Tippetts-Abbott-McCarthy-Stratton	Field engineering for contract LA0021	9/71 ^b	2/74 ^b	\$.5	\$ 1.4
1A5031 2/71	Rummel, Klepper & Kahl	Field engineering for contract LA0031	6/73 ^b	1/75 ^b	.8	1.7
1A5044 2/71	A. A. Mathews Associates	Field engineering for contract LA0044	6/73 ^b	7/74 ^b	.6	1.3
1B5011 11/69	Ammann & Whitney	Field engineering for contract 1B0011	7/72 ^b	1/74 ^b	.9	1.8
1B5021 3/72	J. E. Greiner Company, Inc.	Field engineering for contracts 1B0021, 1B0031, 1B0032, 1B0033, and 1B0034	Varying dates for five separate contracts ^b		1.6	2.6
<u>Utility Relocations and Agreements</u>						
6A3011 10/70	Potomac Electric Power Company	Utility reimbursement to PEPCO	(Not applicable)		.3	1.9
6B8066 9/72	C&O/B&O Railroad Companies	Support work for contract 1B0062	(Not applicable)		.5	2.6
<u>Major Consultants' Contracts</u>						
12526A 5/71	Bechtel Associates	General construction consulting calendar year 1971	12/71	12/71	1.3	1.3
12526B 1/72	Bechtel Associates	General construction consulting calendar year 1972	12/72	12/72	3.1	3.1

^b Same as for corresponding construction contracts.

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<u>Contract number and date</u>	<u>Name of Contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>	
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----- (millions) -----</u>	
12526C 12/72	Bechtel Associates	General construction consulting calendar year 1973	12/73	12/73	\$ 4.3	\$ 4.3
12526D 12/73	Bechtel Associates	General construction consulting calendar year 1974	12/74	12/74	1.8	1.8
32624A 1/66	DeLeuw, Cather and Company	General engineering consulting fiscal year 1967	6/67	6/67	2.1	2.1
32624B 10/67	DeLeuw, Cather and Company	General engineering consulting fiscal year 1968	6/68	6/68	1.2	1.2
32624C 7/68	DeLeuw, Cather and Company	General engineering consulting fiscal year 1969	6/69	6/69	2.0	2.0
32624D 7/69	DeLeuw, Cather and Company	General engineering consulting fiscal year 1970	6/70	6/70	2.5	2.5
32624E 7/70	DeLeuw, Cather and Company	General engineering consulting fiscal year 1971	6/71	6/71	4.2	4.2
32624F 7/71	DeLeuw, Cather and Company	General engineering consulting fiscal year 1972	6/72	6/72	4.7	4.7
32624G 6/72	DeLeuw, Cather and Company	General engineering consulting fiscal year 1973	6/73	6/73	5.5	5.5
32624H 6/73	DeLeuw, Cather and Company	General engineering consulting fiscal year 1974	6/74	6/74	6.1	6.1
					<u>\$1,097.6</u>	<u>\$1,160.5</u>

METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY
RAIL RAPID TRANSIT CONTRACTS

Total cost--all contracts as of February 15, 1974 \$22 million
(all contracts are listed in this enclosure)

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METROPOLITAN ATLANTA RAPID TRANSIT AUTHORITY

Information on all contracts as of February 1974

<u>Contract number and date</u>	<u>Name of contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>	
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					(millions)	
72-0046 11/72	Arthur Andersen & Company	Consultant services - project control system and detailed procedures for Management Systems Division	12/73	1/74	\$.221	\$.220
72-0048 8/73	Georgia Department of Administrative Services	Data processing services	7/74	7/74	.250	.250
72-0049 10/72	MARTA Insurance Managers	Insurance services	12/80	12/80	1.447	1.447
73-0013 1/73	McDonnell Douglas Automation Company	Data processing services	1/74	12/73	.100	.008
73-E037 6/73	Huie, Brown & Ide	Legal services	6/75	6/75	.120	.120
73-E065 8/73	Frontiers Unlimited Incorporated	Demographic data regarding relocation of residential, commercial, and industrial structures	12/73	12/73	.023	.023
V003 6/73	W. James Wilson	Appraisal services	7/73	7/73	.003	.003
V003 6/73	Hollis Smith	Appraisal services	7/73	7/73	.003	.003
V004 6/73	J. T. Bickers	Appraisal services	7/73	7/73	.004	.004
V004 6/73	Otis L. Thorpe	Appraisal services	7/73	7/73	.004	.004
V005 6/73	William O. Carson	Appraisal services	7/73	7/73	.003	.003

