

## ADDENDUM NO. 2

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City of Franklin  
Engineering Department  
109 Third Avenue South, Suite 133  
Franklin, TN 37064

Project:	<u>East McEwen Drive Phase 4</u>
	<u>Improvements</u>
TDOT PIN:	<u>125418.00</u>
Contract No:	<u>2024-0246</u>
Federal Project No:	<u>STP-M-9305(31)</u>
State Project No:	<u>94LPLM-F3-096</u>

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Date of Issuance: Tuesday, November 12, 2024

Bidders are directed to make the following change(s) in the Bidding Documents:

**I. Changes and Clarifications to the Bid Documents, Bid Submittal Process, and/or Bid Opening Deadline:**

1. Bid Form Revised:

Due to the changes noted in this **Addendum 2** and due to several pay items being missing from both the original and revised (Addendum 1) Bid Forms, another revised Bid Form is being issued with this **Addendum 2**. This newly revised Bid Form is being issued in two (2) ways. The first is as a traditional Adobe Acrobat PDF file (**Attachment A1**), and the second is as a macro-enabled Microsoft Excel (**Attachment A2**) file. As with Addendum 1, the line items have been broken down into the same groups/categories as they are listed within the Construction Plans. Newly added pay items may not appear in the Estimated or Tabulated Quantities on the Construction Plans. In the event of a discrepancy between the quantities listed in the Construction Plans and the revised Bid Form, the Bidder is directed to use the information listed in the revised Bid Form, as it shall control.

The Microsoft Excel file is a macro-enabled file, as noted by its .xlsm file extension. To allow this Excel file to function properly, the user may need to perform two (2) steps:

- a. After downloading the Excel file, Right Click (in Windows) on the file and select "Properties". Under the "General" tab, IF there is a message at the bottom of the window that says "Security: This file came from another computer and might be blocked to help protect this computer", then Check the Box next to the word "Unblock" and Click the "OK" button.
- b. When opening the Excel file, you may encounter a message highlighted in yellow at the top of the window that states: "SECURITY WARNING Macros have been disabled." If you receive this message, simply Click the "Enable Content" button.

The **highlighted** “Unit Price” cells are the only cells in the worksheet where the Bidders are allowed to modify the worksheet. As data is entered, the **highlights** will disappear. Once data has been entered in all “Unit Price” cells, the worksheet should automatically calculate the “Total Bid Price” in both “Figures” (e.g., \$123.45) and “Words” (e.g., One Hundred Twenty-Three and 45/100 Dollars). However, this will only occur when ALL blank “Unit Price” cells have been filled in.

Because of the number of revisions to the Bid Form with **Addendum 2**, the PDF copy of the revised Bid Form (**Attachment A1**) is now a total of 24 pages. This required new page numbers to be issued to the Bid Form Footnotes, EXHIBIT A – Part 2 of 2. A revised PDF copy of this document (**Attachment B**) is included with this **Addendum 2**.

2. Acknowledgement of Addenda:

All Bidders shall acknowledge the receipt of all Addenda on the cover of the original Project Manual as purchased from the City of Franklin. Typed or handwritten acknowledgement is acceptable.

3. Download a Full Copy of Addendum 2 on the City of Franklin Website:

A Full Copy of **Addendum 2**, including all attachments, is available on the City of Franklin website at “[Business Opportunities with the City](#)” or <https://www.franklintn.gov/business/business-opportunities-with-the-city-1494>.

The link to the location to download the macro-enabled Microsoft Excel copy of the Bid Form, as revised with and for this **Addendum 2**, is shown on the City’s “[Business Opportunities](#)” webpage as: [EMcEwen4 BidForm Excel Revised Addendum2](#).

4. Elimination of DBE Goal:

Due to recent and ongoing proceedings in the U.S. District Court for the Eastern District of Kentucky (see **Attachment C**), the Federal Highway Administration (FHWA) and TDOT have directed the City of Franklin to replace the original Disadvantaged Business Enterprise (DBE) Goal of 8.5% for this project with a new, revised DBE Goal of **0%**.

Also, any other references to a specific DBE Goal with the Bid Documents (e.g., Proposal Contract, Special Provisions, Specifications, Supplemental Specifications, Plans, etc.) shall be assumed to be the new DBE Goal value of **0%** for the purposes of this project (PIN 125418.00) and contract (COF Construction Contract No. 2024-0246).

5. Revisions to Atmos Energy Gas Relocation Plans:

Atmos Energy requested several changes to the Gas Relocation Plans, specifically on Sheets G7 and G12. These changes include: **REMOVAL** of the slug trap (i.e., 791-99.03) and the fencing & gate items associated with the Gas Relocation Plans (i.e., 707-01.11 thru 707-01.13). Because of minor plans changes requested by Atmos Energy in the area of the gas regulating station, there were **CHANGES** to the material and/or quantities of the following item numbers: 791-01.04, 791-01.09, 791-03.10, 791-04.13, 791-07.02, 791-07.10, and 791-07.12. Also, the item, 791-07.02, 4 IN PE GAS VALVE ASSEMBLY – EACH – 2, has been added. Finally, the incorrect Atmos Energy Regulator Station Detail Drawing was provided on Sheet G12. Sheet G12 has been revised to show the correct detail drawing.

These changes are reflected on the revised Bid Form (**Attachments A1** and **A2**) and the revised Gas Relocation Plan Sheets, G1, G7, and G12 (**Attachment D**).

6. Added Item No. 202-04.02, REMOVAL OF STRUCTURES:

There is an old wooden structure with a metal roof to the left (i.e., north) of approximate mainline station 441+50 that must be removed to allow for construction of the project. Because of the size of this structure, the City has decided to provide a separate pay item, 202-04.02, REMOVAL OF STRUCTURES (WOODEN HOUSE WITH METAL ROOF, APPROX. STA. 441+50), to cover the cost of the removal and disposal of this structure and any related debris.

The City will directly cover the cost of any necessary environmental tests prior to the demolition of this structure and the removal/disposal of all debris.

The Bid Form (**Attachments A1** and **A2**) have been revised with this **Addendum 2** to reflect this added item.

**II. Questions from Bidders and City Responses (in RED):**

**(Q1)** Is Item 204-07 [BEDDING MATERIAL (PIPE) CLASS B] intended for backfill above the springline? What type of material is to be used for 204-07?

**(A1)** Yes, the use of Item No. 204-07, Bedding Material (Pipe) Class B, is intended to be used as pipe backfill above the springline, but only in areas where on-site excavation spoils cannot be used or as directed by the Engineer.

The material shall be crushed stone, crushed slag, or washed gravel meeting the requirements of ASTM D 692 and the grading requirements for Size 6, 7, 8, 57 or 78. (Adapted from Sections 204-04 and 903-17 of the 2006 TDOT Standard Specifications for Road and Bridge Construction.)

**(Q2)** Bid item 202-01, REMOVAL OF STRUCTURES AND OBSTRUCTIONS 1 LS. Could we get a list of structures to be removed under this item?

**(A2)** An itemized list of structures to be removed has not been created for this project. This item shall be assumed to include all costs necessary to ensure the removal of any existing “structures and/or obstructions” that are contained within the project limits, are not expressly shown to remain following construction, and whose removal is not specifically included in the cost for another item.

For example, an individual item, 202-04.01, REMOVAL OF STRUCTURES (CANTILEVER AND RAILING) – LS – 1, is included in the Bid Form under the Estimated Bridge Quantities section. Therefore, this individual item would NOT need to be accounted for in the cost bid for Item No. 202-01.

However, other items such as existing headwalls, fences, storm pipes, posts, foundations, etc. shall be included in the cost bid for Item No. 202-01. Bidders will need to familiarize themselves with the project location to determine an appropriate cost for this item.

**(Q3)** Water Plans show 87’ of 12” Water line with insulation to be removed at CSX railroad with no apparent bid item. Has insulation been tested for asbestos? Is there any asbestos testing that is meant to be the responsibility of the contractor?

**(A3)** Item No. 795-12.29, REMOVAL/DISPOSAL OF EXISTING 12” WATER MAIN TO ACCOMMODATE ROADWAY CONSTRUCTION (ATTACHED TO BRIDGE PARAPET), was intended to cover the cost involved with the removal of this water main segment.

For clarity’s sake, the “Item Description” for Item No. 795-12.29 has been revised to read: “REMOVAL/DISPOSAL OF EXISTING 12” DUCTILE IRON WATER MAIN AND 18” STEEL CASING PIPE FROM EXISTING BRIDGE (ATTACHED TO PARAPET RAIL). This change is reflected in the newly revised Bid Form (**Attachments A1** and **A2**) that is supplied with **Addendum 2**.

City staff contacted the owner of this water main, Milcrofton Utility District (MUD), to inquire about the possible presence of asbestos. Their response is as follows:

“The pipe and steel casing were installed in the early 2000s (i.e., around 2002-2003.) The water line and steel casing have a link seal on one end and spray foam insulation on the other end to seal the annular space. No asbestos testing is needed for the spray foam.”

**(Q4)** There are Painted Pavement Markings in the bid quantities. The Traffic Control notes state that temp painted pavement markings are incidental. How will the temp painted pavement markings be paid?

**(A4)** The Painted Pavement Markings items are intended to be used by the Contractor for multiple lane configurations used throughout the stages of construction.

The only “temporary” painted pavement markings that will not be paid for directly are the painted markings used on the final roadway alignment in-lieu of thermoplastic/plastic pavement markings (i.e., layout lines, temporary overnight controls, etc.).

The Painted Pavement Markings listed in the Bid Form and Estimated Roadway Quantities are to be paid by their respective item numbers.

Any “temporary” markings (i.e., layout lines, temporary overnight traffic control, etc.) in-lieu of final thermoplastic/plastic pavement markings shall be included in the cost of other items.

**(Q5)** Would it be possible to have a Pay Item added for the removal of conflicting pavement marking lines?

**(A5)** No, the cost for removal of conflicting pavement marking lines shall be included in the cost of other items.

**(Q6)** In Addendum 1, Answer 12, it is stated that there is an agreement between Franklin and MTE to move the conflicting lines in Phase A of Stage 1. Would you please give us the date to which this work is to be completed? Is it correct that the contractor will be performing some of the MTE work (ditching, conduit, pull boxes, etc..)?

**(A6)** The agreement between the City and Middle Tennessee Electric (MTE) provides for MTE or their contractor to perform the overhead electric utility relocations as shown in the utility sheets.

The City does NOT have a specific date for the start of this work. Following the award of the “East McEwen Drive Phase 4 Improvements” project (PIN 125418.00), COF Construction Contract No. 2024-0246, which is anticipated to be in December 2024, City staff will contact MTE to notify them that work may begin on the overhead electric utility relocations. More specific information about timing should be known by the time the Pre-Construction Meeting is held.

Middle Tennessee Electric (MTE) or their contractor will be performing the actual electric utility relocations. The Contractor and their Electrical Subcontractor will be responsible for installing the five (5) items listed in the Bid Form under the “Estimated Electric Service Infrastructure Quantities” section. This electric infrastructure is simply the underground infrastructure required to provide the service feed to the primary pull electric pull boxes for the street lighting. These items were listed in a separate section simply because they are shown on the Utility Sheets.

**(Q7)** Other than the fence at the RR [railroad] Bridge and in the Gas Line quantities, is there any fencing (removal and/or replacement) included on this project?

**(A7)** There is existing wooden plank fence along the south side of East McEwen Drive on Tract 16 that will need to be removed as a part of the project. The Contractor is not responsible for replacement of this fence. The City will work with the property owner regarding any replacement of said fence following completion of the project.

The contractor may encounter other intermittent sections of existing fencing during clearing & grubbing and/or grading operations. The cost for removal of this fencing shall be included in Item No. 202-01, REMOVAL OF STRUCTURES AND OBSTRUCTIONS – LS – 1.

**(Q8)** Will the contractor be required to furnish a field office?

**(A8)** The contractor is not required to furnish a field office. However, the City of Franklin does own the property directly across Wilson Pike (SR-252) from the eastern terminus of East McEwen Drive. This property could be used to accommodate a field office/trailer and/or storage for the project, as it has access to the signalized intersection of East McEwen Drive and Wilson Pike.

**(Q9)** Should there be an item for temporary crash cushions to be used in conjunction with the barrier wall?

**(A9)** Yes, the following pay item for temporary crash cushions was inadvertently omitted from the original and revised (Addendum 1) Bid Forms:

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QUANTITY
712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	10

The Bid Form (**Attachments A1 and A2**) has been revised with this **Addendum 2** to reflect this additional item.

