

COUNTY COUNCIL OF BEAUFORT COUNTY

ADMINISTRATION BUILDING BEAUFORT COUNTY GOVERNMENT ROBERT SMALLS COMPLEX 100 RIBAUT ROAD POST OFFICE DRAWER 1228 BEAUFORT, SOUTH CAROLINA 29901-1228 TELEPHONE: (843) 255-2000 FAX: (843) 255-9401 www.bcgov.net

AGENDA

PUBLIC FACILITIES COMMITTEE

Monday, November 21, 2016

4:00 p.m.

Executive Conference Room, Administration Building

Beaufort County Government Robert Smalls Complex

100 Ribaut Road, Beaufort



GARY T. KUBIC COUNTY ADMINISTRATOR

JOSHUA A. GRUBER DEPUTY COUNTY ADMINISTRATOR SPECIAL COUNSEL

> THOMAS J. KEAVENY, II COUNTY ATTORNEY

ASHLEY M. BENNETT CLERK TO COUNCIL

D. PAUL SOMMERVILLE CHAIRMAN

GERALD W. STEWART VICE CHAIRMAN

COUNCIL MEMBERS

CYNTHIA M. BENSCH RICK CAPORALE GERALD DAWSON BRIAN E. FLEWELLING STEVEN G. FOBES ALICE G. HOWARD WILLIAM L. MCBRIDE STEWART H. RODMAN ROBERTS "TABOR" VAUX

> Committee Members: Gerald Dawson, Chairman Roberts "Tabor" Vaux, Vice Chairman Cynthia Bensch Rick Caporale Steve Fobes Alice Howard William McBride

- 1. CALL TO ORDER 4:00 P.M.
- 2. CONSIDERATION OF CONTRACT AWARDS
 - A. One Knuckle Boom Loader Truck for Solid Waste and Recycling Department (backup)
 - B. Change Order for Boundary Street Redevelopment Construction (backup)
 - C. One 2017 CAT Model 325FCR Excavator for Public Works Department Stormwater (backup)
- 3. A RESOLUTION AUTHORIZING COUNTY ADMINISTRATOR TO ACCEPT SPANISH MOSS, PHASE 1, ROADS, DRAINAGE EASEMENTS AND POND INTO THE COUNTY SYSTEM (backup)
- 4. UPDATE / TRAFFIC IMPACT FEE (backup)
- 5. ADJOURNMENT

2016 Strategic Plan Committee Assignments Solid Waste Curbside Pick Up / Recycling / Convenience Centers / Landfill Ditch Maintenance and Drainage Policy Detention Center Study Windmill Harbour Entrance Solution Bridge Replacement Plan (Hilton Head Island) Daufuskie Island Public Improvements County Facilities Condition Assessment Plan Sidewalks / Biking in Rural Areas Plan and Funding

Staff Support:

Colin Kinton, Division Director

Eric Larson, Division Director

Transportation Engineering

Environmental Engineering Robert McFee, Division Director

Facilities and Construction Engineering





OUNTY	
11	COUNTY COUNCIL OF BEAUFORT COUNTY
	106 Industrial Village Road, Bldg. 2, Post Office Drawer 1228 Beaufort, South Carolina 29901-1228
176	
	nas, Purchasing Director sgov.net 843.255.2353
то:	Councilman Gerald Dawson. Chairman. Public Facilities Committee
FROM:	David L Thomas. CPPO. Purchasing Director
SUBJ:	State Contract Purchase
	Request to Purchase One Knuckle Boom Loader Truck for the Public Works Department, Solid Waste and Recycling
DATE:	10/28/2016
BACKG	ROUND:
	sh in the containers at the Convenience Centers and to pick up white goods from the Convenience Centers. The old vehicle will on GovDeals.

VENDOR INFORMATION:	<u>COST:</u>
Carolina International Trucks, Inc., Columbia, SC	\$128,806

FUNDING:

Account # 10001340-54200, Specialized Capital Equipment-Solid Waste, with a balance of \$150,000.

Page	2 of	2
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Funding approved:	Yes	By: aholland	Date:	11/07/2016						
FOR ACTION: Public Facilities Committee meeting on November 21, 2016										
<u>RECOMMENDA</u>	TION:									
	•				••		nend to County Coun in support of Public W			
0										
	Attachment Solio 2.24 MB	d Waste and Recycling	Knuckle Boom I	_oader Truck.p	df					
cc: Gary Kubic, Cou	ınty Administr	rator		Approved:	Yes	Date:	11/15/2016			
Check to overrid	e approval: 🔽	Overridden by: cherylh		Override Date:						
Joshua Gruber,	Deputy Count	ty Administrator/Spe	ecial Counsel	Approved:	Yes	Date:	11/07/2016			
Check to overrie	de approval:	Overridden by:		Override Date:						
Alicia Holland, A	Assistant Cour	nty Administrator, Fi	nance	Approved:	Yes	Date:	11/07/2016			
Eric Larson Dire	ector, Environ	mental Engineering	Division	Approved:	Yes	Date:	11/08/2016			
Check to override ap	oproval: 🗌 Over	ridden by:		Override Date	:		ready for admin:			
David Wilhelm	Director. Pub	lic Works Departmer	nt	Approved:	Yes	Date:	11/10/2016			
Check to override ap	proval: 🗌 Over	ridden by:		Override Date	:		ready for admin:			

After Initial Submission, Use the Save and Close Buttons



TO:

COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY ENGINEERING DEPARTMENT 104 Industrial Village Road, Building #3, Beaufort, SC 29906 Post Office Drawer 1228, Beaufort, SC 29901-1228 Telephone: 843-255-2700 Facsimile: 843-255-9420

Councilman Gerald Dawson, Chairman, Public Facilities Committee

VIA: Gary Kubic, County Administrator Josh Gruber, Deputy County Administrator Alicia Holland, Assistant County Administrator for Finance

FROM: Robert McFee, PE, Division Director for Construction, Engineering & Facilitie

SUBJ: Change Order #6 for Boundary Street Redevelopment Construction

DATE: November 16, 2016

BACKGROUND. Beaufort County awarded the Boundary Street Redevelopment construction contract to Preferred Materials, Inc., (PMI) for \$18,765,274 on September 14, 2015.

Change Order 6 (CO 6) is for adjustments in the duct bank construction details, variances in structure locations and alignment. CO 6 has been reviewed by the project Construction Manager and was recommended for approval. The City of Beaufort Manager and the County Administrator have signed the change order for acceptance and City Council approved CO 6 on November 8, 2016. Therefore, it is requested that CO 6 be approved by the Committee so it can be included on the contractor's purchase order and processed for payment.

<u>FUNDING</u>. Change Order 6 will be funded from the Boundary Street Redevelopment total budget of \$33,573,358 which is provided by TIGER Grant, County Sales Tax Fund, County Road Impact Fee and City of Beaufort TIF II.

FOR ACTION. Public Facilities Committee Meeting on November 21, 2016.

<u>RECOMMENDATION</u>. The Public Facilities Committee approve CO 6 to Preferred Materials, Inc., for construction of the Boundary Street Redevelopment in the amount of \$83,860 from the funding source listed above.

1

JRM/mjh

Attachments: 1) Change Order 6 2) 11/8/16 City of Beaufort Agenda

cc: Kathy Todd

BStReDevlop/CO 6

Rpt-ID: RCOCORPT	Date: 10/28/2016								
User: frailxja	Department of Transportation								
	Change	Order Report							
Contract ID: LPA07.036939A Change Order Nbr: 006 Force Acct ID: 0 Change Order Type: Standard Change Order CO Description: Boundary Street Right Side Duct Bank Impacts Zero Dollar Change Order: No						47			
Project NbrItm NbrCatgItem Code0036939RD01202119800100Item DescriptionCHANGE ORDER ITEMSupplemental Description1Boundary Street Right Side Duct Bank isSupplemental Description2	Unit Unit Price LS \$83,860.63 CO Item Description	Bid Qty 0 n Boundary S	Prev Apprvd Qty 0 Street Right Side Due	Curr CO Qty 1 ct Bank Impacts	N E M	Amount of Change This Chng: \$83,860.63 ev Revised: \$0.00 ew Revised: \$83,860.63 iid Contract: \$0.00 Net Change: \$83,860.63 Pct Change:			
Total Value	e for Change Order 006	= \$8	33,860.63						
	Change Order Report: Contract	t Completion	Date Time Adjustm	ent					
Original Compl Date: 2017/12/30 Adj Compl Date: 2018/02/18 Explanation: Forty-two (42) days are granted as additional time for change order.	Adj No. of Days: 42 the Boundary Street right side du	uctbank impact	ts as associated with	ı this					

Rot-ID: RCOCORPT

SOUTH CAROLINA

Date: 10/28/2016

Page: 2 of 2

User: fratizja

Department of Transportation

General or Standard Change Order Explanation

This change order is necessary to resolve impacts associated with the Boundary Street Right Side Duct Bank. Impacts include duct bank detail changes additional staking for utility coordination; and material and labor for installing additional conduit fittings.

Prices have been verified by the City of Beautort staff and CEI consultants.

This brings the contract total to date to \$18,895,455.22 which overruns the original contract by a cumulative percentage of 0.69%

Pursuant to Section 104.05 of the Standard Specifications on the above referred to project. I/we (Prime Contractor), do hereby egree to the unit price stipulated above, for porforming the work items lated, as part of myfour contract on this project. The work shall be performed under and in accordance with the specifications and contract requirements of our contract. The compensation and time extension, (if any), provided in this supplemental agreement constitute complete satisfaction for all direct, impact, and delay costs relating to this work.

JUSTIFICATION OF FIR Date: 11-8-10 Based upon quantities involved, field conditions and type of construction, these prices are reasonable Recommended by Date 4,2016 Reviewed by Date. 11/15 Accepted by (City) Date 11/15 Accessed by (County) 60

October 27, 2016

Micah Shultzman Project Manager Preferred Materials 47 Telfair Place Savannah, GA 31415

RE: Right Side Duct Bank Impacts IFB # 062315E US 21 Business (Boundary Street) and First Street Improvements

Dear Mr. Shultzman,

We have received your letter Right Side Duct Bank Revisions – IFB #062315E US 21 (Boundary Street) and First Street Improvements dated August 17, 2016 and have completed our review. Per the letter, you are requesting compensation for the work performed per directives without plan changes, modifications of details, and variances in structure locations. The values associated are an equitable adjustment of \$148,033.05 and a time extension of 53.2 days. We concur that several variances in the duct bank details and alignment were made during construction and that an adjustment is warranted.

We have reviewed both the original baseline CPM schedule and the actual in-place work performed to construct the right side duct bank. Based on the original activity #A1060 (Ductbank – Boundary Street Right), you had anticipated to install 50.2lf of duct bank per work day (assuming the first 15 days of the 86 day duration were used for survey, exploratory excavations, material procurement and site preparations). Using this rate to install the 2,710lf of duct bank built in place, it should have taken 48 days to install the complete right side section. However, due to the impacts to the contractor as listed above, the actual duration of this same section took 83 work days. That is an increase of 35 work days. Due to some inefficiencies that are recognized by both parties, 5 days (approximately 5% of the 83 days) are being deducted from the 35 days beyond planned performance to provide a final time extension of 30 work days (42 calendar days).

The cost portion of the adjustment was also reviewed. The cost impact is directly related to the additional time spent constructing the duct bank, along with the added effort and material to turn the ductbank up at the structure locations. The equitable adjustment will be comprised of the following (details attached):

Additional daily labor cost of \$2,669.00 for 30 days	\$ 80,070.00
Additional mobilization cost of \$1,500.00 for 2 occurrences	\$ 3,000.00
Additional survey required for changes to alignment	\$ 7,500.00
Reduction of concrete for communication conduits	\$ (20,738.73)
Additional cost of materials for connection to structures	\$ 14,029.36
	\$ 83,860.63



Further review of impacts to the loaded unit rate will be determined when final details for SCE&G structures are provided and modifications to ductbank details are determined to complete the left side ductbank. The total value for this change order is a time extension of 42 calendar days and an equitable adjustment of \$ 83,860.63.

If you agree with our review, a change order will be developed to cover these changes. This change order will account for all items associated with the right side duct bank and that you acknowledge that no further compensation will be provided for this item, except as noted above. A revised CPM schedule will be required to update the sequence of activities and the substantial completion date accordingly.

Thank you for your continued cooperation as we work together to complete the construction of this project.

Regards,

and haters

Jared Fralix CM-CEI Project Manager

CC: Job File City of Beaufort, Sammy Negron Beaufort County, Rob McFee

An Equal Opportunity Employer

Impact	Description	Quantity	Unit	Unit Price	Total	Comment
#1 & #2	Additional Time per linear foot installed		Days			
	Additional Time per turn out location		Days			
					30	Working Days and/or 42 Calendar Days
	Additional Mobilization to structures 16 and 17	2	EA	\$1,500.00	\$3,000.00	
	Additional Daily Cost Associated with Duct Configuration		Days	\$2,669.00	\$0.00	
	Additional Daily Cost Associated with Structure Changes		Days	\$2,669.00	\$0.00	
		30	Days	\$2,669.00	\$80,070.00	
#3	Detail 3 Changes					
	Length Changes	0	LF	\$64.61	\$0.00	adjust contract unit price later
	Concrete Reduction	121.6524	Сү	\$113.95	-\$13,862.29	
	Detail 4 Changes					
	Length Changes	0	ĹF	\$73.85	\$0.00	
	Concrete Reduction	60.34614	CY	\$113.95	-\$6,876.44	
#4	Additional Survey \$1,500/day	5	Days	\$1,500.00	\$7,500.00	
	Extra material costs (steel sweeps)	35	6" EA	\$278.27	\$9,739.45	
		26	4" EA	\$158.40	\$4,118.40	
		3	2" EA	\$57.17	\$171.51	
	Total Cost incurred				\$83,860.63	
	Additional Time to complete					Calendar Days

Extra Material

for use at turn up locations

material value	6" Steel	\$278.27
	4" PVC	\$158.40
	2" PVC	\$57.17

Structure	Power Conduits	6" Dia	Cost	2" Dia	Cost	Comm Conduits	4" Dia	Cost
2	X,Y,Z,AA	4	\$1,113.08		\$0.00 V	N,U,V	3	\$475.20
5	Y	1	\$278.27		\$0.00 \	/	1	\$158.40
6	X,Y,Z,AA,F,G	6	\$1,669.62		\$0.00 \	/,U,W	3	\$475.20
7	X,Y,Z,AA,F,G	6	\$1,669.62		\$0.00 \	/,U,W	3	\$475.20
17	X,Y,Z,AA	4	\$1,113.08		\$0.00 \	/	1	\$158.40
19	X,Y,Z,AA	4	\$1,113.08		\$0.00 V	N,U,V	3	\$475.20
23			\$0.00		\$0.00 V	1	1	\$158.40
24	X,Y	2	\$556.54		\$0.00 \	1	1	\$158.40
28	X,T	1	\$278.27	1	\$57.17 V	N	1	\$158.40
29A			\$0.00		\$0.00 \	/	1	\$158.40
29			\$0.00		\$0.00 \	/	1	\$158.40
30	X,T	1	\$278.27	1	\$57.17 V	N,V	2	\$316.80
31	X,Y	2	\$556.54		\$0.00 L	J	1	\$158.40
31A			\$0.00		\$0.00 V	N	1	\$158.40
35			\$0.00		\$0.00 \	/	1	\$158.40
16	X,Y	2	\$556.54		\$0.00 \	1	1	\$158.40
43A	Т,Х,Ү	2	\$556.54	1	\$57.17	/	1	\$158.40
		35	\$9,739.45	3	\$171.51		26	\$4,118.40

Additional Material Total

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\$14,029.36

Concrete savings

6" Dia 4" Dia 2" Dia Area 0.196349 0.080425 0.020106

Detail 3 Original Concrete Volume

Width	Height	Area (sqft)	5" Dia 4" Di	ia 2º Dia	PVC Area (sqft)	Concrete Volume	If installed Volume
3.2	5 1.68	5.46	4	2	2 0.98645926	5 4.47354074 cf/lf	1,635 270.8977

Revised to include just power

Width	Height	Area (sqft)	6" Dia	4" Dia	2" Dia	PVC Area (sqft)	Concrete Volume	If installed	Volume
3.25	1.00	3.25	4	Ļ	0	0 0.78539	75 2.4646025 cf/lf	1,635	149.2454

concrete reduction 121.6524 cy

6" Dia 4" Dia 2" Dia Area 0.196349 0.080425 0.020106

Detail 4 Original Concrete Volume

Width		Height	Area (sqft) 6" Dia	4" Dia	2" Dia	PVC Area (sqft) Concrete Volume	If installed Volume
	2.5	1.68	4.2	4	2	2 0.98645926 3.21354074	1,087 129.3748
Revised to include just power	•						
Width		Height	Area (sqft) 6" Dia	4" Dia	2" Dia	PVC Area (sqft) Concrete Volume	If installed Volume
	2.5	1.00	2.5	4	0	0 0.7853975 1.7146025	1,087 69.02863

concrete reduction 60.34614 cy



August 17, 2016

Correspondence #1015 C-012

Mr. Jared Fralix, PE CE&I Project Manager ICE 26 John Galt Road Beaufort, SC 29906

RE: Right Side Duct Bank Revisions IFB # 062315E US 21 Business (Boundary Street) and First Street Improvements

Dear Mr. Fralix,

Preferred Materials, Inc (PMI) has encountered several obstacles thus far in its efforts to navigate the numerous utility conflicts and design changes specific to the duct bank installation on the aforementioned project. Further, PMI and its subcontractors constructed the right side Duct Bank via verbal directives from ICE without the aid of completed design drawings and/or final locations for the respective utility companies' equipment terminations. The main changes encountered thus far have been the duct configuration changes to details 3& 4(flowable fill vs granular fill), the substantial modification of detail 5 (revising the turn-out detail to turn up to the equipment locations and revising all of those equipment locations), the reduction in quantity for the overall right side duct bank construction specifically due to utility conflicts, and several horizontal/vertical alignment changes due to the aforementioned utility impacts. The bulk of these changes were received via verbal and/or written field work orders followed up by a whole sale plan revision received on April 29, 2016.

