



TOWN OF MALABAR, FLORIDA
ROAD IMPROVEMENT TECHNICAL PROVISIONS

SECTION 1 — GENERAL REQUIREMENTS AND MOBILIZATION

1.01 INCORPORATED PROVISIONS

The Florida Department of Transportation's current "Standard Specifications for Road and Bridge Construction", with addenda, are hereby adopted. If the documents do not specifically cover any item of work, then the Standard Florida Department of Transportation Specifications and/or the Malabar Code requirements for streets and drainage will govern. The Town Engineer will determine governing standards and will respond to requests for additional information made by the Contractor to clarify technical issues.

1.02 MOBILIZATION

Mobilization is listed as a pay item and the contractor is to include therein all costs of organizing, staging, overhead, bonds, equipment delivery and items not specifically included as a separate pay item in the agreement.

1.03 MAINTENANCE OF TRAFFIC

Maintenance of traffic will be in accordance with the Florida Department of Transportation's current "Standard Specifications for Road and Bridge Construction". If MOT is not include as a separate pay item on the proposal then the contractor will include the costs in the line items on the bid. The Town Administrator may approve temporary closing of a minor street if the contractor can provide a satisfactory plan of ingress/egress for residents along the segment to be closed.

1.04 COMPENSATION

The detailed line item prices and the amount of the contract agreement shall be full compensation for all work shown in the plans and/or designated in the Special Conditions performed in accordance with this section. No additional payment shall be made to the contractor unless a change order has been approved by the Town Administrator or his designee.

1.05 CLEARING AND GRUBBING

Clearing and grubbing shall be confined to the areas shown in the plans and/or designated in the Special Conditions. Included in the work under this section is the removal and disposal of all trees, stumps, roots, organic materials, existing pavement, debris and other facilities necessary to prepare the area for the proposed construction. The Town Engineer will show the Contractor control points, known survey markers and benchmarks. The Contractor shall use due care to avoid disruption to control points, survey markers, lot corners and fences abutting the work area. Any survey markers disrupted by the contractor shall be replaced by a registered surveyor and paid for by the Contractor. Any damage to abutting property shall be promptly repaired by the Contractor

In all areas shown in the plans to be cleared and grubbed, roots and other debris shall be removed to a depth of at least one foot below the ground surface. The surface shall then be plowed to a depth of at least six inches and all roots thereby exposed shall be removed to a depth of at least one foot. All stumps within the area to be cleared and grubbed shall be completely removed and disposed of by the Contractor. Where excavation is done, all roots, etc., protruding through or appearing on the surface of the completed excavation shall be removed to a depth of at least one foot below the excavation surface. Property obstructions, which are to remain in place, such as swales, drains, inlets, poles, cables, curbs, paving, etc., are to be carefully protected from damage. All signs to be removed will be saved for Town use. Malabar contact for signs is Carl Beatty, Public Works Supervisor.

As an exception to the above provisions, where so indicated in the plans and designated in the Special Conditions or directed by the Engineer, desirable trees within the area to be cleared and grubbed shall be protected and left standing. The contractor will use due care to prune roots and not damage the tree bark. Burning of combustible materials on the site may be allowed, subject to applicable laws, ordinances and regulations and the approval of the Town Administrator.

SECTION 1.06 - EXCAVATION AND EMBANKMENT

The work specified in this section consists of the excavation and embankment required for materials of whatever nature encountered within the limits of the proposed work. It shall also include the compaction and dressing of excavated areas and embankments. It is intended that all excavation and shaping necessary for the preparation, construction and completion of all embankments, sub-grades, shoulders, swales, retention areas, slopes, and gutters be in accordance with the

required alignments, grades, and cross section shown in the Plans, or as directed by the Engineer.

Regular excavation shall include all excavation required for the work with the exception of borrow excavation. Borrow excavation shall consist of the excavation and satisfactory utilization of material from off site borrow pits. It shall include only material that is suitable for the construction of embankments covered by the contract and shall be approved by the Engineer.

Borrow shall be resorted to only when sufficient quantities of suitable material are not available, as herein prescribed from roadway and drainage excavation, to properly construct the embankment, sub-grade, and to complete the backfilling of structures. On any section where borrow is required the Contractor shall construct first those sections showing no borrow, so that all suitable surplus material therein will be utilized in the borrow sections. Borrow material, as required, shall be obtained from areas furnished by the Contractor. The Contractor shall supply the Engineer with evidence that he has secured the necessary permits, rights and waivers for the use of such areas.

The lump sum quantity for the item of excavation and embankment shall include all excavation, fill, borrow, grading and all other work specified in this section required for the completion of the work.