**(Q10)** What are the work hours and lane closure restrictions?

**(A10)** Per Section 12-1301 of the Municipal Code of the City of Franklin, Hours of Construction are as follows:

Monday thru Friday	7:00 AM to 6:00 PM
Saturday	9:00 AM to 6:00 PM
Sunday	No Work Allowed <sup>1</sup>
City Holidays <sup>2</sup>	No Work Allowed <sup>1</sup>

**Notes:**

- Without prior approval by the City Administrator or designee.
- City Holidays include: New Year’s Day, Martin Luther King Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving, Christmas Day, and Bonus Christmas Day (workday before or after Christmas Day).

Temporary lane closures will generally only be allowed between the hours of 9:00 AM and 3:00 PM.

**(Q11)** Will a pay item be added for the storm sewer manholes called out on pages 6A and 6B? There seems to be items missing from the Bid Form that are shown on the drainage structure tabulations.

**(A11)** Yes, the following pay items were inadvertently omitted from the original and revised (Addendum 1) Bid Forms:

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QUANTITY
611-01.02	MANHOLES, > 4' – 8' DEPTH	EACH	1
611-01.06	MANHOLES, > 20' – 24' DEPTH	EACH	1
611-01.07	MANHOLES, > 24' – 28' DEPTH	EACH	1

These items have been added to the revised Bid Form (**Attachments A1 and A2**) that is being issued with this **Addendum 2**.

**(Q12)** How do we [prospective Bidders] download “Attachment A2” excel version of Revised Bid Form for McEwen Drive?

**(A12)** For Addendum 1, this Excel file was also attached to the email that was sent directly to all plan holders. Due to a technical difficulty, staff could not place a copy of the actual Excel file itself on our website. The updated Excel file to be distributed with the revised Bid Form, as a part of **Addendum 2**, will be provided both: **(a)** directly to the listed contact email for all official plan holders, and **(b)** via a download link that will be available on the “Business Opportunities with the City” webpage.

**(Q13)** Revised Bid Form has 126,000 LF of Temporary Silt Fence, but the plan quantity is 12,600 LF. I believe you have an error on your Bid Form.

**(A13)** The quantity of 126,000 linear feet (L.F.) is incorrect and should be 12,600 L.F. This was a typographical error and has been corrected on the revised Bid Form (**Attachments A1 and A2**) that is provided with this **Addendum 2**.

**(Q14)** Sheet 18K shows locations of bore holes for Retaining Wall G1, but there is no bore hole data present. Can we have the results of these specific bore holes presented to us? Bore holes BH-12 through BH-14.

**(A14)** The bore hole data was inadvertently left off two (2) Retaining Wall Plan Sheets, 18K and 18P. Plan Sheets 18, 18K, and 18P have been revised and included (**Attachment E**) with this **Addendum 2** to reflect the correction of this error.

**(Q15)** Sheet 18P shows locations of bore holes for Retaining Wall H1, but there is no bore hole data present. Can we have the results of these specific bore holes presented to us? Bore holes BH-05 through BH-11.

**(A15)** The bore hole data was inadvertently left off two (2) Retaining Wall Plan Sheets, 18K and 18P. Plan Sheets 18, 18K, and 18P have been revised and included (**Attachment E**) with this **Addendum 2** to reflect the correction of this error.

**(Q16)** Sheet 9A – Proposed Layout shows a 36” RCP storm pipe crossing, 2 curb inlets, and 2 headwalls at station 494+11, but there are no structure labels and nothing is shown on sheet 9B for this run of pipe and structures. Please advise.

**(A16)** The detailed information for this proposed storm drainage culvert / cross drain is shown on Plan Sheet 14A, Culvert Section (Sta. 494+11.37).

### III. Summary of Attachments:

- **Attachment A1** – PDF copy of *Revised* Bid Form – Exhibit A – Part 1 of 2 – Project Estimated Quantities.
- **Attachment A2** – Macro-enabled Microsoft Excel (.xslm) copy of *Revised* Bid Form – Exhibit A – Part 1 of 2 – Project Estimated Quantities.
- **Attachment B** – PDF copy of *Revised* Bid Form – Exhibit A – Part 2 of 2 – Footnotes.
- **Attachment C** – PDF copy of FHWA Memo about DBE Goal change to 0%.
- **Attachment D** – PDF copy of *Revised* Atmos Energy Gas Relocation Utility Plans, Sheets G1, G7, and G12.
- **Attachment E** – PDF copy of *Revised* Retaining Wall Plan Sheets 18, 18K, and 18P.

**End of Addendum 2**



**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
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ESTIMATED ROADWAY QUANTITIES								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1	0	1		
9, 31	201-01	CLEARING AND GRUBBING	LS	1	0	1		
18, 40	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1	0	1		
	202-04.02	REMOVAL OF STRUCTURES (WOODEN HOUSE WITH METAL ROOF, APPROX. STA. 441+50)	LS	1	0	1		
19	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	164,567	0	164,567		
14	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	93,033	0	93,033		
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	25,289	0	25,289		
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	3,032	0	3,032		
20	203-05	UNDERCUTTING	C.Y.	16,394	0	16,394		
21	203-06	WATER	M.G.	5,732	0	5,732		
	203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	15,375	0	15,375		
1	204-07	BEDDING MATERIAL (PIPE) CLASS B	C.Y.	1,743	0	1,743		
	204-08	FOUNDATION FILL MATERIAL	C.Y.	14	0	14		

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34	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	42	1,979	2,021		
4	209-03.53	STREAM MITIGATION - ARTICULATED CONCRETE MAT	S.Y.	1,500	0	1,500		
	209-05	SEDIMENT REMOVAL	C.Y.	1,062	0	1,062		
42	209-06.05	BALED HAY OR STRAW	BALE	48	0	48		
2, 22	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	12,600	0	12,600		
7, 22	209-08.07	ROCK CHECK DAM	EACH	5	0	5		
7, 22	209-08.08	ENHANCED ROCK CHECK DAM	EACH	28	0	28		
7	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	6	0	6		
7, 22	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	1	0	1		
7, 23, 43	209-10.02	8IN SKIMMER W/6IN HEAD	EACH	4	0	4		
23	209-11.01	SEDIMENT BASIN RISER (48", STRUCTURE B5)	EACH	1	0	1		
23	209-11.02	SEDIMENT BASIN RISER (48", STRUCTURE F9)	EACH	1	0	1		
23	209-11.03	SEDIMENT BASIN RISER (48", STRUCTURE K7)	EACH	1	0	1		
23	209-11.04	SEDIMENT BASIN RISER (48", STRUCTURE J34)	EACH	1	0	1		
23	209-11.05	SEDIMENT BASIN RISER (48", STRUCTURE J7)	EACH	1	0	1		

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23	209-11.06	SEDIMENT BASIN RISER (48", STRUCTURE X2)	EACH	1	0	1		
23	209-11.07	SEDIMENT BASIN RISER (48", STRUCTURE X4)	EACH	1	0	1		
	209-11.20	SEDIMENT BASIN BAFFLES	L.F.	760	0	760		
7, 23	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	13	0	13		
7, 23	209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	48	0	48		
7, 23	209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH	10	0	10		
7, 23	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	4	0	4		
7, 23	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	11	0	11		
7, 23	209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	135	0	135		
7, 23	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	31	0	31		
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	30	0	30		
24	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	63,598	0	63,598		
	303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	268	0	268		
44	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	12	0	12		
	307-01.21	ASP. CONC. MIX (PG70-22) (BPMB-HM) GR. A-S	TON	8,509	0	8,509		

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	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	16,130	0	16,130		
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	9,523	0	9,523		
17	308-01.10	COLD IN-PLACE RECYCLED BITUMINOUS PAVEMENT	TON	2,500	0	2,500		
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	169	0	169		
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	671	0	671		
	403-02.01	TRACKLESS TACK COAT	TON	52	0	52		
7, 15	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	3,313	0	3,313		
	411-01.11	ACS MIX (PG64-22) GRADING E RDWY	TON	1,677	0	1,677		
	411-02.10	ACS MIX (PG70-22) GRADING D	TON	3,750	0	3,750		
17	411-50.02	ASPHALT CONC. MAINT. MIX (PG64-22) GRADING D (PLACED)	TON	1,250	0	1,250		
16	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	21,710	0	21,710		
7, 15	502-04.01	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L.F.	100	0	100		
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	118	0	118		
	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	21,022	0	21,022		
36	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	10,640	0	10,640		

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36	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	2,584	0	2,584		
36	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	496	0	496		
36	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	404	0	404		
36	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	35	0	35		
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	1	0	1		
	611-01.06	MANHOLES, > 20' - 24' DEPTH	EACH	1	0	1		
	611-01.07	MANHOLES, > 24' - 28' DEPTH	EACH	1	0	1		
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	16	0	16		
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	292	0	292		
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	12	0	12		
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	6	0	6		
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	2	0	2		
5, 13	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	181	0	181		
5, 13	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	11	0	11		
5, 13	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4	0	4		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
5, 13	611-12.05	CATCH BASINS, TYPE 12, > 16' - 20' DEPTH	EACH	2	0	2		
5, 13	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	21	0	21		
5, 13	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	7	0	7		
5, 13	611-14.04	CATCH BASINS, TYPE 14, > 12' - 16' DEPTH	EACH	1	0	1		
5, 13	611-14.05	CATCH BASINS, TYPE 14, > 16' - 20' DEPTH	EACH	1	0	1		
13	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	3	0	3		
13	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	11	0	11		
13	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	2	0	2		
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	60,852	0	60,852		
25	701-02	CONCRETE DRIVEWAY	S.F.	6,373	0	6,373		
26	701-02.02	CONCRETE DRIVEWAY (8")	S.F.	1,357	0	1,357		
	701-02.03	CONCRETE CURB RAMP	S.F.	925	0	925		
	702-01.01	EXTRUDED SLOPING CURB	L.F.	1,018	0	1,018		
38	702-01.02	CONCRETE CURB	L.F.	40	0	40		
38	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	2,543	0	2,543		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	705-01.04	METAL BEAM GUARD FENCE	L.F.	438	0	438		
	705-06.10	GR TERMINAL TRAILING END (TYPE 13) MASH TL3	EACH	1	0	1		
	705-06.11	GR TERMINAL (IN-INLINE) MASH TL3	EACH	3	0	3		
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	2	0	2		
	705-06.25	THREE BEAM BRIDGE TRANSITION MASH TL-3	EACH	5	0	5		
	705-06.30	GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH	6	0	6		
8	706-01	GUARDRAIL REMOVED	L.F.	2,060	0	2,060		
	706-06.03	RADIUS RAIL	L.F.	325	0	325		
	706-10.26	ROUNDED END ELEMENT	EACH	1	0	1		
	706-10.80	MICHIGAN AND MODIFIED MICHIGAN END SHOE	EACH	5	0	5		
3, 27	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	2,400	0	2,400		
39	708-02.02	MARKERS (CONCRETE R.O.W. POSTS)	EACH	48	0	48		
10	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	410	0	410		
	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	886	0	886		
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	34	0	34		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	32,979	0	32,979		
28	712-01	TRAFFIC CONTROL	LS	1	0	1		
29	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	7,600	0	7,600		
	712-02.47	BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	72	0	72		
29	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	10	0	10		
29	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	174	0	174		
30	712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EACH	60	0	60		
	712-04.50	BARRIER RAIL DELINEATOR	EACH	760	0	760		
29	712-06	SIGNS (CONSTRUCTION)	S.F.	939	0	939		
29	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	567	0	567		
7, 52	712-08.01	UNIFORMED POLICE OFFICER	DOLL	50,000	0	50,000	\$ 1.00	\$ 50,000.00
7	712-08.03	ARROW BOARD (TYPE C)	EACH	1	0	1		
	712-09.08	REMOVABLE PAVEMENT MARKING (6" LINE)	L.F.	2,500	0	2,500		
	713-02.21	SIGN POST DELINEATION ENHANCEMENT	L.F.	203	0	203		
41	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1	0	1		



