

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE

- A. The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each bid item.
- B. All contract prices included in the Bid Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.

1.02 ESTIMATED QUANTITIES

The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The County does not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

1.03 WORK OUTSIDE AUTHORIZED LIMITS

No payment will be made for work constructed outside the authorized limits of work.

1.04 MEASUREMENT STANDARDS

Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

1.05 AREA MEASUREMENTS

In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

1.06 LUMP SUM ITEMS

Where payment for items is shown to be paid for on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

1.07

UNIT PRICE ITEM

Separate payment will be made for the items of work described herein and listed on the Bid Form. Any related work not specifically listed, but required for satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the County until as-built (record) drawings have been submitted and approved by the County.

1. Shop Drawings, Working Drawings.
2. Clearing, grubbing and grading except as hereinafter specified.
3. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
4. Dewatering and disposal of surplus water.
5. Structural fill, backfill, and grading.
6. Replacement of unpaved roadways, and shrubbery plots.
7. Cleanup and miscellaneous work.
8. Foundation and borrow materials, except as hereinafter specified.
9. Testing and placing system in operation.
10. Any material and equipment required to be installed and utilized for the tests.
11. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
12. Maintaining the existing quality of service during construction.
13. Maintaining or detouring of traffic.
14. Appurtenant work as required for a complete and operable system.
15. Seeding and hydro mulching.
16. As-built Record Drawings.

BID ITEM #1 - MOBILIZATION

Measurement and payment for this Bid Item shall include full compensation for the required 100 percent (100%) Performance Bond, 100 Percent (100%) Payment Bond, all required insurance for the project and the Contractor's mobilization and demobilization costs as shown in the Bid Form. Mobilization includes, but it not limited to: preparation and movement of personnel, equipment, supplies and incidentals such as safety and sanitary supplies/ facilities.

Payment for mobilization shall not exceed 10 percent (10%) of the total Contract cost unless the Contractor can prove to the County that his actual mobilization cost exceeds 10 percent (10%).

Partial payments for this Bid Item will be made in accordance with the following schedule:

Percent of Original Contract Amount:	Percent Allowable Payment of Mobilization/Demobilization Bid Item Price:
5	25
10	35

25	45
50	50
75	75
100	100

These payments will be subject to the standard retainage provided in the Contract. Payment of the retainage will be made after completion of the work and demobilization.

BID ITEM #2 - MAINTENANCE OF TRAFFIC

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for all maintenance of traffic, including coordination with FDOT, including all other local agencies, detour plan implementation, and all equipment and manpower necessary to comply with the FDOT Design Standards 600 Series.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM #3 - EROSION AND SEDIMENT CONTROL

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for erosion and sediment control, including permitting if required, coordination with federal, state and local agencies and all equipment and manpower necessary to comply with necessary agencies.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM #4 - MISCELLANEOUS WORK AND CLEANUP

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form for any other miscellaneous work not specifically included for payment under other Bid Items obviously necessary to complete the Contract. Partial payments will be based on the breakdown of the Bid Item in accordance with the Schedule of Values submitted by the Contractor and approved by the County. Payment shall also include, but not limited to, full compensation for project photographs, as-builts record drawings, project signs, traffic control, rubbish and spoil removal, repair, replacement or relocation of all signs, walls, private irrigation systems and related items and any and all other items required to complete the project in accordance with Contract Documents.

PROPOSED FORCE MAIN BID ITEMS:

BID ITEM - HDPE PIPE (HDD PIPE, HDD CASING PIPE AND CARRIER PIPE)

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter and DR rated HDPE pipe by directional drill, as well as the carrier pipe, and associated fused end adapters in the Contract Drawings and listed on the Bid Form. As part of the testing methods

for the HDPE pipe installation, the Contractor shall televise or pull a mandrill through the installed HDPE pipe to verify sound installation

Measurement and Payment shall be made for the actual length of the listed diameter pipe directional drilled and installed, as well as the carrier pipe, and will represent full compensation for all labor, materials, excavation, including rock, dewatering, bedding, backfill, compaction, testing, pipe restraints, mud trailer, and equipment required to complete these Bid Items. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement. No additional compensation shall be made for extensive dewatering.

