



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

July 11, 2013

Addendum No. 1

RE: Contract ID C203206

WBS # 50000.3.STR01T4A

F. A. # FRA-FR-HSR-0006-10-01-00

Cabarrus-Mecklenburg Counties (P-5208A, C & G)

North Carolina Railroad/ Norfolk Southern Mainline Haydock to Junker
Railroad Roadbed (MP-360 To MP-372.2)

July 16, 2013 Letting

To Whom It May Concern:

You are hereby notified that additional sub-surface information for this project has been posted to the web. This information will not be mailed out as a part of this addendum.

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the P-5208C (Part 2) Railroad Roadbed and Cross-Section plans:

Sheet No.	Revisions
1	Revised stationing for -Y6-. (Please note that this sheet should be the main title sheet for P-5208A but was incorrectly printed in the original printing as EC-01)
2	Right side of typical #2 revised to change the width and depth of sub-ballast
2A	Revised typical sections for -Y6-
2F	Added sub-surface drain
3A	Revised drainage structure number C0802
3C	Revised quantity for select granular material
8	Subsurface drain added plan view. Saddle Creek Rd. (-Y6-) design updated
25	Revised profile for Saddle Creek Rd. (-Y6-)
EC-01	Added note concerning 303d waters
EC-08	Saddle Creek Rd. (-Y6-) design updated

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119

WEBSITE: www.ncdot.gov

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

C203206

P-5208A,C & G
Cabarrus-Mecklenburg

Sheet No.	Revisions
EC-22	Saddle Creek Rd. (-Y6-) design updated
X-23 thru X-27, X-47 and X-57,	Added subsurface drains to cross sections

Please delete the above listed sheets in your plans and staple the revised sheets thereto.

The following revision has been made to the P-5208C portion of the subsurface plans:

On Sheet No. 3B the earthwork balance information has been added. Please void Sheet No. 3B in your plans and staple the revised Sheet No. 3B thereto.

The following revisions have been made to the P-5208G (Part 3) Railroad Roadbed plans:

Sheet No.	Revisions
2A	Revised duplicate note on Typical Section No. 5 to read 6" compacted sub-ballast instead of 6" Asphalt Underlayment
3-D	Added "OMITTED" to parcels 4G and 5G
13	Removed easement on Parcel 4G
16	Removed easement on Parcel 5G
EC-13, EC-35	Revised to reflect changes to easement on parcel 4G
EC-16, EC-38	Revised to reflect changes to easement on parcel 5G

Please delete the above listed sheets in your plans and staple the revised sheets thereto.

The following revisions have been made to the P-5208A Structure plans:

The following list of sheets have been revised to change the foundation type for the Mallard Creek bridge to drilled piers and to make various other minor corrections to the plans. Please void the following list of sheets in your plans and staple the revised sheets thereto.

Sheet No.	Revisions
ST-02	Revised General Plan and Elevation to show modified Bents 1 and 2 foundation and battered piles at End Bents. Revised End Bent 2 footing elevation. Extended rip rap at End Bent 2 slope.
ST-03	Updated End Bent and Bent foundations. Increased spacing of piles at End Bents and modified Bents 1 and 2 from piles to drilled shafts. Updated foundation notes.
ST-05	Updated quantities on Total Bill of Material.
ST-07	Corrected dimension in Typical Deck Section.
ST-17	Modified End Bent 1 pile spacing. Adjusted End Bent 1 properties. Adjusted reinforcing callouts for clarity.
ST-18	Modified End Bent 1 pile spacing and batter. Adjusted reinforcing callouts for clarity.

C203206

P-5208A,C & G
Cabarrus-Mecklenburg

Sheet No.	Revisions
ST-19	Modified End Bent 1 pile spacing. Adjusted Wingwall properties. Adjusted reinforcing callouts for clarity.
ST-20	Modified End Bent 1 pile spacing. Adjusted reinforcing callouts for clarity.
ST-21	Modified reinforcing table to reflect adjustments to reinforcing steel details.
ST-22	Replaced pile foundation with drilled pier foundation. Adjusted Bent 1 properties. Adjusted reinforcing callouts for clarity.
ST-23	Replaced pile foundation with drilled pier foundation. Modified reinforcing table to reflect adjustments to reinforcing steel details.
ST-24	Replaced pile foundation with drilled pier foundation. Adjusted Bent 2 properties. Adjusted reinforcing callouts for clarity.
ST-25	Replaced pile foundation with drilled pier foundation. Modified reinforcing table to reflect adjustments to reinforcing steel details.
ST-26	Modified End Bent 2 pile spacing. Adjusted reinforcing callouts for clarity. Lowered bottom of footing three feet. Modified reinforcing table to reflect adjustments to reinforcing steel details.
ST-27	Modified End Bent 2 pile spacing and batter. Adjusted reinforcing callouts for clarity.
ST-28	Modified End Bent 2 pile spacing and batter. Adjusted reinforcing callouts for clarity. Modified reinforcing table to reflect adjustments to reinforcing steel details.
ST-29	Added rip rap at end bent 2 slope. Adjusted Estimated Quantities for rip rap and geotextile.
ST-30	Updated quantities on Total Bill of Material.
ST-31	Modified culvert pile spacing.
ST-32	Modified culvert pile spacing. Updated foundation notes.
ST-33	Modified culvert pile spacing.
ST-34	Modified culvert pile spacing.
ST-35	Modified quantities for piles.

