



20 Feb 06

RFP # B06057

TITLE: Digital Land Cover/Land Use for Rhode Island-2003/04

OPENING DATE AND TIME: 15 March 06 @ 1:40 PM

PRE-BID/ PROPOSAL CONFERENCE: Yes    Date: 28 Feb 06    Time: 2:30 PM  
Mandatory: No  
Location: Department of Administration / Division of Purchases (2<sup>nd</sup> floor, Bid Room), One  
Capitol Hill, Providence, RI

SURETY REQUIRED: No  
BOND REQUIRED: No

Jerome D. Moynihan, C.P.M., CPPO  
Administrator of Purchasing Systems

Vendors must register on-line at the State Purchasing Website at [www.purchasing.ri.gov](http://www.purchasing.ri.gov) to be able to download a Bidder Certification Cover Form, which must accompany each offer.

NOTE TO VENDORS:

**No offer will be considered that is not accompanied by a completed and signed RIVIP generated Bidder Certification Cover Form.**

THIS PAGE IS NOT A BIDDER CERTIFICATION FORM

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## SECTION 1 - INTRODUCTION

The Rhode Island Department of Administration / Division of Purchases, on behalf of the Rhode Island Department of Administration, Statewide Planning Program (**RIDOA/SWPP**) is soliciting proposals from qualified firms and individuals to develop a digital land cover and land use database covering the entire state suitable for use in a Geographic Information System (GIS), as described elsewhere herein and below, and in accordance with the terms of this Request and the **State's General Conditions of Purchase**, which is available on the internet at [www.purchasing.ri.gov](http://www.purchasing.ri.gov)

**This is a Request for Proposals, not an Invitation for Bid: responses will be evaluated on the basis of the relative merits of the proposal, in addition to price; there will be no public opening and reading of responses received by the Office of Purchases pursuant to this Request, other than to name those offerors who have submitted proposals.**

### **INSTRUCTIONS AND NOTIFICATIONS TO OFFERORS:**

- Potential offerors are advised to review all sections of this Request carefully, and to follow instructions completely, as failure to make a complete submission as described elsewhere herein may result in rejection of the proposal.
- Alternative approaches and/or methodologies to accomplish the desired or intended results of this procurement are solicited. However, proposals which depart from or materially alter the terms, requirements, or scope of work defined by this Request will be rejected as being non-responsive.
- All costs associated with developing or submitting a proposal in response to this Request, or to provide oral or written clarification of its content shall be borne by the offeror. The State assumes no responsibility for these costs.
- Proposals are considered to be irrevocable for a period of not less than sixty (60) days following the opening date, and may not be withdrawn, except with the express written permission of the State Purchasing Agent.
- All pricing submitted will be considered to be firm and fixed unless otherwise indicated herein.
- Proposals misdirected to other State locations or which are otherwise not present in the Office of Purchases at the time of opening for any cause will be determined to be late and will not be considered. **FAXED PROPOSALS WILL NOT BE CONSIDERED.**
- It is intended that an award pursuant to this Request will be made to a prime contractor, who will assume responsibility for all aspects of the work. Joint venture and cooperative proposals will not be considered, but subcontracts are permitted, provided that their use is clearly indicated in the offeror's proposal, and the subcontractor(s) proposed to be used are identified in the proposal.
- In accordance with Title 7, Chapter 1.1 of the General Laws of Rhode Island, no foreign corporation, a corporation without a Rhode Island business address, shall have the right to

transact business in the state until it shall have procured a Certificate of Authority to do so from the Rhode Island Secretary of State (401 222-3040).

- Bidders are advised that all materials submitted to the State of Rhode Island for consideration in response to this Request for Proposals will be considered to be public records, as defined in Title 38 Chapter 2 of the Rhode Island General Laws, without exception, and will be released for inspection immediately upon request, once an award has been made.

The State of Rhode Island has a goal of ten per cent (10%) participation by MBE's in all State procurements. For further information, visit the web site [www.rimbe.org](http://www.rimbe.org). To speak with an M.B.E. Officer, call (401) 222-6253.

Interested parties are instructed to peruse the Division of Purchases web site on a regular basis, as additional information relating to this solicitation may be released in the form of an addendum to this RFP / LOI

Equal Employment Opportunity (RIGL 28-5.1)

§ 28-5.1-1 Declaration of policy. – **(a) Equal opportunity and affirmative action toward its achievement is the policy of all units of Rhode Island state government, including all public and quasi-public agencies, commissions, boards and authorities, and in the classified, unclassified, and non-classified services of state employment. This policy applies in all areas where the state dollar is spent, in employment, public service, grants and financial assistance, and in state licensing and regulation. For further information, contact the Rhode Island Equal Employment Opportunity Office, at 222-3090**

### **CONTRACT TERMS:**

The Department is requesting a proposal for a one year project with an approximate start date of April 1, 2006 with a possible two-month extension in the event of any unforeseen circumstance that may delay completion of the project during the initial ten-month period. Specific due dates for the various products and services to be delivered under any resulting contract shall be set by mutual agreement between the vendor and the RIDOA/SWPP. The vendor will not provide services prior to the issuance of a Purchase Order.