BID ITEM	DESCRIPTION	UNITS
5	24" HDPE Pipe - HDD Pipe	LF
6	24" HDPE Pipe - Carrier Pipe	LF
7	36" DR21 HDPE Pipe - HDD Casing Pipe	LF

BID ITEM #8 - 24" PVC (C-905) FORCE MAIN

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC force main AWWA C-905 pipe as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe and installed and will represent full compensation for all labor, materials, excavation, including rock, dewatering, bedding, backfill, compaction, testing and equipment required to complete these Bid Items. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement. No additional compensation shall be made for extensive dewatering.

BID ITEM #9 - 24" PLUG VALVES

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each valve for furnishing and installing the listed diameter valve, box, cover, pipe adaptor, and concrete pad as shown on the Contract Drawings and listed on the Bid Form. All Plug Valves shall be holiday free and "true" full 100% port eccentric plug valves, have testing certification papers stating it passed holiday free testing, and be manufactured by Kennedy, Dezurik, or an approved equal. Manufacturer of alternate equipment shall submit a pre-approval submittal package to Manatee County Purchasing contact listed in the Bid Documents, for Engineer's approval, no later than deadline for Clarification Requests date listed in the Bid Documents. Submittal shall include performance data and a complete bill of materials for all equipment, showing dimensions and materials of construction of all components, verifying that product will meet the standards specified in Section 02640 - 2.05 of the specifications.

Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, testing and equipment required to complete these Bid Items.

BID ITEM - DUCTILE IRON FITTINGS

Payment for all work included in these Bid Items will be made at the applicable Contract unit

price bid for furnishing and installing each listed ductile iron fitting (Protecto 401 epoxy lined) as shown on the Contract Drawings and listed on the Bid Form. Payment will be made for each fitting installed and will represent full compensation for all labor, material, excavation, including rock, bedding, backfill, compaction, mechanical joint restraint, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
10	24" DI Fittings - 11.25 Degree	EA
11	24" DI Fittings - 22.5 Degree	EA
12	24" DI Fittings - 45 Degree	EA

BID ITEM #13 - 24" BELL JOINT PIPE RESTRAINTS

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per each restraint required to restrain the piping required by the Contract Drawings. Measurement will be based on each complete restraint furnished and installed except where specifically included in another pay item. Payment shall represent full compensation for all labor, material, equipment, excavation, including rock, bedding, backfill, compaction, and testing required to complete this Bid Item. This Bid Item includes the installation of restraints used in restraining PVC and ductile iron pipe of the specified type acceptably furnished and installed as shown on the drawings or where directed by the Project Representative and in accordance with the pipe and restraint manufacturer's requirements. The work shall include, but is not limited to, all bolts, nuts, washers, gaskets, and all other related and necessary materials, work and equipment required or associated with this item.

BID ITEM #14 - MAG METER ASSEMBLY

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the purchase and installation of a magnetic flow meter, ductile iron pipe, flanged and mechanical joint fittings, restraints, air release valve, pipe supports, abandonment/removal of existing force main and vaults, bollards, weed barrier, shell, concrete slab, and pipe appurtenances included in the mag meter detail shown on the construction drawings. The mag meter shall be an ABB FEW 325.600.H.1.S.4.A1.B.1.A.1.A.4.P.3.B.3.A.1.M5.V3.CWM or approved equal. Manufacturer of alternate equipment shall submit a pre-approval submittal package to Manatee County Purchasing contact listed in the Bid Documents, for Engineer's approval, no later than deadline for Clarification Requests date listed in the Bid Documents. Submittal shall include performance data and a complete bill of materials for all equipment, showing dimensions and materials of construction of all components, verifying that product will meet the standards below.

Flow meters installed must be rated for continuous submergence, 0.05% accuracy with a polyurethane liner, flush electrodes, FM Class 1, Division 2, Groups A,B,C&D and shall be constructed for a flanged mount. Meter shall be supplied with a like size spool piece. The exterior control module/transmitter shall be mounted either inside or adjacent to the lift station control panel on the same support structure per the Lift Station Supervisor.