1.07 COMPACTION

In all excavated and embankment areas, the backfill shall be compacted for its full depth to a density of at least 100% under areas which are to be paved and 98%, for its full depth, under unpaved areas. All testing shall be done in accordance with AASHTO T-1 80. Tests shall be made for each one-foot layer of fill placed. Any excess material resulting from the grading operation shall be disposed of by the Contractor if not needed for work on the project or as specified on the Plans.

1.08 ROADWAY BASE

The work specified in this section consists of the construction of a base course composed of cemented coquina, lime rock or other material approved by the Town Engineer. It shall be constructed on the prepared sub-grade in accordance with the Town Code and in conformity with the lines, grades, notes and typical cross section shown in the plans. No extra payment will be made for the prime coat.

1.09 SODDING, SEEDING, AND MULCHING

The Contractor shall furnish all labor, materials and equipment and perform all necessary services required to grass the slopes, embankments, rights-of-way, or other areas, by means of sodding and/or seeding and mulching as detailed on the plans. Sod shall comply with Section 98 1-2 of the Florida Department of Transportation Specifications. The type of sod to be installed shall match the material in place before construction or in the absence of a discernable type shall match the type of sod of the abutting owner. The contractor shall irrigate the sod until it is established and be responsible for the survival of the sod until final payment by the Town. The work will be accepted when, in the opinion of the Town Engineer, a full stand of grass has been established and there is continuous growth over the area except for small scattered spots which may be expected to close in by natural propagation.

Seed shall comply with Section 981-1 of the Florida Department of Transportation Specifications (2000) and as supplemented.

Mulch: Mulch shall comply with Section 981-3 of the Florida Department of Transportation Specifications (2000) and as supplemented.

1.10 TESTING

The Contractor shall use an independent testing laboratory, satisfactory to the Town, to perform tests in connection with the construction covered by the scope of this project. The Town shall be the client to the testing laboratory and pay for the tests meeting or exceeding the project requirements. The Contractor shall bear the costs of all re-tests. All tests performed on the project shall be reported to the Town whether the results pass or fail to meet specification requirements. All failing test reports shall be highlighted in color. The test specification requirement shall be shown on each test report. A sealed copy of the report shall be sent to the Town Engineer. To expedite the construction of roads and streets, the Contractor shall notify the Engineer and the laboratory at least 24 hours prior to commencement of work on the different phases of construction.

1.11 RECORD DRAWINGS

The Contractor shall furnish to the Engineer a set of red lined prints showing changes made in the field and they must accurately reflect the conditions as constructed for the project. Field verified data shall be shown next to the crossed

out proposed information. Stormwater inlets, structures, pipes and swales shall have top and invert elevations shown on the drawing.

1.12 JOB PROGRESS PHOTOGRAPHS

The Contractor shall document, with digital pictures, the job progress. A photo showing the original condition of the site, a weekly progress photo, work items of particular interest, structures, problem areas and a final photograph shall be a part of the project file to be conveyed to Malabar at the final inspection and prior to final payment.

1.13 PERMITS AND ADDITIONAL INFORMATION

The Contractor is cautioned to carefully examine any permit that is furnished by the Town for the project or any permit that he is required to obtain to construct the project. The Contractor will review any permit condition, notification requirement, inspection, mitigation or schedule and provide the Town with a compliance schedule at the pre-construction meeting.

1.14 FINAL INSPECTION

The Town Engineer will perform a final inspection after written notification by the Contractor that all work is complete and meets the requirements of the documents and plans (FAX and E-Mail is considered written). The Contractor shall furnish, at final inspection, all testing reports, photographs, surveys and record drawings. If the project fails the final inspection and future trips are required to complete the final inspection the Contractor shall have the additional costs deducted from his final payment.

1.15 CONTRACTOR AND SUBCONTRACTOR REGISTRATION AND CERTIFICATION

The contractor shall provide written evidence to Malabar that he/she is a State Certified General Contractor. All subcontractors, which shall include sub-subcontractors, shall be required to maintain a general commercial liability policy naming the Town as an additional insured, in at least the same amount required of the contractor. Additionally, all subcontractors shall have and maintain workers compensation insurance and must provide a certificate of compliance or its equivalent with the Town before commencement of any work on the project.

1.16 CONTRACTOR'S INSURANCE REQUIREMENTS

The Town of Malabar requires contractors performing roadway construction activities within public right of way to carry a public liability insurance policy in the amount of one million dollars. The policy shall be underwritten by an agent and company licensed in the state of Florida and shall name the Town of Malabar as an additional insured on the policy. A copy of the policy shall be provided to the Town Clerk prior to any notice to proceed being issued to the contractor. A copy of any cancellation notice issued during the project construction shall be provided to the Town Clerk.

I have read and agree to the above technical provisions.

Contractor

Date

Job: (name of job)