

RESOLUTION 2010 303

**A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMISTRATOR, OR HIS DESIGNEE, TO EXECUTE CHANGE ORDER 27 WITH CDM CONSTRUCTORS INC., IN THE AMOUNT OF \$3,220,184.00 FOR THE COMPLETION OF DESIGN AND CONSTRUCTION OF THE NORTHWEST WATER PLANT PHASE C INCLUDING A CONTIGENCY OF \$171,221.00, EFFECTIVE THIS DATE**

**WHEREAS**, the Board of County Commissioners approved RFQ 03-101 and authorized the Administrator to contract with CDM Constructors Inc. to provide engineering design services and complete construction of two water treatment plants; and

**WHEREAS**, the Phase C of the Northwest Water Treatment Plant is the last phase of this multi-year, multi-facility project; and

**WHEREAS**, the Board of County Commissioners on October 14, 2008 approved Phase B including an estimate for Phase C for a total contract value of \$8,151,895.00; and

**WHEREAS**, the Phase C estimated cost of the total approved contract was \$1,521,433.00 but has increased to \$3,220,184.00 to accommodate for additional scope including the installation of degassifiers that has required additional piping, equipment, concrete, electrical & instrumentation and general site work; and

**WHEREAS**, the additional scope was required to resolve a sulfur bacteria water quality issue, in that, the installation of degassifiers will reduce the sulfur in raw water and limit formation of sulfur bacteria in the transmission system that has caused the water quality and aesthetics problem for customers; and

**NOW THEREFORE, BE IT RESOLVED** by the Board of County Commissioners of St. Johns County, Florida, that:

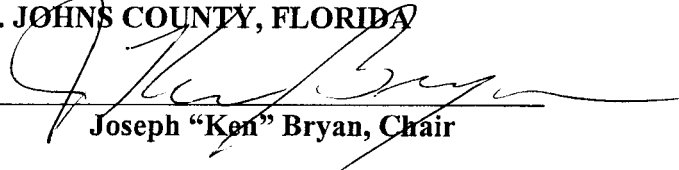
1. The above Recitals are incorporated by reference into the body of this Resolution, and such Recitals are adopted as Findings of Fact.
2. The Board of County Commissioners hereby designates the County Administrator, or his designee, to execute Change Order 27 with CDM Constructors Inc., in the amount of \$3,220,184.00 for completion of design and construction of the Northwest Water Plant Phase C including a contingency of \$171,221.00
3. To the extent that there are typographical or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval of the Board of County Commissioners

4. This resolution shall take effect upon its approval and adoption by the Board of County Commissioners.

**PASSED AND ADOPTED** by the Board of County Commissioners of St. Johns County, State of Florida, this 21<sup>st</sup> day of Dec., 2010.