The following revisions have been made to the proposal form:

On Page No. 11 a revision has been made to the project special provision entitled "Delay In Right Of Entry". Please void Page No. 11 in your proposal and staple the revised Page No. 11 thereto.

On Page No. 216 the first paragraph of the project special provision entitled "Reinforced Concrete Deck Slab" has been revised. Also, on Page No. 228 the chart within the project special provision entitled "Submittal of Working Drawings" has been revised to delete the reference to metal stay-in-place forms. Please void Page Nos. 216 and 228 in your proposal and staple the revised Page Nos. 216 and 228 thereto.

New Page Nos. 253 thru 255 have been added to include a project special provision for "Reinforced Backfill". Please staple new Page Nos. 253 thru 255 after Page No. 252 in your proposal.

C203206

P-5208A,C & G
Cabarrus-Mecklenburg

On the item sheets the following pay item quantities have been revised, added or deleted:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
10-0195000000-E-265	Select Granular Material	2,400 CY	650 CY
11-0196000000-E-SP	Geotextile For Soil Stabilization	4,100 SY	4,300 SY
14-0320000000-E-300	Foundation Conditioning Geotextile	500 SY	510 SY
16-0335400000-E-305	24" Drainage Pipe	115 LF	168 LF
57-1121000000-E-520	Aggregate Base Course	180 TON	275 TON
66-1489000000-E-610	Asphalt Concrete Base Course, Type B25.0B	2,125 TON	2,405 TON
67-1498000000-E-610	Asphalt Concrete Intermediate Course, Type I19.0B	630 TON	680 TON
68-1519000000-E-610	Asphalt Concrete Surface Course, Type S9.5B	680 TON	710 TON
69-1575000000-E-620	Asphalt Binder For Plant Mix	170 TON	190 TON
193-8091000000-N-410	Foundation Excavation For Bent 1 At Station 10282+62.09-M1-	Lump Sum	DELETED
194-8091000000-N-410	Foundation Excavation For Bent 2 At Station 10282+62.09-M1-	Lump Sum	DELETED
195-8096000000-E-450	Pile Excavation In Soil	1,428 LF	DELETED
196-8097000000-E-450	Pile Excavation Not In Soil	732 LF	DELETED
199-8112730000-N-450	PDA Testing	2 EA	1 EA
200-8113000000-N-411	SID Inspections	6 EA	14 EA
201-8115000000-N-411	CSL Testing	2 EA	4 EA
203-8147000000-E-420	Reinforced Concrete Deck Slab	15,251.1 SF	15,999.1 SF
204-8175000000-E-420	Class AA Concrete (Bridge)	1,912.7 CY	1,839.6 CY
205-8217000000-E-425	Reinforcing Steel (Bridge)	350,137 LB	413,487 LB

C203206

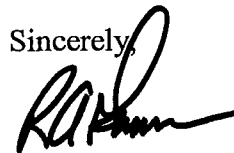
P-5208A,C & G
Cabarrus-Mecklenburg

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
206-8238000000-E-425	Spiral Column Reinforcing Steel (Bridge)	32,454 LB	44,056 LB
207-8355000000-E-450	HP 14X89 Steel Piles	6,189 LF	3,043 LF
209-8391000000-N-450	Steel Pile Points	94 EA	192 EA
210-8440000000-E-454	Method A Waterproofing	530 SY	DELETED
211-8453000000-E-454	Method B Dampproofing	803.3 SY	871.3 SY
214-8608000000-E-876	Rip Rap Class II (2'-0" Thick)	396 TON	702 TON
215-8622000000-E-876	Geotextile For Drainage	267 SY	364 SY
236-8105500000-E-411	5'-0" Dia. Drilled Piers In Soil	NEW ITEM	133 LF
237-8105600000-E-411	5'-0" Dia. Drilled Piers Not In Soil	NEW ITEM	139 LF
238-8893000000-E-SP	Reinforced Backfill	NEW ITEM	210 SY

The Contractor's bid must be based on these revised pay item quantities and added items. The contract will be prepared accordingly.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jag
Attachments

cc: Mr. Ron Hancock, PE
Mr. Louis Mitchell, PE
Ms. D. M. Barbour, PE
Mr. J. V. Barbour, PE
Mr. Paul Worley, CPM
Mr. R.E. Davenport, PE
Ms. Lori Strickland
Project File (2)

Mr. Ray Arnold, PE
Ms. Natalie Roskam, PE
Mr. Ronnie Higgins
Mr. Larry Strickland
Ms. Marsha Sample
Ms. Penny Higgins
Ms. Jaci Kincaid

C203206 (P-5208A, C, G)

11

Revised 7-11-13
Cabarrus/Mecklenburg Counties**DELAY IN RIGHT OF ENTRY:**

(7-1-95)

108

SP1 G22 A

The Contractor will not be allowed right of entry to the parcels listed below before **August 17, 2013** unless otherwise permitted by the Engineer and except as noted below.