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Contract number and date	Name of contractor	General description of contract task	Contract completion date		Contract cost	
			Original	Actual or currently projected	Original	Actual or currently projected (millions)
V005 6/73	Wallace Browning	Appraisal services	7/73	7/73	\$.004	\$.004
V007 7/73	International Appraisal	Appraisal services	9/73	9/73	.023	.023
V007 7/73	Frank McGinnis, Jr.	Appraisal services	10/73	12/73	.022	.022
V008 6/73	John C. Dabney	Appraisal services	8/73	8/73	.014	.014
V008 6/73	Kirkland and Company	Appraisal services	8/73	9/73	.014	.014
V010 8/73	John McAllister	Appraisal services	10/73	10/73	.003	.003
V010 8/73	John Chapman	Appraisal services	9/73	9/73	.003	.003
V011 8/73	W. James Wilson	Appraisal services	9/73	9/73	.001	.001
V011 8/73	Otis L. Thorpe	Appraisal services	9/73	9/73	.001	.001
V012 9/73	R. F. Farrar	Appraisal services	10/73	10/73	.001	.001

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
						(millions)
V012 9/73	J. L. Walker	Appraisal services	10/73	10/73	\$.001	\$.001
V013 9/73	W. J. Wilson	Appraisal services	11/73	11/73	.004	.004
V013 9/73	Otis L. Thorpe	Appraisal services	11/73	10/73	.004	.004
V014 9/73	International Appraisal	Appraisal services	11/73	12/73	.008	.008
V014 9/73	Wallace Browning	Appraisal services	11/73	12/73	.008	.008
V015 11/73	Joseph Walker	Appraisal services	1/74	1/74	.009	.009
V015 11/73	Don J. Warren	Appraisal services	1/74	1/74	.009	.009
V016 11/73	John McAllister	Appraisal services	12/73	12/73	.001	.001
V016 11/73	Joseph Walker	Appraisal services	12/73	12/73	.001	.001
V017 12/73	W. James Wilson	Appraisal services	1/74	1/74	.004	.004

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					(millions)	
V017 12/73	Otis L. Thorpe	Appraisal services	1/74	1/74	\$.004	\$.004
V018 1/74	W. James Wilson	Appraisal services	2/74	2/74	.001	.001
V018 1/74	Otis L. Thorpe	Appraisal services	2/74	2/74	.001	.001
V022 1/74	Don Warren	Appraisal services	3/74	3/74	.004	.004
V022 1/74	Joseph L. Walker	Appraisal services	3/74	3/74	.004	.004
72-0076	Parsons Brinckerhoff-Tudor-Bechtel	Consultant services - design and construction management	4/80	4/80	^a 19.760	^a 19.760
					<u>\$ 22.087</u>	<u>\$ 21.994</u>
				Contract totals		
<u>Parsons Brinckerhoff-Tudor-Bechtel subcontracts</u>						
E13-1	Knight Allen	Economist consultant				.011
E13-1A	Knight Allen	Economist consultant				.000
S12-1	Engineering & Construction Services, Inc.	Detail survey program				note b
S04-1A	J. J. Harte & Associates	Property survey				.002
S04-1C	J. J. Harte & Associates	Additional mapping				.024

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					<u>(millions)</u>	
S04-2	J. J. Harte & Associates	Detailed survey program				note b
S01-3B	Lowe Engineers	Topographic survey			\$.033	
S07-1	Mayes, Sudderth & Etheredge	Surveying & mapping			.045	
S03-1A	Riley, Park, Hayden	Primary control survey			.115	
E06-2	Raymond Tomlinson	Consultant surveying			.010	
S10-1	Towill, Incorporated	Surveying and mapping			.039	
S10-2	Towill, Incorporated	Detailed survey program				note b
E07-1A	Wilson, Ihrig & Associates	Acoustic consultant			.009	
A01-1	Aeck Associates	Architect			.022	
E10-1	Aerial Mapping Company	Surveying consultant			.001	
S08-1	Bean and Whitney	Cross section and elevation			.023	
S08-1A	Bean and Whitney	Surveying			.002	
S09-1	Duff Surveys	Surveying consultant			.012	
E03-1	F. H. Gritman	Surveying consultant			.003	
E05-1	D. C. Hyde	Operations consultant			.010	

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			Original	Actual or currently projected	Original	Actual or currently projected
			(millions)			
S04-1B	J. J. Harte and Associates	Surveying and mapping			\$.037
S04-1	J. J. Harte and Associates	Surveying and mapping				.083
E04-2	Eric Hill and Associates	Community impact study				.010
E01-2	Law Engineering & Testing	Soils consultant				note b
S01-2	Lowe Engineers	Aerial photography				.012
S01-3	Lowe Engineers	Survey and mapping				.120
S01-1D	Lowe Engineers	Survey and mapping				.001
S01-3A	Lowe Engineers	Survey and mapping				.036
E08-1	Tallie B. Mauls	Architect design consultant				.016
S03-1	Riley, Park, Hayden	Survey primary consultant				.111
S05-1	Schmidt Engineering	Surveying and mapping				.047
E11-1	Sundberg-Ferar	Design				.100
E06-1	Raymond Tomlinson	Surveying consultant				.013
E12-1	J. G. Wardlaw	Railroad and utilities				.003

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			Actual or currently projected	Original currently projected	Actual or currently projected	Original currently projected (millions)
E15-1	C. D. Williamson	Specification consultant			\$.006	
E02-1	O. E. West	Planning and scheduling			.003	
E07-1	Wilson, Ihrig & Associates	Acoustic consultant			.012	
<u>Parsons Brinckerhoff-Tudor-Rechtel subcontracts under consideration</u>						
	Lindsey, Tucker, & Kitter, Inc.	Architect/Engineer - West Line, Hightower Road area, including Hightower Road station				
	Sanders & Thomas, Incorporated					
	Turner Associates					
	Dalton-Dalton-Little-Newport	Architect/Engineer - West Line, Ashby Street area, including Ashby Street station				
	J. W. Robinson Associates, Inc.					
	Keck & Wood, Inc.					
	Finch-Heery	Architect/Engineering - West Line, Five Points area, with work on the Five Points station				
	Blakely-Danfeis & Associates					
	J. W. Austin & Associates					
	Prybylowski & Gravino, Inc.	Architect/Engineering - East Line, Georgia State University area, including the University station				
	Barratt & Associates Architects, Inc.					
	Edwards & Rosser, Inc.					

Sub contract total \$.971

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
	Mayes, Sudderth, Etheredge, Inc. Connell Associates, Inc.	Architect/Engineering - East Line, Candler Park area, including Candler Park station				(millions)
	Howard, Needles, Tammen & Bergendoff William S. McDuffie Architects and Associates Robert and Company Associates	Architect/Engineering - East Line, Trinity Place area				
	Edwards and Kelcey, Inc. Stevens & Wilkinson Architects Engineers-Planners, Inc.	Architect/Engineering - East Line, Central Decatur area, including Decatur station				

Note a - The PBTE contract does not specify overall cost and schedule requirements. MARTA's Long Range Regional Rapid Transit Program is generally scheduled to be completed by April 1, 1980. Total annual cost to be incurred in connection with the long range program must be approved each year. The amount approved through fiscal year 1974 is \$19,760,000. PBTE's work is controlled through issuance of work orders. Payments are made to cover reimbursable costs incurred in connection with work orders plus a percentage allowance for overhead and profit. Through January 31, 1974, 200 work orders with a total value of \$9,159,000 had been issued.

Note b - Open-end contracts. Individual work orders issued subject to MARTA's approval work, cost, and schedule.