



GOVERNMENT OF BERMUDA

Ministry of Public Works
Department of Works and Engineering

Tender for: Barry Road & Coot Pond Road
Realignment, St. Georges Parish

Addendum #1

June 26, 2017

The following addendum supersedes information contained in the Letter of Invitation, Bill of Quantities, Scope of Work and drawing plans issued for the Tender to the extent referenced. This Addendum and the revised Bill of Quantities forms part of the Tender documents and is subject to all of the conditions set out in the contract conditions.

This Addendum # 1 contains 4 pages of description plus the revised Bill of Quantities 6 pages.

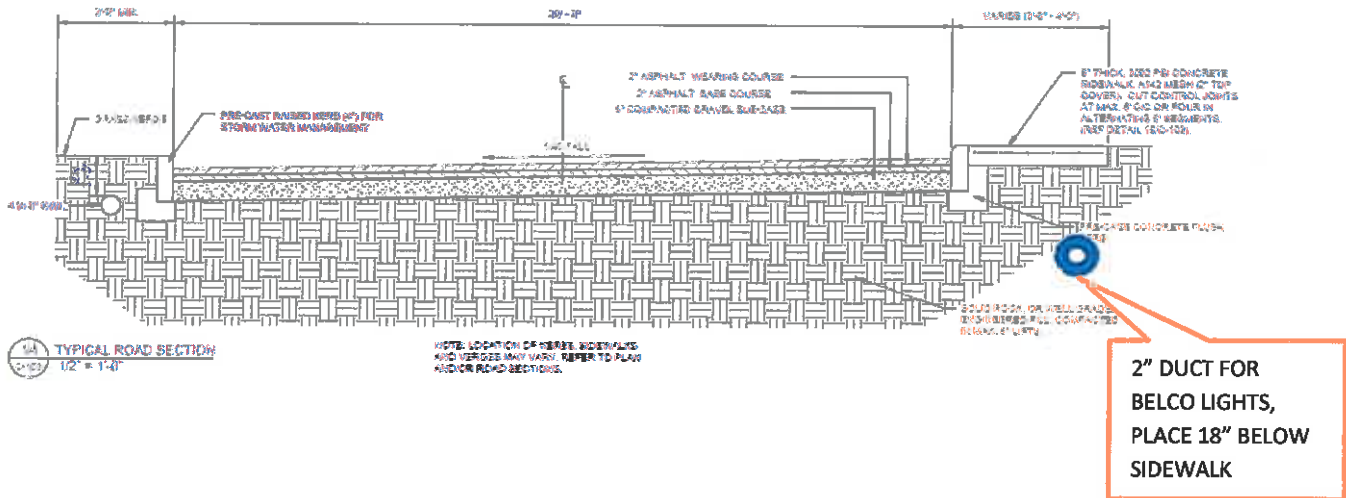
Addendum #1

**A. Letter of Invitation
Extension to Key dates**

Action	Date
Tender Closing and time	3:00 p.m. Wednesday July 5 th , 2017

B. Bill of Quantities

1. All duct lines shall be supplied by Contractor.
2. Light poles to be installed by BELCO. Contractor to install duct line under sidewalk per detail below amended C-103 detail 14.

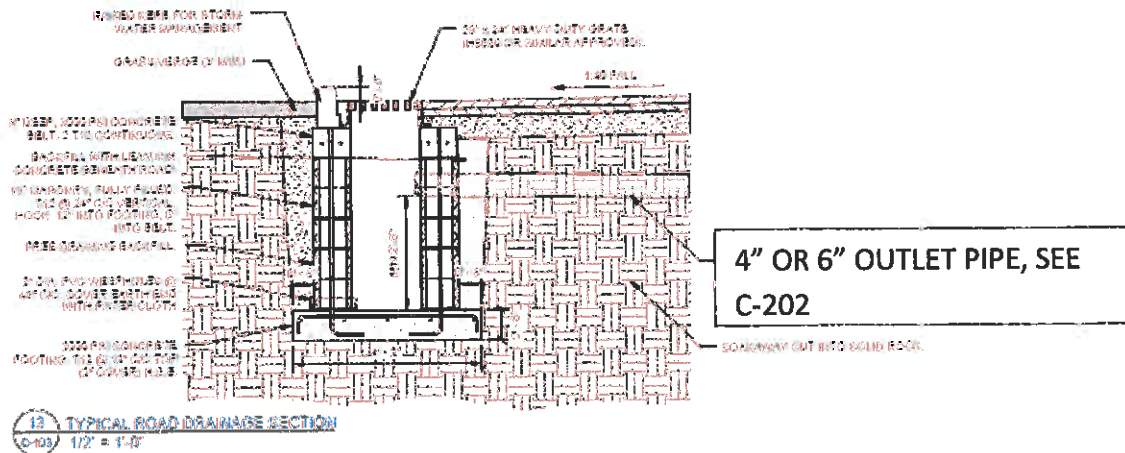


3. Disregard items under Utilities power line Barry Road 0-1350 ft. Drawing C-302 deleted out of tender.



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- On drawing C-103 detail 13, outlet pipe size to vary between 4" & 6" pipe where indicated in drawing C-202.