Payment for all work included, but is not limited to, under this Bid Item labor shall include material, excavation, bedding, backfill, compaction, rock as necessary, installation, testing and

obtaining approval from the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM #15- AIR RELEASE VALVE (BELOW GROUND)

Payment for all work included in these Bid Items shall be at the applicable Contract unit price bid per each air release valve for furnishing and installing the listed diameter air release valve, and underground manhole as shown on the Contract Drawings and listed on the Bid Form.

The air release valve shall be manufactured by GA Industries or an approved equal. Manufacturer of alternate equipment shall submit a pre-approval submittal package to Manatee County Purchasing contact listed in the Bid Documents, for Engineer's approval, no later than deadline for Clarification Requests date listed in the Bid Documents. Submittal shall include performance data and a complete bill of materials for all equipment, showing dimensions and materials of construction of all components, verifying that product will meet the standards specified in Section 02640 - 2.07 of the specifications.

Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, disinfection and equipment required to complete these Bid Items.

BID ITEM #16- PIG LAUNCHER/RECEIVER STATION

Payment for all work included in these Bid Items shall be at the applicable Contract unit price bid per each pig launcher station for furnishing and installing the listed diameter pipe, fittings, valves, boxes, cover and concrete pad as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, and equipment required to complete these Bid Items.

BID ITEM #17 - LIFT STATION CONNECTION

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for proposed connections to existing force mains, proposed force mains, and existing manholes and/or lift stations. Payment for all work included, but is not limited to, under this Bid Item shall also represent full compensation in accordance with the lump sum price bid for all labor, fittings, excavation, dewatering, bedding, backfill, compaction, testing, equipment, temporary line stops and the bypassing of the existing lift station in order to complete the proposed improvements, including any bypass pumping during the construction.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM #18 - FORCE MAIN CONNECTIONS

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for proposed connections to existing force mains and proposed force mains. Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for all labor, fittings, excavation, dewatering, bedding, backfill, compaction, testing, equipment, the temporary shutdown of the existing lift station to connect the proposed force main, and all temporary line stops for force main connections. Bid item should also include the following provisions for each lift station:

- LS 13A - 63rd Avenue East - 4 septic storage trucks
- LS 14A - 9th Street E and Whitfield Avenue - 2 septic storage trucks
- Samoset 1 (RTU308) - 34th Ave East and 18th Street East - 2 septic storage trucks

Coordinate with Nick Wagner (Lift Station Superintendent) with Manatee County for shutdown of Lift Stations. At least four days' notice needs to be provided to Nick to coordinate shutdown. Phone Number: 941-792-8811 EXT 5377. Connection must also be made outside of peak hours between 9PM and 5AM.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM #19 - GROUT FILL ABANDONED EXISTING FORCE MAIN

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the unit price bid per cubic yard of grout fill that is required to abandon all of the existing force mains to be deactivated. Payment will include all equipment, labor, fittings and appurtenances required to abandon the existing force mains in accordance with County standards.

BID ITEM - PAVEMENT REPAIR AND ROAD RESTORATION

Payment for all work included under this Bid Item for pavement repair and road restoration will be made at the Contract unit price bid per square yard of roadway base, subbase and tonnage of asphalt for furnishing, installing and testing the road restoration pavement section within these Specifications and as listed on the Bid Form. Measurement will be based on the actual number of square yards of road restoration installed, tested, completed and approved. The measurement will be from face of curb to face of curb or as specified, but not greater than the width of the existing roadway prior to construction. Payment will include complete restoration of the roadway section in accordance with the applicable details on the Contract Drawings, but not less than 1-1/2 inches of FDOT Type III asphaltic concrete, the necessary base, subbase or compacted suitable excavation material all in accordance with these Specifications. Pavement Restoration must include the thermoplastic restriping of the roadway and bi-directional reflective pavement markers to FDOT standards. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Payment shall include all items and incidentals necessary to complete the road restoration in accordance with the County requirements.