**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
45	713-15.35	METAL BARRICADE (TYPE III)	EACH	24	0	24		
53	713-16.04	CHANGEABLE MESSAGE SIGN UNIT	EACH	4	0	4		
6, 12	713-16.20	SIGNS (STOP, R1-1, 30"x30")	EACH	5	0	5		
6, 12	713-16.21	SIGNS (SPEED LIMIT, R2-1, 24"x30")	EACH	7	0	7		
6, 12	713-16.22	SIGNS (DEAD END, W14-1, 30"x30")	EACH	2	0	2		
6, 12	713-16.23	SIGNS (KEEP RIGHT, R4-7, 24"x30")	EACH	7	0	7		
6, 12	713-16.24	SIGNS (OBJECT MARKER, OM1-1, 18"x18")	EACH	7	0	7		
6, 12	713-16.25	SIGNS (NO MOTOR VEHICLES, R5-3, 24"x24")	EACH	4	0	4		
6, 12	713-16.26	SIGNS (ADA ACCESSIBLE ROUTE, R4-4 (MOD), 36"x30")	EACH	2	0	2		
6, 12	713-16.27	SIGNS (ADVANCE INTERSECTION LANE CONTROL, R3-8, 30"x48")	EACH	1	0	1		
6, 12	713-16.28	SIGNS (STREET NAME, D3-1, 36"x8")	EACH	10	0	10		
6, 12	713-16.29	SIGNS (STOP AHEAD, W3-1A, 36"x36")	EACH	2	0	2		
6, 12	713-16.30	SIGNS (SIDEWALK CLOSED, R9-9, 12"x24")	EACH	2	0	2		
37	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	1,432	0	1,432		
37	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	152	0	152		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
37	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	4	0	4		
32, 37	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	30	0	30		
37	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	2	0	2		
37	716-04.15	PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW SHARED	EACH	5	3	8		
33	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	28	0	28		
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	156	0	156		
	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	10	0	10		
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	5	0	5		
33	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	9	0	9		
	716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	400	0	400		
	717-01	MOBILIZATION	LS	1	0	1		
	730-02.48	SIGNAL HEAD MODIFICATION (RELOCATION)	EACH	1	0	1		
7, 10	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2,700	0	2,700		
2, 7	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	11,150	0	11,150		
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	650	0	650		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	801-01.38	NATIVE SEED MIX FINAL STABILIZATION OF SLOPES	UNIT	31	0	31		
7	801-02	SEEDING (WITHOUT MULCH)	UNIT	650	0	650		
	801-03	WATER (SEEDING & SODDING)	M.G.	787	0	787		
35	803-01	SODDING (NEW SOD)	S.Y.	72,179	0	72,179		
11	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	217	0	217		
4	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	60,500	0	60,500		
4, 45	805-12.04	EROSION CONTROL BLANKET (TYPE IV)	S.Y.	2,635	0	2,635		
51	806-02.03	PROJECT MOWING	CYCL	12	0	12		
<b>ESTIMATED ROADWAY QUANTITIES Subtotal:</b>								

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
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<b>ESTIMATED RETAINING WALL QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	604-01.20	BOX TUBE SAFETY RAIL	L.F.	1,021	0	1,021		
48, 50	604-07.01	RETAINING WALL (WALL B)	S.F.	3,401	0	3,401		
48, 50	604-07.02	RETAINING WALL (WALL C)	S.F.	2,872	0	2,872		
48, 50	604-07.03	RETAINING WALL (WALL D)	S.F.	2,872	0	2,872		
48, 50	604-07.04	RETAINING WALL (WALL ME)	S.F.	15,310	0	15,310		
50	604-07.05	RETAINING WALL (WALL G1)	S.F.	1,473	0	1,473		
50	604-07.06	RETAINING WALL (WALL H1)	S.F.	4,098	0	4,098		
46, 50	604-07.08	RETAINING WALL (WALL K1)	S.F.	1,444	0	1,444		
48, 50	604-07.09	RETAINING WALL (WALL L)	S.F.	3,823	0	3,823		
48, 50	604-07.10	RETAINING WALL (WALL P1)	S.F.	1,750	0	1,750		
48, 50	604-07.11	RETAINING WALL (WALL P2)	S.F.	2,481	0	2,481		
48, 50	604-07.12	RETAINING WALL (WALL P3)	S.F.	516	0	516		
	620-06	CONCRETE RAILING	L.F.	1,973	0	1,973		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
47	621-05.02	TEMPORARY SHORING	LS	1	0	1		
49	920-11	CONCRETE PARAPET RAIL WITH MOMENT SLAB	L.F.	1,471	0	1,471		
							<b>ESTIMATED RETAINING WALL QUANTITIES Subtotal:</b>	

<b>ESTIMATED BRIDGE QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
54	202-04.01	REMOVAL OF STRUCTURES (CANTILEVER AND RAILING)	LS	1	0	1		
54	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	3,850	0	3,850		
54	604-03.09	CLASS D CONCRETE (BRIDGE DECK)	C.Y.	13	0	13		
54	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURE)	S.Y.	94	0	94		
54	604-04.10	GRAFFITI PROTECTION SYSTEM (NON-SACRIFICIAL)	S.Y.	94	0	94		
54	604-05.31	BRIDGE DECK GROOVING (MECHANICAL)	S.Y.	28	0	28		
54	617-02	BRIDGE DECK CRACK SEALING	L.F.	72	0	72		
54	620-05.01	CONC PARAPET SINGLE SLOPE (STD-1-1SS)	L.F.	72	0	72		
54	707-07.01	CHAIN-LINK FENCE (BRIDGES)	S.F.	740	0	740		
							<b>ESTIMATED BRIDGE QUANTITIES Subtotal:</b>	

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
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<b>ESTIMATED ROADWAY LIGHTING QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
56	714-01.36	ROADWAY LIGHTING	LS	1	0	1		
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	16,325	0	16,325		
	714-03.02	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	L.F.	70	0	70		
	714-03.03	DIRECT BURIAL CONDUIT (1" PVC, SCHEDULE 40 WITH PULL TAPE)	L.F.	160	0	160		
	714-03.04	DIRECT BURIAL CONDUIT (3/4" PVC, SCHEDULE 40 WITH PULL TAPE)	L.F.	60	0	60		
59	714-05.05	PULL BOXES (SMALL)	EACH	75	0	75		
60	714-05.06	PULL BOXES (LARGE)	EACH	2	0	2		
	714-05.07	PULL BOXES (ELECTRICAL ROUND, 4", 1" KNOCKOUT, TUNNEL LIGHTING)	EACH	1	0	1		
66	714-08.09	LIGHT STANDARDS (ROADWAY, 30' SQUARE ALUMINUM, BLACK)	EACH	31	0	31		
67	714-08.10	LIGHT STANDARDS (ROADWAY, 25' SQUARE ALUMINUM, BLACK, WALL MOUNTED)	EACH	7	0	7		
68	714-08.11	LIGHT STANDARDS (DECORATIVE, 16' ALUMINUM, BLACK)	EACH	22	0	22		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	714-08.28	FOUNDATION FOR LIGHT STANDARDS - ROADWAY (FOUNDATION PREPARATION, INCLUSIVE OF ALL RELATED ITEMS FOR ROADWAY LIGHT STANDARDS, INCLUDING BUT NOT LIMITED TO CONCRETE CAST IN-PLACE FOUNDATION, 24" DIAMETER, 6'-6" DEPTH. NO. 2 REINFORCING STEEL BAR, NO. 4 REINFORCING STEEL BAR, 8' GROUND ROD 5/8" DIA COPPER-CLAD STEEL, GROUND BONDING CLAMP FOR 5/8" GROUND ROD, BREAKAWAY FUSE HOLDER FOR EACH POLE MOUNT, FUSE FOR BREAKAWAY FUSE HOLDER, PARALLEL BONDING CONNECTOR FOR POLE GROUNDS, SUBMERSIBLE SECONDARY CONNECTORS, ABOVE GRADE CONNECTOR FOR #12 CONDUCTOR, RED WIRE NUT)	EACH	46	0	46		
58	714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	6	0	6		
	714-08.43	FOUNDATION FOR LIGHT STANDARDS - ROADWAY (FOUNDATION PREPARATION, INCLUSIVE OF ALL RELATED ITEMS FOR ROADWAY LIGHT STANDARDS, INCLUDING BUT NOT LIMITED TO CAST IN PLACE FOUNDATION, 24" DIAMETER, 4' DEPTH, NO. 2 REINFORCING STEEL BAR, NO. 4 REINFORCING STEEL BAR, 8' GROUND ROD 5/8" DIA COPPER-CLAD STEEL, GROUND BONDING CLAMP FOR 5/8" GROUND ROD, BREAKAWAY FUSE HOLDER FOR EACH POLE MOUNT, FUSE FOR BREAKAWAY FUSE HOLDER, PARALLEL BONDING CONNECTOR FOR POLE GROUNDS, SUBMERSIBLE SECONDARY CONNECTORS, ABOVE GRADE CONNECTOR FOR #12 CONDUCTOR, RED WIRE NUT)	EACH	22	0	22		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	714-09.47	LED LUMINAIRE (ROADWAY)	EACH	38	0	38		
	714-09.48	LED LUMINAIRE (DECORATIVE ROADWAY)	EACH	22	0	22		
69	714-09.49	LED LUMINAIRE (PEDESTRIAN TUNNEL)	EACH	1	0	1		
	714-25.01	ELECTRICAL CONNECTION (SERVICE / METER PEDESTAL - MILBANK, SERIES CP3B, STANDARD UNIT)	LS	2	0	2		
57	714-25.22	INSTALL SVC RISER (ROADWAY LIGHTING SERVICE RISER PER MTEMC STANDARDS; ALL INCLUSIVE)	EACH	2	0	2		
62	714-70.02	#10 AWG WIRE WHITE INSL SOLID COPPER	L.F.	350	0	350		
61	714-70.55	#10 AWG GROUND WIRE GREEN INSL SOLID COPPER	L.F.	14,350	0	14,350		
63	714-70.56	#4 BARE SOFT DRAWN COPPER FOR LIGHT POST GROUNDING	L.F.	700	0	700		
64	714-70.57	#4 AWG GROUND WIRE BARE SOLID COPPER	L.F.	20	0	20		
65	714-70.59	#4 COPPER THHN OR THWN, WHITE, FOR SERVICE GROUNDED CONDUCTOR	L.F.	85	0	85		
							<b>ESTIMATED ROADWAY LIGHTING QUANTITIES Subtotal:</b>	

<b>ESTIMATED FIBER OPTIC COMMUNICATIONS (CITY OF FRANKLIN) QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
70	725-02.25	FIELD HUB SWITCH (INSTALL ONLY)	EACH	1	0	1		
71	725-03.80	CCTV CAMERA SYSTEM	EACH	1	0	1		



**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT	
	725-10.64	FIBER OPTIC CABLE (72 COUNT)	L.F.	10,838	0	10,838			
	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	19	0	19			
72	730-12.14	CONDUIT 3" DIAMETER (JACK AND BORE)	L.F.	60	0	60			
72	730-12.27	CONDUIT 3" DIAMETER (PVC SCHEDULE 40)	L.F.	7,300	0	7,300			
			<b>ESTIMATED FIBER OPTIC COMMUNICATIONS (CITY OF FRANKLIN) QUANTITIES Subtotal:</b>						

<b>ESTIMATED TRAFFIC SIGNAL (CITY OF FRANKLIN) MODIFICATION QUANTITIES</b>									
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT	
	713-02.15	FLEXIBLE TUBULAR DELINEATOR	EACH	4	0	4			
	713-16.36	SIGNS (SIDEWALK ENDS, R9-9 (MODIFIED), 24" X 12", UNIT PRICE BID INCLUDES SQUARE TUBE PERFORATED POST P8)	EACH	2	0	2			
	730-02.48	SIGNAL HEAD MODIFICATION (RELOCATION)	EACH	1	0	1			
			<b>ESTIMATED TRAFFIC SIGNAL (CITY OF FRANKLIN) MODIFICATION QUANTITIES Subtotal:</b>						

<b>ESTIMATED ELECTRIC SERVICE INFRASTRUCTURE (MIDDLE TENNESSEE ELECTRIC) QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	790-42.08	2~2" PVC SCHEDULE 40 (PRIMARY DITCH DETAIL 2G) (INCLUDES INSTALLATION, CLEAN GRAVEL, EXCAVATION, INSPECTION)	L.F.	153	0	153		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
	790-42.09	2~4" PVC SCHEDULE 40 (PRIMARY DITCH DETAIL 2G) (INCLUDES INSTALLATION, CLEAN GRAVEL, EXCAVATION, INSPECTION)	L.F.	156	0	156		
	790-42.10	2" PVC SCHEDULE 80 ELBOW (36" RADIUS) (INCLUDES INSTALLATION, CLEAN GRAVEL, EXCAVATION, INSPECTION)	EACH	4	0	4		
	790-42.11	4" PVC SCHEDULE 80 ELBOW (48" RADIUS) INCLUDES INSTALLATION, CLEAN GRAVEL, EXCAVATION, INSPECTION)	EACH	12	0	12		
	790-43.47	PRIMARY PULLBOX (48"L X 30"W X 36"D), MTEMC-ELECTRICAL LOGO (INCLUDES INSTALLATION, CLEAN GRAVEL, INSTALLATION)	EACH	3	0	3		
<b>ESTIMATED ELECTRIC SERVICE INFRASTRUCTURE (MIDDLE TENNESSEE ELECTRIC) QUANTITIES Subtotal:</b>								