- Missing quantity under "Place subsoil backfill" added.
- "Site Clearance" means clearing off parking lot area top soil. Change quantity to 10,000 sf.
- Added Barry Road Parking lot 4" fill & compact with quantity.
- Additional item for Site Clearance: Relocation of 4 Palmetto Palm Trees from Barry Road Prism approximately no more than 400 ft west of existing paved Golf Cart Path, inclusive daily watering.

02100 Site Preparation

1.5 Tree relocation.

- Large accommodating holes are to be dug in locations to a depth of 4+ feet and should be a minimum of 6 x 6, to maximum of 8 x 8 feet wide depending upon the size of palm to be trans located.
- All soil (from hole excavation) to be consolidated on site and used as top dressing – all excavated rubble and dirty fill to be trucked off site.
- All palms to be excavated individually and relocated immediately to new setting; palms to be oriented as they were prior to relocating facing North / South. Root balls should be at the maximum for crane capability and soil carrying capacity (size allowable for soil root ball to not collapse under its own weight); methods appropriate to 'best horticultural practices' should be followed.



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- D. All holes to be lined with minimum of 8 inches of sifted soil (½ inch maximum screen size); infill soil around root ball to be shifted to same standard and moderately compacted.
- E. All soil must be good quality with less than 1/3 sand or crushed rock material.
- F. A 6 inch soil dressing using the existing excavated soil from the site should form a top layer over the imported sifted soil: this layer to be slightly mounded and with a watering capture ring (four feet radius) or mote to enable water to be retained during watering necessity.
- G. Layer of Government mulch from Marsh Folly Horticultural Center of 6 inches to be spread on the top soil layer (again conforming to watering ring) with all large plastic (bigger than tennis ball), bone or other nonorganic trash/litter items to be 'picked' out and appropriately discarded at Tynes Bay Waste to Energy facility.
- H. Within 4 hours of relocation, one 55 gallon + (one barrel) of water must be applied to each translocated palm. Thereafter transplanted trees to be regularly watered as necessary.

Addition to Method of Measurement add: under 2 Site Clearance;

- 1. Relocate trees
 - (a) Trees to be located less than 400 feet away from current positions
 - (b) Excavate holes to accommodate palm trees
 - (c) Soil from excavation to be consolidated on site and used as top dressing, rubble and unsuitable material to be removed from site
 - (d) Existing trees to be carefully excavated out and removed
 - (e) Existing trees once excavated to be carefully transported to new location.
 - (f) Replanted trees to receive sufficient water and fertilizer to ensure successful transplant in new location
 - (g) Transplanted trees to be supported until such time that they are self-supported.
- 9. Provide Pedestrian and bike detour route access to Fort from Coot Pond Road. Ready for Coot Pond Road closure: signage



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Existing Golf Cart Path

10. Changed quantity items under 3. Earthworks Barry Road and added "Excavate from 8' to depth of 16' acceptable material to formation" quantity.

END OF ADDENDUM #1 DESCRIPTIONS. SEE ATTACHED REVISED BILL OF QUANTITIES NEXT

Yours faithfully,

YVES (BOB) LORTIE

CHIEF ENGINEER

MINISTRY OF PUBLIC WORKS



BILL OF QUANTITIES

All prices (in Bermuda dollars) in the schedule are to be inclusive of materials and related accessories, storage, transport, plant and equipment assembly, placement, access, overhead and profit. Works ordered in writing by the Engineer.