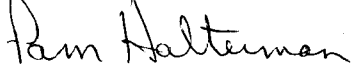
**BOARD OF COUNTY COMMISSIONERS  
OF ST. JOHNS COUNTY, FLORIDA**

By: \_\_\_\_\_

  
Joseph "Ken" Bryan, Chair

ATTEST: Cheryl Strickland, Clerk

By: \_\_\_\_\_

  
Deputy Clerk

RENDITION DATE 12/28/10



**ST. JOHNS COUNTY UTILITY DEPARTMENT NORTHWEST WATER TREATMENT PLANT  
6.0 MGD PHASE C ESTIMATED BUDGET AND COSTS**

**SEPTEMBER 2010 FINAL COST ESTIMATE**

<b>1 Budget:</b>	
2 Phase B GMP (Change Order No. 22)	\$6,479,424
3 Estimated Accrued Phase B Contingency	\$1,121,759
Including: Delete Chem. Building & Chem. Equip. Allowance, GST Modifications	
4 Owner's Total Phase B&C Budget	\$8,151,895
5 Phase C Estimated Budget (Line Item 4-Line Item 2+Line Item 3)	\$2,794,230
6 CO #25 Add'l Engineering Redesign Fee	<u>\$151,038</u>
7 Actual Phase C Budget Less Eng. Fees (Line Item 5-Line Item 6)	<u>\$2,643,192</u>
<b>8 Cost of Work Breakout Phase C:</b>	<b>Sub/Vendor Price</b>
<b>9 Subcontract Packages</b>	
10 RTD	\$1,448,866.00
11 Cogburn Bros.	\$238,850.00
12 DCR Engineering Services Inc. (Phase C)	\$127,289.00
13 Clearwell Coating	\$49,607.00
<b>14 St. Johns County Direct Purchased Equipment</b>	
15 Degasifier, Scrubbers, Fans, Recirculation Pumps & Control Panel	\$681,628.00
16 CO2 System (Prominent pH probes will be included in revised DCR quote)	\$373,820.00
17 Transfer Pumps (Qty.3)	\$103,800.00
18 Sodium Hypochlorite Tanks	\$76,099.00
19 Subtotal Direct Purchased Equipment	<u>\$1,235,347.00</u>
<b>20 CDM Direct Purchased Equipment</b>	
21 FRP Ductwork	\$31,000.00
22 Water Softener	\$4,995.00
23 APCO Transfer Pump Primer	\$16,500.00
24 Booster Pumps (Qty. 2)	\$40,400.00
25 Chemical Metering Building	\$35,916.00
26 Electrical Building	\$43,021.00
27 Grinder Pump Station	\$15,875.00
28 Sodium Hypochlorite Metering System	\$42,908.00
29 Sodium Hydroxide Metering System	\$28,952.00
30 Sodium Hydroxide Tank	\$31,942.00
31 Corrosion Inhibitor System ( NO Drums)	\$14,163.00
32 Containment Pallet and Ramp	\$415.00
33 Sales Tax at 6%	<u>\$18,365.22</u>
34 Subtotal CDM Direct Purchased Equipment	<u>\$324,452.22</u>
35 Total Phase C Cost of Work	<u>\$3,424,411.22</u>
36 CM Costs	<u>\$231,518.00</u>
37 Total	<u>\$3,655,929.22</u>
<b>38 Construction Management:</b>	
39 Bonds & Insurance (1.54% of line 37)	\$56,301
40 New Permitting, Coordination and Construction Engineering Fee Allowance (in contingency	\$92,899
41 CM Fees (10% of Line 37)	\$365,593
42 Phase C Contingency (5% of Line 35)	<u>\$171,221</u>
43 Total CM Costs (Line 39+Line 40+Line 41+Line 42)	<u>\$686,014</u>
44 Final Phase C Estimated Cost (Line Item 37+Line Item 43)	\$4,341,943
45 Remaining Phase B Contingency	\$1,121,759
46 Change Order No. 27 Add'l Cost (Line 45-Line 44)	<u>\$3,220,184</u>
47 Total Phase B/C Estimated Cost (Line Item 2+Line Item 6+Line Item 46)	\$9,850,646
48 Owner's Initial Phase B&C Budget	\$8,151,895
49 Owner' Additional Costs From Initial Budget (Line Item 48 -Line Item 47)	\$1,698,751

**Attachment "A"**  
**Supplementary Terms and Conditions**  
**Design & Construction of the**  
**Northwest Water Treatment Plant, Phase C**  
**St. Johns County, Florida**

1. Design Builder guarantees that it shall not exceed a total adjusted GMP of Three Million Two Hundred Seventy Nine Thousand Four Hundred & Twenty Four Dollar (\$3,220,184.00). Design Builder does not guarantee any specific line item provided as part of the GMP, but agrees that it will be responsible for paying all costs of completion of the Work which exceeds the GMP as adjusted in accordance with Contract Documents.
2. The documents used to identify the Scope of the Work (Work) that forms the basis for the GMP shall be identified in an exhibit to this Change Order as Attachment "B" & C. These documents are hereby amended to include the following clarification and additions:
  - .1 Owner will provide and pay for water for settlement & leak testing of hydraulic structures.
  - .2 Sodium Hypochlorite & Corrosion Inhibitor Injection Points shown on the Influent PS Station Suction Header, (Sheet M-4) are shown as part of Phase B; however pricing is included in RTD Phase C Construction Scope.
  - .3 GMP includes costs for Soils Compaction Testing & Concrete Testing
  - .4 Any general conditions cost savings based on working concurrently on other authorized work under the base contract diverts back to Owner if not used.
  - .5 GMP includes items included as part of CO # 22, (Attachments A B & C are included as part of the Northwest Water Treatment Plant Phase C).
  - .6 GMP includes the costs to remove & replace a portion of the 24" RW DI line from the 24" MJ 90 downstream of the Influent Flow Meter to the existing 24" MJ Tee to the existing and new 24" BFV's, located at the branch of the 24" Tee and replace with 24" DI epoxy lined pipe & fittings.
  - .7 An allowance has **not** been included in the GMP for start-up chemicals.
  - .8 This change order is based on the existing soil being capable of producing 2,000 pcf bearing capacity with out special treatment.
  - .9 Lightning Protection System is included for the Chemical Metering Enclosure and Electrical Building, only.
  - .10 The General and Mechanical Work will be subcontracted to RTD Construction, Inc.
  - .11 The Electrical Work will be subcontracted to Cogburn Bros. Electrical, Inc.
  - .12 The Instrumentation and Control (I&C) Work will be subcontracted to DCR Engineering Services, Inc Subcontractors pricing is based on general knowledge of Owner's requirements.
  - .13 Security System is not included in this GMP.
  - .14 Heavy Loading Concrete paving for chemical storage load out area shall extend to the sidewalk heading West to the 1.5 MG Ground Storage Tank as shown on sheet C-5 100% Submittal – Not For Construction, Dated August, 2010
  - .15 Electrical Building is to be installed North of the sidewalk heading west to the 1.5 MG Ground Storage Tank as shown on sheet C-5 100% Submittal – Not For Construction, Dated August, 2010
  - .16 12" x 18" RCP that extends 41' under plant access road will now extend to 52' as shown on sheet C-5 100% Submittal – Not For Construction, dated August, 2010 .
  - .17 New 24" to 16" ductile iron pipe & fittings downstream of the raw water meter up to the 16" stainless steel pipes shall be lined have an epoxy lining.
  - .18 Specification Section 01010, 1.03, A, Delete; Section A in its' entirety and replace with; "The NW WTP Phase C work scope is defined in Work Scope A, Work Scope B, and Work Scope C, (Which are cited and included as part of the NW WTP Phase B Proposal Package), as well all Electrical, Instrumentation, the 1.5 MG Prestressed Concrete Tank, (All as detailed in the 90% Contract Documents and this attachment) and all Owner Supplied Equipment.
  - .19 Stock piled earth at CR 214 Water Treatment Plant site may be used for this project.

