

# Geographic Information Systems (GIS) Vendor Typing

## Exhibit 27 (3833)

(No. 47 February 2014)

### **A. Minimum Equipment Requirements for all GIS Support Service Except Modules 4 and 5**

- Trailer, either cargo or camper style (applicable to ALL TYPES being solicited), or truck with cargo box.
- Minimum 20' length x 7' wide, excluding tongue on trailers and the cab on trucks.
- Unit must meet Occupational Safety and Health Administration (OSHA) work environment requirements.
- Self-contained, climate controlled unit air conditioning or heating to maintain 70 to 75 F degree temperature in trailer).
- Generator that is adequate to provide sufficient power for all onboard systems. Generator will be billed separately from the GIS Support Services at the standard daily rate. Vendor shall provide fuel and necessary maintenance/service for the generator to sustain 24 hour operation.
- Wheel Chocks and trailer stabilizer jacks.
- Internal Lighting: Sufficient to provide adequate light for night time operations.
- Outside Lighting: Sufficient to provide light all entrance ways (two way directional security light).
- Steps: If needed, to provide safe entry/exit from the trailer or unit.

### **B. Personnel**

- National Wildfire Coordinating Group (NWCG)-qualified Geographic Information Systems Specialist (GISS) at a daily rate
  - Technician shall have the skills to troubleshoot and maintain computers, network, generator and other equipment provided by the vendor.
  - Rate will be commensurate with the experience level of the GISS Technician.
- NWCG-GISS Trainee Technician at a daily rate
  - Technicians shall have the skills to troubleshoot and maintain computers, network, generator and other equipment provided by the vendor.
  - Rate will be commensurate with the experience level of the GISS Trainee Technician.

## **C. GIS Support Modules**

### **Type I GIS Support Service**

- Minimum of four (4) computer workstations with Windows based operating systems (Windows 7 64 bit with SP1). Computers must have wireless network cards, and be able to be configured to accept Dynamic Host Configuration Protocol (DHCP) service for connectivity. Computer must have a minimum of 8GB RAM, video card with 1GB dedicated memory, and a dual or quad core processor (released within last 3 years). All computers will be configurable for administrative rights for incident personnel.
- System-wide Uninterruptable Power Supply (UPS) and line conditioner system.
- Workspace and tables/chairs to accommodate an additional two (2) workers, for a total of six (6) workers.
- All computer workstations, printers and plotters shall be networked, expandable to an additional ten (10) external workstations.
- At least one (1) computer workstation shall have dual monitors, each with a minimum 20" diagonal screen area.
- 24 port Gigabit network switch.
- Network cables and power strips to support twelve (14) computers and two (2) printers.
- Vendor shall set up all equipment and ensure that it is operating properly upon arrival at the incident. Technical support person must be available during the first 24 hours to ensure the system is bug free and operating properly.
- Vendor shall provide a dedicated technical support person to maintain consumables (paper, ink, etc.), and to troubleshoot and repair any problems that occur with the trailer and systems (computers, network, printers, etc.) for a minimum of 8 hours per day. Outside of the 8 hour work period, vendor shall provide tech support within 1 hour of being notified about the problem. The vendor shall have an adequate system for contacting this person or have some form of answering service to meet this reporting time requirement.
- Computers shall be re-imaged after each incident or if system failure occurs during the incident.
- DVD/CD RW writer on each workstation/server.
- Minimum of ArcGIS 10.1 for Desktop Basic license, or version specified by CAL FIRE Hired Equipment Coordinator. Must contact CAL FIRE Hired Equipment Coordinator each year prior to the fire season to determine appropriate version.
- ArcGIS extensions (most recent versions) to include: Fire Incident Mapping Tool (FIMT), DNR Garmin (GPS download software), CAL FIRE Tools.
- Microsoft Office Professional Suite or better (Microsoft Office Pro 2010). Including Word, Excel, Access, Power Point.