<u>Parcel No.</u>	<u>Property Owner</u>	
001A	Lisa Grass	
002A	Lida E. Kiser	
003A	Cabarrus County	
004, 5, 6A	Foy K. and Mildred Horton	
007A	Robert Leon Hapeman & Holly F. Hapeman	(Delay til 09-17-2013)
001C	James Houston, Jr.	
002C	Town of Harrisburg	
004C	Chemical Specialties, Inc.	
001G	Millbrook Road Associates, LLC	
002G	Duke Energy Corporation	
003G	Tridolph, LLC, et al	
006G	Amanda & Associates	
007G	City of Charlotte	
008G	Royal Realty II, LLC (Stein Fibers?)	
009G	Villages at Back Creek HOA, Inc.	
010G	Judy K. Watson	
011A	Morrison Ridge LP	(Delay til 09-17-2013)
011G	Alan E. Roland and Linda Roland	
012G	TSG Properties, LLC	
014G	Kenneth W. Martin & Joan C. Martin	
015G	Walter & Teresa Surma & Mark C. Smith	
016G	Ted & Shirley Hildreth	
017G	German Automotive, Inc. & 911 Shop	
018G	Raymond Bennett Mullis	
019G	Alan R. Kessel	
020G	Rommer 1800, LLC	
021G	Redus NC Housing, LLC	

PROGRESS SCHEDULE (RAIL):

(2-19-13)

SP1 G25

The Contractor shall prepare and submit for review and approval a Progress Schedule as set forth in Section 108 of the *Standard Specification*, the Railroad Coordination Special Provision, and as amended herein.

The schedule shall include activity descriptions with beginning and ending dates, partial completion (in percentage or time format). Railroad roadbed activities should include beginning and ending stations of roadbed section. The schedule shall include activities or milestones indicating when NSR flagmen and construction forces should be mobilized to the site.

Project Special Provisions: Structures

216

Revised 7-11-13

Project Number: P-5208G

Mecklenburg County

CONDUIT IN PARAPETS

(SPECIAL)

Conduit in the parapets shall be 4" diameter PVC conduit conforming to applicable Underwriters Laboratory specifications and shall be located as shown on the Plans. Provisions shall be made for expansion between the deck slab and abutment backwalls and between deck slabs at expansion joints. Couplings shall be provided behind backwalls for connection to the 4" diameter rigid pipe. If non-PVC fittings, couplings, or other incidental items are required, they must be fully compatible with PVC conduit. Details and material data shall be submitted by the Contractor to the Engineer for approval by the Railroad Company of all materials required for this work. The entire cost of furnishing and installing all conduit, expansion fittings, couplings and incidental items required for this work shall be included in the bid price for "Conduit in Parapet", Lump Sum.

REINFORCED CONCRETE DECK SLAB

(SPECIAL)

General

This provision shall govern materials, forming and all other related work in the construction of a reinforced concrete deck slab in accordance with applicable parts of the Standard Specifications, the details shown on the plans, and as outlined in these special provisions. For structural steel spans, plans for the concrete deck slab are detailed for a cast-in-place slab using removable forms.

Materials

Unless otherwise noted on the plans, all cast-in-place concrete shall be Class AA conforming to the requirements of Section 1000 of the Standard Specifications as modified by the general notes in the plans.

Construction Methods

Design and construction requirements of the standard details and Sections 420 and 1070 of the Standard Specifications shall govern.

No profile grade line adjustment will be allowed unless permitted by the Engineer.

Curing methods for the concrete will conform to Section 420 of the Standard Specifications.

Measurement

Reinforced concrete deck slab constructed under this item will be measured by the square feet of horizontal surface area using the nominal dimensions and configuration shown in the "Layout for Computing Area of

Project Special Provisions: Structures

228

Revised 7-11-13

Project Number: P-5208G

Mecklenburg County

Expansion Joint Seals (strip seals)	9	0	"Strip Seals"
Falsework & Forms ² (substructure)	8	0	Article 420-3 & "Falsework and Formwork"
Falsework & Forms (superstructure)	8	0	Article 420-3 & "Falsework and Formwork"
Girder Erection over Railroad	5	0	Railroad Provisions
Maintenance and Protection of Traffic Beneath Proposed Structure	8	0	"Maintenance and Protection of Traffic Beneath Proposed Structure at Station _____"
Metal Bridge Railing	8	0	Plan Note
Metalwork for Elastomeric Bearings ^{4,5}	7	0	Article 1072-8
Miscellaneous Metalwork ^{4,5}	7	0	Article 1072-8
Optional Disc Bearings ⁴	8	0	"Optional Disc Bearings"
Overhead and Digital Message Signs (DMS) (metalwork and foundations)	13	0	Applicable Provisions
Placement of Equipment on Structures (cranes, etc.)	7	0	Article 420-20
Pot Bearings ⁴	8	0	"Pot Bearings"
Precast Concrete Box Culverts	2, then 1 reproducible	0	"Optional Precast Reinforced Concrete Box Culvert at Station _____"
Prestressed Concrete Cored Slab (detensioning sequences) ³	6	0	Article 1078-11
Prestressed Concrete Deck Panels	6 and 1 reproducible	0	Article 420-3
Prestressed Concrete Girder (strand elongation and detensioning sequences)	6	0	Articles 1078-8 and 1078- 11
Removal of Existing Structure over Railroad	5	0	Railroad Provisions

253

New 7-11-13

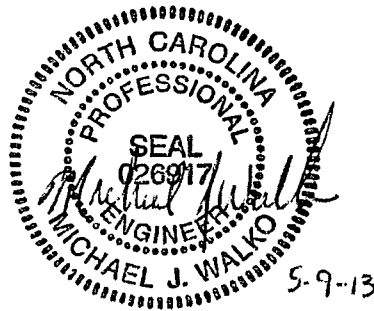
P-5208A, Haydock to Junker Railroad Roadbed

Roadbed

Project Special Provisions: Geotechnical

Prepared for:

NCDOT Rail Division



FROEHLING & ROBERTSON, INC.
Engineering Stability Since 1881



ONE COMPANY
Many SolutionsSM

REINFORCED BACKFILL:

(SPECIAL)

Description

Construct Reinforced Backfill consisting of select material and geogrid reinforcements in the reinforced zone at locations indicated on the Structure Plans. Reinforced Backfill is required to stabilize slopes at locations shown in the plans and as directed.