- .20 The existing gravel/dirt entrance road shall be maintained as necessary to facilitate equipment deliveries and access to the Northwest Water Treatment Plant and Master Lift Station.
  - .21 Chemical Metering Enclosure is now 21' x 11' 8" instead of 16' x 10' as shown on sheet S-6.
  - .22 Door stoops will be provided for both Chemical Metering & Electrical Enclosure.
  - .23 CDM will prepare and conduct meetings (Reference Section 01200 – Project meetings).
  - .24 Specification Section 01390 as a note of clarification project progress photos will be taken digitally by CDM On-Site Construction Manager.
  - .25 Setback between Sodium Hypochlorite Pad and Chemical Metering Enclosure will be 10' instead of 4' 4" as shown on sheet M-7.
  - .26 Setback between Sodium Hydroxide Pad and Chemical Metering Enclosure will be 5' instead of 3' 2" as shown on sheet M-7.
  - .27 GMP includes cost for a simplex pump with a spare pump for the Grinder Pump Station.
  - .28 Remove the first 16" DI 45 Degree Bend following 16" DI Tee on the 16" FW at the access road crossing.
  - .29 GMP includes manual inspection sight glass for chemical piping leak detection per specification section 02626.
  - .30 Overflow for Clearwell is to be relocated to East & West walls of Clearwell rather the North wall at Transfer Pumps location shown on sheets M-4 & M-5.
  - .31 If the Transfer Pumps do not require vacuum priming system RTD will provide a credit of \$8,680.00.
  - .32 GMP includes rain protection of the Off Gas Scrubber, (FRP 90 degree bend on exhaust stack & drain system).
  - .33 GMP includes recoating the existing .5 MG ground storage tank.
  - .34 GMP includes removing the existing tray aerator and the exhaust fans and installing roof vents.
  - .35 CDM to coordinate with the Owner regarding, however .5 MG tank cleaning is not included in the GMP.
  - .36 GMP includes Fiberglass Grating instead of Steel Grating as shown on detail C on sheet S-8.
  - .37 GMP includes Concrete Sample Pump Support Pad on sheet M-4.
  - .38 GMP includes changing PVC PW lines shown on sheet M-4 & M-5 from 4" to 2".
  - .39 GMP includes 2-16" Stainless Steel Expansion Joints to Degasifier Influent see sheet M-4.
  - .40 GMP includes 36" back draft dampener on 36" Offgas to Odor Control Scrubber see sheet M-5.
  - .41 GMP include access hatch for CO2 injection point.
  - .42 GMP includes booster pump pipe & fittings to be ductile Iron with an epoxy coating.
  - .43 GMP includes pipe supports for 16" Stainless Steel Degasifier Influent.
  - .44 GMP does not include removal or abandonment of the 24" RW Influent to the .5MG Ground Storage Tank installed as part of Phase B.
  - .45 The 24" X16" DI Tee on the 24" RW is shown as new to Phase C portion of work but is existing and is included as part of the Phase B portion of work.
  - .46 GMP includes an allowance of \$49,607.00 for coatings in the Clearwell.
  - .47 GMP does not include coatings of any exterior concrete or piping.
  - .48 GMP does not include any additional Engineering Fees. Additional Engineer Fees are to be paid as part of Phase B Contingency.
  - .49 GMP includes access ladders & safety cage for Sodium Hypochlorite & Sodium Hydroxide Tanks.
  - .50 GMP includes costs for Corrosion Inhibitor Ramp & Containment Pallet, but does not include costs for the 50 Gallon Drum or Tote.
3. The GMP includes a total adjusted Design-Builders Contingency (DBC) in the amount of Eighty Five Thousand Six Hundred & Ten Dollars and Fifty Cents (\$85,610.50) which is available for Design-Builders use for costs that are incurred in performance of the Work that was not clearly identified in the contract documents. The (DB) contingency is not available to Owner for changes in scope or any other item which would enable Design-Builders to increase the GMP under the contract documents.