### **Section 2 – Background and Intent**

**Background:** In 1989 land use/land cover information based on 1988 black and white aerial photography was developed for use in a Geographic Information System (**GIS**) for the entire state of Rhode Island. These data consisted of an ESRI ArcInfo coverage polygon data set with attribute coding to an Anderson level three classification coding schema (modified) as detailed in Table 1 in this document. Minimum polygon resolution for the final land cover/land use data set was specified at ½ acre. In 1998 the RIGIS land cover/land use data set was updated to the same specifications based on 1995 USGS DOQQ 1 meter pixel resolution imagery. The 1988 and 1995 data sets were based on RIGIS provided vector line transportation and hydrography base data layers derived from USGS quadrangle mapping at 1:24,000 scale. At that time and until

the year 2000 USGS 1:24,000 scale mapping data and its inherent accuracy level (45 feet) was considered the RIGIS base map standard.

In 1999 the RIDOT obtained black and white 1:5000 scale 1997 orthophotography, accompanied by vector line transportation, hydrography and coastline GIS data through a cooperative venture with the New England Electric Service (now National Grid USA). These data at that scale and inherent accuracy level (3-5 meters) are now becoming the base map standard for statewide data in the RIGIS database.

In April of 2003 two-foot pixel resolution true color imagery at 1:5000 scale was obtained for the eastern portions of the state through the efforts of the RI Department of Transportation (RIDOT). The western portions of the state were captured as color orthophotography at the same resolution in April of 2004 and delivered to RIDOT as statewide orthophotography in November of 2005 (Figure 1).

**Intent:** The intent of this request is to solicit proposals for data development, processing and delivery of a digital statewide land cover/land use data set for immediate use in a GIS by the Rhode Island Department of Administration, Statewide Planning Program. The resulting products will also be incorporated into the Rhode Island Geographic Information System (RIGIS) database for use by federal, state and local government agencies employing Geographic Information System (GIS) and made available to the general public under established RIGIS licensing procedures. The desired land cover/land use data set will be based on existing 2003/2004 digital orthophotography and RIGIS vector line base map data at a scale of 1:5000. *Land cover information based solely on multispectral analysis techniques of other remotely sensed image data is not the intended product. It is emphasized that the intended product is not an update of the 1988 or 1995 RIGIS land cover/land use data, but a complete and new data set developed on newer (1:5000 scale) digital base mapping.*

**Section 3 - Scope of Work:** The RI Department of Administration, Statewide Planning Program (RIDOA/SWPP) seeks to procure a new statewide seamless digital land cover/and use data set for immediate use upon delivery in a GIS based on 2003/04 digital 1:5000 scale orthophotography suitable.

The project area is the entire land area of the State of Rhode Island including Block Island and other islands within Narragansett Bay and south coastal Rhode Island waters. The project area encompasses approximately 1200 square miles. *(An optional request extending the project's geographic limits to ½ mile into neighboring Connecticut and Massachusetts may be exercised by the RIDOA/SWPP.)*

Detailed accuracy, resolution and specifications regarding file format and feature attribute schema are in **Section 4** of this RFP.

## **SECTION 4 – General Description, Technical Requirements and Specifications**

**General Description:** The Contractor is responsible for providing professional services, expertise, and experience to evaluate and automate data to the specifications

and standards described by this RFP, and will deliver the data to the SWPP in such form and condition as will permit immediate entry into the RIGIS database.

**Requirements:** The following requirements are conditions and terms that shall apply:

- The Contractor will demonstrate and provide professional and technical aerial photogrammetric interpretation and map expertise and experience, as well as the ability and capability related to the development, management, and information interpretation involved in the development of a land cover/land use data.

- Demonstrate experience and expertise in developing data for a GIS database.

.The Contractor will be responsible for providing, implementing, and completing a work plan with methodology to accomplish the required task and meet the standards and specifications referenced in this RFP.

- All data, and associated products as deliverables will become the property of the State of R.I. and are subject to ownership and use conditions placed on the RIGIS database.

- Provide a detailed description within the response to this RFP of methods to be used to produce the products specified within this request including quality control processes to be used to ensure products meet the required specifications and standards detailed herein. This will include a description of methods used to assess accuracy of photogrammetric interpretation, statistical measurement of accuracy, and statistical reporting of accuracy. It will also include an explicit description on how topology will be defined and established for the final statewide seamless geospatial data set coverage product.

- The Contractor will meet with SWPP-RIGIS representatives prior to starting work and periodically communicate to assess progress, review issues, and discuss any other details of the planned activities.

- As work progresses under the contract, the Contractor shall provide SWPP-RIGIS digital results for quality assurance of selected areas. Scope and timing of these submissions will be agreed upon jointly by the Contractor and the SWPP-RIGIS.