Materials

Refer to Division 10 of the *Standard Specifications*.

Item	Section
Anchor Pins	1056-2
Select Material – Class IV, V, or VI	1016

Unless required otherwise in the plans, use Class IV, VI or VI select material in the reinforced zone as shown on the plans.

(A) Geogrid – Tencate Mirafi Miragrid 20XT (or approved equivalent)

Handle and store geogrid in accordance with Article 1056-2 of the *Standard Specifications*. Define “machine direction” (MD) and “cross-machine direction” (CD) for geogrids in accordance with ASTM D4439. Test geogrids in accordance with ASTM D6637. Provide a geogrid with design strengths that meet or exceed the following:

GEOGRID FOR REINFORCED BACKFILL REQUIREMENTS		
Property	Requirement (MARV*)	Test Method
Tensile Strength @ 5% Strain	5,300 lbs/ft	ASTM D6637
Tensile Strength @ Ultimate	13,700 lbs/ft	ASTM D6637
Long Term Allowable Design Load	7,500 lbs/ft	GRI GG-4(b)

* Minimum Average Roll Value (MARV)

Construction Methods

Before starting End Bent construction, the Engineer may require a preconstruction meeting to discuss the construction and inspection of the Reinforced Backfill. If required, schedule this meeting after all material certifications have been submitted. The Designers, Resident or District Engineer, Geotechnical Operations Engineer, Contractor and Superintendent should attend this preconstruction meeting.

Excavate as necessary for the Reinforced Backfill in accordance with the contract. Maintain a horizontal clearance of at least 12” between the ends of the geogrid and the limits of the reinforced zone as shown in the plans. Notify the Engineer when the foundation excavation is complete. Do not place geogrid until excavation dimensions and backfill materials are approved. The first layer of geogrids should be installed at the Bottom of Footing (BOF) elevation of 547.9 feet. Subsequent layers should be installed at 18” vertical spaced intervals to elevation 561.4

New 7-11-13

feet. Select backfill should continue to the Top of Backwall elevation 564.4 feet. The geogrids should be fastened to the backwall via mechanical connections. The contractor should submit a detailed installation plan to the Engineer for review and approval.

Place geogrids within 3" of locations shown in the plans and in slight tension free of kinks, folds, wrinkles or creases. Install geogrids with the MD perpendicular to the end bent. The MD is the direction of the length or long dimension of the geogrid roll. The geogrid may not be spliced in the principal strength direction through overlap, sewing, or mechanical connection. Therefore, the geogrid should be installed in one continuous piece with the principal strength direction extending the full length of the reinforced area. Overlap adjacent geogrids at least 18" with seams oriented parallel to the roadbed centerline. Hold geogrids in place with wire staples or anchor pins as needed. Contact the Engineer when existing or future obstructions such as foundations, pavements, pipes, inlets or utilities will interfere with geogrids.

Place select material in the reinforced zone in 8" to 10" thick lifts. Compact Class IV, V, or VI select material with a vibratory compactor to the satisfaction of the Engineer. Do not displace or damage geogrids when placing and compacting select material. End dumping directly on geogrids is not permitted. Do not operate heavy equipment on geogrids until they are covered with at least 8" of select material. To prevent damaging geogrids, minimize turning and avoid sudden braking and sharp turns with compaction equipment. Replace any damaged geogrids to the satisfaction of the Engineer.

Measurement and Payment

Reinforced Backfill will be measured and paid in square yards. Reinforced Backfill will be measured along the faces of Reinforced Backfill geogrids as the square yards of Reinforced Backfill. No payment will be made for repairing damaged Reinforced Backfill geogrids.

The contract unit price for *Reinforced Backfill* will be full compensation for providing labor, tools, equipment and *Reinforced Backfill* materials, compacting select materials and supplying and placing geogrids, select material, and any incidentals necessary to construct *Reinforced Backfill*. The contract unit price for *Reinforced Backfill* will also be full compensation for excavating and transporting, placement, and compaction of select fill material and removing excavated materials to install *Reinforced Backfill*. 2,400 square yards shall be used for bidding purposes.