4. Design-Builder shall provide Owner with notice of all anticipated cost to be accrued against the Design Builder's Contingency no later than fourteen (14) days after such cost has been realized.
5. Any saving from the Design Builder's Contingency shall remain with the Owner. Upon completion of the project any unused DBC will be deleted from the Contract Amount.
6. The Total Amount of this Change Order includes a total adjusted Owner's Contingency in the additional amount of Eighty Five Thousand Six Hundred & Ten Dollars and Fifty Cents (\$85,610.50) which is available for the Owner to use for costs that are incurred in performing additional scope of work that was outside of the scope of the Work indicated in the contract documents and GMP for which the Design-Builder received approval from the Owner including additional cost as a result of errors or omissions in the design. The Owner's Contingency is not available to Design-Builder for any reason other than Owner approved changes in work scope.
7. All savings from the use of the Owner's Contingency will remain with the Owner. Upon completion of the project any unused Owner's Contingency will be deleted from the Contract Amount.
8. Substantial Completion for this phase of Work is defined as successful facility start-up, completed manufacture's services for training of Owners personnel, and beneficial use of the facility for the Owner, including FDEP COC, regardless of uncompleted punch list items, record documents, performance testing, reporting, O&M Manuals or other paper work.
9. The Work to be performed under this Agreement shall be commenced within Five (5) calendar days of being issued a Building Permit from Saint John County. Construction of the Northwest Water Treatment Plant, Phase B & C shall be substantially complete within 1018 consecutive calendar days from the date of the Phase B Notice to Proceed. Final Completion shall be completed within 90 calendar days from the date of Substantial Completion.
  - .1 Time of performance does not include the Owner electing to participate in purchasing of materials.

#### **10. Owner Furnished Equipment and Major Materials**

Owner may elect to participate in the procurement of major equipment for the project in order to realize potential State Sales Tax savings. Design Builder will work with Owner and will be responsible for:

- Development of the scope of the Purchase Order.
- Review of vendor proposals and making recommendations to Owner as to the best value of vendor proposals.
- Review of vendor shop drawings.
- Receipt and proper storage of vendor equipment at jobsite.
- Installation of equipment furnished under Owner Purchase Orders.
- Assisting Owner in the administration of Purchase Orders issued by Owner.

Prior to proceeding with the procurement phase of the project, Owner shall advise Design Builder of the purchases that they wish to participate in issuance of purchase orders.

Owner is responsible for promptly issuing the Purchase Orders, making payments due vendors under the Purchase Orders, administering the Purchase orders, and for administering the warranty.

If Owner elects to purchase major equipment for the project pursuant to the provisions in this Section 15, Design Builder shall be entitled to receive fee on the total of Owner furnished equipment.

All such sales tax savings will be deducted from the total amount of the Contract.

#### 11. Compensation and Design Builder's Fee

- A. Compensation for services and work of Design Builder described in this Change Order will be on the following basis:
  - .1 The Owner agrees to reimburse the Design Builder for the Cost of the Work as defined herein. Such reimbursement shall be in addition to the Design Builder's fee as set forth herein.
- B. The Owner agrees to pay the Design Builder in current funds as compensation for its work and services a Design Builders fee as follows:
  - .1 Design Builder's Fees on the Work is 10%
  - .2 Design Builders Fee's shall not be added to Permits, Bonds, and Insurance.
  - .4 Design Builder's Total Fees are to equal but not to exceed a total of 10% of the final value of this change order work (defined by D/B fee paid, divided by final change order value). The final change order value is to include the amounts of Owner elected purchases and deducted sales tax per Item 10 above.
  - .5 Design Builder's Profession Engineering Design Services are Lump Sum.
  - .6 Design Builder's Profession Engineering Services during Construction are Lump Sum.

