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Contract Number: GS-23F-0054S

Federal Supply Class: 871

#### **Period Covered by Contract:**

December 20, 2005 – December 19, 2010

#### **Business Size:**

Large Business

### **Analytical Planning Services, Inc.**

8885 Research

Irvine, CA 92618

(949) 679-0202

(949)679-0212 fax

[www.apsi-pm.com](http://www.apsi-pm.com)

**Contract Managers:** Ashok Apte & Jay Losak

**Marketing POC:** Chris Cooper

Prices shown herein are NET (discount deducted).

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!, a menu-driven database system. The INTERNET address GSA Advantage! Is: [GSAAvantage.gov](http://GSAAvantage.gov).

## **Executive Summary**

Analytical Planning Services, Inc. (APSI) was recently awarded a Federal Supply Service Schedule to provide Professional Engineering Services (PES) by the United States General Services Administration (GSA). APSI's contract number is GS-23F-0054S.

Under the Primary Engineering Discipline of Civil Engineering, APSI provides Construction Management services at all phases of a project, including:

- ü Strategic Planning for Technology Programs/Activities (871-1)
- ü Concept Development and Requirements Analysis (871-2)
- ü Systems Design, Engineering and Integration (871-3)
- ü Test and Evaluation (871-4)
- ü Integrated Logistics Support (871-5)
- ü Acquisition and Life-Cycle Management (871-6)

The following is a brief overview of the services APSI can bring under this solicitation:

### **Program Management**

- ü Master Plan Scheduling
- ü Cash Flow Analysis/Funding Requirements
- ü Conceptual Estimating

### **Construction Management**

- ü Pre-Construction Services
- ü Project Coordination
- ü Cost Controls
- ü Schedule Management
- ü Contract Modification Control
- ü Document Control
- ü Progress Reporting
- ü Claims Avoidance
- ü Project Close-Out

### **Scheduling**

- ü Pre-Scheduling Meeting
- ü Preliminary Schedule Review
- ü Baseline Schedule Review
- ü Monthly Updates
- ü Revisions
- ü Recovery Schedule
- ü Delay Analysis
- ü Mitigation Measures

### **Claims Analysis**

- ü Time Impact Analysis
- ü Cost Analysis

- ü Cause and Effect Analysis
- ü Cost and Schedule Integration
- ü Determine Entitlement
- ü Provide Expert Witness
- ü Prepare Court Ready Examples

### **Estimating**

- ü Quantity Take-Offs
- ü Pre Bid Estimates
- ü Change Orders Analysis

### **Document Control**

- ü State-of-the-Art Computerized Document Control Software.
- ü Develop Master File System.
- ü Establish Front End Procedures for Document Management.
- ü Provide Effect Project Close-out Procedures.
- ü Ability to Link Documents within the System for Future Claims Issues.
- ü Overall Coordination of Administrative Procedures Between the Team and Contractors

## **About Analytical Planning Services, Inc.**

APSI was established in 1990 and has its headquarters in Irvine, California. The firm was originally started to provide quality scheduling, estimating, document control and claims analysis services to the construction industry. This experience has served as the foundation for a high quality project/construction management firm. Having excelled in these areas, it was a natural progression to add full management services. This transition began in 1994 at the encouragement of our clients, and has become the main focus for APSI. We have enjoyed a steady growth in our Project/Construction Management practice within the public sector and are committed to continuing this growth by specializing in state-of-the-art services on public works projects.

Since 1990, APSI has assisted various Federal Agencies in managing assignments throughout the United States. This has included work with the U.S. GSA, DOE, DOD and VA. For GSA, APSI has been providing services to Region 9 since the mid 1990's and is currently in our second 5 year IDIQ contract. Under these contracts, APSI has managed the construction of over 40 projects within the State of California. These have ranged from facility upgrades to new construction and have provided APSI the opportunity to work with a wide variety of Federal Agencies.

Since 1990, APSI has provided construction management and consulting services on over \$20 billion worth of projects. These assignments have included a wide variety of facilities as well as infrastructure projects.

## Project Experience

**Temecula Border Station, Murrieta, CA** - APSI has been very successful in working with GSA to manage the design and construction phases of this assignment. We worked with GSA and the Architect to ensure the project remained within budget through the use of Value Engineering and Constructibility Reviews. We also assisted GSA in developing the specifications and a Pre-bid Schedule to assist in the bidding of the project. APSI continues to provide on-site management of the construction and to minimize any impacts that occur. This also includes protecting the interests of GSA in the matter of claims.

The new Border Patrol facility will house Administrative Offices, a Muster Room, Armory and Evidence Rooms, Conference Room, Training Room, ADP Room, Mail Room, Fitness Area, General Storage Area and Locker Facilities with showers and restrooms. This facility will also have Alien Processing and Medium Security Detention Rooms. A 6,640 SF New Vehicle Maintenance and Repair Facility (Bid Alternate). This will comprise of a Block and Steel Frame structure, and will include vehicle service bays, supervisor offices, facility maintenance office, shop areas and all terrain vehicle and general storage. This facility will also have a covered car wash and fueling facility.

The Project will also include a paved entrance and Service Roads, Site Lighting, a Communications Tower, Paved Parking for 312 cars, approximately 387,000 SF of miscellaneous Site Infrastructure and Improvements, including Irrigation and Landscaping on approximately 8.8 acres. Parking areas and the facility perimeter will have a complete Security system, including Video Surveillance Cameras and the entrance gates will have automated entry systems.

