

DATE: 3/16/2012 1 of 2
TO: Project Review (CO-PROJREV)
FROM: Nadir Rodrigues, PE., Project Manager
COPIES: DDE, DCPME
SUBJECT: **Revision Number** 1 - Letting (mo./yr.) 04/2012
Financial Project ID 429679-1-52-01 (Lead number only)
Proposal/Contract ID E4M81
Federal Funds: No Yes Federal Aid No. _____
County Broward State Road No. 9
Concurred by: [Signature] Date: 3/19/2012
Signature of Director of Transportation Development or Designee

I have reviewed for effects on the Specifications Package and a package revision is **is not** required. Approved By: [Signature] Date: 3/19/12
Signature of District Specifications Engineer

If FA Oversight, Authorized By: _____ Date: _____
Print Name of FHWA Engineer

REVISIONS RECEIVED IN THE PROJECT REVIEW OFFICE WITHIN 15 WORK DAYS OF THE LETTING MUST BE APPROVED BY THE DISTRICT SECRETARY.

NO REVISIONS ALLOWED WITHIN 5 WORK DAYS OF THE LETTING.

Approved By: [Signature] Date: 3/19/12
Signature of District Secretary

- SUPPLEMENTAL SPECIFICATIONS PACKAGE NUMBER One (1-6Pages).
 - REISSUED SPECIFICATIONS PACKAGE _____ (_____ Pages).
 - PLANS REVISION NUMBER _____ (_____ Sheets):
 - CONTRACT TIME REVISED: No Yes (If yes, _____ Calendar Days)
-

DATE: 3/16/2012

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Financial Project ID 429679-1-52-01 (Lead number only)

Proposal/Contract ID E4M81

PLANS REVISION NUMBER _____

Sheet No(s). Rev. Date Description

_____	_____	_____
_____	_____	_____
_____	_____	_____

SUPPLEMENTAL SPECIFICATIONS PACKAGE NUMBER One

Sheet No(s). Rev. Date Description

1-6 3/16/2012 Revised TSP Articulating Block to remove "bi-directional"

_____	_____	_____
_____	_____	_____

Summary of Quantities (Trns*port)

Pay Item	Sheet No.	Add. / Del. / Rev.	Old Quantity	New Quantity

Central Office Use:

Processed By: _____



SUPPLEMENTAL SPECIFICATIONS PACKAGE NUMBER ONE
FOR
FINANCIAL PROJECT ID(S). 429679-1-52-01

DISTRICT FOUR
BROWARD COUNTY

The 2010 Edition of the Florida Department of Transportation Standard Specifications, the Specifications Package for this project, dated 1/24/2012, attached thereto, are revised as follows:

I hereby certify that this specifications package has been properly prepared by me, or under my responsible charge, in accordance with procedures adopted by the Florida Department of Transportation.

The official record of this package is the electronic file signed and sealed under Rule 61G 15-23.003, F.A.C.

Name: Maverick Marshall
Page(s): 1-6

TECHNICAL SPECIAL PROVISIONS. (Rev. 7/1/2007) (FA.) (07/07), pages 469-471 of the Specifications Package, are deleted and the following substituted:

**TECHNICAL SPECIAL PROVISION
FOR
RIP RAP (ARTICULATING BLOCK)
Financial Project ID: 429679-1-52-01**

The official record of this Technical Special Provision is the electronic file signed and sealed under Rule 61G 15-23.003, F.A.C.

Prepared by:
Maverick Marshall, P.E.#52704
2035 Vista Parkway
West Palm Beach, FL. 33411
Date: March 16, 2012
Pages: 1 thru 3

T531 RIPRAP (ARTICULATING BLOCK)

T531-1 Description.

Construct a riprap revetment system composed of interlocking articulating concrete blocks, fabricated into cellular mattresses, in accordance with the manufacturer's recommendations, placed to the lines, grades and dimensions shown in the plans. Substitution of rubble riprap or fabric formed riprap for the articulating block revetment system will not be accepted.

T531-2 Materials.