Payment will be made under:

Pay Item
Reinforced Backfill

Pay Unit
Square Yard

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	3 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	245,000 CY		
0006	0036000000-E	225	UNDERCUT EXCAVATION	650 CY		
0007	0127000000-N	SP	EMBANKMENT SETTLEMENT GAUGES	4 EA		
0008	0134000000-E	240	DRAINAGE DITCH EXCAVATION	9,500 CY		
0009	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	6,000 SY		
0010	0195000000-E	265	SELECT GRANULAR MATERIAL	650 CY		
0011	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	4,300 SY		
0012	0223000000-E	275	ROCK PLATING	4,950 SY		
0013	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	170 TON		
0014	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	510 SY		
0015	0335300000-E	305	18" DRAINAGE PIPE	52 LF		
0016	0335400000-E	305	24" DRAINAGE PIPE	168 LF		
0017	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	160 LF		
0018	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	124 LF		
0019	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	28 LF		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0020	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	68	LF	
0021	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	96	LF	
0022	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	104	LF	
0023	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	40	LF	
0024	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	40	LF	
0025	0986000000-E	SP	GENERIC PIPE ITEM 18" WELDED STEEL PIPE, 0.312" THICK, GRADE B IN SOIL	30	LF	
0026	0986000000-E	SP	GENERIC PIPE ITEM 18" WELDED STEEL PIPE, 0.312" THICK, GRADE B NOT IN SOIL	30	LF	
0027	0986000000-E	SP	GENERIC PIPE ITEM 18" WELDED STEEL PIPE, 0.312" THICK, GRADE B, OPEN CUT	74	LF	
0028	0986000000-E	SP	GENERIC PIPE ITEM 24" WELDED STEEL PIPE, 0.375" THICK, GRADE B IN SOIL	17	LF	
0029	0986000000-E	SP	GENERIC PIPE ITEM 24" WELDED STEEL PIPE, 0.375" THICK, GRADE B NOT IN SOIL	18	LF	
0030	0986000000-E	SP	GENERIC PIPE ITEM 24" WELDED STEEL PIPE, 0.375" THICK, GRADE B, OPEN CUT	38	LF	
0031	0986000000-E	SP	GENERIC PIPE ITEM 36" WELDED STEEL PIPE, 0.532" THICK, GRADE B IN SOIL	155	LF	
0032	0986000000-E	SP	GENERIC PIPE ITEM 36" WELDED STEEL PIPE, 0.532" THICK, GRADE B NOT IN SOIL	156	LF	
0033	0986000000-E	SP	GENERIC PIPE ITEM 36" WELDED STEEL PIPE, 0.532" THICK, GRADE B, OPEN CUT	371	LF	
0034	0986000000-E	SP	GENERIC PIPE ITEM 42" BCCMP PIPE CULVERTS, 0.109" THICK	56	LF	

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	0986000000-E	SP	GENERIC PIPE ITEM 42" WELDED STEEL PIPE, 0.625" THICK, GRADE B IN SOIL	99 LF		
0036	0986000000-E	SP	GENERIC PIPE ITEM 42" WELDED STEEL PIPE, 0.625" THICK, GRADE B NOT IN SOIL	100 LF		
0037	0986000000-E	SP	GENERIC PIPE ITEM 42" WELDED STEEL PIPE, 0.625" THICK, GRADE B, OPEN CUT	104 LF		
0038	0986000000-E	SP	GENERIC PIPE ITEM 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B IN SOIL	82 LF		
0039	0986000000-E	SP	GENERIC PIPE ITEM 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B NOT IN SOIL	81 LF		
0040	0986000000-E	SP	GENERIC PIPE ITEM 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B, OPEN CUT	107 LF		
0041	0986000000-E	SP	GENERIC PIPE ITEM 54" WELDED STEEL PIPE, 0.781" THICK, GRADE B IN SOIL	115 LF		
0042	0986000000-E	SP	GENERIC PIPE ITEM 54" WELDED STEEL PIPE, 0.781" THICK, GRADE B NOT IN SOIL	115 LF		
0043	0986000000-E	SP	GENERIC PIPE ITEM 54" WELDED STEEL PIPE, 0.781" THICK, GRADE B, OPEN CUT	76 LF		
0044	0986000000-E	SP	GENERIC PIPE ITEM 60" WELDED STEEL PIPE, 0.844" THICK, GRADE B IN SOIL	67 LF		
0045	0986000000-E	SP	GENERIC PIPE ITEM 60" WELDED STEEL PIPE, 0.844" THICK, GRADE B NOT IN SOIL	68 LF		
0046	0986000000-E	SP	GENERIC PIPE ITEM 60" WELDED STEEL PIPE, 0.844" THICK, GRADE B, OPEN CUT	61 LF		
0047	0986000000-E	SP	GENERIC PIPE ITEM 72" WELDED STEEL PIPE, 1.000" THICK, GRADE B IN SOIL	136 LF		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0048	0986000000-E	SP	GENERIC PIPE ITEM 72" WELDED STEEL PIPE, 1.000" THICK, GRADE B NOT IN SOIL	137 LF		
0049	0986000000-E	SP	GENERIC PIPE ITEM 72" WELDED STEEL PIPE, 1.000" THICK, GRADE B, OPEN CUT	172 LF		
0050	0986000000-E	SP	GENERIC PIPE ITEM 8" BCCMP PIPE CULVERTS, 0.064" THICK	200 LF		
0051	0992000000-E	SP	GENERIC PIPE ITEM 42" BCCMP PIPE ELBOWS, 0.109" THICK	2 EA		
0052	0995000000-E	340	PIPE REMOVAL	1,147 LF		
0053	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0054	1044000000-E	501	LIME TREATED SOIL (SLURRY METHOD)	3,000 SY		
0055	1066000000-E	501	LIME FOR LIME TREATED SOIL	300 TON		
0056	1110000000-E	510	STABILIZER AGGREGATE	300 TON		
0057	1121000000-E	520	AGGREGATE BASE COURSE	275 TON		
0058	1176000000-E	542	SOIL CEMENT BASE	3,000 SY		
0059	1187000000-E	542	PORTLAND CEMENT FOR SOIL CE- MENT BASE	300 TON		
0060	1198000000-E	542	AGGREGATE FOR SOIL CEMENT BASE	300 TON		
0061	1209000000-E	543	ASPHALT CURING SEAL	500 GAL		
0062	1220000000-E	545	INCIDENTAL STONE BASE	4,050 TON		
0063	1231000000-E	560	SHOULDER BORROW	140 CY		
0064	1297000000-E	607	MILLING ASPHALT PAVEMENT, ****1 DEPTH (1-1/2")	740 SY		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0065	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (1-1/2" TO 3-1/2")	370	SY	
0066	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	2,405	TON	
0067	1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	680	TON	
0068	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	710	TON	
0069	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	190	TON	
0070	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	90	TON	
0071	2000000000-N	806	RIGHT OF WAY MARKERS	16	EA	
0072	2070000000-N	815	SUBDRAIN PIPE OUTLET	7	EA	
0073	2077000000-E	815	6" OUTLET PIPE	294	LF	
0074	2143000000-E	818	BLOTTING SAND	200	TON	
0075	2209000000-E	838	ENDWALLS	140	CY	
0076	2220000000-E	838	REINFORCED ENDWALLS	106	CY	
0077	2275000000-E	SP	FLOWABLE FILL	300	CY	
0078	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	7	EA	
0079	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	9	CY	
0080	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	2	LF	
0081	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	2	EA	
0082	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	1	EA	