- All time frames for data submission will be scheduled by mutual agreement of the parties concerned, with the prime Contractor being responsible for adherence to schedules by any subcontractor.

- The Contractor will collect and automate data as described by this RFP, and will deliver the data to the SPP as specified in **SECTION – 6 DELIVERABLES** of this RFP.

- The Contractor will abide by the terms of the contract and complete tasks within ten months of the contract award.

The resulting land use/land cover coverage shall meet the technical specifications as listed herein.

## TECHNICAL SPECIFICATIONS

- A. Land Cover/Land Use interpretation must be based on the ground conditions shown on RI supplied photography from 2003 and 2004.
- B. Geography for the resulting geospatial data will be based on RIGIS 1:5000 scale vector line base mapping for roads, hydrography, and coastline.
- C. All geospatial data will be on North American Datum of 1983 (NAD83 -GRS80) mapping datum and in the Rhode Island State Plane Coordinate system (RISPC) in U.S. survey feet.
- D. The final geospatial data set will be internally fitted and edge matched as a seamless statewide topologically complete polyline ESRI ArcInfo coverage.
- E. Minimum polygon resolution will be one half acre. *(An optional request for ¼ acre resolution based on pricing may be exercised by the SWPP.)*
- F. Land use/land cover coding will comply with the Anderson Level III modified coding schema used in the 1988 and 1995 data sets. Variation from the existing Anderson Level III modified coding schemes or categories must be approved in writing by SPP-RIGIS. - See table 1.
- G. Unique polygon feature Ids and label points for each and every polygon are required in all coverage PAT and Info files.
- H. Fuzzy tolerance of 3 feet and RMS digitizing error of .005 will be required.
- I. If ESRI Arc/Info software is used in the production process, the use of the "Clean" function shall be kept to a minimum to avoid "fuzzy creep".
- J. No polygon overlaps or underlaps (gaps), no dangles (undershoots or overshoots) will be permitted in compliance with the inherent topology of an ESRI coverage.
- K. No undefined/unlabeled polygon or sliver polygons will exist in the final coverage data set.
- L. Coverage extent and boundary will be defined by valid \*.tic and \*.bnd files included in the coverage data set.
- M. Geographic feature accuracy to meet National Mapping Standards for 1:5000 scale mapping (+ or - 4.23 meter) accuracy with respect to base level data (vector line roads, hydrography, orthos) is required.
- N. If 2003 and 2004 photography show differences at the seam, polygons should be split to reflect different land cover/land use for each year.

## SECTION 5 – Materials Provided by the State

### Materials Provided to Prospective Bidders

Bidders will be provided with the following sample materials for a portion of the project area on request. These materials are represented as typical of the quality and

completeness of the material that will ultimately be provided to the contractor performing the work.

- Samples of existing color orthophotos (2003/04, 2 ft pixel, \*.SID format).
- Samples of existing RIGIS vector data including 1:5000 scale roads, city and town line boundaries, hydrography and coastline.
- Sample of last RIGIS Land Use/Land Cover dataset including metadata with Anderson Land Use Coding Schema (See-Intent and Scope - RILU95 to be used as an example of prior products).

**In addition, the materials listed below will be available for viewing at the RIDOA/SWPP Office, One Capitol Hill, Providence, RI. Contact John Stachelhaus, RIGIS Coordinator (401) 222-6483 email [rigis@admin.ri.gov](mailto:rigis@admin.ri.gov) to make an appointment.**

#### Materials Provided to The Selected Consultant

Once a contract for this procurement is signed, RIDOA/SWPP will provide any of the existing digital material in the RIGIS database that the contractor deems useful in completing this project including:

- The existing 2003/04 statewide 1:5000 digital orthophoto data set (2 foot pixel in .SID or .TIF format as preferred by the consultant)
- Photopositive 9X9 stereo pairs of 2003/04 statewide aerial photography (1:30,000 photo scale). (All photopositives provided must be returned to the RIDOA/SWPP in an undamaged condition at the completion of the project.)
- RIGIS 1:5000 vector line data including roads, city and town boundaries, hydrography and shoreline for Narragansett Bay, coastal Rhode Island, and Block Island.
- RIGIS 1:24,000 vector line 1995 land cover/land use GIS digital data set
- Digital elevation models based consisting of breaklines and mass points for the 1997 digital orthophoto data set in ASCII text and ESRI TIN formats.
- Sample of required metadata file(s) for RIGIS data (FGDC content standard)
- Access to other orthophotography available through RIGIS (2002 USGS color partial coverage, 2003 midsummer color, 1997 b&w, 1995 USGS b&w. for use in attribute coding clarification of Land Use Type only. Prior requirements for basing photo interpretation on RIGIS/RIDOT 2003/04 orthophotography remain in effect.)
- Photo indices for 2003/04 the orthophoto and photopositive data sets.
- Access to Pictometry International oblique photography from the fall of 2004/winter of 2005 for the cities of Cranston, Newport, Providence and Warwick for use in attribute coding clarification of Land Use Type only. All photo interpretation for polygon lines to be based on RIGIS/RIDOT 2003/04 orthophotography will remain in effect. *(All licensed Pictometry software and data package must be returned to SWPP on the conclusion of this project.)*

All other data from within the RIGIS database that the contractor deems useful in producing the required products as specified below.