While PMI was able to keep construction activities moving forward during this litany of changes, several impacts to both our cost structure and schedule have been incurred. PMI requests an equitable adjustment for the right side duct bank construction in the amount of \$148,033.05 as compensation for the changes identified above, accompanied by a time extension to the project of 53.2 calendar days. A summary of the cost and schedule impacts is outlined below:

While the modification of details 3&4 reduced the amount of flowable fill on the project, it caused the construction activities to consume additional time and resources. At the commencement of the duct bank construction, SCE&G requested the bottom ducts be encased in flowable fill separate from the top communication ducts. This change added concrete cure time before the top communication ducts could be installed, backfilled, and completed. PMI anticipated an average production of 100LF per day to install details 3 &4. This change doubled the amount of construction time necessary to complete said details. The daily reports for the project will show that the 100LF per day was achievable had the design changes been clarified prior to constructing the duct bank. 2361LF of duct bank was installed on the Right side of construction centerline. It took PMI approximately 47 days to install 2361LF of duct bank resulting in an additional 23 days.

- 2. The revised equipment locations and duct configuration greatly complicated the construction of each turn out location both from a constructability and project duration perspective. Each individualized configuration caused several additional bends in an extremely crowded work area, utilizing much more time, materials and resources to perform this work. PMI assumed two turn out locations per day to complete based off the original configuration (attached). With the revised 14 structures, it took PMI an additional 15 days to complete the 14 locations. To complicate matters Structures 16 and 17 had easement procurement and utility conflicts respectfully that caused PMI to re-mobilize to finish once those issues were resolved.
- 3. The reduction in quantity on the right side has skewed the average level of effort on the project. Deleting less significant (less ducts / less complicated) work has caused the average pricing of the single duct bank line item on the project to increase in an effort to maintain the overall project average. PMI had to assume all duct configurations into a single per linear foot price as there is one pay item to cover all duct bank details. The following table depicts our subcontractors approach to each duct bank detail:

Description	Quantity	Unit	Unit Price	Amount		
Boundary Detail 1	5,697	Lf	\$ 239.41	\$ 1,363,918.77		
Boundary Detail 2	2,067	Lf	\$ 203.91	\$ 421,481.97		
Boundary Detail 3	2,310	Lf	\$ 127.26	\$ 293,970.60		
Boundary Detail 4	1,256	Lf	\$ 118.86	\$ 149,288.16		
First Detail 1	2,952	Lf	\$ 144.86	\$ 427,626.72		
TAKEOFF TOTALS	14,282	Lf	\$ 185.99	\$ 2,656,286.22		

By reducing the lesser priced detail, the average price overall becomes skewed by approximately \$51,063.30

4. Lastly, the lack of a specific and constructible location (horizontal and vertical) of the right side duct bank predicated several field meetings, additional field layout, and survey effort to determine an adequate corridor to facilitate the duct bank construction. This was not anticipated at the time of our bid and has increased the overall survey time and effort on the project.

In summary, PMI has proceeded in good faith and continued to push project construction forward in an attempt to complete on time. PMI understands the importance of this project for members of Beaufort County, City of Beaufort, and SCDOT. Receiving revised duct bank plans 120 calendar days(Jan 1 to April 29, 2016) into the project is a true testament of the constructability issues associated with the duct bank design. At this time the Left side duct bank design is not complete and/or been provided to PMI. To further complicate matters, all necessary easements to facilitate construction of the Left side duct bank turnouts have not been acquired. PMI requests the following adjustments for the above mentioned issues:

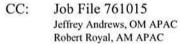
Impact	Description	Quantity	Unit	Unit Price	Total	
#1 and #2	Additional Time per linear foot installed	23	DAYS		23	Working Days and/or 32.2 Calendar Day
	Additional Time per turn out location	15	DAYS		15	Working Days and/or 21.0 Calendar Day
					38	Working Days and/or 53.2 Calendar Days
	Additional Mobilization to structures 16 and 17	2	EA	\$1,500.00	\$3,000.00	
	Additional Daily Cost Associated with Duct Configuration	23	DAYS	\$2,669.00	\$61,387.00	
	Additional Daily Cost Associated with Structure Changes	15	DAYS	\$2,669.00	\$40,035.00	
#3	Detail 3					
	Length Changes	675	LF	\$64.61	\$43,611.75	Subcontractor price of \$58.74 plus 10%
	Concrete Reduction	(116)	CY	\$113.95	(\$13,218.20)	
	Detail 4					
	Length Changes	170	LF	\$73.85	\$12,554.50	Subcontractor price of \$67.14 plus 10%
	Concrete Reduction	(60)	CY	\$113.95	(\$6,837.00)	
#4	Additional Survey \$1500/Day	5	DAYS	\$1,500.00	\$7,500.00	
	Total Cost incurred				\$148,033.05	
	Additional Time to complete				53.2	Calendar Days

The schedule impacts incurred from the lack of proper design and utility conflicts have changed the nature of the project. PMI is currently re-baselining the project CPM to reflect this request and the changes in construction staging. It is PMI intent to reach an amicable solution moving forward to avoid any further setbacks. Please consider this request and respond with any questions or concerns. Feel free to contact me at <u>micah.shultzman@preferredmaterials.com</u> or by phone at 864-444-0149. Thank you for your time and consideration.

Respectfully,

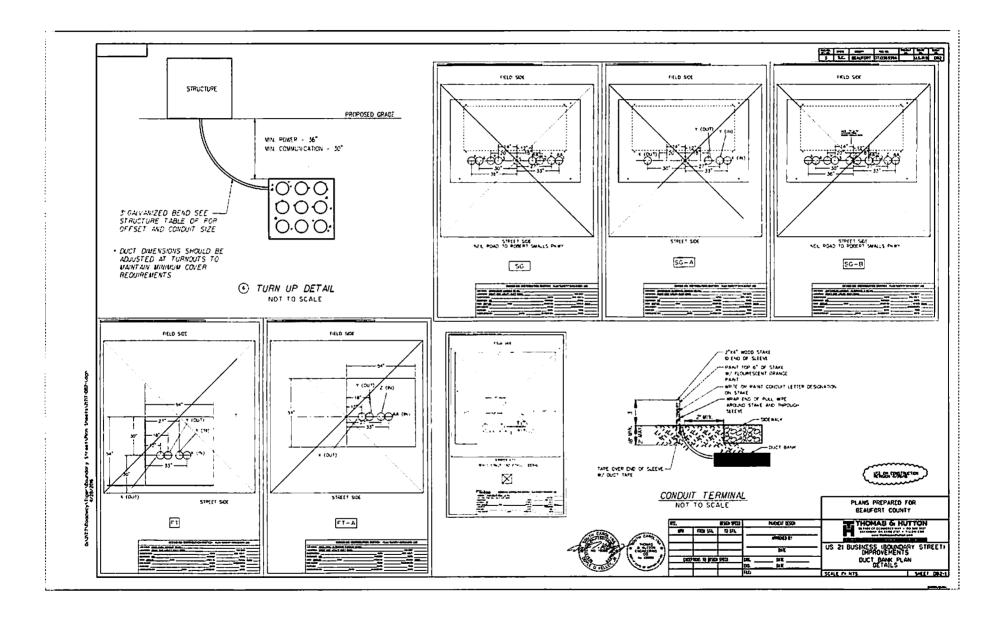
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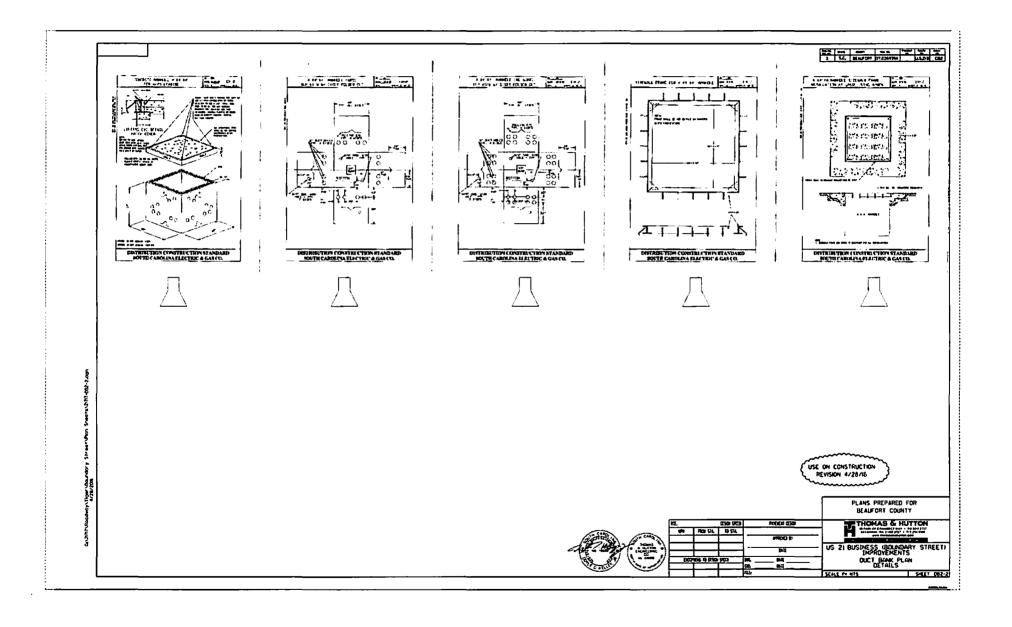
Micah Shultzman Project Manager



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- <u>v</u>			24LW	STAL MACAN	
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			STRUCTURE TABLE		
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1 70	M D.CT 603-67	7 ST	v	MARCINA	
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57	UT DUCT 5034-57	11	DEFI	SCERC	SCEBG (2 KT) & 2 (6 XXY) NOT TO SCALE
55	17 DUCT 5036-64	14.12	ET JA	SCENG, MARGRAY	HARGRAY (147XY) () UTILITY DUCT BANK TO STRUCTURE DETAIL ITYPICA
56	17 DUCT 5033-6	8.0	GAUGURI M	SCENG CENTURY LAX, MARGRAZ	
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58	UT DUCT 5042-22	10	LISS	SCEEG HARGRAT	ILLI END & 6033-66.65
57	17 DUCT 5043-49	818	DEFININ	SCEBACENTURY LINX, HARGRAY	
60	17 DUCT 5040-00	80	EFJEND	SCY &G SIGNAL HARGROY	
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	17 057 5052-00	717		CENTURY LINUL HARDAN	
			4814		BEALFORT COUNTY
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69	17 DUCT 3015-78	10	ABDEFLIEL	SCENG CENTURY LOR, MARGRAY	
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CITY OF BEAUFORT 1911 BOUNDARY STREET BEAUFORT MUNICIPAL COMPLEX BEAUFORT, SOUTH CAROLINA 29902 (843) 525-7070 CITY COUNCIL REGULAR MEETING AGENDA November 8, 2016

NOTE: IF YOU HAVE SPECIAL NEEDS DUE TO A PHYSICAL CHALLENGE, PLEASE CALL IVETTE BURGESS 525-7070 FOR ADDITIONAL INFORMATION

STATEMENT OF MEDIA NOTIFICATION

"In accordance with South Carolina Code of Laws, 1976, Section 30-4-80(d), as amended, all local media was duly notified of the time, date, place and agenda of this meeting."

REGULAR MEETING - Council Chambers, 2nd Floor - 7:00 PM

I. CALL TO ORDER

A. Billy Keyserling, Mayor

II. INVOCATION AND PLEDGE OF ALLEGIANCE

A. Mike McFee, Mayor Pro Tem

III. PROCLAMATIONS/COMMENDATIONS/RECOGNITIONS

A. Proclamation Proclaiming November 26, 2016 as Small Business Saturday

IV. PUBLIC COMMENT

V. PUBLIC HEARING

VI. MINUTES

A. Worksession and Regular Meeting September 27,2016

VII. OLD BUSINESS

A. Ordinance Establishing the Licensing and Regulation of Food Trucks, Food Trailers and Food Truck Vendors in City limits - 2nd Reading

VIII. NEW BUSINESS

- A. Annual Holiday Parking Request from Main Street Beaufort
- B. Request from Main Street Beaufort to host Holiday Events December 2-4, 2016 to include Night on the Town with permission to sell alcohol on Bay Street, Light up the Night Boat Parade, and Christmas Parade
- C. Request for Co-Sponsorship for use of Waterfront Park from Agape Hospice for Life Blooms Eternal event Friday, November 11, 2016
- D. Street Closure Request from Beaufort County Black Chamber of Commerce for Grand Opening event Friday, January 13, 2017
- E. Annual Request from Southern Scooters to host Toy Run 2016 Sunday, December 11,

2016

- F. Approval of Change Order of \$83,860.63 for the Boundary Street Project per previously agreed procedure
- G. Approval to pursue Commerce Department Grant from County Council

IX. REPORTS

- · City Manager's Report
- Mayor Report
- Reports by Council Members

X. ADJOURN

Rpt-ID: RCO	t-ID: RCOCORPT SOUTH CAROLINA									Date: 10/28/2	
User: fralixja	a					Department of	Page: 1 of 2				
						Change O	rder Repor	t			
Contract ID:	LPA07.03693	9A	1011-01								
Change Order N	Nbr: 00	6	Force Acct ID	: 0							
Change Order 1	Type: Stand	ard Cha	ange Order								
CO Description	: Boun	dary Str	eet Right Side	Duct Bank Impacts							
Zero Dollar Cha	ange Order:	No									
Project I	Nbr l	tm Nbr	Catg	Item Code	Unit	Unit Price	Bid Qty	Prev Apprvd Qty	Curr CO Qty	Curr Apprvd	Qty Amount of Change
0036939RI	D01 2	2021	1	9800100	LS	\$83,860.63	0	0	1	0	This Chng: \$83,860.63
Item Descriptio	n CHANGE	ORDE	RITEM			CO Item Description	Boundary	Street Right Side Duc	t Bank Impacts		Prev Revised: \$0.00
Supplemental D				ht Side Duct Bank Im	nacte	oo nem beschption					New Revised: \$83,860.63
Supplemental D		Douin	dary offeet rug		paolo						Bid Contract: \$0.00
oupplemental b	comptionz										Net Change: \$83,860.63
											Pct Change:
				Total Value for	or Change	e Order 006	= \$	83,860.63			
				Ch	ange Ore	der Report: Contract (Completion	Date Time Adjustme	ent		
Original Compl D	ate: 2017/12	/30	Adj Compl	I Date: 2018/02/18	Adj	No. of Days: 42					
Explanation:	Forty-two (4 change orde		are granted as	s additional time for th	e Bounda	rry Street right side duc	tbank impac	cts as associated with	this		

Rpt-ID: RCOCORPT

SOUTH CAROLINA

User: fralixja

Department of Transportation

Date: 10/28/2016

Page: 2 of 2

General or Standard Change Order Explanation

This change order is necessary to resolve impacts associated with the Boundary Street Right Side Duct Bank. Impacts include duct bank detail changes; additional staking for utility coordination; and material and labor for installing additional conduit fittings.

Prices have been verified by the City of Beaufort staff and CEI consultants.

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This brings the contract total to date to \$18,895,455.22 which overruns the original contract by a cumulative percentage of 0.69%

Pursuant to Section 104.05 of the Standard Specifications on the above referred to project. I/we (Prime Contractor), do hereby agree to the unit price stipulated above, for performing the work items listed, as part of my/our contract on this project. The work shall be performed under and in accordance with the specifications and contract requirements of our contract. The compensation and time extension, (if any), provided in this supplemental agreement constitute complete satisfaction for all direct, indirect, impact, and delay costs relating to this work.

JUSTIFICATION OF COST Date: 11-8-16 FIRM

Based upon quantities involved, field conditions and type of construction, these prices are reasonable.

Recommended by: Janed hal	ix Date:1/14/16
Reviewed by:	Date:
Accepted by (City):	Date:
Accepted by (County):	Date:

October 27, 2016

Micah Shultzman Project Manager Preferred Materials 47 Telfair Place Savannah, GA 31415

RE: Right Side Duct Bank Impacts IFB # 062315E US 21 Business (Boundary Street) and First Street Improvements

Dear Mr. Shultzman,

We have received your letter Right Side Duct Bank Revisions – IFB #062315E US 21 (Boundary Street) and First Street Improvements dated August 17, 2016 and have completed our review. Per the letter, you are requesting compensation for the work performed per directives without plan changes, modifications of details, and variances in structure locations. The values associated are an equitable adjustment of \$148,033.05 and a time extension of 53.2 days. We concur that several variances in the duct bank details and alignment were made during construction and that an adjustment is warranted.

We have reviewed both the original baseline CPM schedule and the actual in-place work performed to construct the right side duct bank. Based on the original activity #A1060 (Ductbank – Boundary Street Right), you had anticipated to install 50.2lf of duct bank per work day (assuming the first 15 days of the 86 day duration were used for survey, exploratory excavations, material procurement and site preparations). Using this rate to install the 2,710lf of duct bank built in place, it should have taken 48 days to install the complete right side section. However, due to the impacts to the contractor as listed above, the actual duration of this same section took 83 work days. That is an increase of 35 work days. Due to some inefficiencies that are recognized by both parties, 5 days (approximately 5% of the 83 days) are being deducted from the 35 days beyond planned performance to provide a final time extension of 30 work days (42 calendar days).