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0083	2396000000-N	840	FRAME WITH COVER, STD 840.54	5 EA		
0084	2473000000-N	SP	GENERIC DRAINAGE ITEM PIPE COLLARS UNDER RAILROAD	1 EA		
0085	2484000000-E	SP	GENERIC DRAINAGE ITEM SUBSURFACE DRAIN	2,553 LF		
0086	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	565 LF		
0087	2591000000-E	848	4" CONCRETE SIDEWALK	140 SY		
0088	2612000000-E	848	6" CONCRETE DRIVEWAY	50 SY		
0089	2619000000-E	850	4" CONCRETE PAVED DITCH	190 SY		
0090	2739000000-E	852	GENERIC PAVING ITEM 6" MONOLITHIC CONCRETE ISLANDS (KEYED-IN, AT GRADE X)	70 SY		
0091	3030000000-E	862	STEEL BM GUARDRAIL	3,600 LF		
0092	3105000000-N	862	STEEL BM GUARDRAIL TERMINAL SECTIONS	20 EA		
0093	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	20 EA		
0094	3210000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	1 EA		
0095	3270000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE 350	10 EA		
0096	3360000000-E	863	REMOVE EXISTING GUARDRAIL	112.5 LF		
0097	3435000000-N	SP	GENERIC GUARDRAIL ITEM EXTRA LENGTH GUARDRAIL POSTS (9' STEEL, AT GRADE X)	40 EA		
0098	3533000000-E	866	CHAIN LINK FENCE, *** FABRIC (60")	850 LF		
0099	3539000000-E	866	METAL LINE POSTS FOR **** CHAIN LINK FENCE (60")	71 EA		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0100	3545000000-E	866	METAL TERMINAL POSTS FOR *** CHAIN LINK FENCE (60")	5 EA		
0101	3566000000-E	867	WOVEN WIRE FENCE RESET	2,430 LF		
0102	3572000000-E	867	CHAIN LINK FENCE RESET	60 LF		
0103	3578000000-N	SP	GENERIC FENCING ITEM RIGHT OF WAY GATE	4 EA		
0104	3628000000-E	876	RIP RAP, CLASS I	1,730 TON		
0105	3635000000-E	876	RIP RAP, CLASS II	35 TON		
0106	3649000000-E	876	RIP RAP, CLASS B	2,210 TON		
0107	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	11,515 SY		
0108	3832000000-E	SP	RAILROAD TRACK TO BE REMOVED	280 TF		
0109	3885000000-E	SP	GENERIC TRACKWORK ITEM SUB-BALLAST	107,600 TON		
0110	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (E)	132 SF		
0111	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	240 LF		
0112	4102000000-N	904	SIGN ERECTION, TYPE E	15 EA		
0113	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	8 EA		
0114	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	1 EA		
0115	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,110 SF		
0116	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	426 SF		
0117	4430000000-N	1130	DRUMS	60 EA		
0118	4445000000-E	1145	BARRICADES (TYPE III)	240 LF		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0119	4507000000-E	1170	WATER FILLED BARRIER	144 LF		
0120	4520000000-N	1266	TUBULAR MARKERS (FIXED)	15 EA		
0121	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	473 LF		
0122	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	1,245 LF		
0123	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	42 LF		
0124	4705000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)	140 LF		
0125	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	592 LF		
0126	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	8 EA		
0127	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	10 EA		
0128	4915000000-E	1264	7' U-CHANNEL POSTS	24 EA		
0129	4957000000-N	1264	OBJECT MARKERS (TYPE **) (E)	24 EA		
0130	5325600000-E	1510	6" WATER LINE	201 LF		
0131	5326200000-E	1510	12" WATER LINE	20 LF		
0132	5691300000-E	1520	8" SANITARY GRAVITY SEWER	90 LF		
0133	5800000000-E	1530	ABANDON 6" UTILITY PIPE	197 LF		
0134	5801000000-E	1530	ABANDON 8" UTILITY PIPE	90 LF		
0135	5835700000-E	1540	16" ENCASEMENT PIPE	86 LF		
0136	5835800000-E	1540	18" ENCASEMENT PIPE	165 LF		
0137	5836000000-E	1540	24" ENCASEMENT PIPE	20 LF		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0138	5872000000-E	1550	TRENCHLESS INSTALLATION OF 18" IN SOIL	50 LF		
0139	5872010000-E	1550	TRENCHLESS INSTALLATION OF 18" NOT IN SOIL	50 LF		
0140	5888000000-E	SP	GENERIC UTILITY ITEM 16" SPLIT ENCASEMENT PIPE	86 LF		
0141	5888000000-E	SP	GENERIC UTILITY ITEM 24" SPLIT ENCASEMENT	40 LF		
0142	5888000000-E	SP	GENERIC UTILITY ITEM 30" SPLIT ENCASEMENT	78 LF		
0143	5888000000-E	SP	GENERIC UTILITY ITEM 54" TUNNEL LINER PLATE	15 LF		
0144	5888000000-E	SP	GENERIC UTILITY ITEM 60" TUNNEL LINER PLATE	66 LF		
0145	6000000000-E	1605	TEMPORARY SILT FENCE	101,300 LF		
0146	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	3,460 TON		
0147	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	6,100 TON		
0148	6012000000-E	1610	SEDIMENT CONTROL STONE	2,600 TON		
0149	6015000000-E	1615	TEMPORARY MULCHING	207.5 ACR		
0150	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	4,350 LB		
0151	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	21.75 TON		
0152	6024000000-E	1622	TEMPORARY SLOPE DRAINS	5,400 LF		
0153	6029000000-E	SP	SAFETY FENCE	300 LF		
0154	6030000000-E	1630	SILT EXCAVATION	27,000 CY		
0155	6036000000-E	1631	MATTING FOR EROSION CONTROL	230,950 SY		