BID ITEM	DESCRIPTION	UNITS
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20	Pavement Repair and Road Restoration (Base & Resurface)	SY
21	Pavement Repair and Road Restoration (Mill & Resurface)	SY

BID ITEM #22 - CURB AND GUTTER REPLACEMENT

Payment for all work included in this Bid Item will be made at the applicable Contract unit price bid per linear foot for removal of existing curbing and for furnishing and placing curb and gutter as shown on the Drawings and listed on the Bid Form. Measurement will be per actual number of linear feet of curbing installed. Payment shall represent full compensation for removal of existing curb and all labor, material and equipment for compacting subgrade, forming, furnishing, placing the concrete, and finishing as specified and all incidentals necessary for completion of this Bid Item, ready for approval and acceptance by the County.

BID ITEM - DRIVEWAY/SIDEWALK RESTORATION

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square yard of shell, asphaltic concrete, or concrete driveway restoration as listed on the Bid Form. Measurement of driveway or sidewalk restoration will be per the actual number of square yards replaced. Payment shall represent full compensation for all labor, materials and equipment for cutting the edges of existing driveways, compacting subgrade, furnishing and installing the shell, asphaltic concrete or concrete and all incidentals necessary to complete the driveway/sidewalk restoration as shown on the Contract Drawings and included in the Specifications, all ready for approval and acceptance by the County.

BID ITEM	DESCRIPTION	UNITS
23	Driveway/Sidewalk Restoration	SY
24	Gravel/Shell Driveway Restoration	SY

BID ITEM #25 -SODDING

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square yard for furnishing and installing sodding as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

BID ITEM #26 - TREE REMOVAL

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per each tree to be removed as shown on the Contract Drawings and listed on the Bid Form. Contractor to reference Contract Drawings for tree sizes. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

BID ITEM #27 - ABOVE GROUND COATING AND PAINTING

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the unit price bid per square yard of coating and painting that is required to coat and paint the existing aerial crossings (two) that will remain active on

Saunders Road. Payment will include all equipment, labor, materials, and appurtenances required to coat and paint the existing force mains in accordance with County standards.

BID ITEM #28 - PIGGING AND PRESSURE TESTING

Payment for all work included in these Bid Items will be made at the applicable Contract lump sum bid for test pigging and pressure testing the proposed force main. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

BID ITEM #29 - PRECONSTRUCTION VIDEO

Payment for all work included in this Bid Items will be made at the applicable Contract lump sum bid for the preconstruction video of the existing site conditions. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

BID ITEM #30 - STORM WATER DRAINAGE FLUME (REMOVAL AND REPLACEMENT) FOR PIPELINE

Payment for all work included in this Bid Item shall be per each storm water structure removed and replaced for proper installation of the proposed pipeline. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, and equipment required to complete this Bid Item.

BID ITEM - THERMOPLASTIC STRIPING

Payment for all work included in this Bid Item shall be per linear feet of additional thermoplastic striping removed and reapplied as shown in the construction plans. Striping in regard to the pavement restoration shall be accounted for in Bid Items 19 and 20. Payment shall represent full compensation for all labor, material, preparation, application and equipment required to complete this Bid Item.

BID ITEM	DESCRIPTION	UNITS
31	Thermoplastic, White 12"	LF
32	Thermoplastic, White 24"	LF

BID ITEM #33- CHAIN-LINK FENCE

Payment for all work included in this Bid Item shall be per linear feet of chain-link fence

removed and replaced as shown in the construction plans in regards to the proposed chain link fence near the Master Pump Station 13A. Payment shall represent full compensation for all labor, material, preparation, installation and equipment required to complete this Bid Item.

BID ITEM # 34 - SITE GRADING

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square yard of site grading required to the regrade the sidewalk, driveways, drainage swales, and land area in plan sheets 33-35 as shown in the Contract Drawings and as listed on the Bid Form. Grading regarding the excavation and backfill of the force main shall be accounted for in Bid Item #8. Measurement will be based on the actual number of square yards that required grading that was completed and approved.

BID ITEM #35 - FENCE REPLACEMENT/RELOCATION

Payment for all work included in this Bid Item shall be per linear feet of fence removed and replaced/relocated as shown in the construction plans in regards to the chain link fence that will have to be replaced for the installation of the pipeline and sidewalk. Payment shall represent full compensation for all labor, material, preparation, installation and equipment required to complete this Bid Item.