## SECTION 6 - DELIVERABLES

### Initial Deliverables

During the first six months of the project, the consultant shall deliver a digital sample of land use/land cover data set developed for a one square mile area of the state as mutually agreed upon by the SWPP and the consultant. The sample area must be approved by the SWPP project manager prior to progression of further work. The sample data set will be in an ESRI ArcGIS9.x/ArcInfo coverage delivered in an interchange file (\*.e00) format on CDROM or DVDROM media to RIDOA/SWPP.

Following acceptance of the 1 square mile sample product, the project manager at SWPP will authorize the consultant to proceed.

### Interim Deliverables (Submission in Ten Tile Structure - Figure 2)

Interim products consist of ten geographic tiled areas (including two initial sample areas) as shown in the attached Figure 2. **Prior to moving to a full production mode the consultant will submit and have approved by SWPP data sets the two sample tile areas for Block Island and East Providence as shown in Figure 2 (Tile Structure).** The sample data set will be in an ESRI ArcGIS9.x/ArcInfo coverage delivered in an interchange file (\*.e00) format on CDROM or DVDROM media and when accepted will be considered as part of the final tile deliverable products. Acceptance may include review by a third party consultant employed by RIDOA/SWPP for quality assurance purposes during the course of the project.

**Following acceptance of these two sample tiles the consultant will proceed with developing land cover/land use data set for the remaining areas of the state based on the tiles structure shown in figure two.** Tile order and intervals of submission will be agreed upon by the RIDOA/SWPP project manager and the consultant during the first six months of the project. Tiles submitted as interim products will meet all requirements of the Technical Specifications section of this RFP including complete edge matching and conformance with topology within the interim tile data sets. Successive tiles acceptance by RIDOA/SWPP may include review by a third party consultant employed by RIDOA/SWPP for quality assurance purposes during the course of the project.

### Final Deliverables

- a) Deliver all resulting land cover/land use data in a single digital ESRI ArcGIS9.X ArcInfo coverage in an interchange (\*.e00) file format on DVDROM or CDROM (minimum five (5) copies each) (note: intermediate use of software other than ESRI is permissible.)
- b) Deliver the resultant statewide seamless product on the North American Datum of 1983 (NAD83) in the Rhode Island State Plane Coordinate system (RISPC) in units of U.S. survey feet.

- c) Provide a digital copy of all log files and all macro level program files used in the development of the products including those used for quality control purposes (ESRI ArcGIS Model Builder, AML or equivalent).
- d) All data must be accompanied by complete and fully compliant metadata to FGDC Content Standards
- e) A statistical analysis in Microsoft Access format of summary statistics by area for all land use coding categories on a statewide basis will be submitted.
- f) A statistical analysis in Microsoft Access format showing summary statistics by area(s) for all land use coding categories for each of Rhode Island's 39 municipalities will be submitted.
- g) A summary report in MS Word.Doc format outlining methods and procedures used in developing the 0304 Land Use/Land Cover data sets shall be included on each CD/DVD and will also be transmitted via email to the project manager at SWPP. The report will list all significant problems encountered and describe solutions employed to overcome them.

**Optional Deliverables – (Contingent upon funding availability at time of award)**

- A. Enhancement of the basic data set to include ¼ acre polygon definition and coding (vs ½ acre as detailed earlier).
- B. Development of data at ½ acre resolution beyond the state's border to a distance of ½ mile into neighboring Massachusetts and Connecticut where the extent of the available 2003/2004 orthophotography allows.
- C. Development of data at 1/4 acre resolution beyond the state's border to a distance of ½ mile into neighboring Massachusetts and Connecticut where the extent of the available 2003/2004 orthophotography allows.

All deliverables under this RFP shall become the property of the State of Rhode Island upon delivery and final acceptance.

## SECTION 7 - INSTRUCTIONS TO BIDDERS

### Bidder Proposals

It is essential that bidders proposals provide only the information needed to meet the RFP's requirements and to reasonably communicate the capabilities of a bidder's company. The technical evaluation team anticipates having to read multiple proposals. Proposals that are excessively wordy or padded with unclear or irrelevant information are more difficult to evaluate.

**Bidders should submit five (5) copies of their proposal organized as follows:**

- Letter of Transmittal
- Introduction/Executive summary
- Technical Proposal – Details for Process, Quality Assurance and Deliverables
- Company Description and History
- Business Proposal – References, Staff, Schedule
- **Price Proposal To be Sealed and Packaged Separately**
- In addition to the multiple hard copies of proposals required, Respondents are requested to provide their proposal in electronic format (CDRom or Diskette). Microsoft Word / Excel OR PDF format is preferable. Only 1 electronic copy is requested.

