PUBLIC WORKS COMMITTEE

AGENDA

TOWN OF CHINCOTEAGUE

August 02, 2011 – 5:00 pm – Council Chambers – Town Hall

CALL TO ORDER

ROLL CALL

PUBLIC PARTICIPATION

AGENDA ADOPTION

1. Storm Water Master Plan Phase II
2. Questions/Comments

Adjourn

Chincoteague Stormwater Master Plan Scope Outline

GOALS for each Phase of the SWMP

Phase 1

- Identify stormwater outfalls and develop an inventory from information captured by the Town of the stormwater collection system in GIS
- Delineate major watersheds
- Identify areas of future development within the Town based on the Comprehensive Plan
- Identify and prioritize known flooding issues
- Develop a framework for the PCSWMM stormwater modeling of each watershed (existing & future)
- Discuss improvement strategies and stormwater design standards (ordinance concepts)
- Provide a recommended design level of protection for stormwater improvements and develop improvement costs
- Develop Prioritization with Cost/Benefit Ratio
- Identify potential resource protection areas (such as natural flood storage areas)
- Identify other environmentally sensitive areas? Wetlands, Habitats, Sanctuaries, Estuaries, Shoreline, etc.
- Identify grant opportunities and funding sources. Provide a nexus between the stormwater master plan effort and existing plans, policies and programs (stormwater utility fees)
- Encourage public awareness and participation
- Provide direction for the next phase of the SWMP (including recommended number of survey points for each watershed)

ACTION ITEMS:

- CN to Provide Town a Stormwater Data Collection Template
- CN to Provide Town Field Maps for Stormwater Data Point Identification

Phase 2

- Field Survey features recommended in Phase 1
- Refine the GIS database with select field survey information
- Refine the existing and future conditions PCSWMM models
- Refine potential resource protection areas
- Develop an Improvements model for each watershed (broad scope/trunk line)
- Provide cost estimates for the improvements
- Re-evaluate the improvement priorities from Phase 1 and incorporate improvements into the capitol improvements budget
- Develop stormwater utility fees and stormwater design standards
- Identify grant opportunities and funding sources. Provide a nexus between the stormwater master plan effort and existing plans, policies and programs
- Encourage public awareness and participation
- Provide a clear direction for the next phase of the SWMP

Phase 3 (on-going)

- Develop detailed survey and improvement plans for selected improvement projects
- Re-evaluate the improvement priorities and incorporate improvements into the capitol improvements budget as projects get completed
- Incorporate completed projects into the existing and future conditions PCSWMM models
- Update the appropriate Town Plans (Hazard Mitigation, Comprehensive Plan, etc) as projects get completed
- Identify grant opportunities and funding sources. Provide a nexus between the stormwater master plan effort and existing plans, policies and programs
- Encourage public awareness and participation

Chincoteague Stormwater Master Plan Scope Outline

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CLARK • NEXSEN
Architecture & Engineering

May 17, 2011

Town of Chincoteague
6150 Community Drive
Chincoteague Island, VA 23336

Attention: Mr. Harvey Spurlock, Director of Public Works

RE:. Phase II Fee Structure

Dear Harvey:

This letter documents a basic scope of services and estimated fee for various components identified to be performed under Phase II of the Storm Water Master Plan.

Completion of a Structures Survey will cost approximately **$85,000.**
This effort involves surveying x, y, z values for approximately 650 structures (inlets, catch basin, manholes, outfalls) including RIM, invert, water depth, and condition assessment, pipe size, invert, material and direction. This cost also includes surveying approximately 450 driveway pipes and minor and major roadway culverts. This estimated fee covers surveying the drainage structures and pipes for the entire island.

Inclusion of Survey Data into Town's Existing GIS will cost approximately **$42,000.**
This effort involves upgrading and expanding the City's geo-database to include the surveyed drainage structures and pipes, driveway and roadway culverts and integration of the drainage CADD data. This work includes creating the database (schema, subtypes, domains), populating the database with surveyed attributes, converting CADD structure, pipe, ditch and watershed data.

Integration of the New LIDAR Data into Town's Existing GIS will cost approximately **$10,000.**
This effort involves the conversion of the processed LiDAR data into GIS geodatabase. It is assumed that the processed LiDAR data will be provided in DGN, DWG or DXF format. The effort involves the creation of standard elevation model datasets and feature classes along with the necessary subtypes and domains. The conversion will include the break-lines representing water bodies, shorelines, contour lines, and spot elevation points. Obscured areas feature class will be added if data is provided by the Town. This will be determined upon receipt of the processed data.

Fill Ordinance Development will cost approximately **$15,000.**
This effort will involve research and development of a unique ordinance for the Town to regulate fill activities performed by private development. This work will include development of design standard sketches for use by the Town and Developers when performing work.

Maddox/Traffic Circle Design will cost approximately **$65,000.**
This effort involves performing an analysis and design of the existing drainage system to determine design options including replacement of the submersible pump to reduce flooding. The work will include, field investigation, research, topographical survey, geotechnical services, pump and wet well design, design plans and specifications, construction administration support and environmental permitting for new outfalls and minor downstream improvements.

These fees are conservative "order of magnitude" fees and do not represent a formal scope of services to perform the intended work but are provided for the purpose of general budgeting.

Yours very truly,

Robert Sherman, PE
Project Manager

RAS/ras