<b>ESTIMATED GAS LINE (ATMOS ENERGY) RELOCATION QUANTITIES</b>								
FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
73	791-01.04	4IN STEEL GAS MAIN	L.F.	0	103	103		
73	791-01.06	8IN STEEL GAS MAIN	L.F.	6,764	0	6,764		
73	791-01.09	4IN STEEL GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	0	50	50		
73	791-03.02	2IN PE GAS MAIN	L.F.	0	32	32		
73	791-03.04	4IN PE GAS MAIN	L.F.	0	52	52		
73	791-03.09	2IN PE GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	0	1,530	1,530		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
73	791-03.10	4IN PE GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	0	943	943		
74	791-04.10	HDD 3/4IN PE SERVICE PIPE (DIRECTIONAL BORE TO BE USED ONLY IF NECESSARY)	L.F.	121	0	121		
74	791-04.13	HDD 4IN STEEL SERVICE PIPE (DIRECTIONAL BORE TO BE USED ONLY IF NECESSARY)	L.F.	31	0	31		
75	791-06.03	CONNECTION TO 4" EX PE GAS MAIN	EACH	0	2	2		
75	791-06.09	CONNECT TO EX 3/4" GAS SERVICE LINE	EACH	5	0	5		
75	791-06.34	CONNECT TO EX 8" STEEL GAS MAIN W/ STOPPER	EACH	4	0	4		
75	791-06.38	CONNECT TO 8" EX STEEL MAIN W/ BOTTOM OUT STOPPER FITTING	EACH	1	0	1		
76	791-07.02	4 IN PE GAS VALVE ASSEMBLY	EACH	0	2	2		
76	791-07.09	2 IN STEEL GAS VALVE ASSEMBLY	EACH	0	1	1		
76	791-07.10	4 IN STEEL GAS VALVE ASSEMBLY	EACH	0	1	1		
76	791-07.12	8 IN STEEL GAS VALVE ASSEMBLY	EACH	2	0	2		
77	791-08.07	3/4IN PE SERVICE PIPE (AN ADDITIONAL 300' OF QTY. HAS BEEN ADDED TO THIS ITEM FOR ADDITIONAL WORK AS DETERMINED BY THE ENGINEER)	L.F.	755	0	755		
79	791-08.41	GAS MAIN REMOVAL (REMOVAL/DISPOSAL OF EXISTING 8" GAS MAIN TO ACCOMODATE ROADWAY CONSTRUCTION; QTY INCLUDES AN ADDITIONAL 200' AS DIRECTED BY THE ENGINEER)	L.F.	1,543	0	1,543		
78	791-09.02	3-WIRE CATHODIC PROTECTION STATION	EACH	0	2	2		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
78	791-09.04	4" REGULATING STATION (W/ OPTION #4 ENCLOSED - STD 10-002-05) (REGULATING STATION SHALL BE PREFABRICATED BY APPROVED VENDOR)	EACH	2	0	2		
79	791-09.08	REMOVAL REGULATING STATION (2' BELOW PROPOSED GRADE)	EACH	2	0	2		
79	791-09.23	REMOVAL OF EXISTING FARM TAP (2' BELOW PROPOSED GRADE)	EACH	5	0	5		
80	791-10.01	RETIRE IN PLACE 3/4 IN SERV CUT & PLUG	EACH	5	0	5		
80	791-10.05	RETIRE IN PLACE 4" PE CUT & PLUG	EACH	1	0	1		
80	791-10.07	RETIRE IN PLACE 8" STEEL GAS MAIN CUT & PLUG	EACH	15	0	15		
	791-11.02	CONCRETE CAP (CLASS A)	LS	1	0	1		
75	791-15.71	INSTALL TEMPORARY FARM TAP AS REQUIRED	EACH	2	0	2		
81	791-99.04	GAS MAIN UTILITY AS-BUILTS (SEE SPECIAL PROVISION REGARDING UTILITY RECORD DRAWINGS)	LS	0.5	0.5	1		
				<b>ESTIMATED GAS LINE (ATMOS ENERGY) RELOCATION QUANTITIES Subtotal:</b>				

**ESTIMATED WATER LINE (MILCROFTON UTILITY DISTRICT) RELOCATION QUANTITIES**

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
82	795-01.06	8" SLIP JOINT WATER LINE (CLASS 52) (PRICE INCLUDES COPPERHEAD 1230B-SF LOCATING WIRE)	L.F.	11	4,920	4,931		
82	795-02.03	4" HDPE WATER LINE (DR11) (PRICE INCLUDES COPPERHEAD 1230B-SF LOCATING WIRE)	L.F.	1,508	0	1,508		
83	795-05.55	HDD 3" FPVC CASING PIPE	L.F.	682	0	682		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
82	795-05.92	4" FPVC CASING PIPE OPEN CUT (USE AS DIRECTED BY ENGINEER)	L.F.	50	0	50		
82	795-05.93	3" FPVC CASING PIPE OPEN CUT (USE AS DIRECTED BY ENGINEER)	L.F.	100	0	100		
84	795-06.05	CONNECT TO 8IN WATER LINE	EACH	1	4	5		
84	795-06.07	CONNECT TO 12IN WATER LINE	EACH	0	1	1		
	795-06.32	CUT AND CAP 4" WATER LINE	EACH	0	5	5		
	795-06.34	CUT AND CAP 8" WATER LINE	EACH	1	0	1		
	795-06.37	CUT AND CAP 12" WATER LINE	EACH	2	0	2		
85	795-08.05	8" GATE VALVE ASSEMBLY	EACH	1	4	5		
86	795-09.01	3/4" WATER SERVICE ASSEMBLY (MILCROFTON TO PROVIDE AND INSTALL METERS)	EACH	6	0	6		
	795-09.51	DISCONNECT/RECONNECT EXISTING WATER METER	EACH	4	0	4		
82	795-09.60	3/4" PEXa SERVICE PIPE (QTY INCLUDES AN ADDITIONAL 450' TO RECONNEECT SERVICE AS APPROVED MUD) (PRICE INCLUDES COPPERHEAD 1230B-SF LOCATING WIRE)	L.F.	1,367	0	1,367		
82	795-09.62	1" PEXa SERVICE PIPE (QTY INCLUDES TEMPORARY SERVICE) (PRICE INCLUDES COPPERHEAD 1230B-SF LOCATING WIRE)	L.F.	630	0	630		
82	795-09.64	2" PEXa SERVICE PIPE (QTY INCLUDES TEMPORARY SERVICE) (PRICE INCLUDES COPPERHEAD 1230B-SF LOCATING WIRE)	L.F.	334	0	334		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
86	795-10.03	1" COMBINATION AIR/VACUUM RELEASE VALVE ASSEMBLY	EACH	3	5	8		
86	795-11.01	BLOW OFF ASSEMBLY	EACH	1	0	1		
86	795-11.02	FIRE HYDRANT ASSEMBLY (INCLUDES ALL REQUIRED 6" RESTRAINED JOINT DIP AND VALVE)	EACH	4	0	4		
88	795-12.27	REMOVAL/DISPOSAL OF EXISTING 4" WATER MAIN TO ACCOMMODATE ROADWAY CONSTRUCTION (QTY INCLUDES AN ADDITIONAL 400' AS DIRECTED BY THE ENGINEER)	L.F.	455	0	455		
88	795-12.28	REMOVAL/DISPOSAL OF EXISTING 8" WATER MAIN TO ACCOMMODATE ROADWAY CONSTRUCTION	L.F.	42	0	42		
88	795-12.29	REMOVAL/DISPOSAL OF EXISTING 12" DUCTILE IRON WATER MAIN AND 18" STEEL CASING PIPE FROM EXISTING BRIDGE (ATTACHED TO BRIDGE PARAPET)	L.F.	87	0	87		
	795-13.01	DI FITTINGS (INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS)	LB.	520	2,690	3,210		
87	795-14.01	CONCRETE CAP (AS DIRECTED BY MUD)	L.F.	0	30	30		
89	795-30.26	OPEN CUT 3" CASING PIPE (SCH 40 PVC)	L.F.	133	0	133		
	795-99.05	POLYETHYLENE PIPE PROTECT - 8" (PER ANSI/AWWA C105/A21.5 - INSTALLED ON NEW MAINS AS DIRECTED BY MUD)	L.F.	0	600	600		
	795-99.06	WATER UTILITY AS-BUILTS (SEE SPECIAL PROVISION REGARDING UTILITY RECORD DRAWINGS)	LS	0.24	0.76	1		
<b>ESTIMATED WATER LINE (MILCROFTON UTILITY DISTRICT) RELOCATION QUANTITIES Subtotal:</b>								

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
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**ESTIMATED SANITARY SEWER FORCE MAIN (CITY OF FRANKLIN) RELOCATION QUANTITIES**

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
90	797-01.02	6" FORCE MAIN (CLASS 350) (QTY INCLUDES 259 ADDITIONAL LF FOR TEMPORARY RELOCATIONS TO ACCOMMODATE PHASED CONSTRUCTION) (PRICE INCLUDES 14AWG, TYPE THHN SOLID COPPER DETECTION WIRE)	L.F.	0	5,002	5,002		
95	797-06.91	OPEN CUT 18" STEEL CASING PIPE	L.F.	0	80	80		
	797-08.01	DI FITTINGS (INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS)	LB.	0	3,000	3,000		
92	797-08.62	6" GATE VALVE ASSEMBLY	L.F.	0	4	4		
92	797-08.68	6" INSERTION VALVE (INSTALLED WITH NO SYSTEM SHUT DOWN - AS DIRECTED BY THE ENGINEER FOR FLOW CONTROL)	EACH	0	2	2		
93	797-09.19	COMBINATION AIR/VACUUM RELEASE VALVE	EACH	0	2	2		
91	797-09.46	CUT AND CAP / PLUG 6" FORCE MAIN	EACH	0	12	12		
91	797-10.17	CONNECT TO 6" FORCE MAIN	EACH	0	10	10		
96	797-11.46	CONCRETE CAP (CLASS A CONCRETE - AS DIRECTED BY THE ENGINEER)	L.F.	0	30	30		
97	797-99.01	POLYETHYLENE ENCASMENT PER ANSI/AWWA C105/A21.5 (INSTALLED ON NEW MAINS AS DIRECTED BY COF INSPECTOR)	L.F.	0	4,435	4,435		
94	797-99.02	REMOVAL OF EXISTING FM AIR VALVE / MANHOLE	EACH	0	1	1		

**ATTACHMENT A1 to ADDENDUM 2**

East McEwen Drive Phase 4 Improvements (PIN 125418.00)  
COF Construction Contract No. 2024-0246

BidForm\_Addendum2

**BID FORM for COF Construction Contract No. 2024-0246**  
East McEwen Drive Phase 4 Improvements (COF Project No. 2015-002 / TDOT PIN 125418.00)

**EXHIBIT A - PART 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**  
*Revised Per Addendum 2 on November 12, 2024*

FOOTNOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY (PART)	EST QTY (NON-PART)	EST QTY (TOTAL)	UNIT PRICE	EXT. AMOUNT
94	797-99.03	REMOVAL OF EXISTING 6" FORCE MAIN TO ACCOMMODATE ROADWAY CONSTRUCTION (QTY INCLUDES AN ADDITIONAL 150' AS DIRECTED BY THE ENGINEER)	L.F.	0	1,122	1,122		
	797-99.04	FORCE MAIN UTILITY AS-BUILTS (SEE SPECIAL PROVISION REGARDING RECORD DRAWINGS)	LS	0	1	1		
<b>ESTIMATED SANITARY SEWER FORCE MAIN (CITY OF FRANKLIN) RELOCATION QUANTITIES Subtotal:</b>								

<b>TOTAL BID PRICE (IN FIGURES):</b>								
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**TOTAL BID PRICE (IN WORDS):**