BID ITEM #36 - MAILBOX REMOVAL AND REPLACEMENT

Payment for all work included in this Bid Item shall be per each mailbox removed and replaced/relocated as shown in the construction plans. Payment shall represent full compensation for all labor, material, preparation, installation and equipment required to complete this Bid Item.

PROPOSED SIDEWALK BID ITEMS:

BID ITEM # 37 - CONCRETE SIDEWALK

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square yard of concrete sidewalk installed as shown in the Contract Drawings and as listed on the Bid Form. Cost should include the installation of detectable warning strips shown on the Contract Drawings. Measurement will be based on the actual number of square yards of concrete sidewalk installed, tested, completed and approved. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item.

BID ITEM #38 - STORM WATER STRUCTURE (REMOVAL AND REPLACEMENT) FOR SIDEWALK

Payment for all work included in this Bid Item shall be per each storm water structure removed and replaced for proper installation of the proposed sidewalk. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction testing, and equipment required to complete this Bid Item.

BID ITEM #39 - THICKENED EDGE AND PEDESTRIAN RAILING, ALUMINUM 42"

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the railing and thickened edge as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed railing and installed and will represent full compensation for all labor, materials, testing and equipment required to complete these Bid Items.

BID ITEM #40 - GUARDRAIL REMOVAL AND REPLACEMENT

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for removing, furnishing and installing the guard rail as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed railing installed and will represent full compensation for all labor, materials, testing and equipment required to complete this Bid Items.

PROPOSED HEADER PIPING BID ITEMS:

BID ITEM #41 - EXISTING PIPING/FITTING DEMOLITION

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for demolishing the piping and fittings as shown in the Contract Drawings and listed on the Bid Form. Measurement and Payment will represent full compensation for all labor, materials, and equipment required to complete these Bid Items. Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

BID ITEM - DUCTILE IRON PIPE

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter ductile iron pipe as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe installed and will represent full compensation for all labor, materials, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
42	12" Ductile Iron Pipe	LF
43	16" Ductile Iron Pipe	LF
44	18" Ductile Iron Pipe	LF

BID ITEM - FLANGE DI FITTINGS

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid for furnishing and installing each listed ductile iron fitting (Protecto 401 epoxy lined) as shown on the Contract Drawings and listed on the Bid Form. Payment will be made for each fitting installed and will represent full compensation for all labor, material, flange restraint or adapter, testing and equipment required to complete these Bid Items.

BID ITEM	DESCRIPTION	UNITS
45	12" 90 Degree Bend	EA
46	16" x 12" Eccentric Reducer	EA
47	16" x 12" Reducing Tee	EA
48	18" x 16" Eccentric Reducer	EA
49	18" x 12" Reducing Tee	EA
50	18" 90 Degree Bend	EA
51	18" 45 Degree Bend	EA
52	18" FL x PE Wall Pipe	EA

BID ITEM #53 - MJ DI FITTINGS - 24" X 18" REDUCER

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid for furnishing and installing each listed ductile iron fitting (Protecto 401 epoxy lined) as shown on the Contract Drawings and listed on the Bid Form. Payment will be made for each fitting installed and will represent full compensation for all labor, material, excavation, including rock, bedding, backfill, compaction, mechanical joint restraint, testing and equipment required to complete these Bid Items.

BID ITEM #54 - PAINTING OF MANIFOLD PIPING

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form for the coating and painting of the manifold piping within Lift station 13A according to Specification Section 09900 - Painting. Partial payments will be based on the breakdown of the Bid Item in accordance with the Schedule of Values submitted by the Contractor and approved by the County. Payment shall also include, but not limited to, full compensation for preparation, priming, and all other items required to complete the project in accordance with Contract Documents.

BID ITEM #55 - CONTRACT CONTINGENCY

Payment for all work under this Bid Item shall be made only at the County's discretion. This Bid Item shall not exceed 10% of the Bidders Total Base Bid. The Bidder shall calculate and enter a dollar amount for this Bid Item.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION