



**Meadowbrook Addition Infrastructure
(PW19-001)**

Date: March 29, 2019
Re: Addendum #2

Note: This Addendum Includes two parts- part one consists of questions posed and clarifications, part two consists of changes to bidding documents.

PART I

Q: What constitutes the fire hydrant assembly?

A: The Fire Hydrant Assembly includes all fittings, hydrant, valves, etc. from the hydrant tee (paid separately) as shown in the typical drawing.

Q: Does the City anticipate any ground water in the work area? If so, can a bid item be established for dewatering?

A: Based on an open trench which already exists, it is not anticipated to encounter a high water table, however no geotechnical bores were completed for this project. Pumping will not be added as a line item for this project at this time.

Q: There seem to be discrepancies between the plans and specifications on units of measurement and quantities?

A: Those quantities shown on the plan set are for reference only. Those units and quantities shown on the bid sheet shall govern.

Q: What manhole rings and lids are required on this project?

A: As per the Fiberglass Manhole Detail, a 30" manhole cover and associated ring are required. The cost of the ring and cover should be included in the manhole bid item.

Q: Will vibration be allowed during compactive efforts?

A: Vibratory compactors will be permitted during compactive efforts. Engineer reserves the right to discontinue or modify procedures as necessary during construction to prevent damage to infrastructure. Disregard note 5, General Notes on Sheet G3 of the Plans.

Q: On page 00 52 13 –The Work will be substantially completed within 210 days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 240 days after the date when the Contract Times commence to run. Will this be a calendar day job or are these working days? Meaning, is this a nine (9) month job or a sixteen (16) month job?

A: The contract times are based on calendar days. It is anticipated that this will be a six month job.

Q: Will the Alleyway Chip Seal be included in this project? If so, can the city provide a bid item for this?

A: Quantities for hauling, installing, and compacting fill are included in this project for the alleyways where chip seal is called for, as are bid items for adjusting meter boxes in the alleys. Chip seal shall be performed by City Crews after completion of this project by Contractor.

Q: Item 12.03 on page 5 states, "The apparent Successful Bidder, and any other Bidder so requested, shall within five days after Bid opening, submit to Owner a list of the Subcontractors or Suppliers proposed for portions of the Work"; while Article 7-Attachments to this bid list items C. and D. List of Proposed Subcontractors and Suppliers as to be submitted with the bid. Should we include a list of Proposed Subcontractors and Suppliers with our bid or thereafter if apparent successful bidder? If required to be submitted with the bid, will a form be provided or should a list be generated by the contractor?

A: Item 12.03 goes on to state that *if requested by owner*, additional information on subcontractors, suppliers, etc. should be submitted within 5 days after the bid opening. Article 7 governs- *List of proposed subcontractors and suppliers are to be submitted with the bid.*

Q: Can the City provide water for construction? If so, what will the associated cost be?

A: The City will provide water for construction. Contractors shall be required to pay a refundable deposit for a city-issued hydrant meter. Deposit is \$1,000. Final Payment will not be made on the project until the hydrant meter is returned. City covers the cost of water.

Q: Can you advise me as to where the 6" and 12" Thermoplastic strip will be placed.

A: 6" Thermoplastic shall be placed at all crosswalks. 12" thermoplastic shall be used for stop bars. Thermoplastic shall be installed (i.e. laid out) in accordance with TMUTCD requirements.

PART II

Effective immediately, the following changes are made to the specifications for the above project:

- 1) Disregard note 5, General Notes on Sheet G3 of the Plans.

- 2) Replace Section 00 41 00.01 with the attached.
- 3) Replace Section 01 29 00-1 with the attached.

No further changes included in this Addendum.