### Company Description and History

Bidders must provide for themselves and for all subcontractors proposed a brief corporate description and history including business organization and functional units, location(s) of offices, types of services and products offered, the number of years in business, and the number of employees in each business unit. If proposing to subcontract any part of the work, bidders must clearly describe the roles and responsibilities of each subcontractor. Bidders should provide evidence of financial stability such as balance sheets and income statements for the two most recent fiscal years. Additional or alternative information that may be provided includes number of employees, size of customer base, name of bank, name of law firm, name of accounting firm, annual rate of growth, approximate assets and liabilities. Bidders should also provide evidence of sufficient resources to be able to undertake large-scale projects involving substantial commitments of staff and equipment. Such evidence should include but is not limited to inventories of equipment proposed for use, physical plant, computer systems, aircraft, and any other resources, which would expedite the successful completion of the project.

## Business Proposal

Bidders must provide at least **three (3) references from the last three (3) years** of clients for whom similar work has been performed. For each reference provide:

- The name, address, and telephone number of the client's project manager or equivalent.
- The approximate geographic size of the client's jurisdiction.
- The project's beginning and ending dates.
- A concise description of the work performed and the products delivered
- The name of any sub-contractors used on the project.
- The offeror's status as a Minority Business Enterprise (**MBE**) certified by the Rhode Island Department of Administration, and or a subcontracting plan, which addresses the State's goal of ten per cent (10%) participation by MBE's in all State procurements. **For further information, contact the MBE Officer at 401 222-6253.**

Bidders must list the professional qualifications and experience for the staff, including those from sub-contractors, who will perform work on this project. **In addition the following information MUST be provided:**

- Resumes that include dates of employment for each project team member's different professional positions.
- A chart that cross-references proposed project team members and the reference projects listed in the proposal on which they performed substantive work.

The proposal must include a project schedule that clearly identifies milestones for completing various stages of the project that match development of the project deliverables. The schedule should reflect the time needed for RIDOA/SWPP staff to review delivered products. Timely delivery of all products is important. The proposal should discuss the possible impact of any factors that might affect the proposed schedule.

## Technical Proposal

Proposals must provide sufficiently detailed technical specifications and discussion of their approach so that the respondent's competence and ability to provide the required deliverables is clearly demonstrated. An evaluation of the proposed technical approach and specifications relative to the requirements of this RFP will be a key part of selecting a vendor.

The proposal must be based on using the existing 2003/2004 orthophotography and vector line data as described in this document. In this proposal, a bidder must provide technical detail on its plan for the work, including but not necessarily limited to the following topics:

1. Polygon generation and registration

2. Image LU/LC interpretation

3. Feature attribute coding

4. Final edge matching and mosaicing

5. Quality control procedures to be used to ensure compliance with the technical specifications of this request.

## Cost Proposal

Bidders must provide cost information as follows for this procurement:

***(Statements of Cost Must be Sealed and Packaged Separately From the Body of the Proposal- See attached Cost Proposal Summary – Page 17 of this RFP)***

- 2. A Total Cost of for the statewide data set as detailed in the "Section 6-Final Deliverables"*
- 3. A Total Cost of the statewide data set to a ¼ acre polygon resolution as defined in "Optional Deliverables" of Section 6.*
- 4. A Total Cost of the data set extending ½ mile into adjacent states at ½ acre resolution.*
- 5. A Total Cost of the data set extending ½ mile into adjacent states at 1/4 acre resolution.*

## SECTION 8 - GENERAL EVALUATION CRITERIA

### Minimum Qualifications

A proposal review team will evaluate each proposal for responsiveness to the following minimum qualifications:

- The proposal includes at least three (3) references from projects, all starting within the prior three (3) years that included photogrammetric interpretation and the delivery of digital products for use in a vector database model Geographic Information System.
- The proposal includes all the information requested in this RFP.

**RIDOA/SWPP reserves the right to eliminate from further review any proposal that does not meet ALL of the above minimum qualifications.**

**Proposals meeting the minimum criteria will be evaluated according to the criteria described below.**

## **Proposal Evaluation Process**

The objective of the evaluation process will be determining the proposal that provides the best combination of corporate capability, staff experience and technical specifications to assure delivery of a quality product and a reasonable and fair price for the services proposed. The following points will be considered as well:

- How long the bidder's business has been engaged in developing digital vector GIS data sets and the experience of the proposed staff
- How long the bidder's business has been engaged in photogrammetric interpretation of remotely sensed data including conventional aerial photography.
- Whether proposed sub-contractors have been used previously by the respondent on similar projects and whether or not those sub-contractors have been used on any of the referenced projects.
- Whether the client references were projects that involved producing GIS data of similar scale, accuracy, and resolution AND if at least one of the referenced projects involved using a pre-existing vector base map material.
- Whether references were satisfied with the quality of the delivered product, enjoyed good working relations with contractor's project staff and whether or not they would hire the contractor again for similar work.
- Whether reference projects met proposed project timelines
- Whether the respondent's project team, particularly those involved in image analysis and interpretation have experience working in the northeastern United States.
- Project cost