The cost portion of the adjustment was also reviewed. The cost impact is directly related to the additional time spent constructing the duct bank, along with the added effort and material to turn the ductbank up at the structure locations. The equitable adjustment will be comprised of the following (details attached):

Additional daily labor cost of \$2,669.00 for 30 days	\$ 80,070.00
Additional mobilization cost of \$1,500.00 for 2 occurrences	\$ 3,000.00
Additional survey required for changes to alignment	\$ 7,500.00
Reduction of concrete for communication conduits	\$ (20,738.73)
Additional cost of materials for connection to structures	<u>\$ 14,029.36</u>
	\$ 83,860.63



Further review of impacts to the loaded unit rate will be determined when final details for SCE&G structures are provided and modifications to ductbank details are determined to complete the left side ductbank. The total value for this change order is a time extension of 42 calendar days and an equitable adjustment of \$ 83,860.63.

If you agree with our review, a change order will be developed to cover these changes. This change order will account for all items associated with the right side duct bank and that you acknowledge that no further compensation will be provided for this item, except as noted above. A revised CPM schedule will be required to update the sequence of activities and the substantial completion date accordingly.

Thank you for your continued cooperation as we work together to complete the construction of this project.

Regards,

and frating

Jared Fralix CM-CEI Project Manager

CC: Job File City of Beaufort, Sammy Negron Beaufort County, Rob McFee

Impact	Description	Quantity	Unit	Unit Price	Total	Comment
#1 & #2	Additional Time per linear foot installed		Days			
	Additional Time per turn out location		Days			
					30	Working Days and/or 42 Calendar Days
	Additional Mobilization to structures 16 and 17	2	EA	\$1,500.00	\$3,000.00	
	Additional Daily Cost Associated with Duct Configuration		Days	\$2,669.00	\$0.00	
	Additional Daily Cost Associated with Structure Changes		Days	\$2,669.00	\$0.00	
		30	Days	\$2,669.00	\$80,070.00	
#3	Detail 3 Changes					
	Length Changes	0	LF	\$64.61	\$0.00	adjust contract unit price later
	Concrete Reduction	121.6524	CY	\$113.95	-\$13,862.29	
	Detail 4 Changes					
	Length Changes	0	LF	\$73.85	\$0.00	
	Concrete Reduction	60.34614	СҮ	\$113.95	-\$6,876.44	
#4	Additional Survey \$1,500/day	5	Days	\$1,500.00	\$7,500.00	
	Extra material costs (steel sweeps)	35	6" EA	\$278.27	\$9,739.45	
		26	4" EA	\$158.40	\$4,118.40	
		3	2" EA	\$57.17	\$171.51	
	Total Cost incurred				\$83,860.63	
	Additional Time to complete				42	Calendar Days

Extra Material

for use at turn up locations

material value	6" Steel	\$278.27
	4" PVC	\$158.40
	2" PVC	\$57.17

Structure	Power Conduits	6" Dia	Cost	2" Dia	Cost	Comm Conduits	4" Dia	Cost
2	X,Y,Z,AA	4	\$1,113.08		\$0.00 W,L	J,V	3	\$475.20
5	Y	1	\$278.27		\$0.00 V		1	\$158.40
6	X,Y,Z,AA,F,G	6	\$1,669.62		\$0.00 V,U	,W	3	\$475.20
7	X,Y,Z,AA,F,G	6	\$1,669.62		\$0.00 V,U	,W	3	\$475.20
17	X,Y,Z,AA	4	\$1,113.08		\$0.00 V		1	\$158.40
19	X,Y,Z,AA	4	\$1,113.08		\$0.00 W,L	J,V	3	\$475.20
23			\$0.00		\$0.00 V		1	\$158.40
24	X,Y	2	\$556.54		\$0.00 V		1	\$158.40
28	X,T	1	\$278.27	1	\$57.17 W		1	\$158.40
29A			\$0.00		\$0.00 V		1	\$158.40
29			\$0.00		\$0.00 V		1	\$158.40
30	X,T	1	\$278.27	1	\$57.17 W,\	/	2	\$316.80
31	X,Y	2	\$556.54		\$0.00 U		1	\$158.40
31A			\$0.00		\$0.00 W		1	\$158.40
35			\$0.00		\$0.00 V		1	\$158.40
16	X,Y	2	\$556.54		\$0.00 V		1	\$158.40
43A	Т,Х,Ү	2	\$556.54	1	\$57.17 V		1	\$158.40
		35	\$9,739.45	3	\$171.51		26	\$4,118.40

Additional Material Total

\$14,029.36

Concrete savings

6" Dia 4" Dia 2" Dia Area 0.196349 0.080425 0.020106

Detail 3 Original Concrete Volume

 Width
 Height
 Area (sqft)
 6" Dia
 4" Dia
 2" Dia
 PVC Area (sqft)
 Concrete Volume
 If installed
 Volume

 3.25
 1.68
 5.46
 4
 2
 2
 0.98645926
 4.47354074 cf/lf
 1,635 270.8977

Revised to include just power

 Width
 Height
 Area (sqft)
 6" Dia
 4" Dia
 2" Dia
 PVC Area (sqft)
 Concrete Volume
 If installed
 Volume

 3.25
 1.00
 3.25
 4
 0
 0
 0.7853975
 2.4646025 cf/lf
 1,635
 149.2454

concrete reduction 121.6524 cy

6" Dia 4" Dia 2" Dia Area 0.196349 0.080425 0.020106

Detail 4 Original Concrete Volume

Width	Height	Area (sq	ft) 6" Dia	4" Dia	2" Dia	PVC	Area (sqft)	Concrete Volume	If installed	Volume
2.	5 1.	.68	4.2	4	2	2	0.98645926	3.21354074	1,087	129.3748

Revised to include just power

 Width
 Height
 Area (sqft)
 6" Dia
 4" Dia
 2" Dia
 PVC Area (sqft)
 Concrete Volume
 If installed
 Volume

 2.5
 1.00
 2.5
 4
 0
 0
 0.7853975
 1.7146025
 1,087
 69.02863

concrete reduction 60.34614 cy



August 17, 2016

Correspondence #1015 C-012

Mr. Jared Fralix, PE CE&I Project Manager ICE 26 John Galt Road Beaufort, SC 29906

RE: Right Side Duct Bank Revisions IFB # 062315E US 21 Business (Boundary Street) and First Street Improvements

Dear Mr. Fralix,

Preferred Materials, Inc (PMI) has encountered several obstacles thus far in its efforts to navigate the numerous utility conflicts and design changes specific to the duct bank installation on the aforementioned project. Further, PMI and its subcontractors constructed the right side Duct Bank via verbal directives from ICE without the aid of completed design drawings and/or final locations for the respective utility companies' equipment terminations. The main changes encountered thus far have been the duct configuration changes to details 3& 4(flowable fill vs granular fill), the substantial modification of detail 5 (revising the turn-out detail to turn up to the equipment locations and revising all of those equipment locations), the reduction in quantity for the overall right side duct bank construction specifically due to utility conflicts, and several horizontal/vertical alignment changes due to the aforementioned utility impacts. The bulk of these changes were received via verbal and/or written field work orders followed up by a whole sale plan revision received on April 29, 2016.

While PMI was able to keep construction activities moving forward during this litany of changes, several impacts to both our cost structure and schedule have been incurred. PMI requests an equitable adjustment for the right side duct bank construction in the amount of \$148,033.05 as compensation for the changes identified above, accompanied by a time extension to the project of 53.2 calendar days. A summary of the cost and schedule impacts is outlined below:

While the modification of details 3&4 reduced the amount of flowable fill on the project, it caused the construction activities to consume additional time and resources. At the commencement of the duct bank construction, SCE&G requested the bottom ducts be encased in flowable fill separate from the top communication ducts. This change added concrete cure time before the top communication ducts could be installed, backfilled, and completed. PMI anticipated an average production of 100LF per day to install details 3 &4. This change doubled the amount of construction time necessary to complete said details. The daily reports for the project will show that the 100LF per day was achievable had the design changes been clarified prior to constructing the duct bank. 2361LF of duct bank was installed on the Right side of construction centerline. It took PMI approximately 47 days to install 2361LF of duct bank resulting in an additional 23 days.

- 2. The revised equipment locations and duct configuration greatly complicated the construction of each turn out location both from a constructability and project duration perspective. Each individualized configuration caused several additional bends in an extremely crowded work area, utilizing much more time, materials and resources to perform this work. PMI assumed two turn out locations per day to complete based off the original configuration (attached). With the revised 14 structures, it took PMI an additional 15 days to complete the 14 locations. To complicate matters Structures 16 and 17 had easement procurement and utility conflicts respectfully that caused PMI to re-mobilize to finish once those issues were resolved.
- 3. The reduction in quantity on the right side has skewed the average level of effort on the project. Deleting less significant (less ducts / less complicated) work has caused the average pricing of the single duct bank line item on the project to increase in an effort to maintain the overall project average. PMI had to assume all duct configurations into a single per linear foot price as there is one pay item to cover all duct bank details. The following table depicts our subcontractors approach to each duct bank detail:

Description	Quantity	Unit	Unit Price	Amount							
Boundary Detail 1	5,697	Lf	\$ 239.41	\$ 1,363,918.77							
Boundary Detail 2	2,067	Lf	\$ 203.91	\$ 421,481.97							
Boundary Detail 3	2,310	Lf	\$ 127.26	\$ 293,970.60							
Boundary Detail 4	1,256	Lf	\$ 118.86	\$ 149,288.16							
First Detail 1	2,952	Lf	\$ 144.86	\$ 427,626.72							
TAKEOFF TOTALS	14.282	Lf	\$ 185.99	\$ 2,656,286,22							

By reducing the lesser priced detail, the average price overall becomes skewed by approximately \$51,063.30

4. Lastly, the lack of a specific and constructible location (horizontal and vertical) of the right side duct bank predicated several field meetings, additional field layout, and survey effort to determine an adequate corridor to facilitate the duct bank construction. This was not anticipated at the time of our bid and has increased the overall survey time and effort on the project.

In summary, PMI has proceeded in good faith and continued to push project construction forward in an attempt to complete on time. PMI understands the importance of this project for members of Beaufort County, City of Beaufort, and SCDOT. Receiving revised duct bank plans 120 calendar days(Jan 1 to April 29, 2016) into the project is a true testament of the constructability issues associated with the duct bank design. At this time the Left side duct bank design is not complete and/or been provided to PMI. To further complicate matters, all necessary easements to facilitate construction of the Left side duct bank turnouts have not been acquired. PMI requests the following adjustments for the above mentioned issues:

Impact	Description	Quantity	Unit	Unit Price	Total	
#1 and #2	Additional Time per linear foot installed	23	DAYS		23	Working Days and/or 32.2 Calendar Days
	Additional Time per turn out location	15	DAYS		15	Working Days and/or 21.0 Calendar Days
					38	Working Days and/or 53.2 Calendar Days
	Additional Mobilization to structures 16 and 17	2	EA	\$1,500.00	\$3,000.00	
	Additional Daily Cost Associated with Duct Configuration	23	DAYS	\$2,669.00	\$61,387.00	
	Additional Daily Cost Associated with Structure Changes	15	DAYS	\$2,669.00	\$40,035.00	
#3	Detail 3					
	Length Changes	675	LF	\$64.61	\$43,611.75	Subcontractor price of \$58.74 plus 10%
	Concrete Reduction	(116)	CY	\$113.95	(\$13,218.20)	
	Detail 4					
	Length Changes	170	LF	\$73.85	\$12,554.50	Subcontractor price of \$67.14 plus 10%
	Concrete Reduction	(60)	CY	\$113.95	(\$6,837.00)	
#4	Additional Survey \$1500/Day	5	DAYS	\$1,500.00	\$7,500.00	
	Total Cost incurred				\$148,033.05	
	Additional Time to complete				53.2	Calendar Days

The schedule impacts incurred from the lack of proper design and utility conflicts have changed the nature of the project. PMI is currently re-baselining the project CPM to reflect this request and the changes in construction staging. It is PMI intent to reach an amicable solution moving forward to avoid any further setbacks. Please consider this request and respond with any questions or concerns. Feel free to contact me at <u>micah.shultzman@preferredmaterials.com</u> or by phone at 864-444-0149. Thank you for your time and consideration.

Respectfully,

Mit?

Micah Shultzman Project Manager

CC: Job File 761015 Jeffrey Andrews, OM APAC Robert Royal, AM APAC

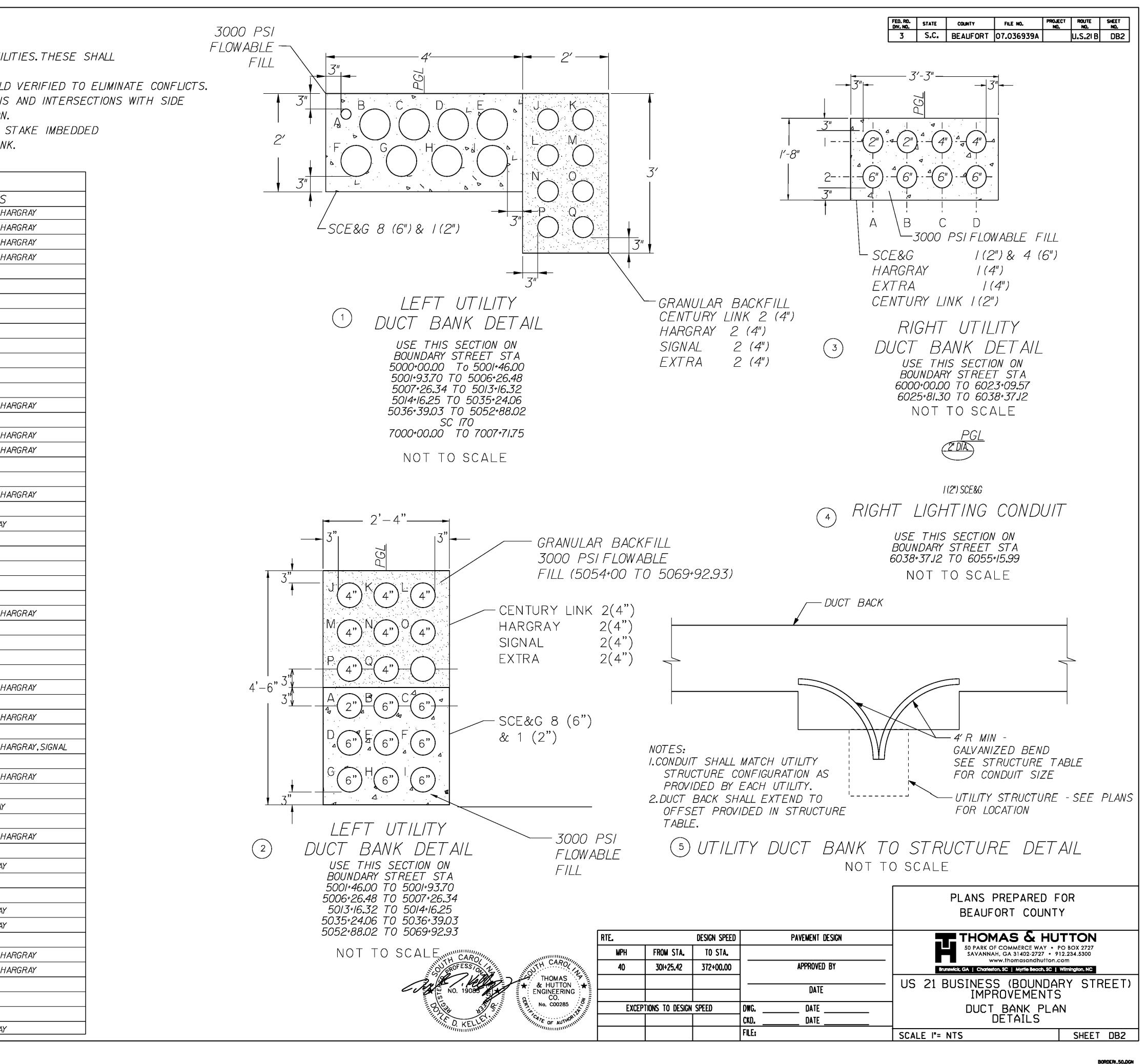
UTILITY DUCT BANK NOTES:

I. CABINET LOCATIONS SHOWN ON RELOCATION PLANS ARE SCEMATICS AS PROVIDED BY UTILITIES. THESE SHALL BE VERIFIED BY OWNERS PRIOR TO CONSTUCTION OF DUCT.

 2. DUCT BANK PROFILE ALIGNMENT AND EXISTING PIPES TO BE RETAINED SHALL BE FIELD VERIFIED TO ELIMINATE CONFLICTS.
 3. CONTRACTOR SHALL SUBMIT TRANSITION PLAN FOR CHANGES IN CONDUIT CONFIGURATIONS AND INTERSECTIONS WITH SIDE ROAD DUCT BANKS TO THE ENGINEER FOR APPROVAL 14 DAYS PRIOR TO INSTALLATION.
 4. ALL DRY UTILITY CONDUIT ENDS SHALL BE CAPPED AND MARKED WITH A STEEL REBAR STAKE IMBEDDED ONE (I) FOOT BELOW GROUND SURFACE AND ONE (I) FOOT OUTSIDE OF THE DUCT BANK.
 5. EXSTEND CONDUIT BEYOND PAVEMENT, CURB, AND SIDEWALKS.