**TOTAL BID PRICE (IN FIGURES):**

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**END - EXHIBIT A - Part 1 of 2 - BID FORM - PROJECT ESTIMATED QUANTITIES**



## **ATTACHMENT B to ADDENDUM 2**

### **BID FORM for COF Construction Contract No. 2024-0246**

East McEwen Drive Phase 4 Improvements  
(COF Project No. 2015-002 / TDOT PIN 125418.00)

#### **EXHIBIT A – Part 2 of 2 – FOOTNOTES**

*Revised Per Addendum 2 on November 12, 2024*

1. TO BE USED AS DIRECTED FOR ADDITIONAL TRENCH BACKFILL ON STORM DRAIN ROADWAY CROSSINGS, OR AS DIRECTED BY THE ENGINEER.
2. ITEM 209-08.02 & 740-11.03 MAY BE INTERCHANGED BASED ON CONSTRUCTION ACTIVITIES.
3. TO BE USED AT THE LIMIT OF CONSTRUCTION ON FRONTAGE ROAD NORTH, TO PROTECT STREAMS, OR AS DIRECTED BY THE ENGINEER.
4. TO BE USED FOR SLOPE STABILIZATION, AS APPROVED BY THE ENGINEER.
5. CURB IRON TO HAVE A SOLID BACK PER CITY OF FRANKLIN REQUIREMENTS.
6. SIGNS SHALL BE FIELD STAKED PRIOR TO INSTALLATION. A FIELD INSPECTION SHALL BE MADE BY THE ENGINEER AND ACCEPTED PRIOR TO INSTALLATION BY THE CONTRACTOR.
7. TO BE USED AS DIRECTED BY THE ENGINEER.
8. COORDINATE WITH ENGINEER PRIOR TO REMOVAL.
9. PRIOR TO REMOVAL OF VEGETATION THE CONTRACTOR SHALL SUBMIT A PLAN OF OPERATIONS FOR APPROVAL BY THE ENGINEER.
10. TO BE USED ON THE CONSTRUCTION ENTRANCE PROVIDING INGRESS/EGRESS TO THE SITE, FOR 6" SEDIMENT FILTER BAG BASE OR AS DIRECTED BY THE ENGINEER.
11. TO BE USED FOR DITCH STABILIZATION, AS APPROVED BY THE ENGINEER.
12. INCLUDES PERFORATED/KNOCKOUT SQUARE TUBE POST (COORDINATE WITH STD. DRAWING T-S-17).
13. UNIT COST IS FOR A COMPLETE SYSTEM, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.
14. TO BE USED FOR RETAINING WALL BACKFILL. COORDINATE WITH RETAINING WALL DETAILS.
15. FOR CONNECTIONS AT EXISTING ROADWAYS, DRIVEWAYS AND BUSINESS ENTRANCES. IF THE CONTRACTOR ELECTS TO SAW CUT FOR OTHER PURPOSES, PAYMENT SHALL BE DISALLOWED UNLESS PRE-APPROVED BY THE ENGINEER.
16. TO BE USED AS DIRECTED BY THE ENGINEER . UNIT PRICE INCLUDES ALL WORK NECESSARY TO PREPARE THE AREA FOR PAVING.
17. TO BE USED AS DIRECTED BY THE ENGINEER FOR TEMPORARY ASPHALT MAINTENANCE DURING CONSTRUCTION.
18. WORK TO BE DONE IN ACCORDANCE WITH SECTION 202-01 OF THE STANDARD SPECIFICATIONS, INCLUSIVE BUT NOT LIMITED TO ITEMS SUCH AS, CURBS (CONCRETE/ASPHALT), MAILBOXES AND ALL OTHER ITEMS WITHIN THE GRADING LIMITS UNLESS OTHERWISE NOTED TO REMAIN.
19. INCLUDES 618 C.Y. FOR CONSTRUCTION ENTRANCE.

**ATTACHMENT B to ADDENDUM 2**  
**EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)**

*Revised Per Addendum 2 on November 12, 2024*

20. UNIT PRICE BIDS INCLUDES RIPRAP CLASS A-3 BACKFILL OR APPROVED ALTERNATE.
21. INCLUDES 451 MG FOR EARTHEN EMBANKMENT.
22. AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REP AIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.
23. INCLUDES ALL COST ASSOCIATED WITH INSTALLATION AND MAINTENANCE DURING THE LIFE OF THIS CONTRACT.
24. INCLUDES 5,500 TONS FOR MAINTENANCE OF TRAFFIC.
25. MINIMUM 6" CONCRETE THICKNESS W/ FIBER MESH. UNIT COST INCLUDES 4" MINIMUM AGGREGATE CLASS "A" GRADING "D" BASE.
26. TO BE USED FOR THE CONCRETE APPROACH APRON, EXTENDING TO THE RIGHT-OF-WAY LIMIT, MINIMUM 8" CONCRETE THICKNESS W/ FIBER MESH. UNIT COST INCLUDES 4" MINIMUM AGGREGATE CLASS "A" GRADING "D" BASE.
27. INCLUDES 1,785 L.F. TO BE USED IN CONJUNCTION WITH EROSION CONTROL FEATURES. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS, RELOCATIONS AND MAINTENANCE THROUGHOUT THE LIFE OF THE PROJECT AS CONSTRUCTION PHASES EVOLVE.
28. UNIT PRICE BID INCLUDES INSTALLATION AND REMOVAL COST OF ALL CONFLICTING PAVEMENT MARKINGS (TEMPORARY OR PERMANENT) INCLUSIVE OF TEMPORARY MARKINGS ON THE FINAL ASPHALT TOPPING.
29. ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. COORDINATE WITH TRAFFIC CONTROL TABULATION BLOCK.
30. 36" TO 42" HEIGHT. ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. COORDINATE WITH TRAFFIC CONTROL TABULATION BLOCK.
31. THIS WORK CONSISTS OF CLEARING, GRUBBING, REMOVING, AND DISPOSING OF ALL VEGETATION AND DEBRIS WITHIN THE DESIGNATED LIMITS, EXCEPT SUCH OBJECTS THAT ARE TO REMAIN OR ARE TO BE REMOVED ACCORDING TO OTHER ITEMS OF WORK. THIS WORK ALSO INCLUDES PRESERVING FROM INJURY OR DEFACEMENT ALL VEGETATION AND OBJECTS DESIGNATED TO REMAIN.
32. QUANTITY IS CALCULATED FROM FACE OF CURB TO FACE OF CURB.
33. INCLUDES LINE TYPES SSWL, SSYL, DSYL, SBYL & SBWL.
34. TO BE USED AS DIRECTED FOR ADDITIONAL TRENCH BACKFILL ON STORM DRAIN (1,979 CY) AND BOX/SLAB (42 CY) ROADWAY CROSSINGS, OR AS DIRECTED BY THE ENGINEER.
35. SOD TO BE INSTALLED ON TOPSOIL HAVING A MINIMUM DEPTH OF 6 INCHES.
36. UNIT PRICE BID INCLUDES TRENCH EXCAVATION, BACKFILL AND BEDDING OF THE PROPOSED PIPE CULVERT. COORDINATE WITH STANDARD DRAWING D-PB-1 AND D-PB-2.
37. CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
38. TO BE USED FOR UNPROTECTED END CURB TRANSITION.

**ATTACHMENT B to ADDENDUM 2**  
**EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)**

*Revised Per Addendum 2 on November 12, 2024*

39. COORDINATE WITH DETAIL SHEETS FOR R.O.W. MONUMENT SPECIFICATIONS.
40. THIS WORK CONSISTS OF REMOVING, ENTIRELY OR PARTIALLY, AND DISPOSING OF ALL BUILDINGS, FENCES, STRUCTURES, OLD PAVEMENTS, ABANDONED PIPE LINES, AND OTHER OBSTRUCTIONS NOT DESIGNATED OR PERMITTED TO REMAIN, EXCEPT FOR OBSTRUCTIONS TO BE REMOVED AND DISPOSED OF UNDER OTHER CONTRACT ITEMS. THE WORK ALSO INCLUDES BACKFILLING THE RESULTING TRENCHES, HOLES, AND PITS, AND SALVAGING DESIGNATED MATERIALS.
41. THIS WORK CONSISTS OF REMOVING, ENTIRELY OR PARTIALLY, AND DISPOSING OF ALL SIGNS AND FOOTINGS UNLESS DESIGNATED ON THE PLANS TO REMAIN. THE WORK ALSO INCLUDES BACKFILLING THE RESULTING TRENCHES, HOLES, AND PITS, AND SALVAGING DESIGNATED MATERIALS.
42. HAY BALES TO BE USED FOR CONCRETE WASHOUTS ONLY.
43. INCLUDES COSTS FOR ROCK PAD FOR SKIMMER TO REST UPON.
44. FOR 6" SEDIMENT FILTER BAG BASE.
45. SEE SHEET 16C. TO BE INSTALLED JUST SOUTH OF KING RICHARDS CT.
46. INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO DRILL THE SOLDIER PILE FOUNDATIONS AND PROVIDE TEMPORARY SUPPORT FOR THE FOUNDATION PRIOR TO THE INSTALLATION OF THE SOLDIER PILE AND FOUNDATION CONCRETE. ALSO INCLUDES COST OF STRUCTURAL STEEL FOR THE SOLDIER PILE AND ALL STEEL CONNECTING HARDWARE AND GUIDE ANGLES. ALL STRUCTURAL STEEL FOR SOLDIER PILES SHALL BE ASTM A992 GRADE 50. ITEM ALSO INCLUDES COST OF GALVANIZING FOR ALL STRUCTURAL STEEL COMPONENTS, INCLUDING STEEL HARDWARE AND GUIDE ANGLES. GALVANIZATION SHALL MEET THE REQUIREMENTS OF ASTM A123 AND REPAIRED ACCORDING TO ASTM A780. ITEM ALSO INCLUDES ALL LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY FOR THE INSTALLATION OF THE STEEL SOLDIER PILES AS DETAILED IN THE CONTRACT PLANS AND IN ACCORDANCE WITH SPECIAL PROVISION 624.
47. INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO STABILIZE EXCAVATIONS REQUIRED TO CONSTRUCT THE PROPOSED RETAINING WALL.
48. RETAINING WALLS B,C,D,ME,L,P 1,P2,&P3 ARE TO BE MSE CONCRETE PANEL TYPE WALL TO BE DESIGNED BY THE CONTRACTOR'S ENGINEER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW IN ACCORDANCE WITH THE STANDARD TDOT SPECIFICATIONS (2015 EDITION) AND TDOT SPECIAL PROVISION 624.
49. SEE SHEET 18AG FOR STATION LOCATIONS.
50. APPLIED TEXTURE FINISH AND NON-SACRIFICIAL ANTI-GRAFFITI COATING INCLUDED WITH THE COST OF THE RETAINING WALL.
51. EACH MOWING EVENT SHALL BE NEGOTIATED AS A PERCENT OF A FULL CYCLE.
52. ALL COSTS FOR UNIFORMED POLICE OFFICERS TO BE INCLUDED WITH ITEM NO. 712-02 "TRAFFIC CONTROL."
53. CHANGEABLE MESSAGE SIGN UNIT SHALL BECOME THE PROPERTY OF THE CITY OF FRANKLIN AT THE END OF THE PROJECT, SHALL BE IN LIKE-NEW CONDITION, AND WITH FULL MANUFACTURER WARRANTY.