**Evo A. DeConcini United States Courthouse, Tucson, AZ** - The government issued the Notice-to-Proceed for the project in June 1997 with contract duration of 26 months (790 Calendar days). The contract cost was \$61,931,450. Substantial completion was issued on January 31, 2000. Based on that date, the project was delayed by 108 calendar days. However, the contractor claimed that the preparation of the Punch List and correction of Punchlist items took 7 additional months extending the project completion date to August 21, 2000, for a total delay of 311 calendar days. The contractors and 12 subcontractors submitted a claim totaling \$20,878,606 which comprised of following categories:

- Extended Field Overhead
- Extended Home Office Overhead
- Cost of Labor Productivity Loss
- REA Preparation Cost
- Interest and
- Unresolved Change Orders

The office of Regional Counsel, Region 9, of the U.S. General Service Administration tasked Analytical Planning Services, Inc., (APSI) to analyze both the time and cost aspects of this claim. APSI reviewed numerous project documents and performed separate time and cost analyses. To analyze the issues related to schedule delays, we selected and carried out a detailed contemporaneous Critical Path analysis to assign delays month by month throughout the project duration. A detailed cost analysis was performed to repudiate the

productivity related claim and extended field office and home office overhead costs presented. A detailed report was submitted to the Regional Counsel. APSI also actively participated in the mediation of the claim and provided technical support to the Government attorneys during negotiations.

**Lloyd George Federal Courthouse Renovation, Las Vegas, NV** - The project consisted of tenant improvements for the relocation of US Bankruptcy Courts from the Foley Federal Building. The work took place in partial areas on four separate floors; the basement, first floor, fourth floor and eighth floor. The scope included demolition, build-out, rough-in for power and telecommunications, as well as finishes. There are two courtrooms and two Judge's chambers, as well as relevant support space on the fourth floor. This was the most extensive portion of the project, encompassing sixty percent of the total contract value. It included the construction and installation of one Judge's bench in each courtroom.

The Construction Manager's role on this project was to be the field representative for the government. APSI tracked all project documentation, processed and logged contract modifications, and reviewed job progress with weekly schedule reviews. In addition, the Construction Manager verified the builder adhered to all contract documents, and delivered a product meeting the highest quality standards while complying with appropriate code requirements.

**Chet Holifield Federal Building, LAGUNA NIGUEL, CA** - APSI is providing oversight on two separate contracts at Chet Holifield. The existing facility was originally built as a manufacturing plant in 1971 and consists of 7-stories with 950,000 gross square feet. The projects will upgrade the facility by replacing the nearly 500,000 sq. ft. of roofing and upgrading the elevator service. The roofing project consists of replacing the roof with a two ply polyester and fiberglass roof including tapered insulation. The elevator upgrades include the modernization and expansion of services to the lower floors in order to facilitate and maximize tenant access. In addition, the freight elevators will be modernized and an additional 2 stop elevator will be added at the South Entrance. A key aspect is the coordination and minimization of impacts to the existing staff. The building currently houses 3,000 employees and will remain operational throughout the construction.

**Santa Ana Federal Building Seismic Upgrade and Tenant Improvements, Santa Ana, CA** - APSI is providing management throughout the design and construction on this Design/Build project. The Santa Ana Federal Building project consists primarily in the Modernization of an existing nine-story concrete frame structure of approximately 250,000 gross square feet. This existing Santa Ana Federal Building will be renovated in 4 Construction Phases to minimize impacts to the existing tenants. The complete facility will house a new mix of Federal Executive Agencies including the following:

- Immigration & Naturalization Service
- Defense Contract Management Services
- Social Security Administration
- Federal Protection Services
- Department of Labor

The essential design and construction scope of work for the project is as follows:

(1) To seismically retrofit the existing structural system utilizing shear walls and provide seismic bracing for non-structural equipment to meet FEMA 351 Seismic Code; (2) to demolish existing tenant improvements and renovate all 9 floors of the entire interior space for specified tenants; (3) to improve and upgrade all building systems including elevators, HVAC, lighting, sound, plumbing, remove hazardous materials; (4) to upgrade fire, life safety, handicap and security systems; (5) to re-caulk the building exterior and plaza deck surfaces, replace exterior landscaping and resurface parking areas; (6) to bring building security into compliance with Level IV Federal standards; and (7) to provide a safe, secure, healthy and comfortable environment for the occupants.

**Weinberger and Schwartz Federal Courthouses Security Upgrade. (Historic Structure) San Diego, CA** - APSI provided construction management and inspection services for the security systems upgrade at the Historic Schwartz Federal Courthouse building in San Diego. The project included the addition of several fixed and pan & tilt CCTV cameras, monitors, VCR's, guard booths and the running of all necessary conduit under an existing parking lot and through several occupied offices and courtrooms. APSI was responsible for all contract administration and coordination of the construction process between the Owner, which included three separate Federal Agencies, the Architect and the Contractor.

**John F. Shea Federal Building, Santa Rosa, CA** - Analytical Planning Services, Inc. had full responsibility for the Construction Management and inspection of this project. The project consisted of the upgrade of several systems to make them more energy efficient and was sponsored by the Bonneville Power Administration. The scope of work involved in this upgrade consists of the upgrading of the existing HVAC system, replacement of the existing suspended acoustical ceilings, boiler replacement, and the upgrading of the building automation system.

The project duration was eight months and consisted of six phases of distinct work requiring detailed scheduling. The main work activities consisted of demolition of existing items, asbestos abatement, fire sprinkler installation, HVAC replacement with new ducting, new ceiling installation, the modification of HVAC zoning, the removal of a sectional boiler and replacement of the boiler with a tube boiler. The new boiler system will be controlled with a new EMCS system with Bacnet compatible system controllers and components. Most of this work was completed at night during off-hours so construction did not interfere with the occupants of the building.

