

HWY 701 TO HWY 544 48" WATER TRANSMISSION LINE IMPROVEMENT PROJECT

SCHEDULE OF BID ITEMS

The Contractor shall furnish all labor, equipment, materials, and transportation and perform all work necessary to complete the construction and installation of water utilities and appurtenances as shown on the drawings prepared by DDC Engineers, Inc. and per all specifications herein.

NOTE: This project will be bid with alternates for certain items of work as it relates to this project. "The OWNER reserves the right to award a CONTRACT on the basis of the BASE BID ITEMS and ADD, DEDUCT, AND ALTERNATE BID ITEM(s) deemed by the OWNER to be in their best interest. Final award shall be made to the lowest responsive BIDDER as selected by the OWNER."

The alternate is for Grand Strand Water and Sewer Authority to review and determine the best means to construct the project. The Owner may elect to substitute the alternate or not with the contractor after the project is bid and before the award to stay within their budgets.

Bids shall include sales tax and all other applicable taxes and fees. Any work required as shown on the plans or called for in the specifications not specifically listed below shall be included in the most closely related work item listed. It is the responsibility of the Contractor to verify all quantity takeoffs, and to bid the work appropriately.

Bid prices shall also include all traffic control, silt fencing, erosion control, grading, cuts, fills and site restoration for the project as shown on the construction plans. The pavement prices will include all stripping with pavement markings that are required to complete the project unless otherwise listed as a pay item. All fittings are to be restrained with megalugs or an approved equal and are to be included in the fitting price. All fittings shall have restrained joints on either side of the fitting to the length recommended by the manufacturer and shall be included in the price of the pipe. All sleeves needed to make any tie-ins are to be included in the tie-in price and/or pipe price. The contractor must verify the size and type of line being tapped and must supply the appropriate tapping sleeves to complete the work for this project.

Item	Description	Quantity	Unit	Unit Cost	Total Cost
48" Water Transmission Line Base Bid					
1.	Mobilization	1	LS	\$	\$
2.	Clearing and Grubbing	1	LS	\$	\$
3.	Sediment and Erosion Control Complete	1	LS	\$	\$
^*4.	48" C-900 DR-25 PVC Water Line	19,680	LF	\$	\$
5.	36" C-900 DR-25 PVC Water Line	80	LF	\$	\$
^6.	48" Class 250 Retained Joint Zinc Coated Ductile Iron Pipe Water Line	180	LF	\$	\$
^*7.	54" IPS DR-17 HDPE Pipe Open Cut w/Pre-cast Concrete Gravity Anchors	6,000	LF	\$	\$
8.	48" M.J. Butterfly Valve Restrained	7	EA	\$	\$
9.	36" M.J. Butterfly Valve Restrained	2	EA	\$	\$
^10.	48" MJ 45° Bend Restrained	21	EA	\$	\$
^11.	48" MJ 90° Bend Restrained	3	EA	\$	\$
^12.	48" MJ 11 1/4° Bend Restrained	4	EA	\$	\$
^13.	48" M.J. 22-1/2° Bend Restrained	2	EA	\$	\$

Item	Description	Quantity	Unit	Unit Cost	Total Cost
14.	48" X 36" MJ Reducer Restrained	2	EA	\$	\$
15.	Air Release Valve in Manhole	5	EA	\$	\$
16.	Air Release Valve with Quazite Box	9	EA	\$	\$
^*17.	HDPE to PVC Connection	4	EA	\$	\$
18.	Sampling Station	2	EA	\$	\$
19.	16" Blowoff Assembly Complete includes 48" x 16 MJ Tee, 16" MJ Gate Valve 16" Piping and Tideflex Valve Fully Restrained	3	EA	\$	\$
^*20.	54" IPS DR-17 HDPE Directional Bores	2,500	LF	\$	\$
^*21.	66" Steel Bore Casing (SC-Hwy 544) 0.75 Wall Thickness	100	LF	\$	\$
22.	Remove Existing 36" PVC Water Line	170	LF	\$	\$
23.	Temporary 48" Tall Wire Fence with Steel Posts (10' Max Spacing on Post)	800	LF	\$	\$
24.	SCDOT Roadway Asphalt Repair	75	LF	\$	\$
25.	County Roadway Asphalt Repair	1,060	LF	\$	\$
26.	GABC Base Driveway Repair	160	LF	\$	\$
27.	2" SCDOT Type B Road Overlay	4,650	SY	\$	\$
28.	Cut in 36" MJ 45° Bend Restrained on Existing 36" PVC Water Line	1	LS	\$	\$
29.	Cut-In to existing 36" Pipe Line	2	EA	\$	\$
30.	Restrain Existing 36" PVC Water Line	40	LF	\$	\$
31.	Asphalt Roadway Milling Tie Points	1	LS	\$	\$
32.	Asphalt Driveway Repair	120	LF	\$	\$
33.	Repair Existing 4 Strain Electrical Fence with Wooden Post	1,000	LF	\$	\$
34.	Repair Existing Single Tape Electric Fence with Steel Post	980	LF	\$	\$
35.	6" Concrete Driveway Repair	28	LF	\$	\$
36.	Remove Existing 36" MJ 22½° Bend	1	EA	\$	\$
TOTAL:				\$	\$

Bid Item	Manufacturer (one per bid item)
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ALTERNATE #1 Ductile Iron Pipe - Grand Strand Water and Sewer Authority may elect to select an alternate. The item (*) number in the base bid schedule will be replaced with the alternate value.

Item	Description	Quantity	Unit	Unit Cost	Total Cost
*4.	Substitute 48" Class 150 Zinc Coated DIP Water Line in lieu of 48" C-900 DR-25 PVC Water Line for #4 in the base bid	19,680	LF	\$	\$
*4.	Substitute 48" Class 150 DIP Water Line in lieu of 48" C-900 DR-25 PVC Water Line for #4 in the base bid	19,680	LF	\$	\$
*7.	Substitute 48" Class 150 Restrained Joint Zinc Coated DIP Water Line in lieu of 54" IPS DR-17 HDPE	6,000	LF	\$	\$
*7.	Substitute 48" Class 150 Restrained Joint DIP Water Line in lieu of 54" IPS DR-17 HDPE	6,000	LF	\$	\$
*17.	Substitute HDPE to PVC Connection (Not needed with DIP Pipe)	0	EA	\$	\$
*20.	Substitute 48" Class 350 Restrained Joint Zinc Coated DIP installed by Directional Bore	2,500	LF	\$	\$
*21.	Substitute 60" Steel Bore Casing (SC-Hwy 544) 0.75 Wall Thickness	100	LF	\$	\$

Bid Item	Manufacturer (one per bid item)
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ALTERNATE #2 Steel Pipe - Grand Strand Water and Sewer Authority may elect to select an alternate. The item (^) number in the base bid schedule will be replaced with the alternate value. Note: Steel Pipe unit price will include all fittings except Bid Items #14 & #19.

Item	Description	Quantity	Unit	Unit Cost	Total Cost
^4.	Substitute 48" -0.20 Thickness in lieu of 48"C-900 DR-25 PVC Water Line for #4 in Base Bid	18,180	LF	\$	\$
^6.	Substitute 48" Steel Pipe in lieu of Retrained Joint Zinc Coated DIP Water Line	180	LF	\$	\$
^7.	Substitute 48" Steel Pipe in lieu of 54" IPS DR-17 HDPE Pipe	6,000	LF	\$	\$
^10.	Substitute 48" Steel Pipe in lieu of 48" MJ 45° Bend Restrained (Not needed with Steel Pipe)	0	EA	\$	\$
^11.	Substitute 48" Steel Pipe in lieu of 48" MJ 90° Bend Restrained (Not needed with Steel Pipe)	0	EA	\$	\$

Item	Description	Quantity	Unit	Unit Cost	Total Cost
^12.	Substitute 48" Steel Pipe in lieu of 48" MJ 11 1/4° Bend Restrained (Not needed with Steel Pipe)	0	EA	\$	\$
^13.	Substitute 48" Steel Pipe in lieu of 48" M.J. 22-1/2° Bend Restrained (Not needed with Steel Pipe)	0	EA	\$	\$
^17.	Substitute 48" Steel Pipe in lieu of HDPE to PVC Connection (Not needed with Steel Pipe)	0	EA	\$	\$
^20.	Substitute 48" Steel Pipe installed by Directional Bore in lieu of 54" IPS DR-17 HDPE	4,000	LF	\$	\$
^21.	Substitute 60" Steel Bore Casing (SC-Hwy 544) 0.75 Wall Thickness in lieu of 66" Steel Bore Casing	100	LF	\$	\$

Bid Item	Manufacturer (one per bid item)
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GSWSA may change the proposed 48" water line to a 36" water line due to budget reasons along with SCDHEC wanting to receive a price difference between the two (2) lines. All contractors must bid both 48" and 36" water line projects.