T531-2.1 Articulating Block Revetment: Provide open and closed cell concrete articulating block revetment as detailed in the plans. Submit for approval documentation of the proposed articulating block revetment system demonstrating a minimum five-year successful track record for its use in similar applications. Concrete blocks will be a minimum of four inches thick. Open cell block revetment will have an open area of 20% minimum and a weight of 32-35 lbs/ft². Closed cell block revetment will have an open area of 7% maximum and a weight of 37-40 lbs/ft². Design articulating block revetment system based on the dimensional requirements detailed in the Contract Plans. Rope or cable, used to create prefabricated mattresses, and anchors used as construction aids, will not be considered in the design calculations. Submit for the Engineer's review and approval, detailed design calculations and shop drawings, signed and sealed by a professional engineer registered in the State of Florida, which clearly show all details necessary for the construction of the articulating concrete block riprap system.

T531-2.2 Concrete: Use concrete meeting the requirements of FDOT Standard Specifications Section 346.

T531-2.3 Plastic Filter Fabric: Provide drainage class plastic filter fabric (geotextile) meeting the requirements of FDOT Standard Specifications Section 514.

T531-2.4 Cellular Concrete Mattresses: Prefabricate individual articulating blocks into cellular concrete mattresses at the manufacturer's approved plant or location. Any special permits necessary to transport the prefabricated mats will be the contractor's responsibility.

T531-2.5 Grout: Provide a non-shrink grout meeting the requirements of FDOT Standard Specifications Section 934.

T531-2.6 Miscellaneous Hardware: Provide, size and install items such as cables, cable fittings (sleeves, stops, washers, etc.) and earth anchors according to the manufacturer's recommendations. Cables will be galvanized aircraft cable.

T531-3 Construction Methods.

T531-3.1 Subgrade: Excavate, shape and compact subgrade of articulating block revetment to a firm, unyielding, even surface, true to grade and cross section. The subgrade for the articulating block revetment system will be free of voids, pits, or depressions and will be compacted in accordance with the manufacturer's recommendations. Voids, pits or depressions will be brought to grade by backfilling in accordance with FDOT Standard Specifications Section 125.

T531-3.2 Plastic Filter Fabric: Place plastic filter fabric immediately after inspection and acceptance of the subgrade material by the Engineer.

T531-3.3 Cellular Concrete Mattresses: Inspect foundation surfaces for damage and repair any defects prior to placement of cellular concrete mattresses. Place cellular concrete mattresses immediately after acceptance of the foundation surface by the Engineer. Install and secure the cellular concrete mattresses in accordance with the manufacturer's recommendations and the approved shop drawings. Grout all seams and gaps between mattresses after acceptance of blocks and mattresses by the Engineer. Grout the connection to appurtenances. The connection with the existing water gauge appurtenance will be as directed by the Engineer. Grout shall be thoroughly compacted in place and struck off to adjacent surfaces. Field-crimp integral lateral (transverse) cables between abutting mats, every third row of blocks. Both the top and bottom row of blocks must be laterally crimped.

T531-4 Finishing.

T531-4.1 Gravel Fill: Completely fill open cells with clean, broken stone or gravel so placed as to allow free drainage but at the same time prevent fill from washing out, limestone shall not be used.

T531-5 Warranty.

Available manufacturer's warranties will be transferred to the Department before final acceptance of the job.

T531-6 Method of Measurement.

The quantity to be paid for will be the exposed surface area, in square yards, of articulating concrete block revetment, satisfactorily placed and accepted, regardless of thickness. Headers, toe walls, and other buried parts of the articulating block revetment system will be incidental to the pay area.

T531-7 Basis of Payment.

Prices and payment will be full compensation for all work specified in this Section, including furnishing and installing the articulating block revetment system, filter fabric, grout, rope, cable, anchors, gravel fill, blocks, labor and materials required to complete the work in an acceptable manner.

Payment will be made under:

Item No. 530-78 Riprap (Articulating Block) – yd²

**THIS COMPLETES
THIS
SUPPLEMENTAL
SPECIFICATIONS
PACKAGE**