**Roybal Federal Building – Courthouse, Los Angeles, CA** - APSI provided claims analysis services for a \$7 million renovation project with a \$2 million claim by the contractor on alleged owner caused delays. APSI reviewed the delay issues and schedules and analyzed the as-built and as-planned schedules on GSA's behalf. We identified and evaluated the actual delays and their impacts to the project completion date and calculated liquated damages to be assessed by the owner. A detailed Time Impact Analysis for each month of the project duration was performed to calculate delays and identify the delay issues for each period. APSI also reviewed each issue of the pending change orders and helped GSA to validate the contractor's request for additional cost.

**Calexico Main Border Station New Roof and Air Handlers, San Diego, CA** - APSI provided construction management and inspection services for the new roof and air handlers for the Calexico Main Border Station. Main features of the project included asbestos abatement, demolition, installation of 60,000 square foot of modified bituminous membrane roofing, construction of a structural steel canopy and installation of ten new air handler units and applicable ductwork and piping.

**San Ysidro Border Station New Roof, San Diego, CA** - APSI provided construction management and inspection services for the construction of a new roof at the San Ysidro Border Station. The project consisted of asbestos abatement, demolition and the installation of 130,000 square foot of modified bituminous membrane roofing. APSI was responsible for all contract administration and coordination of the construction process between the Owner, which included four separate Federal Agencies, the Architect and the Contractor. Because of the fact that the border station was busy 24-hours a day, restrictive site access and high security concerns, tight controls and coordination between the contractor and government agencies was essential for the projects' success.

**San Ysidro and Otay Mesa Border Stations Upgrade of Security System, San Diego, CA** - APSI was the Construction Manager for the San Ysidro and Otay Mesa Border stations security upgrades near San Diego, California. The project consisted of the installation of seventeen state-of-the-art security cameras complete with a new monitoring station to aid the security officers in monitoring the crossing of civilians from the United States into Mexico. Thirteen of the cameras are stationary and four are pan and tilt motor mounted units allowing for a 180-degree field of view side to side and 45 degrees up and down. The monitoring station consists of five TV monitors, VCR taping units, an intercom system and associated mounting hardware. From this location an officer can monitor civilian traffic crossing by foot from the United States into Mexico at the San Ysidro Border Station.

**Clifton Young Federal Building Elevator Upgrade, Reno, NV** - This project consisted of the removal of three elevator cabs, electrical controllers, machine room wiring, machine room equipment, and the installation of all new cabs, new electrical controllers, and new machine room equipment. A new fire control system containing a new panel and smoke detectors for five floors was installed and interconnected with the new elevator controls and shunt trip breakers. To install some of the new equipment Asbestos Containment's were installed for workers and tenants health and safety. In addition VAT and Transite was removed from the elevator cabs as part of the project.

**Frank Hagel Social Security Building Ceiling Replacement and Fire Alarm and Sprinkler System Upgrade, Richmond, CA** - This assignment included full on-site construction management and inspection for the replacement and upgrade of this 500,000 square foot facility. The facility remained occupied throughout construction which dictated that the work had to be done on the weekends to minimize impacts. Additionally, asbestos, both friable and non-friable, have been found in the building and GSA had assigned a specialty inspector as a sub-consultant to APSI to test and monitor throughout construction.

**Frank Hagel Social Security Building Ground Water Recovery System, Richmond, CA**

- This project consisted of the installation of two 22,000-gallon storage tanks and a complete piping and pump system. The system recovers ground water of high quality and the water is used to flush toilets, cooling water for the cooling system which saves a great deal of money by eliminating the use of metered city water. The system consisted of 4", 2", 1" and ½" piping insulated with a buster pump system to supply the storage tanks.

**Frank Hagel Social Security Building Security System Upgrade, Richmond, CA**

- This project consisted of upgrading an existing Security System. The upgrades included, new video camera's, relocation of existing cameras, new card readers, door sensors, demolition of existing security gates and replacing them with two upgraded gates, a new roll up door to the buildings lower level, new conduit installation to the roof of this 6 story building, modification to the existing security control room, new computer terminals and equipment for remote guard stations and control room, a new 4 section security control console, and installation of new software and hardware that upgraded the entire system to Y2K compliance.

**Additional GSA Projects (Partial List)**

- Calexico East Border Station Landscape and Irrigation
- Fresno IRS Service Center Security Upgrade
- Stockton Federal Building Boiler Replacement
- Modesto Federal Building Boiler Replacement
- Foley Federal Building Constructability Review
- Federal Defender's Office 801 'I' Street
- Fitness Center @ 501 I Street Federal Courthouse
- U.S. Geological Survey Improvement, Santa Cruz
- Renovation of INS, Life Act Programs
- IRS Service Center, Fresno
- Peckham Federal Building & Courthouse
- United States Attorney's Office in San Jose
- Menlo Park Roof Replacement
- San Diego Federal Child Care Facility
- Frank Hagel Federal Building Groundwater Recovery System

## Customer Information

### 1a. Special Item Numbers (SINs)

SINs awarded under this contract include:

**SIN 871-1      STRATEGIC PLANNING FOR TECHNOLOGY PROGRAMS/ACTIVITIES -**

APSI assists Owners in assessing projects through a cost benefit analysis to provide a basis by which projects are either recommended to be funded or tabled for further analysis.

**SIN 871-2      CONCEPT DEVELOPMENT AND REQUIREMENTS ANALYSIS -** APSI is often contracted by the Owner or A/E at the most conceptual stages of a project to provide opinions of probable cost and evaluate conceptual plans, sequencing, phasing and logistics. We assist in defining project requirements and contracting procurement plans.

**SIN 871-3      SYSTEM DESIGN, ENGINEERING AND INTEGRATION -** As the design of a project progresses, our team provides updates to our initial cost estimates to help mitigate the risks involved with designing a project that is over-budget. We also provide phasing studies and value engineering at this stage of a project's life cycle. We manage and coordinate separately procured engineering and designing services to meet the overall construction completion. This includes managing resident engineering services provided by others to fulfill project needs and quality standards. We also provide integrated management and scheduling of design, procurement and construction, ensuring the design proceeds to support construction and procurement needs and ultimately the project end date.

**SIN 871-4      TEST AND EVALUATION -** At this stage of a project, our Team provides an in-depth analysis of issues of cost, schedule feasibility, constructability, and trade coordination. We develop commissioning and facility turnover plans and provide QC over sampling and testing activities. We also manage all 3<sup>rd</sup> party testing during construction.

**SIN 871-5      INTEGRATED LOGISTICS SUPPORT -** APSI's experience in construction phase planning and procedural development, help projects run smoothly from the Owner's perspective. We establish proper procedures to assist in the bidding, construction, and closeout of a project, procurement funding to acquire materials and services to manage/coordinate deliveries and interim storage. Our input at this stage is essential in reducing Contractor change requests, schedule delays during construction and evaluating market conditions.

- SIN 871-6 ACQUISITION AND LIFE CYCLE MANAGEMENT** - During the bid, construction, and project closeout phases, APSI provides full-service Owner's representative services, including, but not limited to: program management, project management, construction management, inspection, change order analysis and negotiation, CPM schedule review services, and all related document control. We serve as the liaison between the A/E, Contractor(s), and the Owner. Following the completion of construction, we work proactively to ensure that all the following systems are properly installed and functioning:
- All warranties have been catalogued
  - Project is free from deficiencies
  - Local jurisdictions have signed-off on the successful completion of the project
  - Facility managers, users, and maintenance personnel possess all of the information needed to take possession of the project
  - Procurement functions to acquire materials and services
  - Manage/coordinate deliveries and interim storage

Prices and labor descriptions for the awarded SINS are located at the end of this document.

**1b. Statement of Lowest Price:**

Prices shown on the price lists are net; all discounts have been deducted.

**1c. Commercial Job Titles**

See Attached listing of job titles and descriptions.

**2. Maximum Order**

\$750,000 (All SINS)

**3. Minimum Order**

\$100

**4. Geographic coverage (delivery area)**

Domestic including Alaska and Hawaii as well as Micronesia

**5. Point (s) of Production**

Services will be provided at any APSI location or Government job site.

**6. Discounts**

Government net prices (discounts already deducted).

**7. Quantity Discounts**

\$200,000 - \$400,000 =	.25%
\$400,001 - \$600,000 =	.50%
\$600,001 - \$750,000 =	.75%
\$750,000 + =	1%

**8. Prompt Payment Terms**

None. Net 30 days.

**9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold.**

APSI accepts the Government's purchase cards for assignments at or below the micro-purchase threshold.

**9b. Notification that Government purchase cards are accepted or not accepted above the micro-purchase threshold.**

APSI accepts the Government's purchase cards for assignments above the micro-purchase threshold.

**10. Foreign items (list items by country of origin).**

None

**11a. Time of delivery**

To be negotiated with Ordering Agency

**11b. Expedited delivery**

To be negotiated with Ordering Agency

**11c. Overnight and 2-day delivery**

To be negotiated with Ordering Agency

**11d. Urgent Requirements**

To be negotiated with Ordering Agency

**12. F.O.B. point(s)**

F.O.B. Destination

**13a. Ordering Address**

Analytical Planning Services, Inc.  
Attn: Ashok Apte  
8885 Research  
Irvine, CA 92618  
(949) 679-0202  
(949) 679-0212 fax

**13b. Ordering procedures.**

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPS's), and sample BPA can be found at the GSA/FSS Schedule homepage ([www.fss.gsa.gov/schedules](http://www.fss.gsa.gov/schedules))

**14. Payment Address**

Analytical Planning Services, Inc.  
Attn: Accounting  
8885 Research  
Irvine, CA 92618

**15. Warranty Provision**

Not Applicable

**16. Export Packing Charges**

Not Applicable

**17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level)**

Not Applicable

**18. Terms and conditions of rental, maintenance and repair**

Not Applicable

**19. Terms and conditions of installation**

Not Applicable

**20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices**

Not Applicable

**21. List of service and distribution points**

Not Applicable

**22. List of participating dealers**

Not Applicable

**23. Preventive maintenance**

Not Applicable

**24. Special attributes such as environmental attributes**

Not Applicable

**25. Data Universal Number System (DUNS) Number**

85-908-0434

**26. Central Contractor Registration (CCR) database**

APSI is registered on the CCR database.

**Analytical Planning Services, Inc.  
Authorized GSA Pricing**

<b>Orange County, Los Angeles Region</b>
<b>Base Years</b>

<b>Labor Category</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1) Project Manager	\$114.38	\$118.72	\$123.23	\$127.92	\$132.78
2) Assistant Project Manager	\$105.06	\$109.05	\$113.19	\$117.49	\$121.96
3) Senior Construction Manager	\$107.17	\$111.25	\$115.47	\$119.86	\$124.42
4) Construction Manager	\$105.84	\$109.86	\$114.04	\$118.37	\$122.87
5) Senior Project Engineer	\$97.85	\$101.57	\$105.43	\$109.44	\$113.60
6) Construction Inspector	\$88.53	\$91.90	\$95.39	\$99.02	\$102.78
7) Field Supervisor	\$95.99	\$99.64	\$103.42	\$107.35	\$111.43
8) Project Engineer	\$88.70	\$92.07	\$95.57	\$99.20	\$102.97
9) Office Engineer	\$85.29	\$88.53	\$91.90	\$95.39	\$99.01
10) Field Engineer	\$74.14	\$76.96	\$79.89	\$82.92	\$86.07
11) Field Project Planner / Senior Scheduler	\$107.64	\$111.73	\$115.98	\$120.38	\$124.96
12) Project Scheduler	\$107.64	\$111.73	\$115.97	\$120.38	\$124.96
13) Project Controls Specialist	\$102.24	\$106.13	\$110.16	\$114.35	\$118.69
14) Senior Cost Estimator	\$107.64	\$111.73	\$115.97	\$120.38	\$124.96
15) Cost Estimator	\$93.19	\$96.74	\$100.41	\$104.23	\$108.19
16) Claims Analyst 1	\$135.69	\$140.85	\$146.20	\$151.75	\$157.52
17) Claims Analyst 2	\$136.99	\$142.20	\$147.60	\$153.21	\$159.04

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$58.23	\$60.44	\$62.74	\$65.12	\$67.60
19) Administrative Assistant / Field Clerk	\$42.78	\$44.41	\$46.09	\$47.84	\$49.66
20) Data Entry Clerk	\$55.69	\$57.81	\$60.00	\$62.28	\$64.65

<b>Northern California Region</b>
<b>Base Years</b>

<b>Labor Category</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1) Project Manager	\$128.10	\$132.97	\$138.02	\$143.27	\$148.71
2) Assistant Project Manager	\$117.66	\$122.14	\$126.78	\$131.59	\$136.59
3) Senior Construction Manager	\$120.03	\$124.59	\$129.33	\$134.24	\$139.35
4) Construction Manager	\$118.54	\$123.05	\$127.72	\$132.57	\$137.61
5) Senior Project Engineer	\$109.60	\$113.76	\$118.08	\$122.57	\$127.23
6) Construction Inspector	\$99.16	\$102.93	\$106.84	\$110.90	\$115.11
7) Field Supervisor	\$107.51	\$111.59	\$115.83	\$120.24	\$124.80
8) Project Engineer	\$99.35	\$103.12	\$107.04	\$111.11	\$115.33
9) Office Engineer	\$95.53	\$99.16	\$102.92	\$106.83	\$110.89
10) Field Engineer	\$83.04	\$86.20	\$89.47	\$92.87	\$96.40
11) Field Project Planner / Senior Scheduler	\$120.56	\$125.14	\$129.89	\$134.83	\$139.95
12) Project Scheduler	\$120.56	\$125.14	\$129.89	\$134.83	\$139.95
13) Project Controls Specialist	\$114.51	\$118.86	\$123.38	\$128.07	\$132.94
14) Senior Cost Estimator	\$120.56	\$125.14	\$129.89	\$134.83	\$139.95
15) Cost Estimator	\$104.38	\$108.34	\$112.46	\$116.73	\$121.17
16) Claims Analyst 1	\$151.97	\$157.75	\$163.74	\$169.96	\$176.42
17) Claims Analyst 2	\$153.43	\$159.26	\$165.32	\$171.60	\$178.12

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$65.21	\$67.69	\$70.27	\$72.94	\$75.71
19) Administrative Assistant / Field Clerk	\$47.91	\$49.73	\$51.62	\$53.59	\$55.62
20) Data Entry Clerk	\$62.37	\$64.74	\$67.20	\$69.76	\$72.41

## Southern California Region

### Base Years

Labor Category	Year 1	Year 2	Year 3	Year 4	Year 5
	2005	2006	2007	2008	2009
1) Project Manager	\$101.30	\$105.15	\$109.15	\$113.30	\$117.60
2) Assistant Project Manager	\$93.05	\$96.59	\$100.26	\$104.07	\$108.02
3) Senior Construction Manager	\$94.92	\$98.53	\$102.27	\$106.16	\$110.19
4) Construction Manager	\$93.74	\$97.30	\$101.00	\$104.84	\$108.82
5) Senior Project Engineer	\$86.67	\$89.96	\$93.38	\$96.93	\$100.61
6) Construction Inspector	\$78.41	\$81.39	\$84.49	\$87.70	\$91.03
7) Field Supervisor	\$85.02	\$88.25	\$91.60	\$95.08	\$98.70
8) Project Engineer	\$78.56	\$81.55	\$84.65	\$87.86	\$91.20
9) Office Engineer	\$75.54	\$78.41	\$81.39	\$84.49	\$87.70
10) Field Engineer	\$65.67	\$68.17	\$70.76	\$73.44	\$76.24
11) Field Project Planner / Senior Scheduler	\$95.34	\$98.96	\$102.72	\$106.62	\$110.68
12) Project Scheduler	\$95.34	\$98.96	\$102.72	\$106.62	\$110.67
13) Project Controls Specialist	\$90.56	\$94.00	\$97.57	\$101.28	\$105.13
14) Senior Cost Estimator	\$95.34	\$98.96	\$102.72	\$106.62	\$110.67
15) Cost Estimator	\$82.54	\$85.68	\$88.93	\$92.31	\$95.82
16) Claims Analyst 1	\$120.18	\$124.75	\$129.49	\$134.41	\$139.52
17) Claims Analyst 2	\$121.34	\$125.95	\$130.73	\$135.70	\$140.86

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$51.57	\$53.53	\$55.57	\$57.68	\$59.87
19) Administrative Assistant / Field Clerk	\$37.89	\$39.33	\$40.82	\$42.38	\$43.99
20) Data Entry Clerk	\$49.32	\$51.20	\$53.14	\$55.16	\$57.26

## Oregon, Washington, Idaho Region

### Base Years

Labor Category	Year 1	Year 2	Year 3	Year 4	Year 5
	2005	2006	2007	2008	2009
1) Project Manager	\$94.93	\$97.31	\$99.74	\$102.23	\$104.79
2) Assistant Project Manager	\$87.20	\$89.38	\$91.61	\$93.90	\$96.25
3) Senior Construction Manager	\$88.95	\$91.18	\$93.46	\$95.79	\$98.19
4) Construction Manager	\$87.85	\$90.04	\$92.29	\$94.60	\$96.97
5) Senior Project Engineer	\$81.22	\$83.25	\$85.33	\$87.46	\$89.65
6) Construction Inspector	\$73.48	\$75.32	\$77.20	\$79.13	\$81.11
7) Field Supervisor	\$79.67	\$81.66	\$83.70	\$85.80	\$87.94
8) Project Engineer	\$73.62	\$75.46	\$77.35	\$79.28	\$81.27
9) Office Engineer	\$70.79	\$72.56	\$74.38	\$76.23	\$78.14
10) Field Engineer	\$61.54	\$63.08	\$64.66	\$66.27	\$67.93
11) Field Project Planner / Senior Scheduler	\$89.34	\$91.57	\$93.86	\$96.21	\$98.61
12) Project Scheduler	\$89.34	\$91.57	\$93.86	\$96.21	\$98.61
13) Project Controls Specialist	\$84.86	\$86.98	\$89.16	\$91.39	\$93.67
14) Senior Cost Estimator	\$89.34	\$91.57	\$93.86	\$96.21	\$98.61
15) Cost Estimator	\$77.35	\$79.28	\$81.27	\$83.30	\$85.38
16) Claims Analyst 1	\$112.62	\$115.44	\$118.32	\$121.28	\$124.31
17) Claims Analyst 2	\$113.71	\$116.55	\$119.46	\$122.45	\$125.51

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$48.33	\$49.54	\$50.78	\$52.04	\$53.35
19) Administrative Assistant / Field Clerk	\$35.51	\$36.40	\$37.30	\$38.24	\$39.19
20) Data Entry Clerk	\$46.22	\$47.38	\$48.56	\$49.78	\$51.02

## Nevada, Arizona Region

### Base Years

Labor Category	Year 1	Year 2	Year 3	Year 4	Year 5
	2005	2006	2007	2008	2009
1) Project Manager	\$90.36	\$93.07	\$95.86	\$98.74	\$101.70
2) Assistant Project Manager	\$83.00	\$85.49	\$88.05	\$90.69	\$93.41
3) Senior Construction Manager	\$84.67	\$87.21	\$89.82	\$92.52	\$95.29
4) Construction Manager	\$83.61	\$86.12	\$88.71	\$91.37	\$94.11
5) Senior Project Engineer	\$77.30	\$79.62	\$82.01	\$84.47	\$87.01
6) Construction Inspector	\$69.94	\$72.04	\$74.20	\$76.43	\$78.72
7) Field Supervisor	\$75.83	\$78.11	\$80.45	\$82.86	\$85.35
8) Project Engineer	\$70.07	\$72.18	\$74.34	\$76.57	\$78.87
9) Office Engineer	\$67.38	\$69.40	\$71.48	\$73.63	\$75.84
10) Field Engineer	\$58.57	\$60.33	\$62.14	\$64.01	\$65.93
11) Field Project Planner / Senior Scheduler	\$85.03	\$87.59	\$90.21	\$92.92	\$95.71
12) Project Scheduler	\$85.03	\$87.59	\$90.21	\$92.92	\$95.71
13) Project Controls Specialist	\$80.77	\$83.20	\$85.69	\$88.26	\$90.91
14) Senior Cost Estimator	\$85.03	\$87.59	\$90.21	\$92.92	\$95.71
15) Cost Estimator	\$73.62	\$75.83	\$78.11	\$80.45	\$82.86
16) Claims Analyst 1	\$107.20	\$110.41	\$113.72	\$117.14	\$120.65
17) Claims Analyst 2	\$108.23	\$111.47	\$114.82	\$118.26	\$121.81

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$46.00	\$47.38	\$48.80	\$50.27	\$51.77
19) Administrative Assistant / Field Clerk	\$33.80	\$34.81	\$35.85	\$36.93	\$38.04
20) Data Entry Clerk	\$44.00	\$45.31	\$46.67	\$48.07	\$49.52

## Hawaii Region

### Base Years

<b>Labor Category</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1) Project Manager	\$126.96	\$130.13	\$133.39	\$136.72	\$140.14
2) Assistant Project Manager	\$116.61	\$119.53	\$122.52	\$125.58	\$128.72
3) Senior Construction Manager	\$118.96	\$121.94	\$124.98	\$128.11	\$131.31
4) Construction Manager	\$117.48	\$120.42	\$123.43	\$126.52	\$129.68
5) Senior Project Engineer	\$108.62	\$111.33	\$114.12	\$116.97	\$119.89
6) Construction Inspector	\$98.27	\$100.73	\$103.25	\$105.83	\$108.47
7) Field Supervisor	\$106.55	\$109.21	\$111.94	\$114.74	\$117.61
8) Project Engineer	\$98.46	\$100.92	\$103.44	\$106.03	\$108.68
9) Office Engineer	\$94.67	\$97.04	\$99.47	\$101.95	\$104.50
10) Field Engineer	\$82.30	\$84.36	\$86.47	\$88.63	\$90.84
11) Field Project Planner / Senior Scheduler	\$119.48	\$122.47	\$125.53	\$128.67	\$131.88
12) Project Scheduler	\$119.48	\$122.47	\$125.53	\$128.67	\$131.88
13) Project Controls Specialist	\$113.49	\$116.33	\$119.23	\$122.22	\$125.27
14) Senior Cost Estimator	\$119.48	\$122.47	\$125.53	\$128.67	\$131.88
15) Cost Estimator	\$103.45	\$106.03	\$108.68	\$111.40	\$114.18
16) Claims Analyst 1	\$150.62	\$154.38	\$158.24	\$162.20	\$166.25
17) Claims Analyst 2	\$152.06	\$155.87	\$159.76	\$163.76	\$167.85

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$64.63	\$66.25	\$67.90	\$69.60	\$71.34
19) Administrative Assistant / Field Clerk	\$47.49	\$48.67	\$49.89	\$51.14	\$52.42
20) Data Entry Clerk	\$61.82	\$63.36	\$64.95	\$66.57	\$68.23

**Alaska Region****Base Years**

<b>Labor Category</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1) Project Manager	\$106.37	\$109.03	\$111.76	\$114.55	\$117.41
2) Assistant Project Manager	\$97.70	\$100.15	\$102.65	\$105.22	\$107.85
3) Senior Construction Manager	\$99.67	\$102.16	\$104.72	\$107.33	\$110.02
4) Construction Manager	\$98.43	\$100.89	\$103.41	\$106.00	\$108.65
5) Senior Project Engineer	\$91.00	\$93.28	\$95.61	\$98.00	\$100.45
6) Construction Inspector	\$82.34	\$84.40	\$86.50	\$88.67	\$90.88
7) Field Supervisor	\$89.27	\$91.50	\$93.79	\$96.13	\$98.54
8) Project Engineer	\$82.49	\$84.56	\$86.67	\$88.84	\$91.06
9) Office Engineer	\$79.32	\$81.30	\$83.34	\$85.42	\$87.56
10) Field Engineer	\$68.95	\$70.68	\$72.45	\$74.26	\$76.11
11) Field Project Planner / Senior Scheduler	\$100.10	\$102.61	\$105.17	\$107.80	\$110.50
12) Project Scheduler	\$100.10	\$102.61	\$105.17	\$107.80	\$110.50
13) Project Controls Specialist	\$95.09	\$97.46	\$99.90	\$102.40	\$104.96
14) Senior Cost Estimator	\$100.10	\$102.61	\$105.17	\$107.80	\$110.50
15) Cost Estimator	\$86.67	\$88.84	\$91.06	\$93.33	\$95.67
16) Claims Analyst 1	\$126.19	\$129.35	\$132.58	\$135.89	\$139.29
17) Claims Analyst 2	\$127.41	\$130.59	\$133.86	\$137.20	\$140.63

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$54.15	\$55.51	\$56.89	\$58.32	\$59.77
19) Administrative Assistant / Field Clerk	\$39.79	\$40.78	\$41.80	\$42.84	\$43.92
20) Data Entry Clerk	\$51.79	\$53.09	\$54.41	\$55.77	\$57.17

## Micronesia Region

### Base Years

<b>Labor Category</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1) Project Manager	\$137.25	\$140.68	\$144.20	\$147.81	\$151.50
2) Assistant Project Manager	\$126.07	\$129.22	\$132.45	\$135.76	\$139.16
3) Senior Construction Manager	\$128.61	\$131.82	\$135.12	\$138.50	\$141.96
4) Construction Manager	\$127.01	\$130.18	\$133.44	\$136.77	\$140.19
5) Senior Project Engineer	\$117.42	\$120.36	\$123.37	\$126.45	\$129.61
6) Construction Inspector	\$106.24	\$108.90	\$111.62	\$114.41	\$117.27
7) Field Supervisor	\$115.19	\$118.07	\$121.02	\$124.04	\$127.15
8) Project Engineer	\$106.44	\$109.10	\$111.83	\$114.63	\$117.49
9) Office Engineer	\$102.35	\$104.91	\$107.53	\$110.22	\$112.97
10) Field Engineer	\$88.97	\$91.20	\$93.48	\$95.82	\$98.21
11) Field Project Planner / Senior Scheduler	\$129.17	\$132.40	\$135.71	\$139.10	\$142.58
12) Project Scheduler	\$129.17	\$132.40	\$135.71	\$139.10	\$142.58
13) Project Controls Specialist	\$122.69	\$125.76	\$128.90	\$132.13	\$135.43
14) Senior Cost Estimator	\$129.17	\$132.40	\$135.71	\$139.10	\$142.58
15) Cost Estimator	\$111.83	\$114.63	\$117.49	\$120.43	\$123.44
16) Claims Analyst 1	\$162.83	\$166.90	\$171.07	\$175.35	\$179.73
17) Claims Analyst 2	\$164.39	\$168.50	\$172.72	\$177.03	\$181.46

Other Direct Costs

Incidental Labor Categories

18) Sr. Administrative Assistant	\$69.87	\$71.62	\$73.41	\$75.25	\$77.13
19) Administrative Assistant / Field Clerk	\$51.34	\$52.62	\$53.93	\$55.28	\$56.67
20) Data Entry Clerk	\$66.83	\$68.50	\$70.21	\$71.97	\$73.77

# **Analytical Planning Services, Inc.**

## **Labor Category Descriptions**

### **1. Project Manager**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 5 years experience in project/construction management
- Assist the Sr. Project Manager, if present
- Plans, organizes, directs, coordinates and reviews the project management activities
- Responsible for multi-site trade or multi-trade Contracts exceeding \$2M working in the field
- Perform other CM management functions as outlined in contract

### **2. Assistant Project Manager**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 3 years experience in project/construction management
- Assist the Sr. Project Manager and/or the Project Manager in review and coordination of project planning, constructability review, bid packaging, scheduling, estimating, and reporting
- Perform other CM management functions as outlined in contract

### **3. Sr. Construction Manager**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 10 years experience in construction management
- Provide pre-construction activities including
  - Assist in bid evaluation
  - Prepare bid analyses
  - Evaluate contractor responsibility
  - Attend bid evaluation meetings
- Perform day-to-day contract administration including coordinating pre-construction schedule, schedule of values, submittals, and generally respond to contractor's questions regarding contract administration
- Supervise, coordinate and direct the CM staff
- Perform other CM management functions as outlined in contract