**ATTACHMENT B to ADDENDUM 2**  
**EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)**

*Revised Per Addendum 2 on November 12, 2024*

54. COORDINATE WITH STRUCTURE DRAWINGS FOR ADDITIONAL FOOTNOTES.
55. COORDINATE WITH MTEMC GUIDELINES.
56. INCLUDES THE FOLLOWING: 1-POLE, 20AMP BREAKER (TUNNEL), 1 NEMA 3R LOAD CENTER, (PLAYERS MILL SIGNAGE); 10, 2-POLE, 30 AMP BREAKER (ROAD AND BIKE); LOAD CENTER, 125R, (PLAYERS MILL SIGNAGE), 1 3/4" X 611 GALVANIZED PENDANT NIPPLE, 1,950 LF OF #12 SOLID TYPE UF-B FOR LIGHT POST RISERS, 3,770 LF OF #12 COPPER, THHN OR THWN, GREEN GROUND/GROUNDING CONDUCTOR, 5,150 LF OF #10 COPPER, THHN OR THWN, INCLUDES TWO (2) CIRCUIT CONDUCTORS, 28,750 LF OF #8 COPPER, THHN OR THWN, INCLUDES TWO (2) CIRCUIT CONDUCTORS, BLACK, RED, OR BLUE, 250 LF OF #2 COPPER, THHN OR THWN, INCLUDES TWO (2) SERVICE CONDUCTORS, PERMITS, INSPECTION FEES, AS-BUILT DRAWINGS AND ANY OTHER ITEM OR ITEMS THE CONTRACTOR FEELS ARE NECESSARY FOR A COMPLETE LIGHTING SYSTEM. DAY/NIGHT CONTROL VIA PHOTO SENSOR SHOULD BE DONE AT MILLBANK PEDESTAL, NOT AT EACH INDIVIDUAL LIGHT.
57. RISER ASSEMBLY (3" SCHEDULE 80 PVC, WITH PULL TAPE, ELECTRICAL GRAY, SERVICE RISER, INCLUSIVE OF SCHEDULE 80 PVC MIN 24" LONG RADIUS ELBOW, AND 4 @ 22.5 DEGREE RIGID NON-METALLIC ELBOW, 3" PVC MALE, LOCKNUT & PLASTIC BUSHING, 3" PVC MALE, LOCKNUT & PLASTIC BUSHING).
58. POLE AND LUMINAIRE ARE TO BE RETURNED TO THE CITY OF FRANKLIN STREETS DEPARTMENT IN WORKING CONDITION FOR LATER USE.
59. PULL BOXES (SMALL PULL BOX, CDR#PA10-1324-18-0299, QUAZITE #PG2436Z510MT, HIGHLINE #PHA243618SE1-32, 94 OLDCASTLE #243618PB7021, 1/2" GRAVEL FOR BOX INSTALLATIONS).
60. PULL BOXES (LARGE PULL BOX, QUAZITE #PG2436Z510MT-B, HIGHLINE #PHA243618SE1-32, OLDCASTLE #243618PB7021, 1/2" GRAVEL FOR BOX INSTALLATIONS).
61. THHN OR THWN, GROUND/GROUNDING CONDUCTOR.
62. THHN OR THWN, NEUTRAL/GROUNDED CONDUCTOR.
63. 20 LF SOFT DRAWN COPPER FOR LIGHT POST GROUNDING AND 680 LF OF THHN OR THWN, WITH 2 SERVICE CONDUCTORS, BLACK, RED OR BLUE.
64. FOR SERVICE ENTRANCE GROUNDING.
65. THHN OR THWN, WHITE, FOR SERVICE GROUNDED CONDUCTOR.
66. STREETLIGHT (**LIGHT EMITTING DIODE "LED" ROADWAY LUMINAIRE**, BRAND - STREETWORKS/COOPER, SERIES – VST VENTUS LED, CCT – 3000K, HOUSING COLOR - BLACK, PRICE INCLUDES COST TO COORDINATE WITH MANUFACTURER, VENDOR, AND CITY TO ENSURE PROPER LIGHT SIZING TO MEET TDOT LIGHTNING REQUIREMENTS AND ANSI/IES RP-8-22: DESIGN OF ROADWAY FACILITY LIGHTING.) (**LIGHT STANDARD/POLE**, 30-FOOT HEIGHT, BRAND – HAPCO, SERIES – SQUARE STRAIGHT ALUMINUM "SSA", COLOR - BLACK)

## ATTACHMENT B to ADDENDUM 2

### EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)

Revised Per Addendum 2 on November 12, 2024

67. STREETLIGHT (**LIGHT EMITTING DIODE “LED” ROADWAY LUMINAIRE**, BRAND - STREETWORKS/COOPER, SERIES – VST VENTUS LED, CCT – 3000K, HOUSING COLOR - BLACK, PRICE INCLUDES COST TO COORDINATE WITH MANUFACTURER, VENDOR, AND CITY TO ENSURE PROPER LIGHT SIZING TO MEET TDOT LIGHTNING REQUIREMENTS AND ANSI/IES RP-8-22: DESIGN OF ROADWAY FACILITY LIGHTING.) (**LIGHT STANDARD/POLE**, 25-FOOT HEIGHT, WALL/PARAPET-MOUNT, BRAND – HAPCO, SERIES – SQUARE STRAIGHT ALUMINUM “SSA”, COLOR - BLACK)
68. STREETLIGHT (**LIGHT EMITTING DIODE “LED” DECORATIVE ROADWAY LUMINAIRE**, BRAND – HOLOPHANE/ACUITY, SERIES – GRANVILLE CLASSIC STANDARD LED3 “GVD3”, CCT – 3000K, HOUSING COLOR – BLACK, FIELD ADJUSTABLE OUTPUT OPTION, PRICE INCLUDES HOUSE-SIDE SHIELDING IF NECESSARY) (**DECORATIVE LIGHT STANDARD/POLE**, 16-FOOT HEIGHT, BRAND – HOLOPHANE/ACUITY, SERIES – WADSWORTH ALUMINUM POLE (WDA), COLOR – BLACK)
69. STREETLIGHT (**LIGHT EMITTING DIODE “LED” TUNNEL LUMINAIRE**, BRAND – LUMARK/COOPER, SERIES – ROUND PARKING GARAGE & CANOPY (RPGC) LED, PRICE INCLUDES COORDINATION WITH MANUFACTURER, VENDOR, AND CITY TO ENSURE PROPER LIGHT SIZING TO MEET TDOT LIGHTING REQUIREMENTS AND ANSI/IES RP-8-22: DESIGN OF ROADWAY FACILITY LIGHTING, ALSO INCLUDES STEM MOUNT PHOTO CONTROL (PLAYERS MILL SIGNAGE), JUNCTION BOX, METAL, PAINTED, 24"X24"X6", 3R, RTSC NK).
70. THE CONTRACTOR IS TO INSTALL "FIELD HUB SWITCH" AS SUPPLIED BY THE CITY OF FRANKLIN.
71. INCLUDES SURGE PROTECTION (POE) DEVICE AND POE EXTENDER UNIT. ITEM ALSO INCLUDES 12 FOOT POWDER COATED BLACK EXTENSION ARM.
72. INCLUDES PULL STRING AND 14 AWG, TYPE THHN SOLID COPPER WIRE.
73. INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.
74. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASSED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL AND/OR ROCK. STEEL PIPE INCLUDES SPECIAL COATING AS SPECIFIED ON PLANS AND SPECS. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.
75. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR CONNECTING TO EXISTING GAS LINE, INCLUDING TRAFFIC CONTROL.

**ATTACHMENT B to ADDENDUM 2**  
**EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)**

*Revised Per Addendum 2 on November 12, 2024*

76. INCLUDES TRANSITION FITTINGS, VALVES, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, COUPLINGS, FUSION TEES, TAP OF EXISTING LINE, AND ALL OTHER NECESSARY MATERIALS AND LABOR FOR COMPLETE INSTALLATION OF ASSEMBLY, INCLUDING TRAFFIC CONTROL.
77. INCLUDES ALL MATERIALS, PARTS, LABOR, EQUIPMENT, MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF GAS SERVICE ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. INSTALLATION FOR LONG SIDE AND SHORT SIDE APPLICATIONS. SERVICE PIPE SHALL BE PAID PER LINEAR FOOT INSTALLED. REMOVE FARM TAPS AS REQUIRED.
78. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF INDIVIDUAL ITEM AS SPECIFIED ON BID FORM AND UTILITY SPECIFICATIONS. COST INCLUDES, GRAVEL PAD, STEEL BARRICADE, MINOR GRADING, REGULATING STATION, TESTING, ETC.
79. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM.
80. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIREMENT OF ITEM INCLUDING STABILIZING THE ITEM OF PLANT PER UTILITY SPECIFICATIONS.
81. AS-BUILT DATA WILL BE COLLECTED USING LOCUSVIEW BY GAS SUBCONTRACTOR.
82. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.
83. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASSED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL AND/OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
84. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING WATER LINE INCLUDING TRAFFIC CONTROL.
85. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVES, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.
86. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.
87. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF UNIT OR LUMP SUM ITEM AS SPECIFIED IN THE BID FORM.

**ATTACHMENT B to ADDENDUM 2**  
**EXHIBIT A – Part 2 of 2 – FOOTNOTES (Continued)**

*Revised Per Addendum 2 on November 12, 2024*

88. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR REMOVAL OF ITEM.
89. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, FITTINGS, TRACER WIRE, WARNING TAPE, UTILITY LINE MARKERS AND TRAFFIC CONTROL. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
90. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE EXCAVATION INCLUDING BUT NOT LIMITED TO BEDDING, BACKFILLING, THRUST BLOCKING, PIPE FUSION, APPURTENANCES, FLOWABLE FILL, MAINTAINING THE TRENCH, TESTING, CHECK DAMS, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE GRAVITY SEWER LINES OR FORCE MAINS AS SPECIFIED ON THE PLANS. ALL MATERIAL PER CITY OF FRANKLIN SPECIFICATIONS.
91. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONNECTING TO AN EXISTING FORCE MAIN, SEWER LINE, PUMP STATION, OR MANHOLE AS SPECIFIED ON PLANS, INCLUDING TRAFFIC CONTROL.
92. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.
93. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED AND DETAILED IN THE PLANS AND SPECS.
94. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, FOR RETIRE IN PLACE OR REMOVAL ITEMS AS SPECIFIED ON THE BID FORM INCLUDING TRAFFIC CONTROL.
95. INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT INCLUDING BUT NOT LIMITED TO CASING PIPE, PIPE SPACERS, CASING END SEALS, STONE BACKFILL, TEMPORARY PAVEMENT, AND ANY OTHER APPURTENANCE TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS, AND TRAFFIC CONTROL.
96. CAST-IN-PLACE CONCRETE IS A PAY ITEM WHEN USED IN CONJUNCTION WITH CONCRETE ENCASUREMENT, CONCRETE CAPS, AND CONCRETE ANCHORS. CAST-IN-PLACE CONCRETE IS NOT A PAY ITEM WHEN USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKS.
97. PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING POLYETHYLENE ENCASUREMENT PER FOOT. MEASUREMENT SHALL BE MADE ALONG THE CENTERLINE OF THE PIPE TO INCLUDE FIRE HYDRANT BRANCHES.

**END of BID FORM – EXHIBIT A – Part 2 of 2 - FOOTNOTES**





U.S. Department  
of Transportation  
Federal Highway  
Administration

# Memorandum

Subject: **ACTION:** Preliminary Injunction  
Affecting Disadvantaged Business  
Program

Date: November 5, 2024

From: Irene Rico Digitally signed by Irene Rico  
Date: 2024.11.05 17:14:55  
-05'00'  
Associate Administrator  
Office of Civil Rights

In Reply Refer To:  
HCR - 1

To: Daniel T. Hinton  
Division Administrator  
Gilberto DeLeon  
Deputy Division Administrator

On September 23, 2024, the U.S. District Court for the Eastern District of Kentucky issued a preliminary injunction against the U.S. Department of Transportation (“USDOT”) with regard to the Disadvantaged Business Enterprise (“DBE”) program. The decision was issued in a lawsuit brought by two non-DBE firms: Mid-America Milling Company (“MAMCO”) and Bagshaw Trucking (“Bagshaw”) (collectively, the “Plaintiffs”).

On October 31, 2024, the Court issued an opinion and order clarifying the scope of the preliminary injunction. USDOT is enjoined from “mandating the use of race- and gender-based rebuttable presumptions for United States Department of Transportation contracts impacted by DBE goals upon which the Plaintiffs bid, to be effective in any state in which Plaintiffs operate or bid on such contracts.”

1. USDOT is analyzing the preliminary injunction in consultation with the U.S. Department of Justice (“DOJ”). I am writing to provide immediate, interim guidance for Federal-aid projects that are obligated by the Tennessee Department of Transportation (“TDOT”). FHWA, after consultation with the USDOT Acting General Counsel and DOJ, is issuing this guidance to comply with the court’s preliminary injunction. Plaintiffs have identified one TDOT contract on which they plan to bid, scheduled for special letting on November 15, 2024. This contract, which is for a project that is administered by the City of Franklin, Tennessee, is listed in Appendix A.