#### 12. Cost of the Work. The term Cost of the Work shall mean costs reasonably incurred by Design Builder in the proper performance of the Work. The Cost of the Work shall include only the following:

- .1 **Engineering Staff:** Wages or salaries of direct employees of Design Builder performing the Work at the Site or at locations off the Site, provided, however, that the costs for those employees of Design Builder performing design services shall be calculated on the basis of, if applicable, those rates set forth in an exhibit to this Agreement.
- .2 **Non-Craft Construction Staff:** Wages or salaries of Design Builder's supervisory, field engineering and administrative personnel (non-craft) engaged in the performance of the Work and who are located at the Site or working off-Site to assist in the production or transportation of material and equipment necessary for the Work.
- .3 **Office Construction Staff:** Wages or salaries of Design Builder's personnel stationed at Design Builder's principal or branch offices and performing work directly on the project.
- .4 **Craft:** Wages or salaries of the Design Builder construction craft personnel engaged in the performance of the Work and who are located at the site or working offsite to assist in the production or transportation of material and equipment necessary for the Work.
- .5 **All staff:** Costs incurred by Design Builder for employee benefits, premiums, taxes, insurance, contributions and assessments required by law, collective bargaining agreements, or which are customarily paid by Design Builder, to the extent such costs are based on wages and salaries paid to employees of Design Builder covered under Sections 6.1 through 6.4 hereof.

- .6 The actual direct cost of travel, accommodations and meals for Design Builder's personnel necessarily and directly incurred in connection with the performance of the Work. Travel and per diem expenses for meals shall be in accordance with Federal and State travel guidelines unless Design Builder can demonstrate that accommodations at such rates are not available within twenty miles of the project site.
- .7 Payments properly made by Design Builder to Subcontractors and Design Consultants for performance of portions of the Work, including any insurance and bond premiums incurred by Subcontractors and Design Consultants.
- .8 Costs incurred by Design Builder in repairing or correcting defective, damaged or nonconforming Work, provided that such defective, damaged or nonconforming Work was beyond the reasonable control of Design Builder or those working for Design Builder, and not the negligence of Design Builder or those working for Design Builder. If the costs associated with such defective, damaged or nonconforming Work are recoverable from insurance, Subcontractors or Design Consultants, Design Builder shall exercise best efforts to obtain recovery from the appropriate source and credit Owner if recovery is obtained.
- .9 Costs, including transportation, inspection, testing, storage and handling, of materials, equipment and supplies incorporated or reasonably used in completing the Work.
- .10 Costs less salvage value of necessary materials, supplies, temporary facilities, machinery, equipment and tools not customarily owned by the workers that are not fully consumed in the performance of the Work and which remain the property of Design Builder, including the costs of transporting, inspecting, testing, handling, installing, maintaining, dismantling and removing such items.
- .11 Costs of removal of debris and waste from the Site.
- .12 The actual costs and expenses incurred in establishing, operating and demobilizing the Site office, including the cost of facsimile transmissions, long distance telephone calls, postage and express delivery charges, telephone service, photocopying and reasonable petty cash expenses.
- .13 Rental charges and the costs of transportation, installation, minor repairs and replacements, dismantling and removal of temporary facilities, machinery, equipment not customarily owned by the workers, which are necessary for the project and provided by Design Builder at the Site, whether rented from Design Builder or others, and incurred in the performance of the Work.
- .14 Premiums for insurance and bonds required by this Agreement or the performance of the Work.
- .15 All fuel and utility costs incurred in the performance of the Work.
- .16 Sales, use or similar taxes, tariffs or duties incurred in the performance of the Work.
- .17 Legal costs, court cost and costs of mediation and arbitration reasonably arising from Design Builder's performance of the Work, provided such costs do not arise from disputes between owner and Design Builder.

- .18 Costs for permits, royalties, licenses, tests and inspections incurred by Design Builder as a requirement of the Contract Documents.
- .19 The cost of defending suits or claims for infringement of patent rights arising from the use of a particular design, process, or product required by Owner, paying legal judgments against Design Builder resulting from such suits or claims, and paying settlements made with Owner's consent.
- .20 Deposits which are lost, except to the extent caused by Design Builder's negligence.
- .21 Costs incurred in preventing damage, injury or loss in case of an emergency affecting the safety of persons and property.
- .22 Other costs reasonably and properly incurred in the performance of the Work to the extent approved in writing by Owner.

**End of Attachment "A"**

**Attachment "B"**  
**Documents / Basis of Guaranteed Maximum Price**  
**St. Johns County Utility Department**  
**Northwest Water Treatment Plant Phase C Improvements**

The following is a compiled list of contract documents that serve as the basis of the Lump Sum Amount of this Subcontract.