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0156	6037000000-E	SP	COIR FIBER MAT	350 SY		
0157	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	2,395 SY		
0158	6042000000-E	1632	1/4" HARDWARE CLOTH	400 LF		
0159	6070000000-N	1639	SPECIAL STILLING BASINS	4 EA		
0160	6071010000-E	SP	WATTLE	60 LF		
0161	6071012000-E	SP	COIR FIBER WATTLE	7,700 LF		
0162	6071020000-E	SP	POLYACRYLAMIDE (PAM)	5,050 LB		
0163	6071030000-E	1640	COIR FIBER BAFFLE	5,200 LF		
0164	6071050000-E	SP	*** SKIMMER (1-1/2")	19 EA		
0165	6071050000-E	SP	*** SKIMMER (2")	3 EA		
0166	6071050000-E	SP	*** SKIMMER (2-1/2")	3 EA		
0167	6084000000-E	1660	SEEDING & MULCHING	129 ACR		
0168	6087000000-E	1660	MOWING	135 ACR		
0169	6090000000-E	1661	SEED FOR REPAIR SEEDING	2,200 LB		
0170	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	6 TON		
0171	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	2,975 LB		
0172	6108000000-E	1665	FERTILIZER TOPDRESSING	88.5 TON		
0173	6111000000-E	SP	IMPERVIOUS DIKE	175 LF		
0174	6114500000-N	1667	SPECIALIZED HAND MOWING	90 MHR		
0175	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	375 EA		

Jul 10, 2013 3:17 pm

ITEMIZED PROPOSAL FOR CONTRACT NO. C203206

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0176	6123000000-E	1670	REFORESTATION	8 ACR		
0177	6132000000-N	SP	GENERIC EROSION CONTROL ITEM SUPPLEMENTAL RESPONSE FOR ERO- SION CONTROL	30 EA		
0178	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	1 EA		
CULVERT ITEMS						
0179	8096000000-E	450	PILE EXCAVATION IN SOIL	70 LF		
0180	8097000000-E	450	PILE EXCAVATION NOT IN SOIL	312 LF		
0181	8112730000-N	450	PDA TESTING	1 EA		
0182	8126000000-N	414	CULVERT EXCAVATION, STA ***** (10255+34.38-M1-)	Lump Sum	L.S.	
0183	8175000000-E	420	CLASS AA CONCRETE (BRIDGE)	485.2 CY		
0184	8245000000-E	425	REINFORCING STEEL (CULVERT)	68,992 LB		
0185	8355000000-E	450	HP ***X*** STEEL PILES (14X89)	1,305 LF		
WALL ITEMS						
0186	8802014000-E	SP	SOLDIER PILE RETAINING WALLS	7,760 SF		
STRUCTURE ITEMS						
0187	8014000000-N	SP	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (1, 10640+78.96-M1-)	Lump Sum	L.S.	