Seth A. Sorensen
City Manager, Engineer
Town of Pecos City, Texas



MEADOWBROOK ADDITION INFRASTRUCTURE - PHASE I

Sheet 1 of 10

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
1	1	LS	MOBILIZATION	\$
			DOLLARS &	
			CENTS	
			PER LUMP SUM (\$ _____)	
2	1	LS	BONDS AND INSURANCE	\$
			DOLLARS &	
			CENTS	
			PER LUMP SUM (\$ _____)	
3	1	LS	MATERIALS TESTING	\$
			DOLLARS &	
			CENTS	
			PER LUMP SUM (\$ _____)	
4	1	LS	CONSTRUCTION SURVEYING	\$
			DOLLARS &	
			CENTS	
			PER LUMP SUM (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
5	1	LS	TRAFFIC CONTROL	
			DOLLARS &	
			CENTS	\$
			PER LUMP SUM (\$ _____)	
6	1	FA	CONTINGENCY	
			Fifty Thousand DOLLARS &	
			Zero CENTS	\$ 50,000.00
			PER FORCE ACCOUNT (\$ 50,000.00 _____)	
7	5	EA	DEMOLISH AND REMOVE EXISTING BRICK MANHOLE W/ CONCRETE COLLAR	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
8	1700	LF	REMOVE CLAY PIPE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
9	190	LF	REMOVE 6" WATER LINE - AC PIPE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
10	1	EA	REMOVE FIRE HYDRANT	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
11	20	LF	CUT AND REMOVE 8" WATER LINE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
12	11	ACRE	CLEARING AND GRUBBING	
			DOLLARS &	
			CENTS	\$
			PER ACRE (\$ _____)	
13	300	CY	UNCLASSIFIED EXCAVATION	
			DOLLARS &	
			CENTS	\$
			PER CUBIC YARD (\$ _____)	
14	19100	CY	HAULING AND INSTALLATION OF FILL MATERIAL	
			DOLLARS &	
			CENTS	\$
			PER CUBIC YARD (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
15	3000	CY	FLEXIBLE "CALICHE" BASE	
			DOLLARS &	
			CENTS	\$
			PER CUBIC YARD (\$ _____)	
16	1	LS	GRADING AND COMPACTION	
			DOLLARS &	
			CENTS	\$
			PER LUMP SUM (\$ _____)	
17	7220	LF	CURB & GUTTER AND/OR LAYDOWN CURB	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
18	810	SY	6" THICK CONCRETE DRIVEWAYS - REINFORCED	
			DOLLARS &	
			CENTS	\$
			PER SQUARE YARD (\$ _____)	
19	410	SY	6" REINFORCED CONCRETE ALLEYWAY TRANSITIONS	
			DOLLARS &	
			CENTS	\$
			PER SQUARE YARD (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
20	140	SY	6" REINFORCED CONCRETE DUMPSTER PAD	
			DOLLARS &	
			CENTS	\$
			PER SQUARE YARD (\$ _____)	
21	5840	SF	ADA COMPLIANT SIDEWALK - 4" THICKNESS	
			DOLLARS &	
			CENTS	\$
			PER SQUARE FOOT (\$ _____)	
22	46	EA	2' x 5' ADA DETECTABLE WARNING SURFACE	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
23	5750	GAL	PRIME COAT (SS-1)	
			DOLLARS &	
			CENTS	\$
			PER GALLON (\$ _____)	
24	3150	TON	TxDOT TYPE "D" HOT MIX ASPHALT CONCRETE (HMAC)	
			DOLLARS &	
			CENTS	\$
			PER TON (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
25	45	TON	TxDOT TYPE "D" HMAC-ASPHALT PATCHING	
			DOLLARS &	
			CENTS	\$
			PER TON (\$ _____)	
26	504	LF	6" WHITE STRIPING, THERMOPLASTIC	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
27	84	LF	12" WHITE STRIPING, THERMOPLASTIC	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
28	2760	LF	6" PVC SDR 35 SEWER PIPE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
29	1060	LF	8" PVC SDR 35 SEWER LINE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
30	1700	LF	10" PVC SDR 35 SEWER LINE	
			DOLLARS &	
			CENTS	\$
			PER LINEAR FOOT (\$ _____)	
31	4	EA	FIBERGLASS MANHOLE 3'-5' DEPTH	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
32	5	EA	FIBERGLASS MANHOLE 5'-10' DEPTH	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
33	5	EA	FIBERGLASS MANHOLE 10'-15' DEPTH	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
34	60	EA	6" SEWER SERVICE CONNECTION (COMPLETE)	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
35	1	EA	8" LATERAL PRESSURE INTERCONNECTION (HOT TAP) W/8" GATE VALVE	
			DOLLARS &	
			CENTS \$	
			PER EACH (\$ _____)	
36	5000	LF	8" AWWA C900 OR C909 PVC PIPE CLASS 150, DR-18	
			DOLLARS &	
			CENTS \$	
			PER LINEAR FOOT (\$ _____)	
37	9	EA	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE (COMPLETE)	
			DOLLARS &	
			CENTS \$	
			PER EACH (\$ _____)	
38	60	EA	3/4" WATER SERVICE CONNECTION (COMPLETE)	
			DOLLARS &	
			CENTS \$	
			PER EACH (\$ _____)	
39	1	EA	6" GATE VALVE - MJ	
			DOLLARS &	
			CENTS \$	
			PER EACH (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
40	19	EA	8" GATE VALVE - MJ	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
41	15	EA	8"X8" DI TEE- MJ	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
42	4	EA	8"X8" DI CROSS-MJ	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
43	1	EA	8"X8" DI 90° BEND- MJ	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	
44	10	EA	8"X6" DI REDUCER- MJ	
			DOLLARS &	
			CENTS	\$
			PER EACH (\$ _____)	