- Color printer (1), capable of 11" x 17" prints, network capable (not USB) (HP 7500 or equivalent).
- Two (2) Large format (E size) plotters, network capable (HP 1055CM, HP 5000, HP 4000, or equivalent).
- Vendor is responsible for supplying the following consumables, except when incident personnel state that they will assume this responsibility:
  - Color printer and large format plotter Ink Cartridges, print heads and paper - minimum requirements if provided by vendor:
    - Large format plotter - two (2) full sets of ink and print heads. Twenty (20) rolls of paper (shall be a base weight of 24 lb. and a minimum length of 150' per roll)
    - Color printer - two (2) full sets of printer cartridges and two (2) reams each of 8 ½" x 11" and 11" x 17" paper.
  - When consumables are provided by the vendor
    - Large format printing will be charged by the linear foot (\$2.50 - \$4.00 per linear foot)
    - 8.5x11" and 11x17" printing will be charged by the page (8.5x11": \$0.50-1.00 per page; 11x17": \$0.75-2.00 per page)
- White board (minimum 2' x 3') with dry erase marker.
- Daily rates: \$1,800 - \$2,600 depending on the size and condition of trailer/truck

## **Type II GIS Support Service**

- Minimum of two (2) computer workstations with Windows based operating systems (Windows 7 64 bit with SP1). Computers must have wireless network cards, and be able to be configured to accept Dynamic Host Configuration Protocol (DHCP) service for connectivity. Computer must have a minimum of 8GB RAM, video card with 1GB dedicated memory, and a dual or quad core processor (released within last 3 years). All computers will be configurable for administrative rights for incident personnel.
- System-wide Uninterruptable Power Supply (UPS) and line conditioner system.
- Workspace and tables/chairs to accommodate an additional two (2) workers, for a total of four (4) workers.
- All computer workstations, printers and plotters shall be networked, expandable to an additional ten (10) external workstations.
- 24 port Gigabit network switch.
- Network cables and power strips to support twelve (12) computers and two (2) printers.
- Vendor shall set up all equipment and ensure that it is operating properly upon arrival at the incident. Technical support person must be available during the first 24 hours to ensure the system is bug free and operating properly.

- Vendor shall provide a technical support person who shall be able to maintain consumables (paper, ink, etc.), and be on-call with the capability to arrive at the incident within 2 hours of being notified to troubleshoot and repair any problems that occur with the trailer and systems (computers, network, printers, etc.). The vendor shall have an adequate system for contacting this person or have some form of answering service to meet this reporting time requirement.
- Computers shall be re-imaged after each incident or if system failure occurs during the incident.
- DVD/CD RW writer on each workstation/server.
- ArcGIS 10.1 for Desktop Basic license, or version specified by CAL FIRE Hired Equipment Coordinator. Must contact CAL FIRE Hired Equipment Coordinator each year prior to the fire season to determine appropriate version.
- ArcGIS extensions (most recent versions) to include: Fire Incident Mapping Tool (FIMT), DNR Garmin (GPS download software).
- Microsoft Office Suite or better (Microsoft Office Pro 2010). Including Word, Excel, Access, Power Point.
- Color printer (1), capable of 11" x 17" prints, network capable (not USB) (HP 7500 or equivalent).
- Large format (E size) plotter, network capable (HP 1055CM, HP 5000, HP 4000, or equivalent).
- Vendor is responsible for supplying the following consumables, except when incident personnel state that they will assume this responsibility:
  - Color printer and large format plotter Ink Cartridges, print heads and paper - minimum requirements if provided by vendor:
    - Large format plotter - two (2) full sets of ink and printheads. Twenty (20) rolls of paper (shall be a base weight of 24 lb. and a minimum length of 150' per roll)
    - Color printer - two (2) full sets of printer cartridges and two (2) reams each of 8 ½" x 11" and 11" x 17" paper.
  - When consumables are provided by the vendor
    - Large format printing will be charged by the linear foot (\$2.50 - \$4.00 per linear foot)
    - 8.5x11" and 11x17" printing will be charged by the page (8.5x11": \$0.50-1.00 per page; 11x17": \$0.75-2.00 per page)
- White board (minimum 2' x 3') with dry erase marker.
- Daily rates: \$1,700 - \$2,200 depending on size and condition of trailer/truck