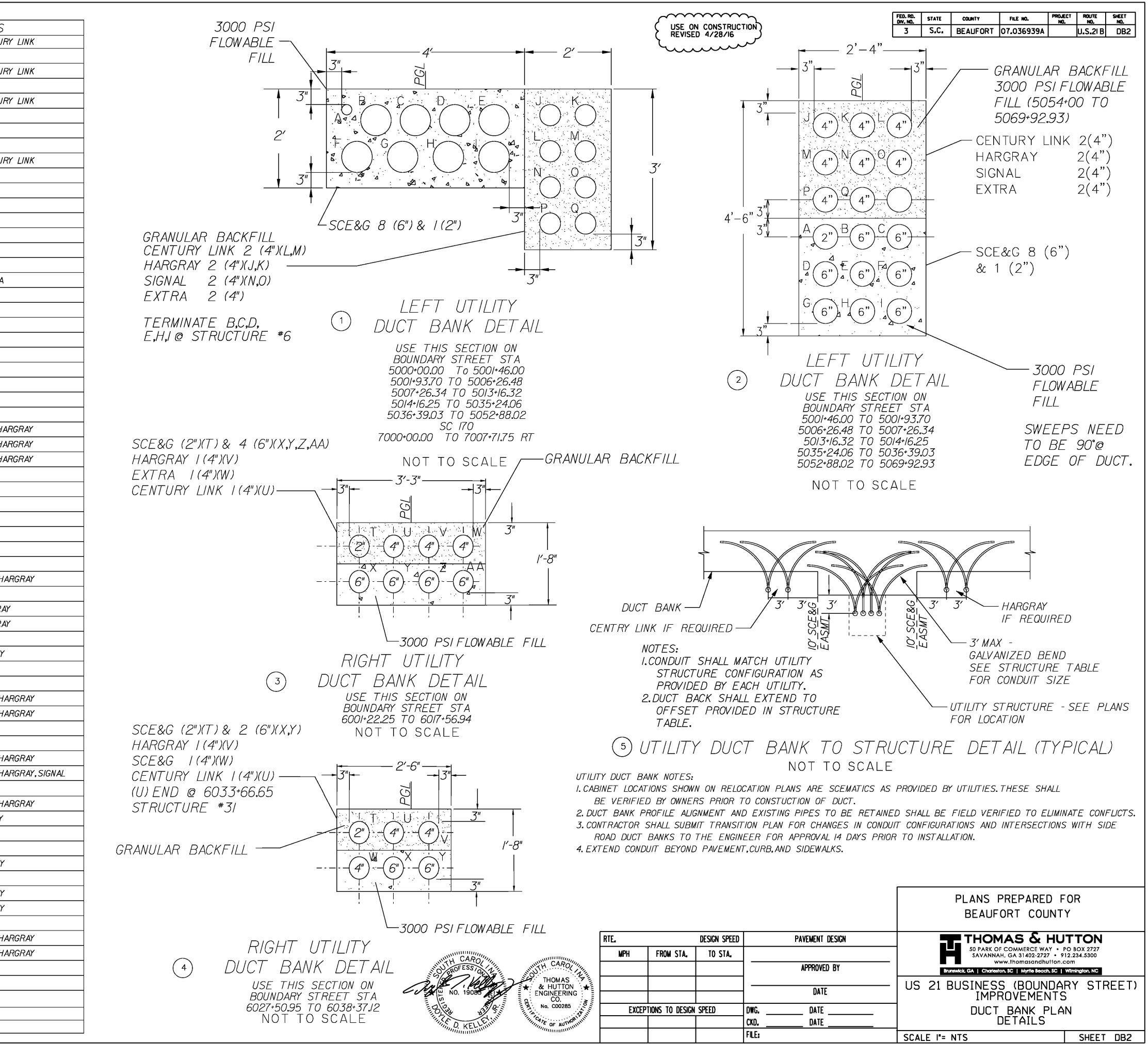
<u></u>			STRUCTURE TABLE	
STRUCTURE	STATION	OFFSET	CONDUIT	OWNERS
1	LT DUCT 5002+27	118' LT	J,K,L,M	SCE&G,CENTURY LINK,HA
2	RT DUCT 6003+79	7' RT	J, K, L, M	SCE&G,CENTURY LINK,HA
3	LT DUCT 5004+43	126' LT	J,K,L,M	SCE&G,CENTURY LINK,HA
4	LT DUCT 5005+94	253' LT	J, K, L, M	SCE&G,CENTURY LINK,HA
5	RT DUCT 6006+46	49' RT	J,K	SCE&G, HARGRAY
6	RT DUCT 6009+48	II' RT	N,0	SCE&G, SIGNAL
7	RT DUCT 6009+94	9' RT	J,K	HARGRAY
8	LT DUCT 5010+83	8′ LT	J,K	SCE&G, HARGRAY
9	LT DUCT 50/1+55	7' LT	L, M	CENTURY LINK
10	LT DUCT 5013+84	6' LT	J,K	HARGRAY
//	LT DUCT 5014+69	7' LT	J,K	SCE&G, HARGRAY
12	LT DUCT 5015+22	5' LT	L, M	CENTURY LINK
12A	LT DUCT 5016+85	7' LT	J,K	SCE&G, HARGRAY
13	LT DUCT 5018+05	8' LT	J, K, L, M	SCE&G,CENTURY LINK,HA
14	LT DUCT 5019+86	7' LT	J,K	SCE&G,HARGRAY
15	LT DUCT 5021+04	84' LT	J, K, L, M	SCE&G,CENTURY LINK,H
17	RT DUCT 6017+66	7′ RT	J,K,L,M	SCE&G,CENTURY LINK,HA
18	RT DUCT 6019+00	7′ RT	J,K	HARGRAY
19	RT DUCT 6022+55	7′ RT		SCE&G
20	LT DUCT 5023+53	97′ LT	J, K, L, M	SCE&G,CENTURY LINK,H
20A	LT DUCT 5025+31	7' RT	N,0	SIGNAL
21	LT DUCT 5026+31	5′ LT	J, K, L, M	CENTURY LINK, HARGRAY
22	LT DUCT 5026+82	5' LT		SCE&G
23	RT DUCT 6026+50	7′ RT	J,K	HARGRAY
24	RT DUCT 6027+51	7' RT	J,K	SCE&G, HARGRAY
25	LT DUCT 5028+35	7′ LT	J,K	SCE&G, HARGRAY
26	LT DUCT 5030+61	7′ LT	J,K	SCE&G, HARGRAY
27	LT DUCT 5031+67	7′ LT	J, K, L, M	SCE&G,CENTURY LINK,HA
28	RT DUCT 6028+85	7' LT	J,K	SCE&G,HARGRAY
29	RT DUCT 6031+67	7′ RT	J,K	SCE&G, HARGRAY
30	RT DUCT 6032+78	7′ RT	J,K	SCE&G, HARGRAY
31	RT DUCT 6033+80	7′ RT	J,K	SCE&G,HARGRAY
32	LT DUCT 5034+52	70' LT	J,K,L,M	SCE&G,CENTURY LINK,H
33	LT DUCT 5036+81	14' LT	J,K	SCE&G,HARGRAY
34	LT DUCT 5038+16	7' LT	J,K,L,M	SCE&G,CENTURY LINK,HA
35	RT DUCT 6035+67	7′ RT	J,K	SCE&G,HARGRAY
35A	LT DUCT 5040+63	7′ LT	J,K,L,M,N,O	SCE&G,CENTURY LINK,HA
36	LT DUCT 5042+22	7' LT	J,K	SCE&G, HARGRAY
37	LT DUCT 5043+49	8' LT	J, K, L, M	SCE&G,CENTURY LINK,HA
38	LT DUCT 5045+54	7′ LT	J,K	SCE&G, HARGRAY
39	LT DUCT 5049+00	8' LT	J,K,N,O	SCE&G, SIGNAL, HARGRAY
40	LT DUCT 5050+83	7' LT	J, K, L, M	HARGRAY
41	LT DUCT 5051+39	7′ LT	J, K, L, M	SCE&G,CENTURY LINK,HA
<i>4</i> /A	LT DUCT 5052+06	8' LT	J, K, L, M	SCE&G
42	LT DUCT 5053+33	7' LT	J, K, L, M	CENTURY LINK, HARGRAY
43	LT DUCT 5056+13	7′ LT	J,K	SCE&G, HARGRAY
44	LT DUCT 5058+72	23' LT	J,K	SCE&G, HARGRAY
45	LT DUCT 5059+49	7' LT	J, K, L, M	CENTURY LINK, HARGRAY
46	LT DUCT 5062+40	7' LT	J, K, L, M	CENTURY LINK, HARGRAY
47	LT DUCT 5062+74	7' LT	N,O	SIGNAL
48	LT DUCT 5063+37	7' LT	J, K, L, M	SCE&G,CENTURY LINK,H
49	LT DUCT 5066+85	7' LT	J, K, L, M	SCE&G,CENTURY LINK,H
<u> </u>	LT DUCT 5068+14	6' LT	J, K, N, O	SIGNAL, HARGRAY
50 5/	LT DUCT 5069+80	0 L1 7' RT	J,K,	HARGRAY
52	SCI70 7003+84	35' RT	J,K	SCE&G, HARGRAY
JL	30110 1003-04	<u> </u>	U _p /	JULAU, HANUNAI

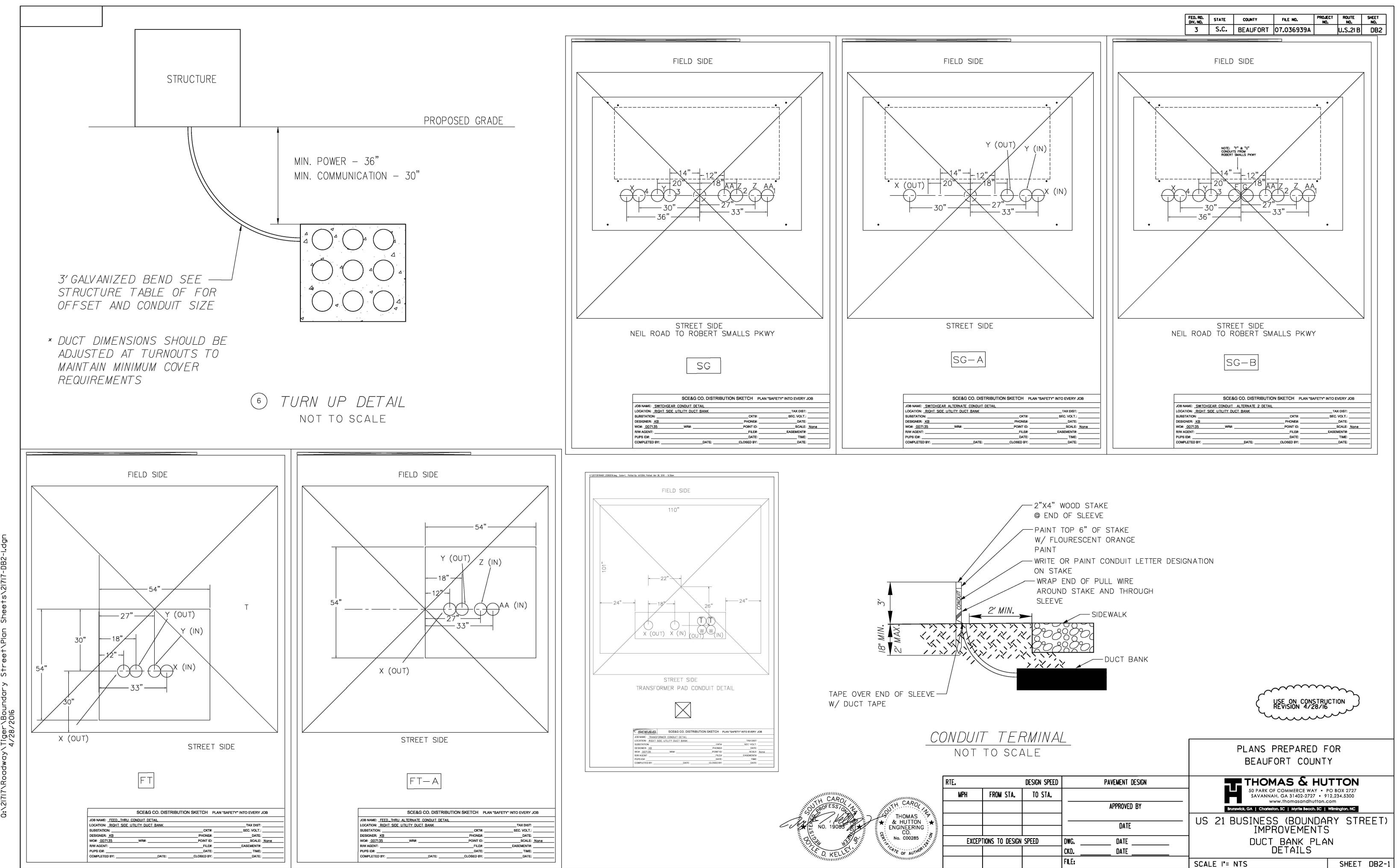
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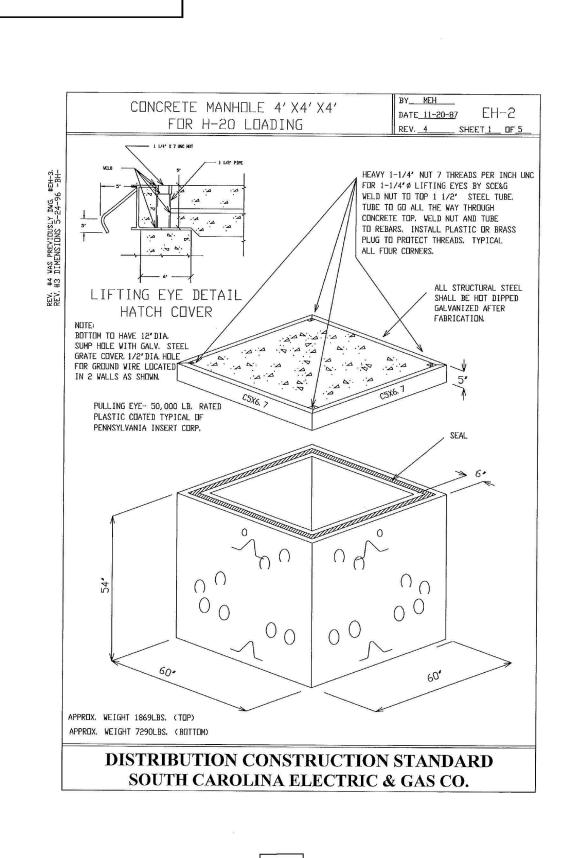


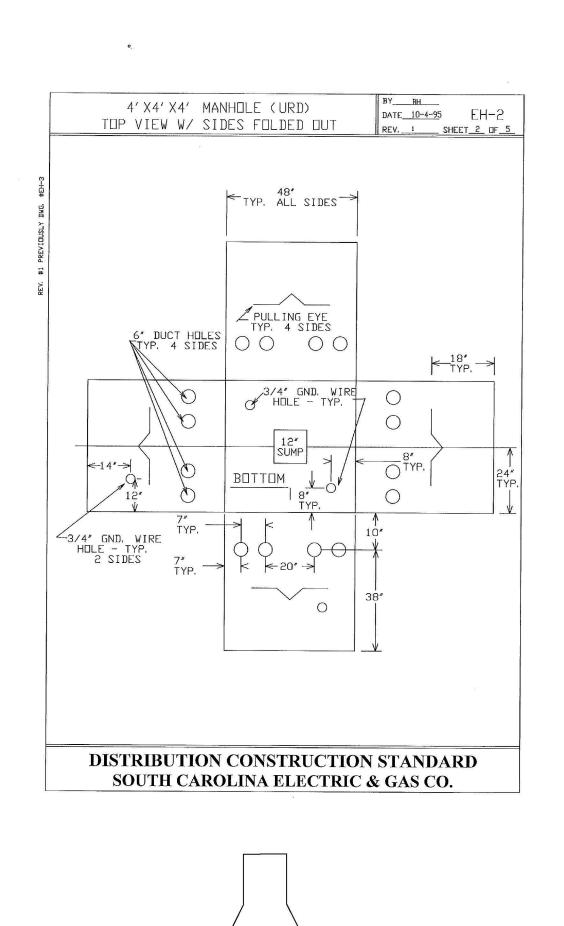
ST RUCT URE	STATION	OFFSET	CONDUIT	OWNERS
2	RT DUCT 6003+79	7′ RT	X,Y,Z,AA,W,U,V	SCE&G,HARGRAY,CENTUR
5	RT DUCT 6006+46	49' RT	Y,V	SCE&G, HARGRAY
6	RT DUCT 6009+49	8' RT	V,U,W,X,Y,Z,AA,F,G	SCE&G, HARGRAY, CENTUR
7	RT DUCT 6013+78	9' RT	V	HARGRAY
17	RT DUCT 6017+51	20' RT	V,X,Y,Z,AA,	SCE&G, HARGRAY, CENTUR
19	RT DUCT 6022+00	7' RT	<i>X,Y</i>	SCE&G
23 24	RT DUCT 6026+45 RT DUCT 6027+51	0' RT 7' RT	V	HARGRAY
28	RT DUCT 6028+69	16' RT	X,Y,V X,W,T	SCE&G, HARGRAY SCE&G, HARGRAY, CENTUR
20 29A	RT DUCT 6029+50	2' RT	V	HARGRAY
29	RT DUCT 6031+67	7' RT		HARGRAY
30	RT DUCT 6032+78	7' RT	X,W,T,V	SCE&G, HARGRAY
31	RT DUCT 6033+67	8' RT	X,Y,U	SCE&G,CENTURY LINK
3/A	RT DUCT 6034+57	7' RT	W	SCE&G
35	RT DUCT 6036+40	4' RT	V	HARGRAY
16	RT DUCT 6046+57	4' RT	V,X,Y	SCE&G, HARGRAY
<i>43</i> A	RT DUCT 6055+29	6′ RT	V,T,X,Y	SCE&G, HARGRAY, EXTRA
			LT SIDE STRUCTURES UNDER REVIEW BY SCE&G 4/28/16	
30	LT DUCT 5000+75	6' LT	A,B,C,E,F,J,K	SCE&G, HARGRAY
32	LT DUCT 5001+92	6' LT	A,B,E,F,H,I,L,M	SCE&G,CENTURY LINK
33	LT DUCT 5002+27	II8' LT	E,F,J,K	SCE&G, HARGRAY
34	LT DUCT 5004+43	126' LT	A,B,G,H,J,K,L,M	SCE&G,CENTURY LINK, HA
<u> </u>	LT DUCT 5005+94	253' LT	E.F.J.K.L.M	SCE&G,CENTURY LINK,HA
	LT DUCT 5005+91	7′ LT 7′ LT	A,B,C,D,E,F,I,J,K,L,M N,O	SIGNAL
38	LT DUCT 5010+83	8' LT	D,G,H,I,J,K	SCE&G, HARGRAY
39	LT DUCT 5011+55	7' LT	L,M	CENTURY LINK
40	LT DUCT 5013+84	6' LT	N,O	SIGNAL
41	LT DUCT 5014+69	7' LT	I,J,K	SCE&G, HARGRAY
42	LT DUCT 5015+22	5′ LT	L, M	CENTURY LINK
43	LT DUCT 50/6+85	7' LT	D,G,H,I,J,K	SCE&G,HARGRAY
44	LT DUCT 5018+05	8' LT	A,B,D,E,F,J,J,K,L,M	SCE&G,CENTURY LINK,HA
45	LT DUCT 5019+86	7' LT	J,K	HARGRAY
46 47	LT DUCT 5021+04	84' LT 97' LT	J, K, L, M J, K, L, M	CENTURY LINK, HARGRAY
41	LT DUCT 5025+31	9/ L/ 7' RT	N,O	SIGNAL
49	LT DUCT 5026+31	5' LT	J,K,L,M	CENTURY LINK, HARGRAY
50	LT DUCT 5028+35	7' LT	E,F,J,K	SCE&G, HARGRAY
51	LT DUCT 5030+61	7' LT	A,B,E,F,J,K	SCE&G, HARGRAY
52	LT DUCT 5031+67	7' LT	A,B,D,E,F,I,J,K,L,M	SCE&G,CENTURY LINK,HA
54	LT DUCT 5034+52	70° LT	D,J,J,K,L,M	SCE&G,CENTURY LINK,HA
53	LT DUCT 5034+37	7' LT	D,E,F,I	SCE&G
55	LT DUCT 5036+81	14' LT	E,F,J,K	SCE&G, HARGRAY
56	LT DUCT 5038+16	7′ LT	G,H,I,D,J,K,L,M	SCE&G,CENTURY LINK,HA
57	LT DUCT 5040+63	7' LT	E,F,J,K,L,M,N,O	SCE&G,CENTURY LINK,HA
58	LT DUCT 5042+22	7' LT	E.F.J.K	SCE&G, HARGRAY
59	LT DUCT 5043+49	8' LT	D,E,F,J,J,K,L,M	SCE&G,CENTURY LINK,HA
60	LT DUCT 5049+00	8' LT	E,F,J,K,N,O	SCE&G, SIGNAL, HARGRAY
61	LT DUCT 5051+26	7' LT 8' I T	D,G,H,I,L,M FFIY	SCE&G,CENTURY LINK
62 63	LT DUCT 5052+06 LT DUCT 5053+33	8' LT 7' LT	E,F,J,Y J,K,L,M	SCE&G CENTURY LINK,HARGRAY
65 65	LT DUCT 5055+35	20' LT	G,H,I,J,K	SCE&G,HARGRAY
66	LT DUCT 5059+49	20 Li 7' LT	E,F,J,J,K,L,M	CENTURY LINK, HARGRAY
67	LT DUCT 5062+40	7' LT	J, K, L, M	CENTURY LINK, HARGRAY
68	LT DUCT 5062+74	7' LT	D,I,N,O	SIGNAL, SCE&G
69	LT DUCT 5065+78	7' LT	A,B,D,E,F,I,J,K,L,M	SCE&G,CENTURY LINK,HA
70	LT DUCT 5066+85	7' LT	D,G,H,J,J,K,L,M	SCE&G,CENTURY LINK,HA
71	LT DUCT 5068+14	6' LT	J,K,N,O	SIGNAL, HARGRAY
72	LT DUCT 5069+80	7' RT	J,K	HARGRAY
91	SCI70 7003+84	35' RT	I,D,J,K	SCE&G, HARGRAY
51	-		_	