### **The bidder's technical proposal will be evaluated in the following areas:**

- Complete, clear, description of the proposed methodology and plan of operations, including any issues relative to use of the existing digital data.
- Discussion of how technical specifications in the proposal will assure quality of the final product(s).
- Organizational approach to project management including internal workflow, communication with the client, and quality assurance procedures.
- The successful Vendor shall be solely responsible for meeting all terms and conditions specified in this RFP, their proposal and any resulting contract. Subcontracts must be approved by the state; however, it is the responsibility of the selected vendor to supervise and monitor work performed by the subcontractor.
- The Vendor must agree to provide the contract deliverables by the dates established in the final work plan and schedule.

The State will commission a Technical Review Sub-Committee, which will evaluate and score all proposals, using the following criteria. **The applicant must achieve a score of at least 70 of the maximum combined 90 point total of the 30 points of the business and 60 points on the technical proposal prior to any consideration being given to the cost proposal submitted.**

Company Description and Business Proposal	0-30 points
Technical Proposal	0-60 points
Cost	0-40 points
<i>[Calculated as (lowest responsive cost proposal ÷ this cost proposal) X 40 points]</i>	

**TOTAL SCORE:                   Maximum =   130 points**

**Proposals must receive a minimum of 70, out of a possible 90, business and technical points to warrant further consideration. Proposals receiving less than the minimum technical score will be dropped from further consideration and not have the accompanying cost proposals opened or considered.**

**Notwithstanding the foregoing, the State reserves the right not to award this contract or to award on the basis of cost alone, to accept or reject any or all proposals, and to award in its best interest.**

**Proposals found to be technically or substantially non-responsive at any point in the evaluation process will be rejected and not considered further. The RIDOA/SWPP reserves the right to reject any or all proposals submitted and to waive any informality in any vendor’s proposal.**

**The State may, at its sole option, elect to require presentation(s) by offerors clearly in consideration for award. The Technical Review Sub-Committee may choose to conduct oral interviews with vendor finalists.**

The Technical Review Sub-Committee will present written findings, including the results of all evaluations, to the State's Architect/Engineer and Consultant Services Selection Committee, which will recommend a most favorable candidate to the Director of the Department of Administration, who will make the final selection for this requirement.

**SECTION 9 - SUBMISSION**

**Interested offerors may submit proposals to provide the services covered by this Request on or before the date & time indicated on page one of this solicitation. Proposals received after this time and date will not be considered.**

**Proposals: Hardcopy documents (an original plus five copies) should be mailed or hand-delivered in a sealed envelope marked: "RFP B06057: Digital Land Cover/Land Use for Rhode Island-2003/04" to:**

**DEPARTMENT OF ADMINISTRATION  
OFFICE OF PURCHASES (2<sup>nd</sup> floor)  
ONE CAPITOL HILL  
PROVIDENCE, RI 02908**

NOTE: Proposals received after the above-referenced due date and time will not be considered. Proposals misdirected to other State locations or which are otherwise not presented in the Division of Purchases by the scheduled due date and time will be determined to be late and will not be considered. Proposals faxed or emailed to the Division of Purchases will not be considered. The official time clock is located in the reception area of the Division of Purchases