ITEM	QUANTITY	UNIT	DESCRIPTION & UNIT PRICE (LIST UNIT PRICE IN BOTH WORDS AND NUMBERS)	EXTENDED PRICE
45	2	EA	8"X8" DI COUPLER- MJ _____ DOLLARS & _____ CENTS \$ PER EACH (\$ _____)	
46	20	EA	VALVE BOX AND RISER _____ DOLLARS & _____ CENTS \$ PER EACH (\$ _____)	
47	27	EA	ADJUST MANHOLE/VALVE COVER TO FINISHED GRADE _____ DOLLARS & _____ CENTS \$ PER EACH (\$ _____)	
48	12	EA	MANHOLE CONCRETE COLLARS _____ DOLLARS & _____ CENTS \$ PER EACH (\$ _____)	
TOTAL BASE BID _____ _____ DOLLARS & _____ CENTS (\$ _____)				

01 29 00 PAYMENT PROCEDURES

1.00 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Submit Application for Payment to Engineer in accord with the schedule established by Conditions of the Contract and Agreement Between Owner and Contractor.

1.02 RELATED REQUIREMENTS

- A. Agreement Between Owner and Contractor.
- B. Conditions of the Contract: Progress Payments, Retainages, and Final Payment.
- C. Section 01 29 73: Schedule of Values.
- D. Section 01 77 00: Closeout Procedures.

1.03 FORMAT AND DATA REQUIRED

- A. Submit applications typed on EJCDC Document C-620, Contractor's Application for Payment, with itemized data typed on 8-1/2 x 11" white paper continuation sheets.
- B. Provide itemized data on continuation sheet
 - 1. Format, schedules, line items, and values: Those of the Schedule of Values accepted by Engineer.

1.04 PREPARATION OF APPLICATION FOR EACH PROGRESS PAYMENT

- A. Application Form
 - 1. Fill in required information, including that for Change Orders executed prior to date of submittal of application.
 - 2. Fill in summary of dollar values to agree with respective totals indicated on continuation sheets.
 - 3. Execute certification with signature of a responsible officer of Contract firm.
- B. Continuation Sheets
 - 1. Fill in total list of all scheduled component items of Work, with item number and scheduled dollar value for each item.
 - 2. Fill in dollar value in each column for each scheduled line item when work has been performed or products stored.
 - a. Round off values to nearest dollar, or as specified for Schedule of Values.
 - 3. List each Change Order executed prior to date of submission at the end of the continuation sheets.
 - a. List by Change Order Number and description, as for an original component item of work.

1.05 SUBSTANTIATING DATA FOR PROGRESS PAYMENTS

- A. When the Owner or the Engineer requires substantiating data, Contractor shall submit suitable information with a cover letter identifying:
 - 1. Project.
 - 2. Application number and date.
 - 3. Detailed list of enclosures.

4. For stored products:
 - a. Item number and identification as shown on application.
 - b. Description of specific material.
- B. Submit one copy of data and cover letter for each copy of application.

1.06 PREPARATION OF APPLICATION FOR FINAL PAYMENT

- A. Fill in Application form as specified for progress payments.
- B. Use continuation sheet to present the final statement of accounting as specified in Section 01 77 00: Closeout Procedures.

1.07 SUBMITTAL PROCEDURE

- A. Submit Application for Payment to Engineer at the times stipulated in the Agreement.
- B. Number: Five copies of each Application.
- C. When Engineer finds Application properly completed and correct, he will transmit certificate for payment to Owner with copy to Contractor.