This list of contract documents are based on the Contract Specifications entitled in part St. Johns County Utility Department, Northwest Water Treatment Plant, Technical Specifications, 90% Submittal, June 2010; the Contract Drawings entitled in part St. Johns County Utility Department, St. Johns County Florida, Northwest WTP Phase C 6.0 MGD MDF Expansion, June 2010; 90% Submittal, Not For Construction:

JUNE 2010. NORTHWEST WTP PHASE C – 6.0 MGD MDF EXPANSION. TECHNICAL SPECIFICATIONS. 90% SUBMITTAL:

<u>DIVISION 1</u>	<u>GENERAL REQUIREMENTS</u>
01010	SUMMARY OF WORK
01014	CONSTRUCTION SEQUENCE
01045	CUTTING AND PATCHING
01046	CONTROL OF WORK
01047	MODIFICATIONS TO EXISTING STRUCTURES, PIPING AND EQUIPMENT
01050	PROJECT CONTROLS (SURVEYING)
01110	ENVIRONMENTAL PROTECTION PROCEDURES
01172	PIPE PENETRATIONS
01200	PROJECT MEETINGS
01300	SUBMITTALS
01370	SCHEDULE OF VALUES
01390	CONSTRUCTION PHOTOGRAPHS
01410	TESTING AND TESTING LABORATORY SERVICES
01480	WATERTIGHTNESS TEST FOR HYDRAULIC STRUCTURES
01520	CONSTRUCTION AIDS
01580	PROJECT IDENTIFICATION AND SIGNS
01610	MATERIAL AND EQUIPMENT
01630	SUBSTITUTIONS AND PRODUCT OPTIONS
01650	FACILITY STARTUP
01710	CLEANING
01720	PROJECT RECORD DOCUMENTS
01730	OPERATIONS AND MAINTENANCE DATA
01740	WARRANTIES AND BONDS

<u>DIVISION 2</u>	<u>SITE WORK</u>
02050	DEMOLITION AND MODIFICATIONS
02100	SITE PREPARATION
02140	DEWATERING AND DRAINAGE
02200	EARTHWORK
02220	STRUCTURAL EXCAVATION
02221	TRENCHING, BACKFILLING AND COMPACTION
02230	GRANULAR FILL MATERIALS
02270	EROSION AND SEDIMENTATION CONTROL
02280	SOIL TREATMENT FOR TERMITE CONTROL
02325	SHEETING, WAILING AND SHORING
02513	ASPHALTIC CONCRETE PAVING
02515	CONCRETE WALKWAYS
02600	YARD PIPING

02605        PRECAST CONCRETE MANHOLES AND STRUCTURES  
02612        REINFORCED CONCRETE DRAIN PIPE  
02616        DUCTILE IRON PIPE AND FITTINGS  
02622        POLYVINYL CHLORIDE (PVC) PIPE  
02626        DOUBLE WALL CHEMICAL PIPE SYSTEM  
02638        PIPE MARKING, UTILITY MARKING TAPE, AND LOCATE WIRE  
02661        PIPELINE CLEANING  
02668        CONNECTIONS TO AND WORK ON THE EXISTING SYSTEM  
02831        CHAIN LINK FENCE  
02901        MISCELLANEOUS WORK AND CLEANUP  
02910        SODDING  
02933        SEEDING

DIVISION 3    CONCRETE

03100        CONCRETE FORMWORK  
03200        CONCRETE REINFORCEMENT  
03250        CONCRETE JOINTS AND ACCESSORIES  
03300        CAST-IN-PLACE CONCRETE  
03350        CONCRETE FINISHES  
03480        PRECAST CONCRETE BUILDING  
03600        GROUT

DIVISION 4    MASONRY: (NOT USED)

DIVISION 5    METAL

05500        MISCELLANEOUS METAL

DIVISION 6    WOODS AND PLASTICS: (NOT USED)

DIVISION 7    THERMAL AND MOISTURE PROTECTION: (NOT INCLUDED)

DIVISION 8    DOORS AND WINDOWS

08120        ALUMINUM DOORS AND FRAMES  
08710        DOOR HARDWARE  
08800        GLASS AND GLAZING

DIVISION 9    FINISHES

09902        FIELD PAINTING

DIVISION 10   SPECIALTIES

10420        SIGNAGE  
10522        FIRE EXTINGUISHER AND ACCESSORIES  
10530        PRE-ENGINEERED FREESTANDING CANOPY

DIVISION 11   EQUIPMENT

11216        FINISHED WATER HORIZONTAL SPLIT CASE CENTRIFUGAL TRANSFER PUMPS  
11217        HORIZONTAL SPLIT CASE CENTRIFUGAL BOOSTER PUMPS FOR CARBON DIOXIDE  
              MAKE UP WATER  
11246        HIGH DENSITY CROSSLINKED POLYETHYLENE TANKS FOR SODIUM  
              HYPOCHLORITE SYSTEM  
11251        WATER SOFTENING SYSTEM  
11286        CARBON DIOXIDE SYSTEM  
11303        PACKAGE GRINDER SUBMERSIBLE PUMPING STATION  
11345        CHEMICAL METERING SYSTEMS