Item	Description	Quantity	Unit	Unit Cost	Total Cost
Alternate 36" Water Line Transmission Bid					
1.	Mobilization	1	LS	\$	\$
2.	Clearing and Grubbing	1	LS	\$	\$
3.	Sediment and Erosion Control Complete	1	LS	\$	\$
4.	36" C-900 DR-25 PVC Water Line	19,680	LF	\$	\$
5.	36" C-900 DR-25 PVC Water Line	80	LF	\$	\$
6.	36" Class 250 Retrained Joint Zinc Coated Ductile Iron Pipe Water Line	180	LF	\$	\$
7.	42" IPS DR-17 HDPE Pipe Open Cut w/Pre-cast Concrete Gravity Anchors	6,000	LF	\$	\$
8.	36" M.J. Butterfly Valve Restrained	7	EA	\$	\$
9.	36" M.J. Butterfly Valve Restrained	2	EA	\$	\$
10.	36" MJ 45° Bend Restrained	21	EA	\$	\$
11.	36" MJ 90° Bend Restrained	3	EA	\$	\$
12.	36" MJ 11 1/4° Bend Restrained	4	EA	\$	\$
13.	36" M.J. 22-1/2° Bend Restrained	2	EA	\$	\$
14.	Air Release Valve in Manhole	5	EA	\$	\$
15.	Air Release Valve with Quazite Box	9	EA	\$	\$
16.	HDPE to PVC Connection	4	EA	\$	\$
17.	Sampling Station	2	EA	\$	\$
18.	16" Blowoff Assembly Complete includes 36" x 16 MJ Tee, 16" MJ Gate Valve 16"	3	EA	\$	\$

Item	Description	Quantity	Unit	Unit Cost	Total Cost
	Piping and Tideflex Valve Fully Restrained				
19.	42" IPS DR-17 HDPE Directional Bores	2,500	LF	\$	\$
20.	42" Steel Bore Casing (SC-Hwy 544) 0.625 Wall Thickness	100	LF	\$	\$
21.	Remove Existing 36" PVC Water Line	170	LF	\$	\$
22.	SCDOT Roadway Asphalt Repair	75	LF	\$	\$
23.	County Roadway Asphalt Repair	1,060	LF	\$	\$
24.	GABC Base Driveway Repair	160	LF	\$	\$
25.	2" SCDOT Type B Road Overlay	4,650	SY	\$	\$
26.	Temporary 48" Tall Wire Fence with Steel Posts (10' Max. Spacing on Post)	800	LF	\$	\$
27.	Cut in 36" MJ 45° Bend Restrained on Existing 36" PVC Water Line	1	LS	\$	\$
28.	Cut-In to existing 36" Pipe Line	2	EA	\$	\$
29.	Restrained Existing 36" PVC Water Line	40	LF	\$	\$
30.	Asphalt Roadway Milling Tie Points	1	LS	\$	\$
31.	Asphalt Driveway Repair	120	LF	\$	\$
32.	Repair Existing 4 Strain Electrical Fence with Wooden Post	1,000	LF	\$	\$
33.	Repair Existing Single Tape Electric Fence with Steel Post	980	LF	\$	\$
34.	6" Concrete Driveway Repair	28	LF	\$	\$
35.	Remove Existing 36" MJ 22½° Bend	1	EA	\$	\$
TOTAL:				\$	\$

Bid Item	Manufacturer (one per bid item)
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Item	Description	Quantity	Unit	Unit Cost	Total Cost
Sewer Force Main Conversion Base Bid					
1.	Mobilization	1	LS	\$	\$
2.	36" C-900 DR-25 PVC Force Main	60	LF	\$	\$
3.	30" C-900 DR-25 PVC Force Main	500	LF	\$	\$
4.	30" Sewer Coat Class 250 Restrained Joint DIP Force Main	100	LF	\$	\$
5.	30" MJ Plug Valve with Box Restrained	3	EA	\$	\$
6.	30" x 30" MJ Tee Restrained	1	EA	\$	\$

Item	Description	Quantity	Unit	Unit Cost	Total Cost
7.	30" MJ 45° Bend Restrained	7	EA	\$	\$
8.	36" x 30" MJ Reducer Restrained	2	EA	\$	\$
9.	30" MJ Plug	1	EA	\$	\$
10.	48" Steel Bore Casing (SC Highway 701) 0.625" Wall Thickness	60	LF	\$	\$
11.	Cut-Out Existing 36" Butterfly Valve and Install a 36" MJ Plug Valve with Box Restrained with MJ Sleeve	5	EA	\$	\$
12.	Remove Existing 30" Plug and Tie into 30" Line	1	EA	\$	\$
13.	Cut In 30" x 30" MJ Tee Restrained on Existing Force Main	1	EA	\$	\$
14.	Cut In 36" - 45° Bend Restrained	2	EA	\$	\$
15.	Sediment and Erosion Control	1	LS	\$	\$
16.	Driveway Repair	16	LF	\$	\$
17.	Restrain Existing 36" PVC Line	80	LF	\$	\$
18.	Install Sewer Air Release Valve in Quazite Box Complete	1	EA	\$	\$
19.	Remove Existing Water Air Release Valve and Install a Sewer Air Release Valve	12	EA	\$	\$
20.	Remove Existing Fire Hydrant Assembly and cap/plug hydrant lead	1	EA	\$	\$
TOTAL:					

TOTAL WATER AND SEWER BASE BID AMOUNT IN WORDS: _____
 _____00/100 Dollars (_____).

Respectfully submitted,

 Contractor Name

 Address

 Signature

 Title

 License Number
 Seal if bid is from a corporation

 Date

Attest: _____