1.08 MEASUREMENT AND BASIS OF PAYMENT

- A. No separate payment will be made for items not listed in this section. Prices are to include all costs, including overhead, profit, compliance with General Requirements and Technical Specifications and any and all incidentals required to complete the Project as specified in the Contract Documents and as shown on the Schedule of Values.
- B. Bid Item No. 1 – MOBILIZATION will be paid as a lump sum to perform preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, and sanitary and other facilities and lead paint testing, necessary for the start of the work, excluding the cost of construction materials and any other preconstruction expense. Mobilization shall not exceed 5% of the total base bid.
- C. Bid Item No. 2 – BONDS AND INSURANCE will be paid as a lump sum for the costs of acquiring, furnishing, and maintaining all required bonds and insurance for the durations specified in the Contract Documents.
- D. Bid Item No. 3 – MATERIALS TESTING will be paid as a lump for moisture density control of subgrade and base course and density control of asphalt pavements. This item includes all materials, labor, equipment, reports and incidentals for contract compliance, complete and in place.
- E. Bid Item No. 4 – CONSTRUCTION SURVEYING will be paid as a lump sum for the implementation of construction surveying. This item includes all materials, labor, equipment, and incidentals for establishing and maintaining survey control, benchmarks, slope stakes, grading hubs, etc.
- F. Bid Item No. 5 – TRAFFIC CONTROL will be paid as a lump sum for the implementation of traffic control measures. This item includes all materials, labor, equipment, and incidentals for establishing and maintaining a safe work zone in compliance with TMUTCD Standards.
- G. Bid Item No. 6 – CONTINGENCY will be paid as a force account for unforeseen work items and minor bid item overruns. Force account work shall include all labor, tools, equipment,

and incidentals required for the associated work items. Force Account items shall only be paid upon the proper execution of approved field and/or change orders.

- H. Bid Item No. 7 – DEMOLISH AND REMOVE EXISTING BRICK MANHOLE W/ CONCRETE COLLAR will be measured by the each, regardless of depth. This item includes all materials, labor, equipment, etc. necessary to remove existing brick manholes in preparation for the installation of new fiberglass manholes. Brick may be incorporated into road fill at the Engineer’s discretion, subject to the ability to meet compaction requirements. If not incorporated into the project, this item will include all costs to transport the demolition materials offsite to an approved location.
- I. Bid Item No. 8 – REMOVE CLAY PIPE will be measured by the linear foot, regardless of depth. This item includes all materials, labor, equipment, etc. necessary to remove existing clay sewer pipe in preparation for the installation of new PVC pipe.
- J. Bid Item No. 9 – REMOVE 6” WATER LINE – AC PIPE will be measured by the linear foot. This item includes all materials, labor, equipment, etc. necessary to remove existing 6” AC pipe. Contractor shall be required to remove and dispose of AC pipe in accordance with all State and Federal requirements.
- K. Bid Item No. 10 – REMOVE FIRE HYDRANT will be measured by the each. This item includes all materials, labor, equipment, etc. necessary to remove existing hydrants. Hydrants shall remain the property of the Owner. Contractor shall deliver removed hydrants to the Public Works Yard located on Walthall Street as part of this pay item.
- L. Bid Item No. 11 – CUT AND REMOVE 8” WATER LINE will be measured by the linear foot for length of pipe removed. This item includes all materials, labor, equipment, etc. necessary to expose and remove the water line, including excavation and cutting of pipe. The ultimate length will be determined based on field location of the existing 8”x6” DI Tee leading to the fire hydrant. All removed fittings shall remain the property of the Owner. Contractor shall deliver removed fittings to the Public Works Yard located on Walthall Street as part of this pay item.
- M. Bid Item No. 12 – CLEARING AND GRUBBING will be measured by the Acre and shall include the removal and disposal of all brush, trash, or other items found on the subject property that are not being incorporated into the project. Removal shall include the removal of all root structures. This item will include all costs to transport the materials offsite to an approved disposal location.
- N. Bid Item No. 13 – UNCLASSIFIED EXCAVATION will be measured by the cubic yard for excavation and removal from the project unsuitable fill. Work shall include all labor, tools, equipment, and incidentals required for the associated work items.
- O. Bid Item No. 14 – HAULING AND INSTALLATION OF FILL MATERIAL will be measured by the cubic yard and shall include all materials, labor, equipment, etc. necessary to load, haul, distribute and grade fill material to be incorporated into the project. Fill material to be supplied by the Town of Pecos City. Contractor shall be required to haul all material from the site located at the property located at 6th Street and Peach Street. Contractor shall be responsible for verifying quantities available to haul from this location to the project site. No over-excavation will be permitted at the 6th Street location. The remainder of the fill can be obtained at the Town of Pecos City landfill, located at 4990 TX Hwy 17, Pecos, Texas 79772.