DIVISION 12   FURNISHINGS: (NOT USED)

<u>DIVISION 13 SPECIAL CONSTRUCTION</u>	
13086	FORCED DRAFT STRIPPING TOWER (DEGASIFIER)
13300	INSTRUMENTATION

DIVISION 14 CONVEYING SYSTEMS: (NOT USED)

<u>DIVISION 15 MECHANICAL</u>	
15051	PIPING - GENERAL REQUIREMENTS
15052	PIPE TESTING - GENERAL REQUIREMENTS
15064	PLASTIC PIPE AND FITTINGS
15066	STAINLESS STEEL PIPE AND FITTINGS
15075	CHEMICAL HOSE AND APPURTENANCES
15100	VALVES AND APPURTENANCES
15120	PIPING SPECIALTIES
15140	PIPE HANGERS AND SUPPORTS
15450	PLUMBING - EQUIPMENT
15500	HVAC
15520	ALUMINUM LOUVERS
15885	ODOR CONTROL SYSTEM (SCRUBBER TOWER)
15891	FIBERGLASS DUCTWORK AND ACCESSORIES

<u>DIVISION 16 ELECTRICAL</u>	
16000	ELECTRICAL WORK - GENERAL
16150	ELECTRIC MOTORS
16400	ELECTRICAL APPARATUS
16600	GROUNDING SYSTEM
16800	ELECTRICAL CONTROL EQUIPMENT

JUNE 2010, NORTHWEST WPT PHASE C 6.0 MGD MDF EXPANSION, 90% SUBMITTAL DRAWINGS NOT FOR CONSTRUCTION:

GENERAL:

<u>SHEET NO.</u>	<u>TITLE</u>
	COVER SHEET
G-1	INDEX, LEGEND ABBREVIATIONS AND NOTES
G-2	HYDRAULIC PROFILE
G-3	PROCESS FLOW DIAGRAM

CIVIL:

<u>SHEET NO.</u>	<u>TITLE</u>
C-1	CIVIL LEGEND
C-2	SITE PLAND AND SOIL BORING LOCATIONS
C-3	HORIZONTAL CONTROL
C-4	REVISED PHASE C YARD PIPING PLAN
C-5	PAVING, GRADING AND DRAINAGE PLAN
CD-1	MISCELLANEOUS CIVIL DETAILS
CD-2	MISCELLANEOUS CIVIL DETAILS AND SECTIONS
CD-3	EROSION CONTROL DETAILS

STD DETAILS:

<u>SHEET NO.</u>	<u>TITLE</u>
GN-01	GENERAL NOTES
G-01	GENERAL DEATIALS
GW-01	GENERAL WATER DETAILS
GW-02	GENERAL WATER DETAILS

STRUCTURAL:

<u>SHEET NO.</u>	<u>TITLE</u>
S-1	STRUCTURAL GENERAL NOTES
S-2	CLEARWELL, DEGASIFIER, ODOR CONTROL SCRUBBER, AND TRANSFER PUMPS SLAB PLAN AND SECTION
S-3	CLEARWELL BASE SLAB AND T/STRUCTURE PLANS
S-4	CLEARWELL SECTIONS AND DETAILS
S-5	ELECTRICAL BUILDING PLAN AND SECTIONS
S-6	CHEMICAL METERING ENCLOSURE PLAN AND SECTIONS
S-7	PRECAST DOOR SCHEDULE AND DETAILS AND STAIR DETAILS
S-8	SODIUM HYPOCHLORITE PAD PLANS AND MISC. PAD SCHEDULE
SD-1	STANDARD DETAILS

MECHANICAL:

<u>SHEET NO.</u>	<u>TITLE</u>
M-1	MECHANICAL GENERAL NOTES AND LEGEND
M-2	1.5 MG GROUND STORAGE TANK DEMOLITION AND MODIFICATIONS
M-3	0.5 MG GROUND STORAGE TANK DEMOLITION AND MODIFICATIONS
M-4	CLEARWELL - PLAN
M-5	CLEARWELL - SECTIONS AND DETAILS
M-6	CLEARWELL, DEGASIFIER AND ODOR CONTROL SCRUBBER SECTIONS
M-7	BULK CHEMICAL STORAGE PLAN
M-8	BULK CHEMICAL STORAGE SECTIONS AND DETAILS
M-9	LIQUID CO2 STORAGE TANK SECTIONS AND DETAILS
M-10	CHEMICAL SYSTEMS DETAILS
M-11	CHEMICAL SYSTEMS DETAILS
MD-1	MISCELLANEOUS MECHANICAL DETAILS
MD-2	MISCELLANEOUS MECHANICAL DETAILS
MD-3	MISCELLANEOUS MECHANICAL DETAILS
MD-4	PIPE HANGER DETAILS