### **4. Construction Manager**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 5 years experience in construction management
  - Provide pre-construction activities including
  - Assist in bid evaluation
  - Prepare bid analyses

- Evaluate contractor responsibility
- Attend bid evaluation meetings
- Perform day-to-day contract administration including coordinating pre-construction conferences, review of contractor's initial construction schedule, schedule of values, submittals, and generally respond to contractor's questions regarding contract administration
- Supervise, coordinate and direct the CM staff
- Perform other CM management functions as outlined in contract

#### **5. Sr. Project Engineer**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 5 years experience in construction management
- Assist in submittal procedures
- Maintain and distribute current contract plans and specifications. Confirm contractor's maintenance of record drawings
- Provide technical and engineering support.
- Coordinate with surveying, testing and inspection staff.
- Perform other duties as directed by PM/CM

#### **6. Construction Inspector**

- Minimum 5 years experience in related field
- Experience in performing inspections of project activities
- Generate reports of conditions found
- Notify management of significant problems
- Document completion of inspection or test activities

#### **7. Field Supervisor**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 3 years experience in construction management
- Assist the Field Engineer in field related issues

#### **8. Project Engineer**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 3 years experience in construction management
- Assist in submittal procedures
- Maintain and distribute current contract plans and specifications. Confirm contractor's maintenance of record drawings
- Provide technical and engineering support
- Coordinate with surveying, testing and inspection staff
- Perform other duties as directed by PM/CM

#### **9. Office Engineer**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimal experience in construction management of

- Assist Project Manager and/or Construction Manager as required
- Assist in submittal procedures
- Maintain and distribute current contract plans and specifications. Confirm contactor's maintenance of record drawings
- Provide technical and engineering support.
- Coordinate with surveying, testing and inspection staff
- Perform other duties as directed by PM/CM

#### **10. Field Engineer**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 3 years experience in construction management
- Under the direction of the PM/CM, be responsible for field coordination with Contractor responding to field issues
- Assist in the analysis and recommendations of field issues

#### **11. Field Project Planner/ Senior Scheduler**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 3 years experience in construction scheduling.
- Prepare and maintain master project schedule if required
- Review contractors' schedule submissions for conformance with contract documents, for sufficiency, and for quality
- Check critical path, cost and resources loading, schedule content, use of relationships and lag, constraints and milestones.
- Review and verify contractors' monthly progress
- Prepare reports as needed and directed

#### **12. Project Scheduler**

- Degree in engineering or related technical field.
- Minimum three years experience in construction scheduling.
- Prepare and maintain master project schedule under the direction of the Lead Project Controls Engineer.
- Review Contractors' schedule submissions for conformance with contract documents, for sufficiency, and for quality.
- Check critical path, cost and resource loading, schedule content, use of relationships and lag, constraints and milestones.
- Review and verify contractors' monthly progress.
- Prepare reports as needed and directed by the Government PM.

#### **13. Project Controls Specialist**

- Degree in engineering or related technical field
- Minimum five years experience in project controls of building modernization projects
- Responsible for planning and scheduling, budget management, cost control, schedule control and contract change control
- Responsible to support Construction Managers in contract and price negotiations
- Responsible for the implementation of scheduling systems and procedures

- Responsible for the implementation of cost control systems and procedures

#### **14. Sr. Project Cost Estimator**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 10 years experience in construction estimating Prepare preliminary independent cost estimates of projects for comparison
- Prepare change order estimates to establish negotiating position
- Support Resident Engineer or Office Engineer in price negotiations
- Prepare claim analyses and estimates

#### **15. Cost Estimator**

- Minimum education requirements include a degree in engineering, architecture or construction management
- Minimum 5 years experience in construction estimating
- Prepare preliminary independent cost estimates of projects for comparison
- Prepare change order estimates to establish negotiating position
- Support Resident Engineer or Office Engineer in price negotiations
- Prepare claim analyses and estimates

#### **16. Claims Analyst I**

- Degree in engineering or related technical field.
- Minimum three years experience in construction scheduling.
- Experience in conducting Time Impact Analysis
- Cause and Effect Analysis
- Cost and Schedule Integration
- Determine Entitlement
- Provide Court Ready Examples
- Experience in arbitration/court settings

#### **17. Claims Analyst II**

- Degree in engineering or related technical field.
- Minimum five years experience in the construction field
- Experience in conducting Time Impact Analysis
- Cause and Effect Analysis
- Cost and Schedule Integration
- Determine Entitlement
- Provide Court Ready Examples
- Experience in arbitration/court settings

#### **18. Sr. Administrative Assistant**

- 5 years experience in project administration
- Maintain records and files on construction projects and contracts including checking of bonds, specifications, forms, contracts and related documents
- Provide information by telephone and through correspondence on requirements concerning bonds, insurance, licenses, signatures, specification, bid procedures, change orders and payments

- Assist professional staff members in performing assigned technical tasks under immediate supervision
- Prepare written materials including correspondence, reports, procedural guides and instructions
- Assist in financial analysis by making computations and comparisons
- Must operate a computer

#### **19. Administrative Assistant/Field Clerk**

- 3 years experience in project administration
- Maintain records and files on construction projects and contracts including checking of bonds, specifications, forms, contracts and related documents
- Provide information by telephone and through correspondence on requirements concerning bonds, insurance, licenses, signatures, specification, bid procedures, change orders and payments
- Assist professional staff members in performing assigned technical tasks under immediate supervision
- Prepare written materials including correspondence, reports, procedural guides and instructions
- Assist in financial analysis by making computations and comparisons
- Must operate a computer

#### **20. Data Entry Clerk**

- Supports personnel in the entry of data into various project controls applications as directed by the Construction Manager
- Demonstrated proficiency in the use of Microsoft Office applications and construction project control applications, such as Primavera Project Planner and Primavera Expedition.