- P. Bid Item No. 15 – FLEXIBLE “CALICHE” BASE will be paid by the cubic yard and will include all labor, tools, equipment, fuel, water, materials, and incidentals required to load, haul and install base material to the achieve finished grades and compaction rates as identified in the plans and specifications.
- Q. Bid Item No. 16 – GRADING AND COMPACTION will be paid as lump sum and will include all surveying, labor, material, equipment and water necessary to achieve finished grades and compaction rates as identified in the plans and specifications.
- R. Bid Item No. 17 – CURB & GUTTER/LAYDOWN CURB will be paid for by the linear foot and will include all surveying, labor, tools, equipment, forms, fuel, water, materials, and incidentals required to install concrete curb and gutter to the dimensions and locations as identified in the plans and according to specifications.
- S. Bid Item No. 18 – 6” THICK CONCRETE DRIVEWAYS – REINFORCED will be measured by the square yard of concrete and will include all labor, tools, equipment, materials, forms, water, materials, and incidentals required to compact base, prepare and install 6” of reinforce concrete pavement for driveways.
- T. Bid Item No. 19 – 6” REINFORCED CONCRETE ALLEYWAY TRANSITIONS will be measured by the square yard of concrete and will include all labor, tools, equipment, materials, forms, water, materials, and incidentals required to compact base, prepare and install 6” of reinforce concrete pavement for alleys.
- U. Bid Item No. 20 – 6” REINFORCED CONCRETE DUMPSTER PAD will be measured by the square yard of concrete and will include all labor, tools, equipment, materials, forms, water, materials, and incidentals required to compact base, prepare and install 6” of reinforce concrete pavement for dumpster pads.
- V. Bid Item No. 21 – ADA COMPLIANT SIDEWALK – 4” THICKNESS will be paid for by the square foot of finished surface and will include all labor, tools, equipment, fuel, water, materials, and incidentals required to supply and install reinforced concrete to the dimensions and locations as identified in the plans and according to specifications. Contractor is responsible to ensure that all sidewalk be built to ADA compliance, including cross slopes, elimination of barriers, etc. Any sidewalk found to not be compliant by Engineer shall be removed and replaced at no additional cost to Owner
- W. Bid Item No. 22 – 2’x5’ ADA DETECTABLE WARNING SURFACE will be paid for by the each and will include all labor, tools, equipment, fuel, water, materials, and incidentals required to supply and install ADA detectable warning surfaces. Surface shall be “brick red” in color or similar, and subject to approval by Engineer.
- X. Bid Item No. 23 – PRIME COAT (SS-1) will be paid for by the gallon applied in accordance with the plans and specifications. Pay requests for this item shall be documented along with daily tank stabbings to verify before and after application rates and quantities. Tank Stabbing information shall be available upon request by the engineer. This item includes all materials, equipment, labor, fuels and other incidentals required to deliver and properly apply materials.
- Y. Bid Item No. 24 – TxDOT TYPE “D” HMAC will be paid by the ton for the hauling, placement and compaction of hot mix asphalt concrete in accordance with TxDOT specifications. This item includes all materials, labor, equipment, fuels and incidentals for the proper installation of HMAC at the prescribed thicknesses. Plant tickets shall be made available to the engineer upon request.

- Z. Bid Item No. 25 – TxDOT TYPE “D” HMAC – ASPHALT PATCHING will be paid by the ton for the hauling, placement and compaction of hot mix asphalt concrete in accordance with the plans and specifications to patch those areas affected by trenching activities in existing streets. This item includes all materials, labor, equipment, fuels and incidentals for the proper installation of HMAC at the prescribed thicknesses. Plant tickets shall be made available to the engineer upon request.
- AA. Bid Item No. 26 - 6” WHITE STRIPING, THERMOPLASTIC will be paid by the linear foot of material installed and shall be compensation for all labor, materials and equipment.
- BB. Bid Item No. 27 – 12” WHITE STRIPING (STOP BAR), THERMOPLASTIC will be paid by the linear foot of material installed and shall be compensation for all labor, materials and equipment.
- CC. Bid Item No. 28 – 6" PVC SDR 35 SEWER LINE will be measured by the linear foot of installed, completed in place sewer line in the prescribed diameter and thickness. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- DD. Bid Item No. 29 – 8" PVC SDR 35 SEWER LINE will be measured by the linear foot of installed, completed in place sewer line in the prescribed diameter and thickness. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- EE. Bid Item No. 30 – 10" PVC SDR 35 SEWER LINE will be measured by the linear foot of installed, completed in place sewer line in the prescribed diameter and thickness. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- FF. Bid Item No. 31 through No. 33 – FIBERGLASS MANHOLE (COMPLETE) will be measured and paid for by the each. Manhole heights can be determined from plan details and elevations. Work shall include all materials, excavation, labor, tools, equipment, and incidentals required for the associated work items.
- GG. Bid Item No. 34 – 6" SEWER SERVICE CONNECTION (COMPLETE) will be measured by the each for a complete (as defined on the plans) sewer connection in the diameter prescribed above. Work shall include costs of furnishing and installing at materials, surveying, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- HH. Bid Item No. 35 – 8” LATERAL PRESSURE INTERCONNECTION (HOT TAP) W/8" GATE VALVE will be measured by the each for a complete (as defined on the plans) interconnection with gate valve. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- II. Bid Item No. 36 – 8" AWWA C900 or C909 PVC PIPE CLASS 150, DR-18 will be measured by the linear foot of installed, completed in place water line in the prescribed diameter and thickness. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.

- JJ. Bid Item No. 37 – FIRE HYDRANT ASSEMBLY W/6" GATE VALVE (COMPLETE) will be measured by the each for a complete (as defined on the plans) interconnection with gate valve, hydrant, fittings and 6" pipe. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- KK. Bid Item No. 38 – 3/4" WATER SERVICE CONNECTION (COMPLETE) will be measured by the each for a complete (as defined on the plans) water connection in the diameter prescribed above. Work shall include costs of furnishing and installing at materials, surveying, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- LL. Bid Item No. 39 – 6" GATE VALVE - MJ will be measured by the each and will include furnishing and installing gate valves along with including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- MM. Bid Item No. 40 – 8" GATE VALVE - MJ will be measured by the each and will include furnishing and installing gate valves along with including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- NN. Bid Item No. 41 – 8"x8" DUCTILE IRON TEE - MJ will be measured by the each for furnished and installed fittings, including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- OO. Bid Item No. 42 – 8"x8" DUCTILE IRON CROSS - MJ will be measured by the each for furnished and installed fittings, including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- PP. Bid Item No. 43 – 8"x8" DUCTILE 90° BEND - MJ will be measured by the each for furnished and installed fittings, including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- QQ. Bid Item No. 44 – 8"x6" DUCTILE IRON REDUCER - MJ will be measured by the each for furnished and installed fittings, including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.
- RR. Bid Item No. 45 – 8"x8" DUCTILE IRON COUPLER - MJ will be measured by the each for furnished and installed fittings, including all mechanical joint restraints, gland packs, tie rods, and other appurtenances as necessary. Work shall include costs of furnishing and installing at materials, surveying, testing, excavation, labor, tools, equipment, and incidentals required for the proper installation of associated work items.

SS. Bid Item No. 46 – VALVE BOX AND RISER will be measured and paid for by the each. Work includes supplying labor, equipment, tools, etc. for all supplying, installation, adjustments, extensions, etc. required to install valve box, lid and riser to finished grade and elevation.

TT. Bid Item No. 47 – ADJUST MANHOLE/VALVE COVER TO FINISHED GRADE will be measured and paid for by the each. Work includes supplying labor, equipment, tools, etc. for all demolition, adjustments, extensions, etc. required to raise existing manhole covers, valve covers or water valve box/cover to finished grade and elevation.

UU. Bid Item No. 48 – MANHOLE CONCRETE COLLARS will be paid for by the each and will include all labor, tools, equipment, materials, forms, water, materials, and incidentals required to compact base, prepare and install 6” of reinforce concrete pavement (minimum 3500 psi) around each manhole at finished grade and elevation.

2.00 PRODUCTS (NOT USED)

3.00 EXECUTION (NOT USED)

END OF SECTION