Description	Units	Quantity	Rate	Total
1. Preliminaries				
Traffic Management for Barry Road & Coot Pond Road	Item	1		
Traffic Management for detour route	Item	1		
Temporary Accommodation				
Mobilisation of accommodation, stores and workshops for the Contractor	Item	1		
Mobilisation of accommodation for the Engineer	Item	1		
Servicing of accommodation, stores and workshops for the Contractor	Item	1		
Servicing of accommodation for the Engineer	Item	1		
Dismantling of, accommodation, stores and workshops for the Contractor	Item	1		
Dismantling of, accommodation for the Engineer	Item	1		
2. Site Clearance				
Site Clearance	sqf	10,000		
Relocation of Palm	ea	4		



Trees				
3. Earthworks				
Barry Road				
Excavate up to depth of 8' Rock to formation	cy	50		
Excavate from 8' depth to 16' Rock to formation	cy	100		
Excavate up to depth of 8' acceptable material to formation	cy	1000		
Excavate from 8' depth to 16' acceptable material to formation	cy	500		
Deposition of fill to formation of up to 5'	cy	3390		
Excavate hill to utilize for fill	cy	2850		
Import of fill to utilize either from hill or other site	cy	1170		
Top Soiling	cy	50		
Grass Seeding	cy	50		
Completion of formation	sqf	27,000		
Removal of existing asphalt from Barry Rd	sf	2620		
Coot Pond Road				
Excavate up to depth of 5' acceptable material to formation	cy	241		
Deposition of fill to formation of up to 5'	cy	241		
Top Soiling	cy	11		
Grass Seeding	cy	11		
Victoria Road				
Excavate up to depth of 5' acceptable material to formation	cy	126		
Deposition of fill to formation of up to 5'	cy	126		



Top Soiling	cy	3		
Grass Seeding	cy	3		
Barry Road Parking lot 4" fill & compact	cy	3,333		
4. Drainage & Service Ducts				
Utility services Barry Road				
Utility Trenching for detail 6, C-103, L=68'				
Excavate 4' wide and 5'-3" depth below roadway formation	cy	53		
Utility Installation				
Lay 2 - 4" pvc duct BTC CV	LF	136		
Lay 3 - 6" pvc duct Belco & Sewer	LF	204		
Lay 2 - 10" pvc duct Water	LF	136		
Sifted Sand Backfill	cy	50		
Utility Trenching for detail 7, C-103, L=40'				
Excavate 4' wide and 5' depth below roadway formation	cy	30		
Utility Installation				
Lay 1 - 2" pvc duct Pilot blue	LF	80		
Lay 3 - 4" pvc duct BTC CV	LF	120		
Lay 3 - 6" pvc duct Belco & Sewer	LF	120		
Lay 3 - 12" pvc duct Water	LF	120		
Sifted Sand Backfill	cy	27		
Utility Trenching for detail 8, C-103, L=50'				



Excavate 4' wide and 4'-8" depth below roadway formation	cy	35		
Utility Installation				
Lay 1 - 2" pvc duct Power control	LF	50		
Lay 1 - 4" pvc duct Power control	LF	50		
Lay 1 - 6" pvc duct Belco	LF	50		
Lay 1 - 8" pvc duct Sewer	LF	50		
Lay 1 - 12" pvc duct Spare	LF	50		
Sifted Sand Backfill	cy	30		
Utility Trenching for detail 9, C-103, L=50'				
Excavate 4' wide and 4'-7" depth below roadway formation	cy	34		
Utility Installation				
Lay 1 - 8" pvc duct Spare	LF	50		
Lay 1 - 12" pvc duct Sewer	LF	50		
Sifted Sand Backfill	cy	30		
Storm drain 4" pipe Trenching	LF	455		
Storm drain 6" pipe Trenching	LF	590		
Thrust Blocks	EA	2		
Storm drain Catch Basin	EA	11		
Storm drain Settling Chambers				
Construct with two chambers	EA	3		
Drill borehole - 3 avg.	LF	108		



depth=36'				
5. Sub-base				
Road Construction Barry Road 0-1350 ft				
Place and compact 6" sub-base	CY	500		
Road Construction Coot Pond Road 0-300 ft				
Place and compact 6" sub-base	CY	112		
Road Construction Victoria Road 0-63 ft				
Place and compact 6" sub-base	CY	24		
6. Sidewalks & paved Areas				
Road Construction Barry Road 0-1300 ft				
Place 10"x5" kerbs	LF	2700		
Sidewalk and Verge				
Place concrete sidewalk 4" thick	CY	65		
Place subsoil backfill	SF	11,500		
Place 3' topsoil shoulder	CY	50		
Road Construction Coot Pond Road 0-300 ft				
Place 10"x5" kerbs	LF	600		
Sidewalk and Verge				
Place concrete sidewalk 4" thick	CY	15		



Place subsoil backfill	SF			
Place 3' topsoil shoulder	CY	11		
Road Construction Victoria Road 0-63 ft				
Place 10"x5" kerbs	LF	126		
Street Lighting Barry Road 0-1350 ft				
Lay 1 – 2" Duct for Belco	LF	1350		
Total Carried forward to TOTAL SUM Page				\$