### **Type III GIS Support Service (trailer without computers)**

- Workspace and tables/chairs to accommodate a minimum of five (5) workers
- 24 port gigabit network switch, wireless router, and ancillary network hardware such as Cat 5e cables to support up to sixteen (16) external users.
- Network cables and power strips to support twelve (16) computers and two (2) printers.
- Color printer (1), capable of 11" x 17" prints, network capable (not USB) (HP 7500 or equivalent).
- Large format (E size) plotter, network capable (HP 1055CM, HP 5000, HP 4000, or equivalent).
- Vendor shall ensure that all equipment is set up and operating properly upon arrival at the incident.
- Vendor shall provide a technical support person who shall be able to maintain consumables (paper, ink, etc.), and be on-call with the capability to arrive at the incident within 2 hours of being notified to troubleshoot and repair any problems that occur with the trailer and systems (network, printers, etc.). The vendor shall have an adequate system for contacting this person or have some form of answering service to meet this reporting time requirement.
- White board (minimum 2' x 3') with dry erase marker.
- Vendor is responsible for supplying the following consumables, except when incident personnel state that they will assume this responsibility:
  - Color printer and large format plotter Ink Cartridges, print heads and paper - minimum requirements if provided by vendor:
    - Large format plotter - two (2) full sets of ink and printheads. Twenty (20) rolls of paper (shall be a base weight of 24 lb. and a minimum length of 150' per roll)
    - Color printer - two (2) full sets of printer cartridges and two (2) reams each of 8 ½" x 11" and 11" x 17" paper.
  - When consumables are provided by the vendor
    - Large format printing will be charged by the linear foot (\$2.50 - \$4.00 per linear foot)
    - 8.5x11" and 11x17" printing will be charged by the page (8.5x11": \$0.50-1.00 per page; 11x17": \$0.75-2.00 per page)
- Daily rates: \$1,200 - \$1,600 depending on size and condition of trailer/truck

## **Type IV GIS Support Service (Computer, network, USP and printer equipment only)**

- Minimum of one (1) computer workstation with Windows based operating system (Windows 7 64 bit with SP1). Computers must have wireless network cards, and be able to be configured to accept Dynamic Host Configuration Protocol (DHCP) service for connectivity. Computer must have a minimum of 8GB RAM, video card with 1GB dedicated memory, and a dual or quad core processor (released within last 3 years). The computer will be configurable for administrative rights for incident personnel.
- System-wide Uninterruptable Power Supply (UPS) and line conditioner system.
- 24 port gigabit network switch, wireless router, and ancillary network hardware such as Cat 5e cables to support up to sixteen (12) external users.
- Network cables and power strips to support twelve (12) computers and two (2) printers.
- Vendor shall set up all equipment and network, and ensure it is operating properly upon arrival at the incident.
- Vendor shall provide a technical support person who shall be able to maintain consumables (paper, ink, etc.), and be on-call with the capability to arrive at the incident within 2 hours of being notified to troubleshoot and repair any problems that occur with the trailer and systems (computers, network, printers, etc.). The vendor shall have an adequate system for contacting this person or have some form of answering service to meet this reporting time requirement
- Computers shall be re-imaged after each incident or if system failure occurs during the incident.
- DVD/CD RW writer on each workstation/server.
- ArcGIS 10.1 for Desktop Basic license, or version specified by CAL FIRE Hired Equipment Coordinator. Must contact CAL FIRE Hired Equipment Coordinator each year prior to the fire season to determine appropriate version.
- ArcGIS extensions (most recent versions) to include: Fire Incident Mapping Tool (FIMT), DNR GPS (GPS download software).
- Microsoft Office Suite or better (Microsoft Office Pro 2010). Including Word, Excel, Access, Power Point.
- Color printer (1), capable of 11" x 17" prints, network capable (not USB) (HP 7500 or equivalent).
- Large format (E size) plotter, network capable (HP 1055CM, HP 5000, HP 4000, or equivalent).
- White board (minimum 2' x 3') with dry erase marker.