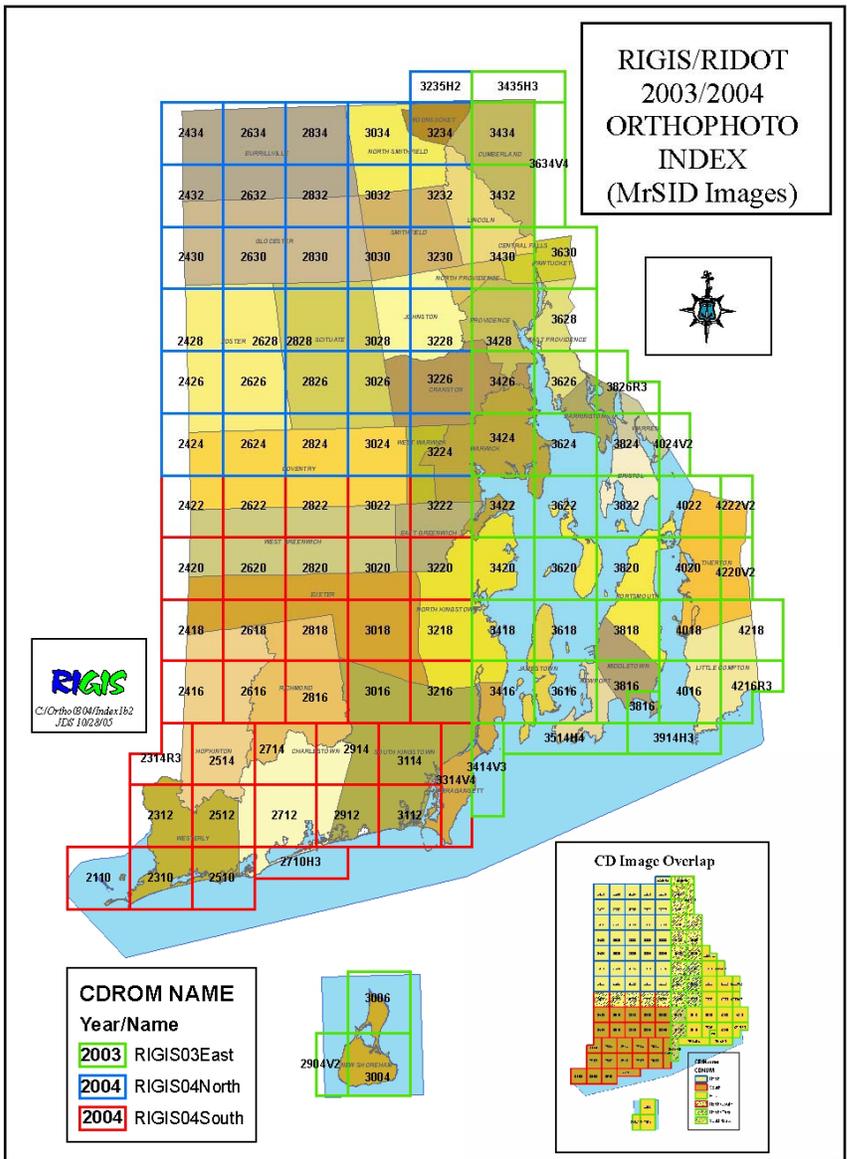
**Proposals must include the following:**

- 1) **A completed and signed R.I.V.I.P.generated bidder certification cover form (downloaded from the R.I. Division of Purchases Internet home page at <http://www.purchasing.state.ri.us>)**
- 2) **A signed, sealed, and separate Cost Proposal reflecting the cost for final and optional deliverables required under Section 4 Instructions to Bidders of this RFP and including completion of the attached Cost Proposal Summary form.**
- 3) **A *separate* Business and Technical Proposal described in Section 4 Instructions to Bidders, and detailed in the paragraph Bidders Proposals, of this RFP.**
- 4) **An electronic copy, CD Rom or Diskette, IN Microsoft Word or PDF Format, in Microsoft Word or a convertible format of the of the *separate* Business and Technical Proposal described in Section 4 Instructions to Bidders, and detailed in the paragraph Bidders Proposals, of this RFP.**

Cost Proposal Summary

**Bidders must provide cost information as follows for this procurement:  
(Statements of Cost Must be Sealed and Packaged Separately From the Body of the Proposal.)**

- 5) **A Total Cost of for the statewide data set as detailed in the "Section 6- Final Deliverables" \_\_\_\_\_**
- 6) **A Total Cost of the statewide data set to a ¼ acre polygon resolution as defined in "Optional Deliverables" of Section 6. \_\_\_\_\_**
- 7) **A Total Cost of the data set extending ½ mile into adjacent states at ½ acre resolution. \_\_\_\_\_**
- 8) **A Total Cost of the data set extending ½ mile into adjacent states at 1/4 acre resolution. \_\_\_\_\_**