Jul 10, 2013 3:17 pm

ITEMIZED PROPOSAL FOR CONTRACT NO. C203206

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0188	8014000000-N	SP	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (END BENT 1, 10282+62.09-M1-)	Lump Sum	L.S.	
0189	8014000000-N	SP	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (END BENT 2, 10282+62.09-M1-)	Lump Sum	L.S.	
0190	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (10344+27.18-M1-)	Lump Sum	L.S.	
0191	8084000000-N	410	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (1, 10282+62.09-M1-)	Lump Sum	L.S.	
0192	8084000000-N	410	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (2, 10282+62.09-M1-)	Lump Sum	L.S.	
0197	8105500000-E	411	***_*** DIA DRILLED PIERS IN SOIL (6'-0")	159 LF		
0198	8105600000-E	411	***_*** DIA DRILLED PIERS NOT IN SOIL (6'-0")	49 LF		
0199	8112730000-N	450	PDA TESTING	1 EA		
0200	8113000000-N	411	SID INSPECTIONS	14 EA		
0201	8115000000-N	411	CSL TESTING	4 EA		
0202	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (10640+78.96-M1-)	Lump Sum	L.S.	
0203	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	15,999.1 SF		
0204	8175000000-E	420	CLASS AA CONCRETE (BRIDGE)	1,839.6 CY		
0205	8217000000-E	425	REINFORCING STEEL (BRIDGE)	413,487 LB		
0206	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	44,056 LB		
0207	8355000000-E	450	HP ***X*** STEEL PILES (14X89)	3,043 LF		

Jul 10, 2013 3:17 pm

ITEMIZED PROPOSAL FOR CONTRACT NO. C203206

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0208	8364000000-E	450	HP12X53 STEEL PILES	4,230 LF		
0209	8391000000-N	450	STEEL PILE POINTS	192 EA		
0211	8453000000-E	454	METHOD B DAMPPROOFING	871.3 SY		
0212	8517000000-E	460	1'-**"X ****" CONCRETE PARA- PET (1'-0" X 1'-9")	391.5 LF		
0213	8531000000-E	462	4" SLOPE PROTECTION	313 SY		
0214	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	702 TON		
0215	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	364 SY		
0216	8678000000-E	SP	EPOXY RESIN INJECTION	50 LF		
0217	8685000000-E	SP	EPOXY MORTAR REPAIRS	9 SF		
0218	8741000000-N	SP	STRUCTURE DRAINAGE SYSTEM AT STA***** (10282+62.09-M1-)	Lump Sum	L.S.	
0219	8741000000-N	SP	STRUCTURE DRAINAGE SYSTEM AT STA***** (10344+27.18-M1-)	Lump Sum	L.S.	
0220	8741000000-N	SP	STRUCTURE DRAINAGE SYSTEM AT STA***** (10640+78.96-M1-)	Lump Sum	L.S.	
0221	8860000000-N	SP	GENERIC STRUCTURE ITEM APPROX 430,646 LBS STRUCTURAL STEEL	Lump Sum	L.S.	
0222	8860000000-N	SP	GENERIC STRUCTURE ITEM APPROX 580,580 LBS STRUCTURAL STEEL	Lump Sum	L.S.	
0223	8860000000-N	SP	GENERIC STRUCTURE ITEM APPROX 901,110 LBS STRUCTURAL STEEL	Lump Sum	L.S.	
0224	8860000000-N	SP	GENERIC STRUCTURE ITEM CONDUIT IN PARAPET AT STA 10344+27.18-M1-	Lump Sum	L.S.	

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0225	8860000000-N	SP	GENERIC STRUCTURE ITEM CONDUIT IN PARAPET AT STA 10640+78.96-M1-	Lump Sum	L.S.	
0226	8860000000-N	SP	GENERIC STRUCTURE ITEM PAINTING STRUCTURAL STEEL	Lump Sum	L.S.	
0227	8860000000-N	SP	GENERIC STRUCTURE ITEM SELF-LUBRICATING EXPANSION BEARING ASSEMBLIES	Lump Sum	L.S.	
0228	8867000000-E	SP	GENERIC STRUCTURE ITEM CONCRETE PARAPET	518.9 LF		
0229	8867000000-E	SP	GENERIC STRUCTURE ITEM METAL HANDRAIL	461.6 LF		
0230	8867000000-E	SP	GENERIC STRUCTURE ITEM METAL RAIL	321 LF		
0231	8867000000-E	SP	GENERIC STRUCTURE ITEM METAL RAIL & WALKWAY	214 LF		
0232	8893000000-E	SP	GENERIC STRUCTURE ITEM 1" ASPHALT PLANKING PROTECTIVE COURSE FOR DECK	790.4 SY		
0233	8893000000-E	SP	GENERIC STRUCTURE ITEM MEMBRANE LAYER WATERPROOFING SYSTEM FOR DECK	790.4 SY		
0234	8893000000-E	SP	GENERIC STRUCTURE ITEM TWO PART MEMBRANE WATERPROOF- ING SYSTEM	36 SY		
0235	8893000000-E	SP	GENERIC STRUCTURE ITEM WATERPROOFING	890.2 SY		
0236	8105500000-E	411	**1.**" DIA DRILLED PIERS IN SOIL (5'-0")	133 LF		
0237	8105600000-E	411	**1.**" DIA DRILLED PIERS NOT IN SOIL (5'-0")	139 LF		

Jul 10, 2013 3:17 pm

ITEMIZED PROPOSAL FOR CONTRACT NO. C203206

0041DEL_P10A1
0001ADD_P10A1

County : Cabarrus, Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
--------	-------------	-------	-------------	----------	-----------	--------

0238	8893000000-E	SP	GENERIC STRUCTURE ITEM REINFORCED BACKFILL	210 SY		
------	--------------	----	-----------------------------------------------	-----------	--	--

1517/Jul10/Q1413593.45/D1018924106000/E233

Total Amount Of Bid For Entire Project :