## ATTACHMENT C to ADDENDUM 2

2. Notwithstanding 49 CFR Part 26, USDOT will not mandate that TDOT include DBE contract goals on the contract identified in Appendix A utilizing federal funds. In addition, FHWA will not concur in the award of the contract listed in Appendix A if it contains a DBE goal higher than 0% (including where the FHWA's concurrence responsibility has been assumed by TDOT under the FHWA/State Stewardship and Oversight Agreement).
3. TDOT, in turn, should issue an amendment setting a 0% DBE goal for the contract identified in Appendix A prior to the special letting.
4. Plaintiffs MAMCO and Bagshaw have indicated that they may identify additional USDOT-funded TDOT contracts, scheduled for future lettings, on which they intend to bid. USDOT will consult with TDOT about any actions that are necessary to ensure compliance with the preliminary injunction with respect to such contracts.
5. Other than the limitations set forth in this and previous guidance, TDOT may continue to fully implement the DOT DBE program, including setting DBE contract goals on contracts that are not identified in this memorandum.

USDOT will provide additional written guidance in the near future.

Please share this guidance with your State department of transportation.

cc: Ayanna Butler, Chief Counsel  
Donald E. Davis, DFS South

Appendix A

# **PROPOSAL CONTRACT**

FOR THE CONSTRUCTION OF

**Contract No. 2024-0246**

PIN: 125418.00  
County: Williamson  
Federal Project No.: STP-M-9305(31)  
State Project No.: 94LPLM-F3-096  
Local Agency Reference No.: COF Project No. 2015-002 / Contract No. 2024-0246  
Description Of Project: East McEwen Drive Phase 4 Improvements, from east of roundabout intersection with Oxford Glen Drive / Cool Springs Boulevard to Wilson Pike (SR-252)  
Project Length: 1.372 miles  
Completion Time: On or Before 1,080 calendar days following the "Notice to Proceed" (NTP) with Work  
DBE Goal: 8.50%

**BID DOCUMENT!**  
**NON-OPEN!**

REVISIONS  
 1. 04/07/23 KRH STANDARD DWG. REV. DATE  
 2. 11/08/24 KRL REVISION DATES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	23	16015044	18
CONST.	23	94LPLM-F3-096	
CONST.	23	STP-M-9305(31)	

ESTIMATED RETAINING WALL QUANTITIES					RETAINING WALL QUANTITY S.F. (A)	WALL B	WALL C	WALL D	WALL ME	WALL G1	WALL H1	WALL L	WALL P1	WALL P2	WALL P3
FOOTNOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL		QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES
	604-01.20	BOX TUBE SAFETY RAIL	L.F.	1021		419					283		319		
(3)	604-07.01	RETAINING WALL B	S.F.	3401	3401										
(3)	604-07.02	RETAINING WALL C	S.F.	2872	2872										
(3)	604-07.03	RETAINING WALL D	S.F.	2872	2872										
(3)	604-07.04	RETAINING WALL ME	S.F.	15310	15310										
	604-07.05	RETAINING WALL G1	S.F.	1473	1473										
	604-07.06	RETAINING WALL H1	S.F.	4098	4098										
(1)	604-07.08	RETAINING WALL K1	S.F.	1444	1444										
(3)	604-07.09	RETAINING WALL L	S.F.	3823	3823										
(3)	604-07.10	RETAINING WALL P1	S.F.	1750	1750										
(3)	604-07.11	RETAINING WALL P2	S.F.	2481	2481										
(3)	604-07.12	RETAINING WALL P3	S.F.	516	516										
	620-06	CONCRETE RAILING	L.F.	1973			271	265	831	145		282		179	
(2)	621-05.02	TEMPORARY SHORING	LS	1									0.463	0.445	0.092
(4)	920-11	CONCRETE PARAPET RAIL WITH MOMENT SLAB	L.F.	1471											

(A) NOTE: RETAINING WALL SF QUANTITY INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT THE PROPOSED RETAINING WALLS WITH THE EXCEPTION OF COSTS ASSOCIATED WITH ITEM NUMBERS 604-01.20, 620-06, AND 621-05.02. COSTS INCLUDED IN THE SF QUANTITY INCLUDE, BUT ARE NOT LIMITED TO WALL EXCAVATION, WALL CONSTRUCTION, BACKFILLING, STAINING AND GRAFFITI PROTECTION SYSTEM, FOUNDATION INSTALLATIONS, FOUNDATION IMPROVEMENTS, ROCK EXCAVATION, FORMLINER FINISH, TEXTURE COATING, WALL DRAINAGE SYSTEMS, MOMENTS SLABS, PILING, AND TIMBER LAGGING

FOOTNOTES:

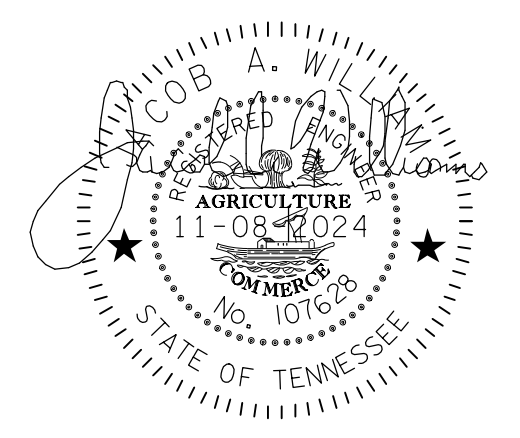
- (1) INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO DRILL THE SOLDIER PILE FOUNDATIONS AND PROVIDE TEMPORARY SUPPORT FOR THE FOUNDATION PRIOR TO THE INSTALLATION OF THE SOLDIER PILE AND FOUNDATION CONCRETE. ALSO INCLUDES COST OF STRUCTURAL STEEL FOR THE SOLDIER PILE AND ALL STEEL CONNECTING HARDWARE AND GUIDE ANGLES. ALL STRUCTURAL STEEL FOR SOLDIER PILES SHALL BE ASTM A992 GRADE 50. ITEM ALSO INCLUDES COST OF GALVANIZING FOR ALL STRUCTURAL STEEL COMPONENTS, INCLUDING STEEL HARDWARE AND GUIDE ANGLES. GALVANIZATION SHALL MEET THE REQUIREMENTS OF ASTM A123 AND REPAIRED ACCORDING TO ASTM A780. ITEM ALSO INCLUDES ALL LABOR, EQUIPMENT AND INCIDENTALS NECESSARY FOR THE INSTALLATION OF THE STEEL SOLDIER PILES AS DETAILED IN THE CONTRACT PLANS AND IN ACCORDANCE WITH SPECIAL PROVISION 624.
- (2) INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO STABILIZE EXCAVATIONS REQUIRED TO CONSTRUCT THE PROPOSED RETAINING WALL.
- (3) RETAINING WALLS B,C,D,ME,L,P1,P2,P3 ARE TO BE MSE CONCRETE PANEL TYPE WALL TO BE DESIGNED BY THE CONTRACTOR'S ENGINEER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW IN ACCORDANCE WITH THE STANDARD TDOT SPECIFICATIONS (2015 EDITION) AND TDOT SPECIAL PROVISION 624.
- (4) SEE SHEET 18AG FOR STATION LOCATIONS.

LIST OF DRAWINGS	DWG. NO.	LAST REV. DATE
ESTIMATED QUANTITIES	18	11/08/2024
GEOTECHNICAL DESIGN NOTES AND REQUIREMENTS	18A	
RETAINING WALLS B THRU P3		
RETAINING WALLS G1 & H1 GENERAL NOTES	18B	
TYPICAL SECTIONS	18C	
MODIFIED CONCRETE PARAPET	18D	
RETAINING WALL B	18E	
RETAINING WALL C	18G	
RETAINING WALL D	18H	
RETAINING WALL ME	18I	
RETAINING WALL G1	18K	11/08/2024
RETAINING WALL H1	18P	11/08/2024
RETAINING WALL K1	18U	
RETAINING WALL L	18AB	
RETAINING WALL P1	18AC	
RETAINING WALL P2	18AE	
RETAINING WALL P3	18AF	
MOMENT SLAB	18AG	

LIST OF STANDARD DRAWINGS	DWG. NO.	LAST REV. DATE
BRIDGE RAILING	STD-11-1	04-15-20
CONCRETE PARAPET WITH STRUCTURAL TUBING		
BIKE/PEDESTRIAN SAFETY RAIL	MM-BPR-1	01-28-22
ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL	W-MSE-1	05-01-20
ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL	W-CIP-1	05-01-20
ROADWAY FEATURES AT SOLDIER PILE AND SOIL ANCHORED RETAINING WALLS	W-SP-1	05-01-20

LIST OF SPECIAL PROVISIONS	DWG. NO.	LAST REV. DATE
RETAINING WALLS	624	05-14-18

ATTACHMENT D  
 to  
 ADDENDUM 2



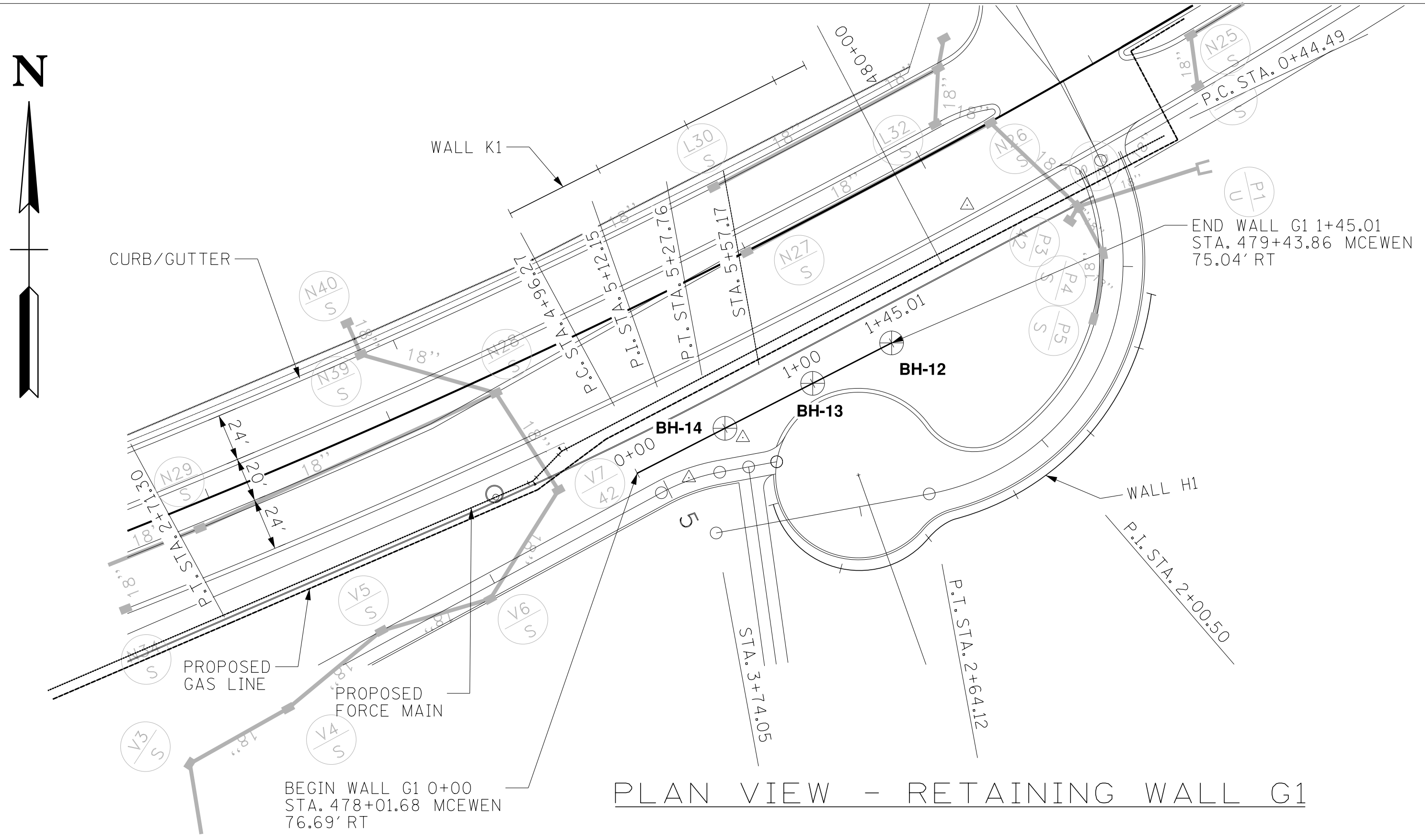
benesch BENESCH  
 8 CADILLAC DRIVE  
 BRENTWOOD, TN 37027