**Figure 1. Statewide 2003/2004 Orthophoto Image Index**

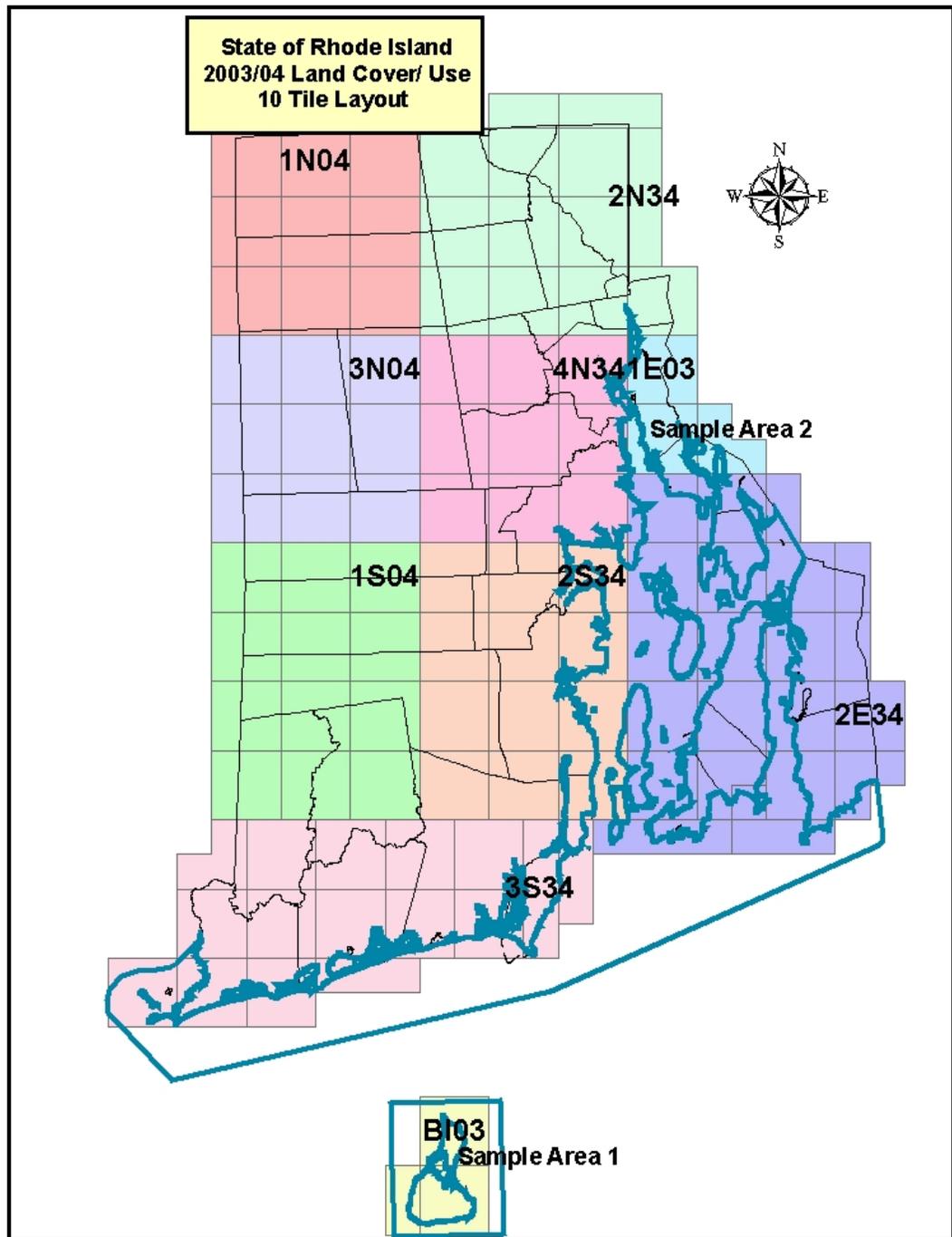


Figure 2 Tile Structure - Land Cover/Land Use Interim Deliverables (with Sample Tile Areas Indicated).

TABLE 1

## RHODE ISLAND LAND USE AND LAND COVER CLASSIFICATION SCHEMA

ANDERSON CODE DESIGNATION	DESCRIPTION
100 Urban Developed or Built Up Land	
110 Residential	
111 High Density	>8 dwelling units /acre
112 Medium High Density	4 to 7.9 dwelling units/acre
113 Medium Density	1 to 3.9 dwelling units/acre
114 Medium Low Density	.5 to .9 dwelling units/acre
115 Low Density	< .5 dwelling units/acre
120 Commercial & Services	-primary sale of products and services
130 Industrial	- manufacturing, design and assembly, finishing, etc. industrial parks
140 Transportation, Communications And Utilities	
141 Roads	- divided highways with 200 feet or more of right of way width, interchanges, related terminals and parking
142 Airports	-runways, terminals, parking, storage
143 Railroads	- terminals, parking, repair areas
144 Water and Sewage Treatment Facilities	- land and associated buildings
145 Waste Disposal Areas	-active landfills and junkyards
146 Electric, Gas, Water Lines	- rights-of-way of 100 feet or more width
147 Other	- water based transportation facilities, Commercial docks
150 Mixed Urban	- light industrial and commercial uses that can not be separated
160 Other Urban	
161 Developed Recreational	- urban parks, zoos, stadiums, golf courses, playfields, marinas
162 Urban Open Space	- vacant land
163 Cemeteries	- cemeteries
170 Institutional	- education, health, correctional, religious, military, etc.
200 Agricultural Lands	
210 Pasture	- hay fields, land not suitable for tillage
220 Cropland	- intensively farmed and tillable land
230 Orchards, Groves, Nurseries	
240 Confined Feeding Lots	- animal raising in confined areas
250 Idle Agriculture	- abandoned field and orchards etc.
300 Forest Land	
310 Deciduous Forest	- 80% or greater deciduous species
320 Evergreen Forest	- 80% or greater evergreen species
330 Mixed Deciduous	- 50-80 deciduous species
340 Mixed Evergreen	- 50-80% evergreen species
400 Brushland	- shrub and brush areas, cut over areas undergoing reforestation
500 Open Water - All Open Water Bodies	
510 Fresh Water	- Reservoirs, Lakes and Ponds

**550 Salt Water - Bays,Sounds,Inlets and Coastal Ponds**

**600 Wetlands - forested and non-forested area**

**700 Barren Land**

**710 Beaches**

**720 Sandy Areas other than Beaches**

**730 Rock outcrops**

**740 Strip Mines, Quarries, & Gravel Pits**

**750 Transitional Areas**

**760 Mixed Barren**