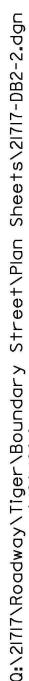
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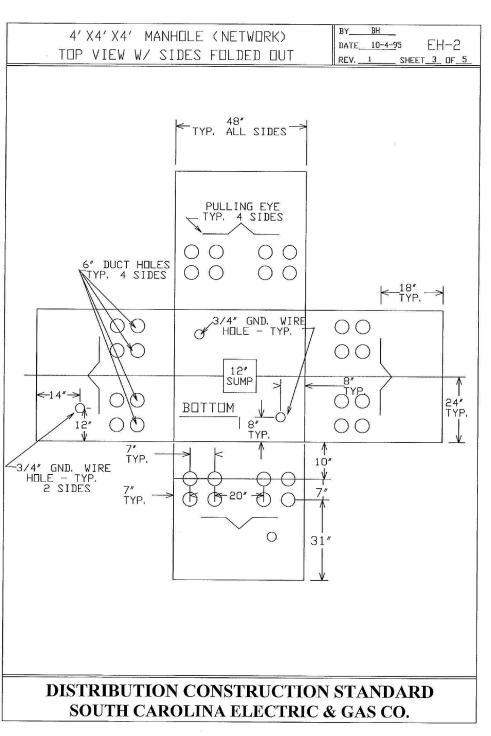


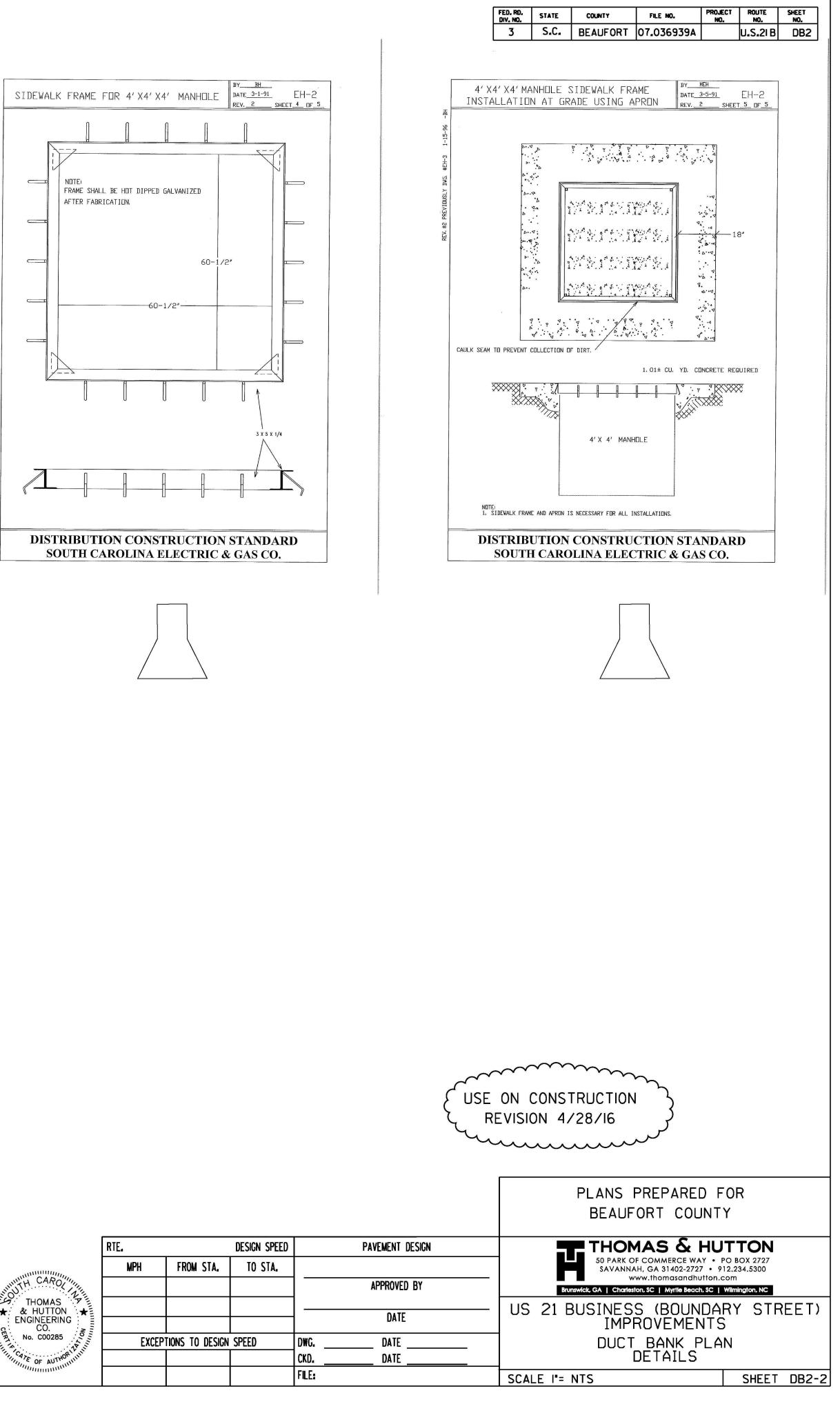




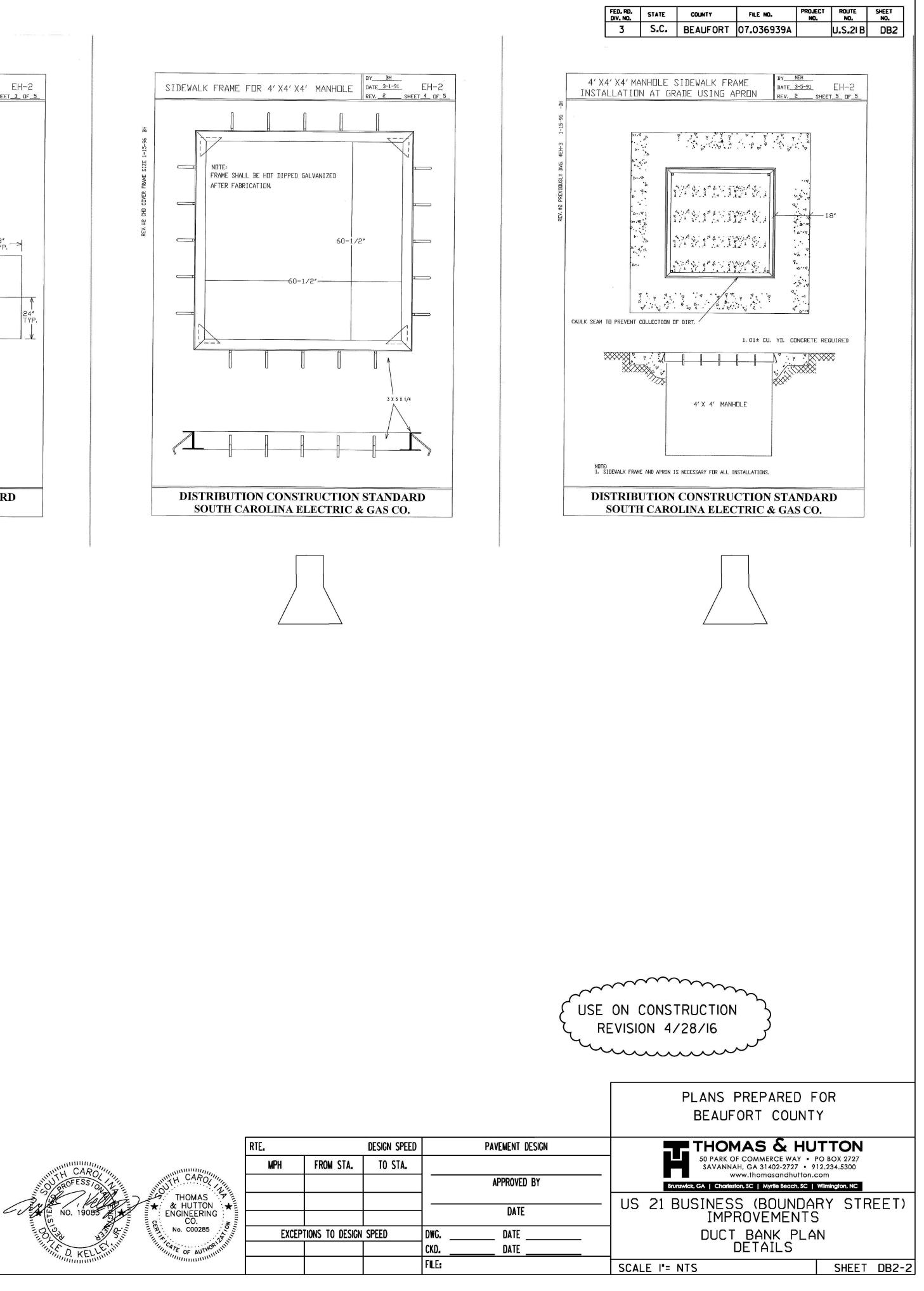


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BE VERH 2. DUCT BANN 3. CONTRACTO ROAD DUN 4. ALL DRY UT ONE (1) F	CATIONS SHOWN ON RELOX FIED BY OWNERS PRIOR T I PROFILE AUGUMENT AND R SHALL SUBWIT TRANSIT CT DAWKS TO THE ENGINI AUTY CONDUIT ENDS SHAR YOU T BELOW GROUND SURF CONDUIT BEYOND PAREVEN	O CONSTUCTION OF DUCT. D EXISTING PIPES TO BE RE ION PLAN FOR CHANGES IN EER FOR APPROVAL IN DAYS L BE CAPPED AND MARKED ACE AND ONE IN FOOT OUTS T.CURB, AND SIDEWALKS.	WITH A STEEL REBAR STAKE IMBEDDED	
STRUCTURE		STRUCTURE TABLE	OWNERS	
JINGUIGHE	U act 5002-21 13-17	LUNDON	SCENGCENTURY UNA, HARCHIN	
2	RT CUCT 6003-19 T RT	1414	SCENG.CENTURY LIXX, HARGAN	4 B C D
t	LT DUCT 1004-43 126'LT	LELV	SCENG.CENTURY LIXK. HARGRAY	-3000 PSI FLOWABLE FILL
	UT DUCT 5005-94 255"UT	ARLY	SCEBG.CENTURY LIKK, HARGRAF	
5	RT DUCT 6005-46 47 RT RT DUCT 6009-48 11 RT	1.4	SCEBG, HARCRAY	$\frac{1}{3}$
6	RT DUCT 6009-48 IF RT RT DUCT 6009-94 9 RT	<i>K.O</i> <i>J.K</i>	SCEBG, SAGNAL HARGRAY	
	17 DUCT 500-85 8 LT	2K	SCEEG.HARGRAY	CENTURY LINK 2 (4)
9	LT DUCT SOUNSS T'LT	LU	CENTURY UNK	UUCI BANK DETAIL HABGRAY 2 (4) RIGHT UTILITY
10	LT DUCT 5013-84 6'LT	1.K	HARGRA	USE THIS SECTION OF SIGNAL 2 (4) (3) DUCT BANK DET ALL
"	LT CUCT 501469 PLT		SCERG.HARGRAY	USE THIS SECTION OV BOUNDARY STREET STA 5000-0000 To 500-6600 5000-1310 TO 500-6600 5000-1310 TO 500-6648 5000-6010 TO 500-8648 500-6611 TO 500-8648 500-6612 TO 500-8648
12	17 arct 505-22 5'17		CENTURY LIXA	5007-621 TO 5005-6248 BOUNDARY STREET STA 5007-621 TO 5005-643 5000-6021-0025/
12A 13	LT DUCT 506-85 T'LT LT DUCT 508-05 B'LT	1×	SCEBG.HARDRAD SCEBG.CENTURY UNI,HARDRAD	500+6354 10 505-612 500+625 10 505-7406 6025-8130 10 6039-3772
	17 0007 50925 7117	18	SCENCENTER DIVERSION	SOIS-JADA TO SCALE NOT TO SCALE
/5	LT DUCT 502404 54" LT	LKLU	SCENGCENTURY LINK, HARGRAY	7000-00.00 TO 7007-7175 PGI
7	RT DUCT 60146 T'RT	TUTA	SCENG CENTURY UNK, HARGAN	NOT TO SCALE
18	RT DUCT 6019-00 T- RT	1.K	HARGRA	NOT TO SCALE
	RT DUCT 6022-55 T RT LT DUCT 5023-53 97 LT	TKTN	SCERG SCERGCENTURY UNK, HARCRAY	112752846
20	LT DUCT 5023-53 97 LT LT DUCT 5025-51 7" RT	1K.L.W	SIGNAL	
2/	LT DUCT 5026-51 5'LT	JKLW	CENTURY LINK, HARGRAY	
22	LT EVET 5026-82 5'LT		SCERG	-3 13 - GRANULAR BACKFUL USE THIS SECTION ON
23	RT OUCT 6026-50 T. RT	7%	HARGRAY	GRANULAW BANKATILL BOWNDARY STREET STA 3000 PSI FLOWABLE 6036-51/2 TO 6056-569
24	AT DUCT 6027-54 T' RT	71	SCEBG, HARGRAY	5 FILL (5054-00 TO 5069-92.93) NOT TO SCALE
25	LT DUCT 5028-35 T LT LT DUCT 5030-67 T LT	74	SCERG HARGRAY	
20	17 DUCT 503-67 717	14	SCENGENTURY UNCHARGAN	CENTURY LUNK 2(4")
28	RT DUCT 6029-85 717	1.	SCENGHARGAN	
29	RT DUCT 603HET T'RT	4.K	SCENGHARGAN	SIGNAL 2(4")
32	RT DUCT 6032-78 T RT	74	SCEBG.HARGRAF	$ = P \bigcirc Q \bigcirc Q \bigcirc E \times IRA = 2(4^{-}) + $
3/	RT CUCT 6033-80 T. RT	1.4	SCENC, HARGAN	
32	17 DUCT 5054-52 TO LT	18	SCEBGLENTURY UNK, HARGRAY	
55	17 DUCT 5038-6 7 LT	J.K.L.W	SCEBGCENTURY UNK.HARGRAY	
35	RT DUCT 6035-67 T' RT	7.4	SCEBG.HARGRAY	
354	LT DUCT 504063 7"LT	J.K.L.W.H.O	SCENGLENTURY UNK, HARGRAY, SIGNAL	NOTES: VI GALVANIZED BEND
36	UT DUCT 5042-22 TUT	18	SCEBG, MARGAAT	G H STRUCTURE CONDUCT SHALL WATCH UTILITY SEE STRUCTURE TABLE
37	LT DUCT 5045-49 B LT	1xLW	SCEBGLERTURY UNK, MARCRIN SCEBG, MARCRIN	PROVIDED BY EACH UTILITY.
	17 DUCT 5049-00 8 17	44.8.0	SCERCHARCHER SCERC SCHL HERCHER	2.DLCF BIZK SHALL EXTERD TO "UTILITY STRUCTURE -SEL OFFSET PROVIDE IN STRUCTURE - FOR UCATION
40	17 DUCT 5050-83 T' LT	141.4	HAPCALY	
4/	17 DUCT 505+59 TUT	24.44	SCENGCENTURY LINK, HANGRAY	
41	17 DUCT 5052406 8 LT	LKLV	SCERE	ULLIY DUCT BANK DETAIL FLOWABLE ULLIY DUCT BANK TO STRUCTURE DETAIL
42	11 OUCT 5053-33 P 17	LALU	CENTURY LINK, HARGRAY	USE THIS SECTION ON FILL NOT TO SCALE
43	17 DUCT 5056-13 P LT 17 DUCT 5058-72 25 LT	18	SCEBO, HARGRAY SCEBO, HARGRAY	500+4500 10 500+9370
44	17 DUCT 5059-49 T'LT	161.9	CENTURY UNK, HARGRAY	5005-26.48 TO 5007-26.34 PLANS PREPARED FOR 5013-16.32 TO 5014-16.25 BEAUFORT COUNTY
	LT DICT 5062-40 T'LT	TYTA	CENTURY UNK, HARGRAF	5035-2406 70 5036-3903
47	LT CUCT 5062-74 T'LT	H.O	SIGNAL	5052-88.02 70 5069-92.93 III. III. III. III. III. III. III. I
48	LT DUCT 5063-57 PLT	1.K.L.V	SCEBG, CENTURY UNK, HARCHAY	NOT TO SCALE WITH THE STALE IS STALE
- 13	17 DUCT 5066-85 7 LT	LALV	SCENG,CENTURY UNA,HARGRAD	THE REAL PARTY OF THE PARTY OF
50	17 DUCT 5068-14 6'LT	LAND	SIGNAL HARGRAY	US 2I BUSINESS (BOUNDARY S
<u> </u>	17 DUCT 5069-80 P RT	18	HARGRAY	Star Star Contrast in asses star inc. the DUCT BANK PLAN
52	SCITO TO03-54 35' RT	1 4 6	SCERG, HAPGRAY	

.

		STRUCTURE TABLE		
STRUCTURE	STATION OFF		ÓWNERS	
2	RT DUCT 6003-79 7-1	T XYZAANUY	SCEBG.HARGRAT.CENTURY LINK	FLOWABLE
5	RT DUCT 6006-46 49	T YY	SCEBG,HARGRAY	
6	RT DUCT 6009-49 81	T VUNISIZANEG	SCELG, HARGRAY, CENTURY LINK	
7	HT DUCT 6013-78 91	7 V	HARCRAY	
7	RT DUCT 6017-51 207	T VIJZAL	SCEAG. HARGRAT. CENTURY LINK	
1	NT DUCT 6022-00 TT	17	SCELG	
25	RT DUCT 6026-45 07	7 V	HARGRAY	
24	AT DUCT 6027-51 TH	1 111	SCENG.HARGRAY	
28	AT DUCT 6020-69 61	7 3.83	SCEAG, HARGRAF, CENTURY LINK	$\neg \qquad $
29A	RT DUCT (029-50 21	7 V	HARCRAY	
29	RT DUCT 603+67 7 F	r v	HARGRAY	
30	RT DUCT (032-78 TH	T XWJY	SCERG, HARGRAV	
	RT DUCT 6033-67 81		SCENG.CENTURY LINK	
ALE	RT DUCT 6034-57 7 F		SCEAG	
35	AT DUCT 6036-40 4 F		HARCRAY	
	RT DUCT 6046-57 + F		SCELCHARCRAY	
434	RT DUCT 6055-29 6 F		SCEBG. HANGRAY, EITRA	$ \begin{array}{c} 1 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\$
				EXTRA 2 (47)
	<u> </u>			- LEFT UTILITY $
11	¦────│ ──		+	
				EHIO STRUCTURE 5 0000 BRAN DETRIE
1		LT SOE STRUCTURES UNDER REVER BY SCENE 4/28/16		USE THIS SECTION ON
			·····	BOWNDARY STREET STA BOWNDARY STREET STA SOCORDE LO SOUTHER STA SOCORDE LO SOUTHER STA SOCORDE LO SOUTHER STA
 		100000		- 5000-000 To 500-16600 5000-91/0 TO 500-16600 5000-91/0 TO 5000-2660 5000-91/0 TO 5000-2660 O DUCT BANK DETAIL FINAN
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34	LT DUCT 5004-43 126		SCEBG.CENTURT LINK, MARGRAT	1000000 TO 2022/21/25 BT 5000/26.34 SWEEPS
35	LT DUCT 5005-94 25.5			36280 12 XT / 4 / 10 XX / 2 / 40 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10
36	UT DUCT 5005-9 71		SCERG.CENTURY LINK, MARGRAY	INVIOUS TO SCALE / UNVIOLIN DICITILE 5052-8802 TO 5054-9291 EDGE UP
37	LT DUCT 5008-09 TL		SIGNAL	CENTRA (147XV)
39	LT DUCT 5010-83 8 1		SCEBG, HARGRAV	CENTURY LINK 1147XU)
	LT DUCT SOUNSS T'L		CENTURY UNK	
	LT DUCT 5013-84 6 0		SIGNAL	
#	LT DUCT 5014-69 7 1		SCEEG.HARGRAY	
42	LT DUCT 50:5-22 5'1		CENTURY UNK	
- 43	LT DUCT 5016-85 T L		SCEEG.HARGRAY	
	LT DUCT 5018-05 81		SCEBG.CENTURY LINK, HARGRAY	
- 45	LT DUCT 5019-86 7 1		HARCRAY	
	LT DUCT SOZHON EF.		CENTURY UNK, HARGRAY	
4	LT OUCT 5023-53 97		CENTURY UNK, NARGRAY	
43	UT DUCT 5025-34 7 P		5.044	- 3000 PSI FLOWABLE FILL NOTES: 0.2 5 WAS
49	LT DUCT 5026-31 51		CENTURY UXK, HARGRAT	
50	LT DUCT 5028-35 T 1		SCEEG.HARGRAT	AND THE OTHER THE AND THE SEE STRUCTURE TAR
5	LT DUCT 5030-61 TT		SCERGHARGRAY	DOCT BAINT DELTAIL PROVIDED BY EACH UTILITY.
52	LT DUCT 503+67 T L		SCERG.CENTURY UNK, HARGRAY	
54	LT DUCT 5034-52 70		SCEEG.CENTURY UNA, HAPGRAY	BOUNDARY STREET STA COPYSET PROVIDED IN STRUCTURE UTILITY STRUCTURE SEE
53	LT DUCT 503+37 TL		SCERC	SCE&G (ZXT)& 2 (GXX) NOT TO SCALE
55	LT DUCT 5036-61 141	EFJK	SCEEG.HARGRAY	ANARGEN INTERNET
56	LT DUCT 5038-16 T L	GNUDURIN MINIDURI	SCENG.CENTURY LINK, HARGRAY	
57	LT DUCT 5040-63 7 L	CF.J.KLNKD	SCEAG.CENTURY LAN, HARGRAY, SIGNAL	CENTRY UNK (147KU)
58	UT EUCT 5042-22 FE		SCEBG.HARGRAF	UNEND & 6033-66.65
59	17 DUCT 5043-49 8 1		SCEBG.CENTURY LINK, HARGRAY	DE VERFIED BY OWNERS PADE TO CONSTUCTION OF DECT.
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	LT DUCT 5052-06 B L		SCENG	GRANULAR BACKFILL
63	LT DUCT 5053-33 TL		CENTURY LINK, HARGRAY	
65	LT DUCT 5056-15 207		SCEAG, HARGRAY	
65 66	17 DUCT 5059-49 7 L		CENTURY LINK, HARGRAY	
62 6J 65 65 66 67	17 DUCT 5052-40 7 L		CENTURY LINK, MARGRAY	PLANS PREPARED FOR
· · · · · · · · · · · · · · · · · · ·				BEAUFORT COUNTY
68	LT DUCT 5062-14 TL		SIGNAL, SCEBG	- 3000 PSI FLOWABLE FILL
69	17 DUCT 5065-78 7-1		SCENG.CENTURY LINK, HARGRAY	
70	17 DUCT 5066-85 TL		SCENG CENTURY LINK, HARGRAY	
71	LT DUCT 5068-14 6 L		SIGNAL, HARCRAY	DUCT BANK DET AIL
12	LT DUCT 5069-80 T'A		HARGRAY	USE THIS SECTION ON BOUNDARY STREET STA
94	SC/70 7003-84 35		SCEBG, HARGRAY	
- 90	SC1/0 1000-00 0	IDJK	SCE &G.HARGRAT	6627:50.95 TO 6038-37/2 BBANK PLAN

.



COUNTY COUNCIL OF BEAUFORT COUNTY PURCHASING DEPARTMENT

106 Industrial Village Road, Bldg 2, Post Office Drawer 1228 Beaufort, South Carolina 29901-1228

David L. Thomas, Purchasing Director <u>dthomas@bcgov.net</u>, 843.255.2353

TO: Councilman Gerald Dawson, Chairman, Public Facilities Committee

FROM: Dave Thomas, CPPO, Purchasing Director

SUBJ: Request to Purchase a replacement Excavator from the National Joint Powers Association Cooperative Contract (NJPA) for Beaufort County's Public Works Department, Stormwater Section

DATE: November 21, 2016

BACKGROUND: The Purchasing Department received a request from the Director of Public Works to purchase one new 2017 CAT Model 325FCR Excavator from Blanchard CAT, Columbia, SC, a certified NJPA cooperative contract vendor, for the Stormwater Section. The new equipment is a replacement for a 2005 Volvo EC290 assigned to the Public Works Department, with over 4,896 hours of operation. The Stormwater Section utilizes the excavator to install underground infrastructure, clean channels, remove debris, etc. The old excavator will be traded in for \$23,000. Total cost of \$223,126 includes all discounts, trade-ins, delivery, SC sales tax; manuals, cleaning bucket, and a one year/1,500 hour powertrain and hydraulics warranty (see the attached price quote).

NJPA CONTRACT VENDOR INFORMATION:	COST
Blanchard CAT, Inc., Columbia, SC	\$223,126

FUNDING: Account #50250011-54200, Stormwater Specialized Capital Equipment Current balance is \$810,000.

FOR ACTION: Public Facilities Committee meeting on November 21, 2016.

<u>RECOMMENDATION</u>: The Purchasing Department recommends that the Public Facilities Committee approve and recommend to County Council the contract award of \$223,126 to purchase one new 2017 CAT Model 325FCR excavator from the aforementioned vendor in support of Public Works operations.

Attachment: Pricing Information

cc: Gary Kubic, County Administrator Joshua Gruber, Deputy County Administrator/Special Counsel Alicia Holland, Assistant County Administrator, Finance Eric Larson, Environmental Engineer



Quote 117874-01

November 9, 2016

BEAUFORT COUNTY GOVERNMENT-PUBLIC WORKS and MAINTENANCE 120 SHANKLIN ROAD BEAUFORT, SC 29901

Attention: CHAD STANLEY

Dear Chad,

We would like to thank you for your interest in our company and our products, and are pleased to quote the following for your consideration.

One (1) New CAT Model: 325FCR Excavators with all standard equipment in addition to the additional specifications listed below:

. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Ryan Luthren Machine Sales Representative

One (1) New CAT Model: 325FCR Excavators with all standard equipment in addition to the additional specifications listed below:

STANDARD EQUIPMENT

POWERTRAIN-Diesel engine, CAT C4.4 Twin Turbo-down function-certified to EPA Tier4 Final,-Three stage fuel filtration system with-EU Stage IV, MLIT 2014-water separator and indicator-- Three selectable power modes-3000m (9840ft) altitude capability-capability; HHP, STD and ECO-without de-rate-- After-treatment system: CEM (DOC-52 deg. C (126F) high ambient cooling-+ DPF + SCR) and DEF System-capability with de-rate from-(DEF Tank and DEF Lines)-48 deg. C (118F)-Variable fan speed control with-85 amp. Alternator-viscous clutch-Radial seal air filter with double-One touch low idle with Automatic Engine-filter element-speed Control (AEC)-Electric fuel lifting pump-Automatic (programmable) idling shut-Capability of using Bio-Diesel fuel(B20)

UNDERCARRIAGE-HD track rollers-(ISO 15818 compliant)-Grease lubricated track link-Swivel guard-Tie down points on base frame

HYDRAULICS-Electric boom regeneration circuit-Reverse swing damping valve-Stick regeneration circuit-High performance hydraulic return filter-One touch lifting mode-(Capsule filter type)-Automatic two speed travel-CRN compliant accumulator-Boom and stick drift reduction valve

ELECTRICAL-Maintenance free battery-working lights (halogen); Base machine-Centralized electrical disconnect switch-frame (one), Cab mounted (two),-CAT Product Link-Boom mounted both sides (two)-90 seconds programmable time delay

OPERATOR ENVIRONMENT-CAB:-distortion free rear view camera-Sound suppressed ROPS cab (ISO 12117-2-picture-compliant) with viscous mount-Automatic bi-level air conditioner with-Openable skylight as emergency exit-pressurized function-(Dual exit hatch)-24V radio ready (1DIN size, stereo-Openable laminated front upper-speakers, antenna-flexible type)-windshield w/ assist device-12V x 2 power supply with sockets-Removable tempered lower windshield-(Maximum 10 amp.)-with in cab storage bracket-Roll Down Sun Screen, Washable Floormat-High back seat with air suspension, seat-Interior utilities (Interior lighting,-heater and head rest-Coat hook, Beverage holder, Literature-Fully adjustable seat, console and armrest-holder, Document holding space, and-51MM (2") width seat belt-Cab rear storage compartment)-Full graphic 7inch LCD monitor, with

SAFETY AND SECURITY-Rearview camera with three mirrors-Anti-skid Plate-(ISO 5006 compliant) and one additional-Neutral lever(lock out)for all controls-hand rail mirror for right rear view-Ground level accessible secondary engine-RH Hand rail and hand hold (ISO 2867-shutoff switch in cab-compliant)-Signaling/ Warning horn, Jump Start Stud-Bolt free service platform with-Safety hammer for cab evacuation

OTHER STANDARD EQUIPMENT-Engine oil, Fuel, and Hydraulic oil-located separately)-filters grouped for ease of-Sampling ports for Scheduled Oil-maintenance (Secondary fuel filter is-Sampling (S.O.S)

MACHINE SPECIFICATIONS

Description 325F L CR HEX AM-N/ANZ BCF2 LANE 2 - AVAILABLE FROM AKASHI FACTORY LANE 3 - AVAILABLE FROM AKASHI FACTORY

Base machine with BLCV/SLCV for reach boom configuration. Well suited for general applications in a limited space requiring Compact Radius machines, and those requiring BLCV/SLCV.

INCLUDES:

451-5808 325F L CR HYD EXCAVATOR 507-5716 325F L CR STANDARD ARRANGEMENT STANDARD OIL **ROLLERS, HEAVY DUTY** ACCUMULATOR WITH CRN CAB-ROPS,70/30,W/VANDAL-G BOSS SEAT, H-BACK, W/HEATER, S/AIR **SEAT BELT, 51MM (2")** HATCH, OPENABLE ROOF (DUAL) WIPER-RADIAL, 70/30 W/O LOWER WASHER, WINDSHIELD W/O LOWER AIR CONDITIONER PANEL, STD START SWITCH **MIRROR, W/O GUARD** HOOD, ENGINE COVER, FRONT RIGHT SIDE **GUARD, TRACK MOTOR** FAN, VARIABLE **SUN SCREEN (70/30)** LIGHTING, CAB (HALOGEN) **GUARD, SWIVEL** 508-7674 LINKAGE, BKT-B1 W/LIFT EYE 452-0151 CONTROL, FINE SWING 352-6832 COVER BLOCK and MOUNTING (BLCV) 352-6834 COVER BLOCK and MOUNTING (SLCV) 450-9255 CYLINDER, R-BOOM (W/BLCV) 341-2803 CYLINDER, STICK SLCV 451-5238 LINES, CYLINDER BOOM BLCV 451-5245 PILOT LINES, SLCV STD 451-5249 PILOT LINES, BOOM STD 451-5253 PILOT LINES, BKT OPEN 496-8191 RADIO, 24V AM/FM

452-0150 CAMERA, REAR VIEW, MIRRORS RH 459-5100 TANK, FUEL, STD 452-0113 DEVICE, BOOM LOWERING CONTROL 452-0114 DEVICE, STICK LOWERING CONTROL 231-1771 ALARM, TRAVEL

NOTE: For AM-N, AM-S (Puerto Rico only) and ANZ TIP, PENETRATION PLUS BUCKET-HD, 48" 1.56 YD3 SIDECUTTERS, HEAVY DUTY COUPLER, PIN GRABBER B1 W/PINS COMBINED CIR STP PKG 72" DITCH CLEANING BUCKET

List Price	\$285,982
Less NJPA Discount (18%)	-\$51,476
Additional Discount	-\$9,000
Less Trade in Volvo EC290 HEX	-\$23,000
Freight & Prep	\$5,500
Manuals	\$850
3 year/3500 hour Powertrain + Hydraulics Warranty	\$1,640
SC Sales Tax (6%)	\$12,933.36
Total Investment	\$223,125.76

WARRANTY

Standard Warranty: 12 Month/1,500 Hour Standard Warranty

F.O.B/TERMS

Heavy Columbia

Accepted by_____ on _____

_

Signature



COUNTY COUNCIL OF BEAUFORT COUNTY BEAUFORT COUNTY ENGINEERING DEPARTMENT 104 Industrial Village Road, Building #3, Beaufort, SC 29906 Post Office Drawer 1228, Beaufort, SC 29901-1228 Telephone: 843-255-2700 Facsimile: 843-255-9420

TO:	Councilman Gerald Dawson, Chairman, Public Facilities Committee
	GKUBIC
VIA:	
	Gary Kubic, County Administrator Josh Gruber, Deputy County Administrator <i>H</i>
	Tom Keaveny, County Attorney de Eric Larson, PE, Division Director for Environmental Engineering & Land Management
	Eric Larson, PE, Division Director for Environmental Engineering & Land Management
	David Wilhelm, PE, County Public Works Director Drw
FROM:	Robert McFee, PE, Division Director for Construction, Engineering & Facilities

SUBJ: Spanish Moss Subdivision, Phase I Right of Way and Drainage Acquisitions for Tax Map Number R200 006 000 0394 000 and R200 006 000 0397 0000.

DATE: October 27, 2016

BACKGROUND. Spanish Moss Subdivision is a residential community on Lady's Island. The subdivision's development was divided into Phase I and Phase II. Both Phases I and II dedicated roads and drainage to Beaufort County by reference in the recorded plats in the Office of the County Register of Deeds. Phase I is dated October 27, 2000 in Book 76 at Page 119. Phase II is dated January 19, 2010 in Book 129 at Page 171.

The Beaufort County Attorney accepted conveyance of Phase II roads (drainage was not included) in the recorded deed dated December 21, 2011 in Book 3106 at Pages 2684-2686 in the Office of the County Register of Deeds.

Beaufort County Stormwater Department has received numerous requests to help resolve drainage issues in the Spanish Moss Phase I Subdivision. The Phase I subdivision does not have a Homeowner's Association which has impeded the County efforts to obtain easements to perform the needed drainage work. The County was able to acquire a notarized deed conveying right of way of streets, cul de sacs and drainage easements originally dedicated to the County and is provided in Attachment #1.

Attachment #2 is a draft County Council Resolution accepting the streets, cul de sacs, drainage easements and pond from Spanish Moss Phase I Subdivision. County Public Works inspected the Phase I roads on September 15, 2016 and determined that the surface condition of the roads is acceptable given the age of the roads. It was noted that one pipe crossing on Fig Drive is slightly depressed and may need to be excavated, re-compacted and paved within the next year or two (see Attachment #3 pictures).

FOR ACTION. Public Facilities Committee Meeting on November 21, 2016.

<u>**RECOMMENDATION</u></u>. The attached draft County Council Resolution for the acceptance into the County's maintenance inventory of the streets, cul de sacs, drainage easements and pond for Spanish Moss Phase 1 Subdivision is presented to the Public Facilities Committee for discussion and consideration.</u>**

JRM/PLW/mjh PLL

- Attachments: 1) Phase 2 Notarized Deed
 - 2) Draft Resolution with Plat & Map
 - 3) Pictures for Fig Drive

ROW/SpMossPh1convey/PFC1116

STATE OF SOUTH CAROLINA

COUNTY OF BEAUFORT

QUITCLAIM DEED

Project: Spanish Moss Subdivision, Ph.1 - Right-Of-Way and Drainage Easement acquisition

))

)

KNOW ALL MEN BY THESE PRESENTS, THAT I Ralph M. Bailey, Jr., for and in consideration of the sum of Ten and No/100 Dollars (\$10.00) to me in hand paid at and before the sealing of these presents by **Beaufort County**, Post Office Drawer 1228, Beaufort, South Carolina 29901-1228, the receipt whereof is hereby acknowledged, have remised, released and forever quit-claimed, and by these presents do remise, release and forever quit-claim unto the said **Beaufort County**, its successors and assigns forever, all of my right, title and interest in and to the following described real property, to wit:

All those certain parcels or rights-of-way situate, lying and being in Spanish Moss Subdivision, Phase 1, known as Mary Elizabeth Drive, Fig Drive, Spanish Moss Drive, and the cul de sacs therewith. Said parcels or rights-of-way are more particularly show on a plat prepared by Robert A. Warner, R.L.S. No. 15177, dated October 15, 2000, and recorded in Beaufort County Register of Deeds Office in Plat Book 76 at Page 119.

Also, any and all rights and interests in the drainage easements, including the pond, shown on the previously cited plat (PB 76/119).

TMS # R200 006 000 0394 0000

TOGETHER with all and singular, the rights, members, hereditaments and appurtenances to the said premises belonging or in anywise incident or appertaining.

TO HAVE AND TO HOLD all and singular the premises before mentioned unto the said **Beaufort County**, its successors and assigns forever.

Approved by	Beaufort County
7	Dr.
Legal	Department

Page 1 of 3

WITNESS the hand and seal of the Grantor this 3^{10} day of 3^{10} day of

WITNESSED BY:

Witness #2

GRANTOR Kalph M. Bailey,

STATE OF South Carolina COUNTY OF

I, the undersigned Notary Public, do hereby certify that Ralph M. Bailey, Jr. personally appeared before me this day and, in the presence of the two witnesses above named, acknowledged the due execution of the foregoing instrument.

day of lucies t 2016. Witness my Hand and Seal, this BAKER GOOL April 3, 2010

RESOLUTION NO.

A RESOLUTION AUTHORIZING COUNTY ADMINISTRATOR TO ACCEPT INTO COUNTY SYSTEM ROADS, DRAINAGE EASEMENTS AND POND IN SPANISH MOSS SUBDIVISION

WHEREAS, Spanish Moss Subdivision, Phase 1 is a residential community on Lady's Island in Beaufort County; and

WHEREAS, the subdivision includes several streets, cul de sacs, drainage easements and a pond all of which appear on the Beaufort County Tax Map as parcel number R200 006 000 0394 0000 and a portion of R200 006 000 0397 0000; and

WHEREAS, construction of the neighborhood began in and around 2000 and was completed in the years thereafter but the streets, cul de sacs, drainage easements and pond, all as highlighted on the attached plat and Exhibit "A", were not conveyed to Beaufort County; and

WHEREAS, Beaufort County has accepted the streets in Phase 2 of Spanish Moss Subdivision; and

WHEREAS, the Spanish Moss Subdivision, Phase 1 does not have a homeowner's association, property owner's association or other organization which can or does maintain the streets, cul de sacs, drainage easements or pond; and

WHEREAS, construction of the subdivision is complete, but the roads, cul de sacs, drainage easements and pond in Phase 1 have not been conveyed to the County and the developers of the subdivision wish to convey them into the County system now for the health, benefit, safety and general welfare of the residents.

NOW, THEREFORE, BE IT RESOLVED that the County Administrator is hereby authorized to accept into Beaufort County's system the streets, cul de sacs, drainage easements and pond at Spanish Moss Subdivision, Phase 1 more particularly described as parcel number R200 006 000 0394 0000 and a portion of R200 006 000 0397 0000, as highlighted on the attached plat and Exhibit "A".

ADOPTED this _____ day of _____, 2016.

BEAUFORT COUNTY, SOUTH CAROLINA

D. Paul Sommerville, Chairman

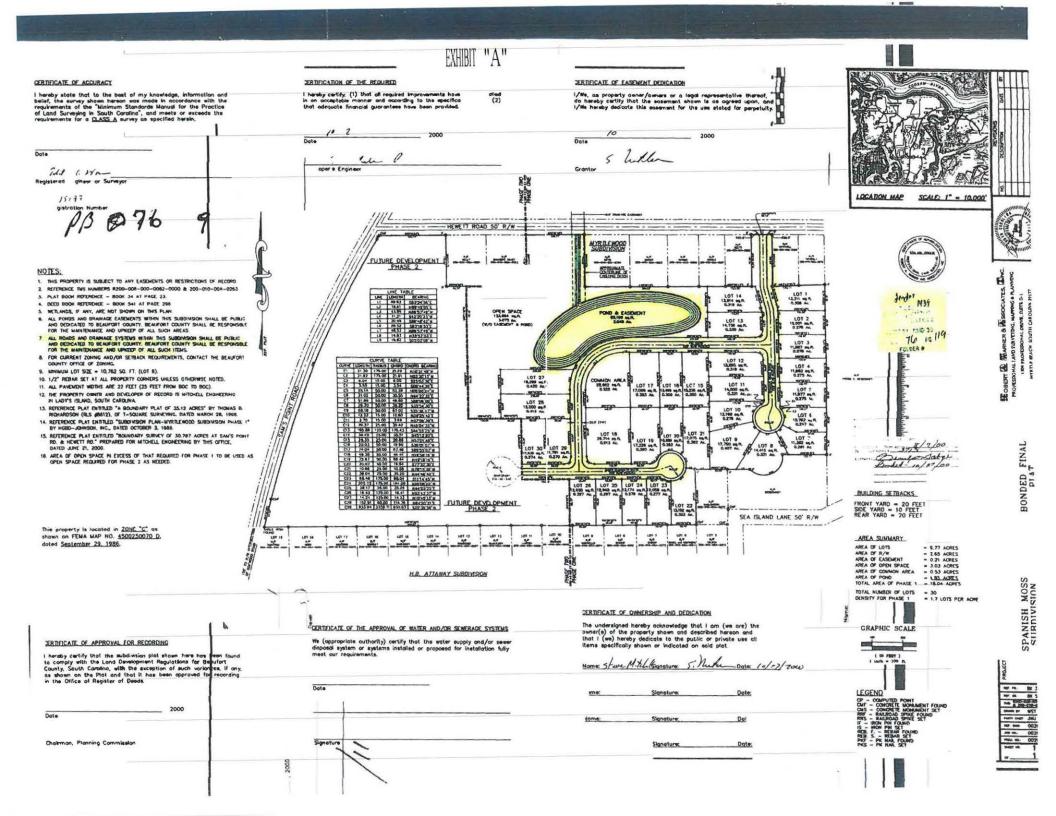
BEAUFORT COUNTY COUNCIL

APPROVED AS TO FORM:

Thomas J. Keaveny, II Beaufort County Attorney

ATTEST:

Suzanne M. Rainey, Clerk to County Council











SPANISH MOSS PHASE 1 SUBDIVISION

Presentation to Public Facilities Committee Meeting

November 21, 2016

3 OPTIONS TO CONSIDER

1.Ownership of common area, pond/drainage, and roads2.Ownership of pond/drainage easement (Weir) and roads3.Ownership of pond and select common area easements

County ditch maintenance currently stops at tree line

Pond overflows into drainage ditch

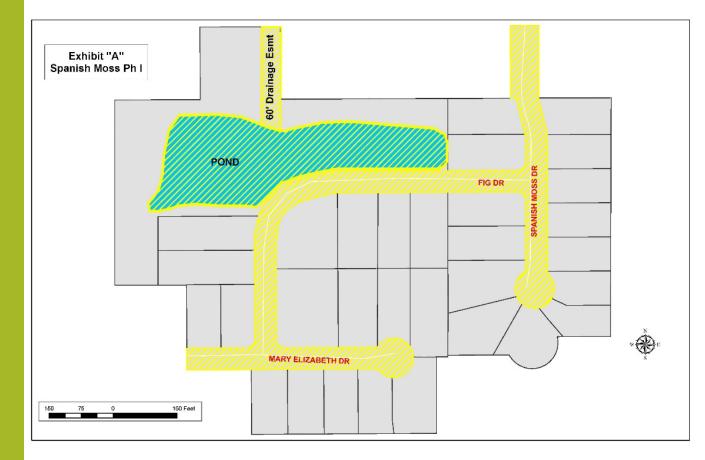
Desired location of drainage weir

Option 1: Ownership of Common Area, Pond/drainage weir and Roads



- Drainage weir needed to maintain desired water level (Estimated Cost \$6000)
- Currently-All drainage in area drains to pond.
- Pond overflows and backs up into drainage ditches
- Ditches flood roads
- County has full responsibility of roads and roadside ditches/pipes
- Estimated Cost to maintain weir easement \$300/year
- Estimated cost of road maintenance \$1200/year
- Estimated cost to maintain roadside drainage \$3500/Year
- Estimated cost of condemnation of common area to acquire ownership is \$4000
- Total estimated cost first year = \$15,000
- Total estimated cost following years = \$5,000

Option 2: Ownership of Pond/Drainage Easement (Weir) and Road



- 60' drainage easement (weir) needed to maintain desired water level (Estimated Cost \$6000)
- Estimated cost to maintain Weir Easement \$300/Year
- County has full responsibility of roads and roadside ditches/pipes
- County does not acquire common area through condemnation process
- County has limited drainage responsibility and limited access to pond
- Estimated cost of road maintenance \$1200/Year
- Estimated cost to maintain roadside drainage \$3500/Year
- Total estimated cost first year = \$11,000
- Total estimated cost following years = \$5,000

Option 3: Ownership of Pond/Select Common Area Easements



- Drainage weir needed to maintain desired water level (Estimated Cost \$6000)
- Estimated cost to maintain Weir Easement \$300/Year
- Estimated cost of condemnation of common area to acquire Pond and Select easements is \$4000
- County has no responsibility to roadside ditches/pipes
- Total estimated cost first year = \$10,300
- Total estimated cost following years = \$300

The above estimates are based on the following calculations:

- Weir: Lump sum cost to furnish and install precast concrete overflow structure with 20 LF of 24" RCP
- Weir easement: 220 LF of open ditch @ \$1.23/LF = \$270.60
- Road maintenance: Assume two 10' x 12' patches/year; 240
 SF @ \$5.00 = \$1,200
- Roadside drainage: open ditch 2,619 LF @ \$1.23 = \$3,221.37; drainage pipe 441 LF @ \$0.41 = \$180.81

2017-2030 Beaufort County Future Roadway Network Deficiencies/Needs

Service Area	Project #	Recommended Project	Project Description	Existing Deficiency	Estimated Cost (2016 Dollars)	Road Impact Fee Funding
NOB	1	US 21/SC 802 Connector	Planned new connector road along Hazel Farms Rd	No	\$ 14,500,000	\$ 10,000,000
NOB	2	US 21 at US 21 BUS at SC 802	Intersection Improvement	Yes	\$ 3,690,000	
NOB	3	US 21 at SC 128 (Savannah Hwy)	Intersection Improvement	No	\$ 1,000,000	\$ 1,000,000
NOB	4	Boundary St. Connectivity	Parallel Connector Roadway	No	\$ 4,000,000	\$ 2,000,000
NOB	5	Joe Frazier Rd - Broad River to Cherokee Farms	Turn lanes, access management and bike/ped improvements	No	\$ 7,000,000	\$ 2,000,000
NOB	6	US 21 BUS ITS Bridge System	Travel time/delay, driver information, vms signs and smart phone broadcast	No	\$ 500,000	\$ 500,000
NOB	7	US 21 from Beaufort River to Chowan Creek Bridge	Road connectivity, access management, widening and complete street improvements	No	\$ 15,000,000	\$ 5,000,000
NOB	8	Port Royal Port Property Spine Rd	New roadway from Ribaut Rd to Port Redevelopment along RR Corridor	No	\$ 4,500,000	
NOB	9	Midtown to Broad River Dr Connection	New roadway connection between Midtown Commercial and Broad River Dr	No	\$ 2,000,000	\$ 2,000,000
NOB	10	SC 170 Access Management/Connectivity	NOB	No	\$ 4,000,000	\$ 2,000,000
SOB	11	US 278 at Jenkins Island	Alternate 2A Super Street Plan	Yes	\$ 7,400,000	
SOB	12	US 278 at Pinckney Island	Access Improvements and underpass	Yes	\$ 2,000,000	
SOB	13	US 278 Widening	Jenkins Island to Squire Pope Rd	Yes	\$ 4,500,000	
SOB	14	US 278 Bridge Widening	6-lane widening from Bluffton 5A to Jenkins Is	Yes	\$ 200,000,000	
SOB	15	US 278 Access Management	Medians, Safety Projects, Signal System Upgrades, Connector/Frontage Roadways	No	\$ 12,600,000	\$ 7,000,000
SOB	16	US 278/SC 170 Interchange	Interchange ramp reconfiguration for added capacity	No	\$ 25,000,000	\$ 7,000,000
SOB	17	SC 170 - US 278 to Tide Watch	Widen to 6-lane divided from US 278 to Tidewatch w/access management	No	\$ 15,000,000	
SOB	18	SC 170 - Argent Blvd to SC 462	Widen to 6-lane divided from Argent Blvd to SC 462 w/access management	No	\$ 10,000,000	
SOB	19	Buckwalter Parkway Access Management	Roadway connectivity	No	\$ 2,000,000	\$ 1,500,000
SOB	20	May River Rd Access Management	Turn lanes, access management and bike/ped improvements	No	\$ 10,000,000	\$ 2,500,000
SOB	21	Burnt Church Rd Improvements from Bluffton Parkway to All Joy	Turn lanes, access management and bike/ped improvements	No	\$ 5,000,000	\$ 4,300,000
SOB	22	Buck Island Rd Improvements from US 278 to Bluffton Pkwy	Widening to provide 3 lanes with bike/ped improvements	No	\$ 8,000,000	\$ 4,000,000
SOB	23	Lake Point Dr / Old Miller Rd Connection	Two-lane roadway connection between Lake Point and Old Miller with bike/ped improvents	No	\$ 1,000,000	\$ 1,000,000
SOB	24	SC 170/SC 46 Widening to Jasper County	4-lane divided from SC 46/170 Roundabout to Jasper County	No	\$ 45,000,000	
				TOTALS	\$ 403,690,000 TOTAL NOB	
					TOTAL SOB	\$ 37,300,000