- Vendor is responsible for supplying the following consumables, except when incident personnel state that they will assume this responsibility:
  - Color printer and large format plotter Ink Cartridges, print heads and paper - minimum requirements if provided by vendor:
    - Large format plotter - two (2) full sets of ink and printheads. Twenty (20) rolls of paper (shall be a base weight of 24 lb. and a minimum length of 150' per roll)
    - Color printer - two (2) full sets of printer cartridges and two (2) reams each of 8 ½" x 11" and 11" x 17" paper.
  - When consumables are provided by the vendor
    - Large format printing will be charged by the linear foot (\$2.50 - **\$4.00** per linear foot)
    - 8.5x11" and 11x17" printing will be charged by the page (8.5x11": \$0.50-1.00 per page; 11x17": \$0.75-2.00 per page)
- Daily rates: \$900-1,300 depending on quality of equipment

### **Type V GIS Support Service (Network and printer equipment only)**

- 24 port gigabit network switch, wireless router, and ancillary network hardware such as Cat 5e cables to support up to sixteen (12) users.
- Network cables and power strips to support twelve (12) computers and two (2) printers.
- Vendor shall set up all equipment and network upon arrival at the incident and ensure it is operating properly.
- Vendor shall provide a technical support person who shall be able to maintain consumables (paper, ink, etc.), and be on-call with the capability to arrive at the incident within 2 hours of being notified to troubleshoot and repair any problems that occur with the trailer and systems (computers, network, printers, etc.). The vendor shall have an adequate system for contacting this person or have some form of answering service to meet this reporting time requirement.
- Color printer (1), capable of 11" x 17" prints, network capable (not USB) (HP 7500 or equivalent).
- Large format (E size) plotter, network capable (HP 1055CM, HP 5000, HP 4000, or equivalent).
- White board (minimum 2' x 3') with dry erase marker.
- Vendor is responsible for supplying the following consumables, except when incident personnel state that they will assume this responsibility:

- Color printer and large format plotter Ink Cartridges, print heads and paper - minimum requirements if provided by vendor:
  - Large format plotter - two (2) full sets of ink and printheads. Twenty (20) rolls of paper (shall be a base weight of 24 lb. and a minimum length of 150' per roll)
  - Color printer - two (2) full sets of printer cartridges and two (2) reams each of 8 ½" x 11" and 11" x 17" paper.
- When consumables are provided by the vendor
  - Large format printing will be charged by the linear foot (\$2.50 - \$4.00 per linear foot)
  - 8.5x11" and 11x17" printing will be charged by the page (8.5x11": \$0.50-1.00 per page; 11x17": \$0.75-2.00 per page)
- Daily rates: \$900-1,300 depending on quality of equipment

#### **D. Other Items**

- Contractor is responsible for supplying all consumables.
- Generator (with appropriate output for trailer/truck) @ daily rate per CAL FIRE hired equipment manual.
- Satellite Internet System at a daily rate with the following configuration:
  - Minimum bandwidth: 1.5Meg/s Download speed, 768kbps Upload speed.
  - Wireless Router.
  - 8 port network switch.
- 3G wireless internet access at a daily rate.
- Additional GIS workstation computers (same specs as computers described above) at a daily rate.
- Additional monitor with a minimum 20" diagonal screen area at a daily rate.
- Additional plotter at a daily rate.