HVAC

<u>SHEET NO.</u>	<u>TITLE</u>
H-1	CHEMICAL METERING ENCLOSURE AND ELECTRICAL BUILDING HVAC PLANS, SCHEDULES, AND DETAILS

ELECTRICAL

<u>SHEET NO.</u>	<u>TITLE</u>
E-1	LEGEND AND SCHEDULES
E-2	SINGLE LINE DIAGRAM - MAIN SWITCHBOARD
E-3	SINGLE LINE DIAGRAM - MCC1
E-4	SINGLE LINE DIAGRAM - MCC2
E-5	SINGLE LINE DIAGRAM - MCC 3
E-6	CONTROL WIRING DIGRAMS
E-7	CONTROL WIRING DIAGRAMS
E-8	CONTROL WIRING DIAGRAMS
E-9	ELECTRICAL SITE PLAN
E-10	ELECTRICAL BUILDING ELECTRICAL PLAN
E-11	CLEARWELL ELECTRICAL PLAN
E-12	CHEMICAL STORAGE ELECTRICAL PLAN
E-13	CONDUIT AND CABLE SCHEDULE
ED-1	ELECTRICAL DETAILS

INSTRUMENTATION

<u>SHEET NO.</u>	<u>TITLE</u>
I-1	INSTRUMENTATION LEGEND AND SCHEDULES
I-2	SCADA SYSTEM BLOCK DIAGRAM
I-3	P&ID - WATER TREATMENT PLANT
I-4	P&ID - CLEARWELL
I-5	P&ID - SODIUM HYPOCHLORITE FEED SYSTEM
I-6	P&ID - SODIUM HYDROXIDE FEED SYSTEM
I-7	P&ID - CORROSION INHIBITOR FEED SYSTEM
I-8	INSTRUMENTATION SCHEDULES
ID-1	INSTRUMENTATION DETAILS

END OF EXHIBIT B



# ST. JOHNS COUNTY CHANGE ORDER

Approval (initial & date)

Requestor: \_\_\_\_\_  
Dept Head: \_\_\_\_\_  
Purchasing: \_\_\_\_\_  
Buyer: \_\_\_\_\_

Project: Water Treatment Plant Improvement &  
Expansions at the County's CR 214 WTP  
& County's NW WTP

Change Order Number: #27 - DRAFT  
Date: December 21, 2010  
Project Number: 03-101  
SJC P.O.#: \_\_\_\_\_  
Original Contract Date: May 17, 2004  
Contract For: Design/Engineering Upgrade  
Water Treatment Plants with Low Pressure  
Reverse Osmosis Technology  
COST CODE: **TBD**

To Contractor: CDM Constructors, Inc  
8381 Dix Ellis Trail, Suite 400  
Jacksonville, FL 32256

The contract is changed as follows:  
Change Order #26 is hereby issued for the final design and construction of Northwest Water Plant Phase "C" in accordance with all terms and conditions of RFP 03-101, Design/Build Agreement dated 5/17/04 and CDM Phase "C" proposal.

**Not Valid until Signed by the Owner and Contractor.**

The original plus contract extension with modifications (Contract Sum) .....	\$ 564,368.00
Net change by previously authorized change orders .....	\$ 26,228,669.25
The (Contract Sum) prior to the change order was .....	\$ 26,793,037.25
The (Contract Sum) <b>(increased)</b> (decreased) (unchanged) by this change order in the amount of .....	\$ 3,220,184.00
The new (Contract Sum) including this change order will be not to exceed .....	\$ 30,013,221.25

The Contract Time will be **as shown below:**

**CO#27** – Substantial Completion, February 28, 2012.

All other contract terms and conditions remain unchanged and in full force and effect.

<u>CDM Constructors, Inc.</u>	<u>St. Johns County Utility Dept.</u>	<u>St. Johns County Board of County Commissioners</u>
<u>8381 Dix Ellis Trail, Suite 400</u>	<u>1205 SR 16</u>	<u>2446 Dobbs Road</u>
<u>Jacksonville, FL 33256</u>	<u>St. Augustine, FL 32084</u>	<u>St. Augustine, FL 32086</u>
_____	_____	_____
BY:		
_____	_____	_____
Date	Date	Date