	2017-2030 Beaufort County Future Roadway Network Deficiencies/Needs					
Service Area	Project #	Recommended Project	Project Description	Existing Deficiency	Estimated Cost (2016 Dollars)	Road Impact Fee Funding
NOB	1	US 21/SC 802 Connector	Planned new connector road along Hazel Farms Rd	No	\$ 14,500,000	\$ 12,000,000
NOB	2	US 21 at US 21 BUS at SC 802	Intersection Improvement	Yes	\$ 3,690,000	
NOB	3	US 21 at SC 128 (Savannah Hwy)	Intersection Improvement	No	\$ 1,000,000	\$ 1,000,000
NOB					\$ 4,000,000	
	4	Boundary St. Connectivity	Parallel Connector Roadway	No		\$ 2,000,000
NOB	5	Joe Frazier Rd - Broad River to Cherokee Farms	Turn lanes, access management and bike/ped improvements	No	\$ 7,000,000	\$ 2,500,000
NOB	6	US 21 BUS ITS Bridge System	Travel time/delay, driver information, vms signs and smart phone broadcast	No	\$ 500,000	\$ 500,000
NOB	7	US 21 from Beaufort River to Chowan Creek Bridge	Road connectivity, access management, widening and complete street improvements	No	\$ 15,000,000	\$ 7,500,000
NOB	8	Port Royal Port Property Spine Rd	New roadway from Ribaut Rd to Port Redevelopment along RR Corridor	No	\$ 4,500,000	
NOB	9	Midtown to Broad River Dr Connection	New roadway connection between Midtown Commercial and Broad River Dr	No	\$ 2,000,000	\$ 2,000,000
NOB	10	SC 170 Access Management/Connectivity	NOB	No	\$ 4,000,000	\$ 2,000,000
SOB	11	US 278 at Jenkins Island	Alternate 2A Super Street Plan	Yes	\$ 7,400,000	
SOB	12	US 278 at Pinckney Island	Access Improvements and underpass	Yes	\$ 2,000,000	
SOB	13	US 278 Widening	Jenkins Island to Squire Pope Rd	Yes	\$ 4,500,000	
SOB	14	US 278 Bridge Widening	6-lane widening from Bluffton 5A to Jenkins Is	Yes	\$ 200,000,000	
SOB	15	US 278 Access Management	Medians, Safety Projects, Signal System Upgrades, Connector/Frontage Roadways	No	\$ 12,600,000	\$ 7,000,000
SOB	16	US 278/SC 170 Interchange		No	\$ 25,000,000	\$ 7,000,000
			Interchange ramp reconfiguration for added capacity			\$ 7,000,000
SOB	17	SC 170 - US 278 to Tide Watch	Widen to 6-lane divided from US 278 to Tidewatch w/access management	No	\$ 15,000,000	
SOB	18	SC 170 - Argent Blvd to SC 462	Widen to 6-lane divided from Argent Blvd to SC 462 w/access management	No	\$ 10,000,000	
SOB	19	Buckwalter Parkway Access Management	Roadway connectivity	No	\$ 2,000,000	\$ 1,500,000
SOB	20	May River Rd Access Management	Turn lanes, access management and bike/ped improvements	No	\$ 10,000,000	\$ 2,500,000
SOB	21	Burnt Church Rd Improvements from Bluffton Parkway to All Joy	Turn lanes, access management and bike/ped improvements	No	\$ 5,000,000	\$ 4,300,000
SOB	22	Buck Island Rd Improvements from US 278 to Bluffton Pkwy	Widening to provide 3 lanes with bike/ped improvements	No	\$ 8,000,000	\$ 4,000,000
SOB	23	Lake Point Dr / Old Miller Rd Connection	Two-lane roadway connection between Lake Point and Old Miller with bike/ped improvents	No	\$ 1,000,000	\$ 1,000,000
SOB	24	SC 170/SC 46 Widening to Jasper County	4-lane divided from SC 46/170 Roundabout to Jasper County	No	\$ 45,000,000	\$ 10,000,000
				TOTALS	\$ 403,690,000	\$ 66,800,000
					TOTAL NOB	\$ 29,500,000
					TOTAL SOB	\$ 37,300,000



The document(s) herein were provided to Council for information and/or discussion after release of the official agenda and backup items. Topic:Road Impact Fee Program UpdateDate Submitted:November 21, 2016Submitted By:Colin KintonVenue:Public Facilities Committee

Road Impact Fee Program Update

Presentation of an update on Road Impact Fee future projects and revenue projections

November 21, 2016



Road Impact Fee Calculation

- Long Range Transportation Model
- Net Growth in Traffic Over 20 Years
- Trip Generation + Trip Length (Vehicle-miles of Travel)
- Fee Charged to All New Construction (private, nonprofit & governmental)



EXISTING FEE RATES

Northern Beaufort County Service Area

- Single-Family Home: \$775.17
- 1,000 Sq. Ft. Retail: \$1,947.76

Bluffton/Okatie Assessment District

- Single-Family Home: \$3,063
- 1,000 Sq. Ft. Retail: \$6,309

Hilton Head/Daufuskie Assessment District

- Single-Family Home: \$1,126
- 1,000 Sq. Ft. Retail: \$2,319



TOTALS Northern Beaufort County

Collected:

\$ 5,526,786

Expended:

Balance:

<u>\$ 5,210,243</u>

\$ 316,543



TOTALS Southern Beaufort County

Collected:

\$ 33,616,987

Expended:

Balance:

<u>\$ 29,497,034</u>

\$ 4,119,953



FUTURE CONDITIONS

Population Growth over 20 years: (2015-2035)

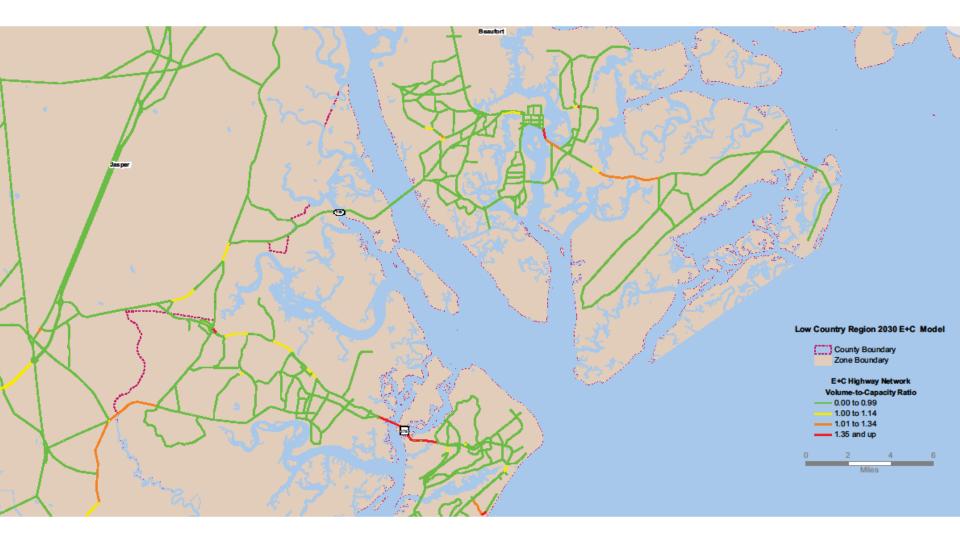
Commercial/Employment Growth

Regional Model (2020, 2030, 2040)

Identify Emerging Deficiencies Resulting from Growth

Identify Projects to Address Deficiencies





2017-2030 Beaufort County Future Roadway Network Deficiencies/Needs

Service Area	Project #	Recommended Project	Project Description	Existing Deficiency	Estimated Cost (2016 Dollars)	Road Impact Fee Funding
NOB	1	US 21/SC 802 Connector	Planned new connector road along Hazel Farms Rd	No	14,500,000	10,000,000
NOB	2	US 21 at US 21 BUS at SC 802	Intersection Improvement	Yes	3,690,000	
NOB	3	US 21 at SC 128 (Savannah Hwy)	Intersection Improvement	No	1,000,000	1,000,000
NOB	4	Boundary St. Connectivity	Parallel Connector Roadway	No	4,000,000	2,000,000
NOB	5	Joe Frazier Rd - Broad River to Cherokee Farms	Turn lanes, access management and bike/ped improvements	No	7,000,000	2,000,000
NOB	6	US 21 BUS ITS Bridge System	Travel time/delay, driver information, vms signs and smart phone broadcast	No	500,000	500,000
NOB	7	US 21 from Beaufort River to Chowan Creek Bridge	Road connectivity, access management, widening and complete street improvements	No	15,000,000	5,000,000
NOB	8	Port Royal Port Property Spine Rd	New roadway from Ribaut Rd to Port Redevelopment along RR Corridor	No	4,500,000	1,000,000
NOB	9	Midtown to Broad River Dr Connection	New roadway connection between Midtown Commercial and Broad River Dr		2,000,000	2,000,000
NOB	10	SC 170 Access Management/Connectivity	NOB	No	4,000,000	2,000,000
SOB	11	US 278 at Jenkins Island	Alternate 2A Super Street Plan	Yes	7,400,000	,,
SOB	12	US 278 at Pinckney Island	Access Improvements and underpass	Yes	2,000,000	
SOB	13	US 278 Widening	Jenkins Island to Squire Pope Rd	Yes	4,500,000	
SOB	14	US 278 Bridge Widening	6-lane widening from Bluffton 5A to Jenkins Is	Yes	200,000,000	
SOB	15	US 278 Access Management	Medians, Safety Projects, Signal System Upgrades, Connector/Frontage Roadways	No	12,600,000	7,000,000
SOB	16	US 278/SC 170 Interchange	Interchange ramp reconfiguration for added capacity	No	25,000,000	7,000,000
SOB	17	SC 170 - US 278 to Tide Watch	Widen to 6-lane divided from US 278 to Tidewatch w/access management	No	15,000,000	,,
SOB	18	SC 170 - Argent Blvd to SC 462	Widen to 6-lane divided from Argent Blvd to SC 462 w/access management	No	10,000,000	
SOB	19	Buckwalter Parkway Access Management		No	2,000,000	1,500,000
SOB	20	May River Rd Access Management	Roadway connectivity Turn lanes, access management and bike/ped improvements	No	10,000,000	2,500,000
SOB	20	Burnt Church Rd Improvements from Bluffton Parkway to		No		
		All Joy Buck Island Rd Improvements from US 278 to Bluffton	Turn lanes, access management and bike/ped improvements		5,000,000	4,300,000
SOB	22	Pkwy	Widening to provide 3 lanes with bike/ped improvements Two-lane roadway connection between Lake Point and Old	No	8,000,000	4,000,000
SOB	23	Lake Point Dr / Old Miller Rd Connection	Miller with bike/ped improvements	No	1,000,000	1,000,000
SOB	24	SC 170/SC 46 Widening to Jasper County	4-lane divided from SC 46/170 Roundabout to Jasper County	No	45,000,000	10,000,000
				TOTALS	403,690,000	62,800,000
					TOTAL NOB	25,500,000
					TOTAL SOB	37,300,000
					SOB Debt Service TOTAL SOB w/ Debt	10,500,000 47,800,000

NEW PROPOSED PROJECTS

Northern Beaufort County

- US 21/SC 802 Connector Intersection Improvements:
 - (US21 at SC 128 (Savannah Hwy)
- Boundary St. Connectivity (First Street)
- Joe Frazier Rd Broad River to ightarrow**Cherokee Farms**
- US 21 Business, ITS Bridge System igodol
- US 21 from Beaufort River to igodolChowan Creek Bridge Port Royal Port Development Spine Rd
- Midtown to Broad River Dr Connection
- SC170 Access Management/Connectivity

Impact Fee Funding \$ 10,000,000

\$ 1,000,000

\$ 2,000,000

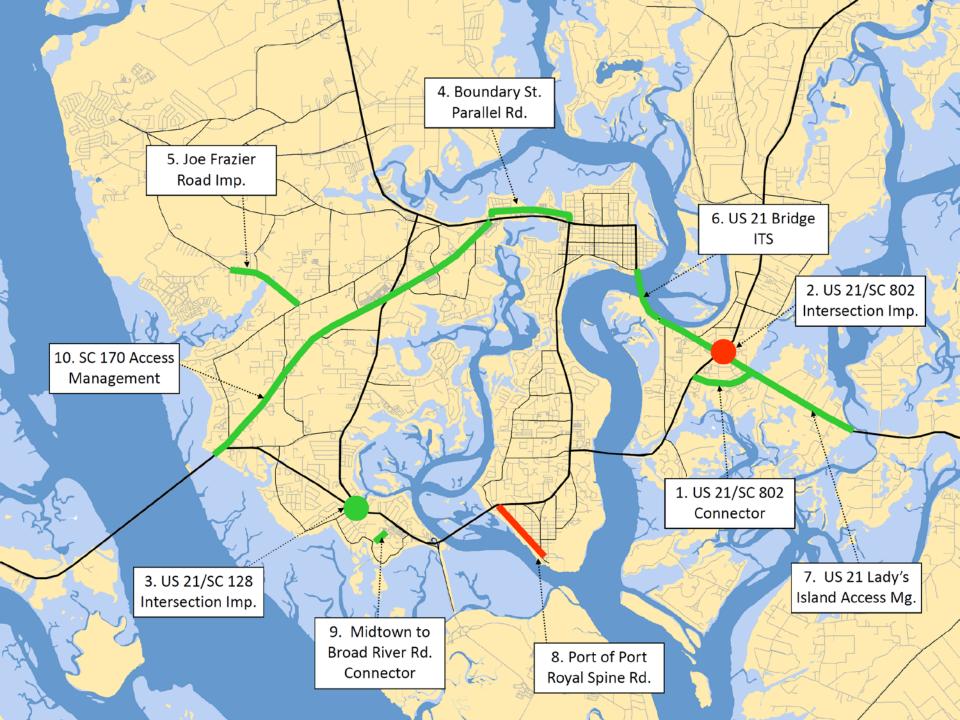
\$ 2,000,000

\$500,000 \$ 5,000,000

\$1,000,000 \$ 2,000,000 \$ 2,000,000

TOTAL: \$ 25,500,000





NEW PROPOSED PROJECTS

Southern Beaufort County

- US 278 Access Management
- US 278/SC 170 Interchange
- Buckwalter Pkwy Access Management
- May River Rd Access Management
- Burnt Church Rd from Bluffton Pkwy to All Joy Rd
- Buck Island Rd from US 278 to Bluffton Pkwy
- Lake Point Dr/Old Miller Rd Connection
- SC 170/SC 46 Widening to Jasper County

Impact Fee Funding

\$7,000,000

\$7,000,000

\$ 1,500,000

\$ 2,500,000

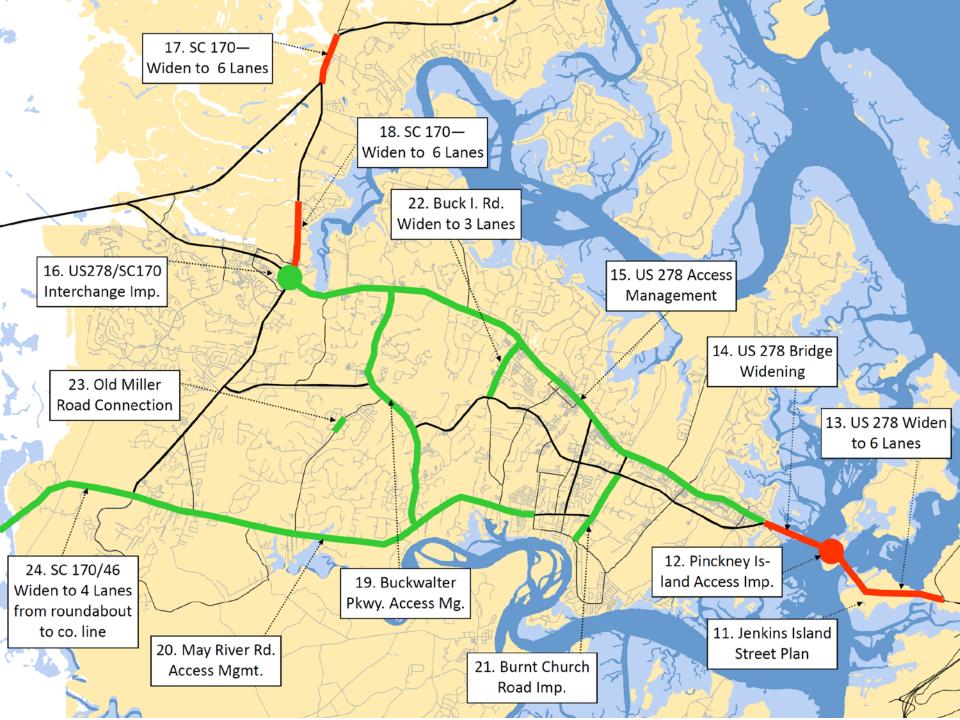
\$4,300,000

\$ 4,000,000

\$ 1,000,000 \$ 10,000,000

TOTAL: \$37,300,000





PROPOSED FEE RATES

Northern Beaufort County Service Area

- Single-Family Home: \$796.00
- 1,000 Sq. Ft. Retail: \$1,639.00

Bluffton/Okatie Assessment District

- Single-Family Home: \$1,812.00
- 1,000 Sq. Ft. Retail: \$3,733.00

Hilton Head/Daufuskie Assessment District

- Single-Family Home: \$703.00
- 1,000 Sq. Ft. Retail: \$1,447.00



NEXT STEPS

- Update Transportation Element of Comp Plan
- Develop New Road CIP to Include New Road Impact Fee Calculation
- Prioritize Projects and Implementation based on Anticipated Revenue