RETAINING WALL  
 ESTIMATED QUANTITIES  
 FROM: EAST OF  
 COOL SPRINGS BLVD  
 TO: WILSON PIKE  
 WILLIAMSON COUNTY



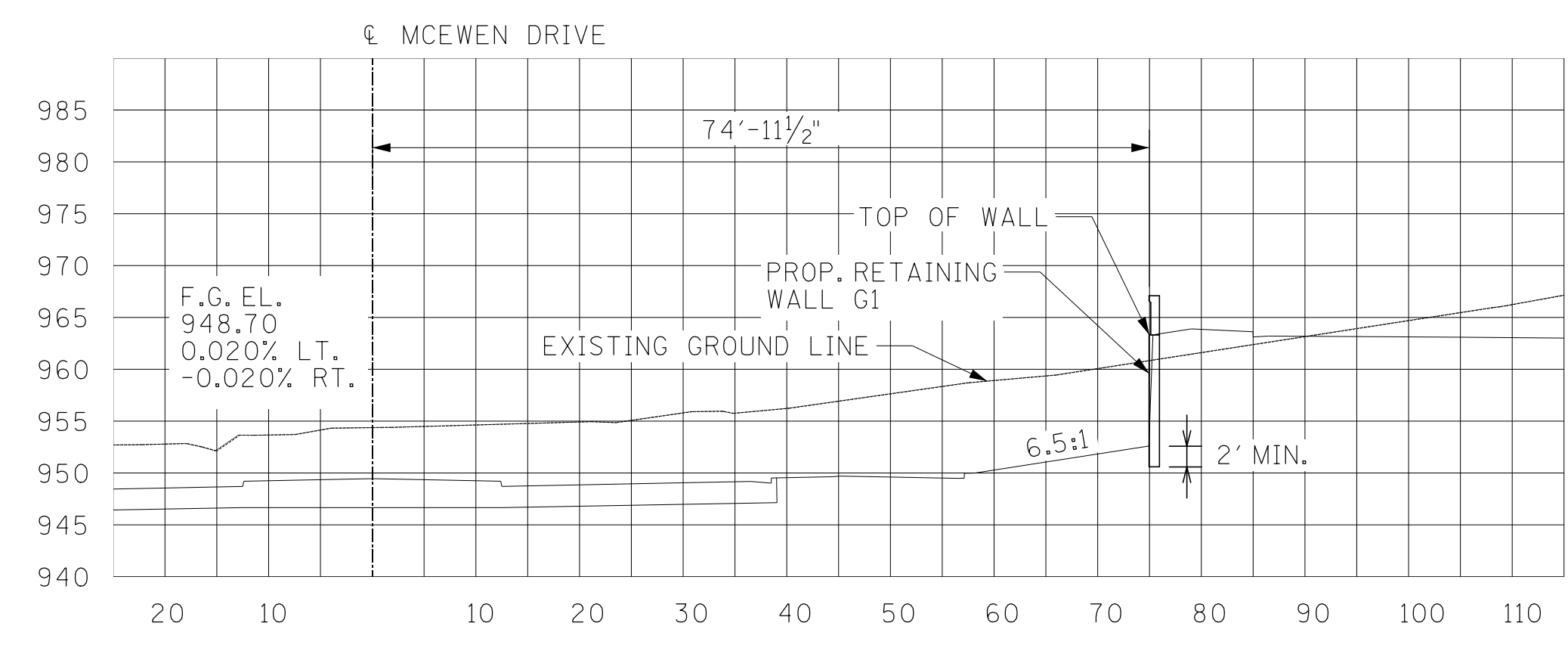
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	23	16015044	18K
CONST.	23	94LPLM-F3-096	
CONST.	23	STP-M-9305(31)	

REVISIONS:  
1. KRL 11/8/24 ADDED BORING DATA



NO.	STATION	WALL STA.	OFFSET	TOP OF WALL EL.	TOP OF FOOTING EL.
1	478+01.68	0+00	76.66' RT	960.12	*957.54
2	478+50.69	0+50	75.49' RT	963.41	*953.12
3	478+99.72	1+00	74.96' RT	963.56	*950.44
4	479+43.86	1+45.01	75.04' RT	954.53	*950.04

\* CONCEPTUAL TOP OF FOOTING ELEVATION DIFFERS FROM ACTUAL DESIGN TOP OF FOOTING ELEVATION



TYPICAL SECTION  
STA. 479+00.00 MCEWEN =  
1+00.75 WALL G1

RETAINING WALL DESIGN NOTES AND REQUIREMENTS:  
SEE SHEET NO. 18B

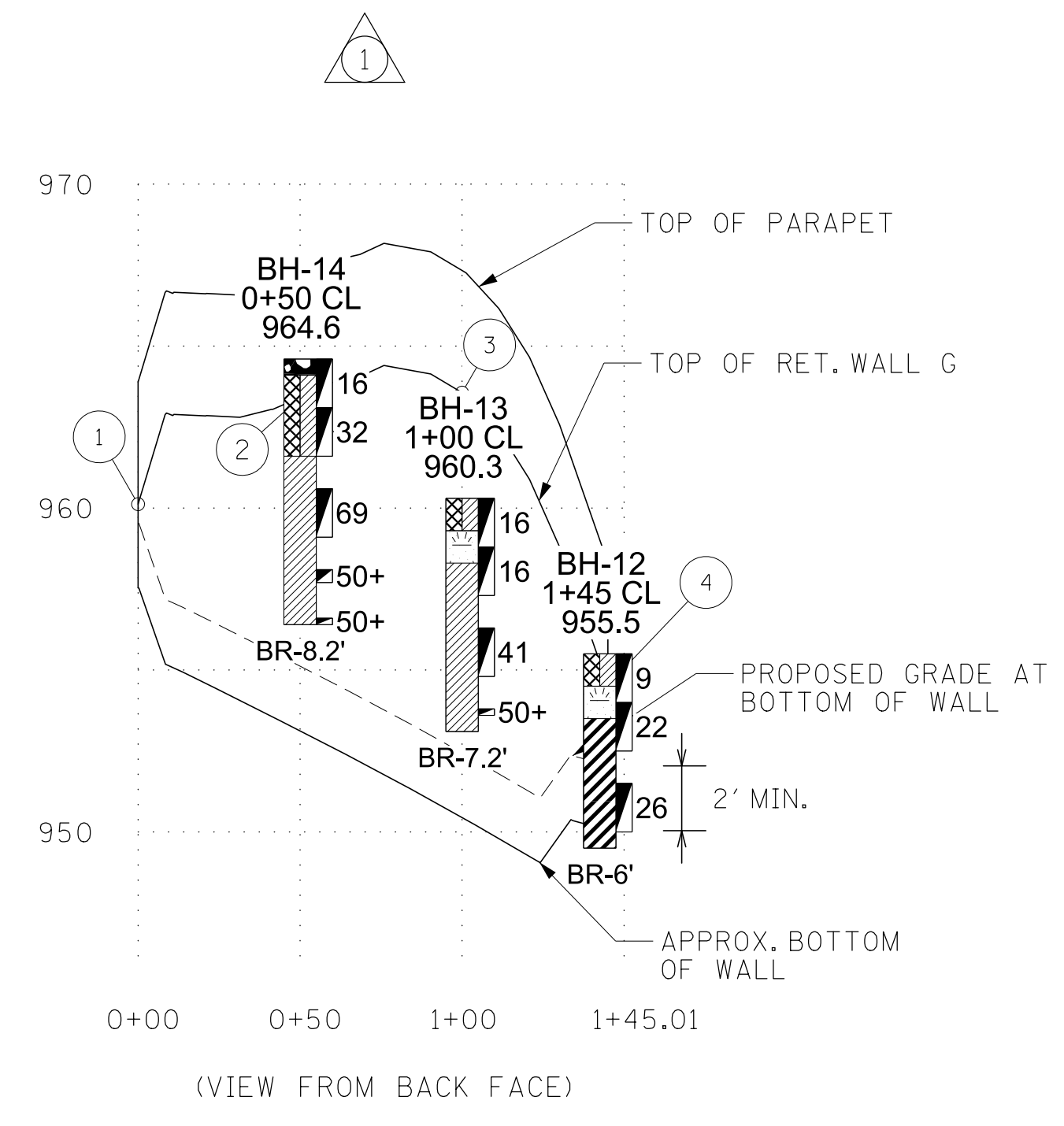
ACCEPTABLE WALL TYPES  
CAST-IN-PLACE CONCRETE CANTILEVER WALL  
NO VALUE ENGINEERING OF WALLS SHALL BE ALLOWED

TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	MINIMUM FOUNDATION EMBEDMENT DEPTH (feet)	FOUNDATION BEARING CONDITION REQUIREMENT *	NOMINAL (ULTIMATE) BEARING PRESSURE (psf)	COEFFICIENT OF SLIDING FRICTION FOR GRADED SOLID ROCK
WALL G1 Sta. 0+50 TO 1+45	2	CONTINUOUS BEDROCK OR LEAN CONCRETE 3,000 PSI	32,000	0.7

\* RELATIVELY CONTINUOUS BEDROCK SHOULD BE DETERMINED VIA CONTRACTOR DRILLED TEST HOLES SPACED NO MORE THAN 15 FEET APART. TEST HOLES ARE NORMALLY 2" TO 3" DIAMETER AND DRILLED TO A DEPTH OF 6 FEET. ACCEPTABILITY OF ROCK WILL BE BASED ON NO OPEN VOIDS OR SOIL SEAMS IN THE TOP 3 FEET AND NO MORE THAN 2 INCHES OF DISCONTINUITIES OVER THE FULL DEPTH.

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALL. DETAILS OF THE DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS. IF A CONCRETE WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.



LEGEND: BORING PROFILE SYMBOLS

STATION NO. AND OFFSET FROM CENTERLINE	B-20	BORING ID
50+50 92'L	801	BOREHOLE ELEVATION (FT MSL)
	14	SPT N-VALUE
	12	SPT SYMBOL
	9	
	10	
	10	
	20	LITHOLOGY GRAPHIC
	10	
	BT-56.5'	
WATER LEVEL AT TIME OF DRILLING		
TERMINATION		
BR=AUGER REFUSAL		
BT=BORING TERMINATED		
CT=CORING TERMINATED		

TOPSOIL	ASPHALT
FILL	GRAVEL (GW)
LEAN CLAY/ SILTY CLAY (CL)	SHOT ROCK LIMESTONE/ LIMESTONE PIECES AND GRAVEL (GP)
FAT CLAY (CH)	
CLAYEY SILT (ML)	

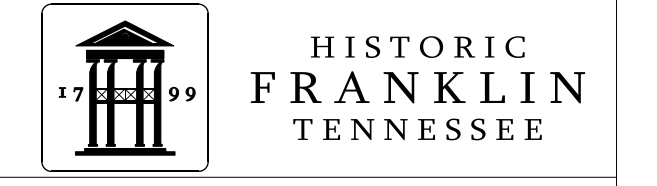
ESTIMATED QUANTITIES FOR RETAINING WALL

ITEM NO.	203-01.79*	303-01.03*	604-02.03*	604-07.05	624-03.01*	604-09.10*	620-06	710-09.10*
DESCRIPTION	EXCAVATION/ BACKFILL (WALL G1) C.Y.	GRANULAR BACKFILL (WALL G1) TON.	EXPOXY COATED REINFORCING STEEL (WALL G1) LB.	RETAINING WALL (WALL G1) S.F.	RETAINING WALL REINFORCING STEEL (WALL G1) LB.	CLASS A CONCRETE (WALL G1) C.Y.	CONCRETE RAILING (WALL G1) L.F.	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM (WALL H1) L.F.
QUANTITY	735	47	3630	1473	9910	155	145	147

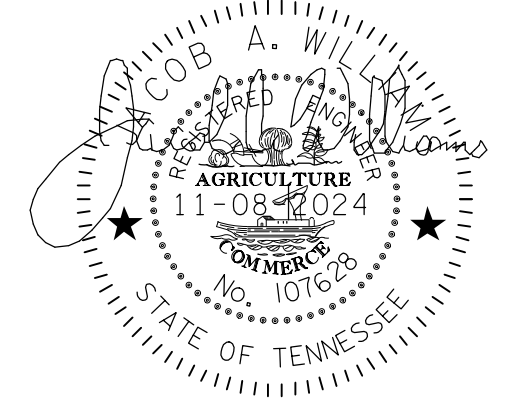
NOTE:  
1. THE RETAINING WALL PAY QUANTITY IS BASED ON THE SURFACE AREA BETWEEN THE TOP OF THE RETAINING WALL AND 2'-0" BELOW GROUND LINE.

\* CORRESPONDING ITEM NUMBERS SHOWN FOR REFERENCE INFORMATION ONLY.

**ATTACHMENT D**  
to  
**ADDENDUM 2**



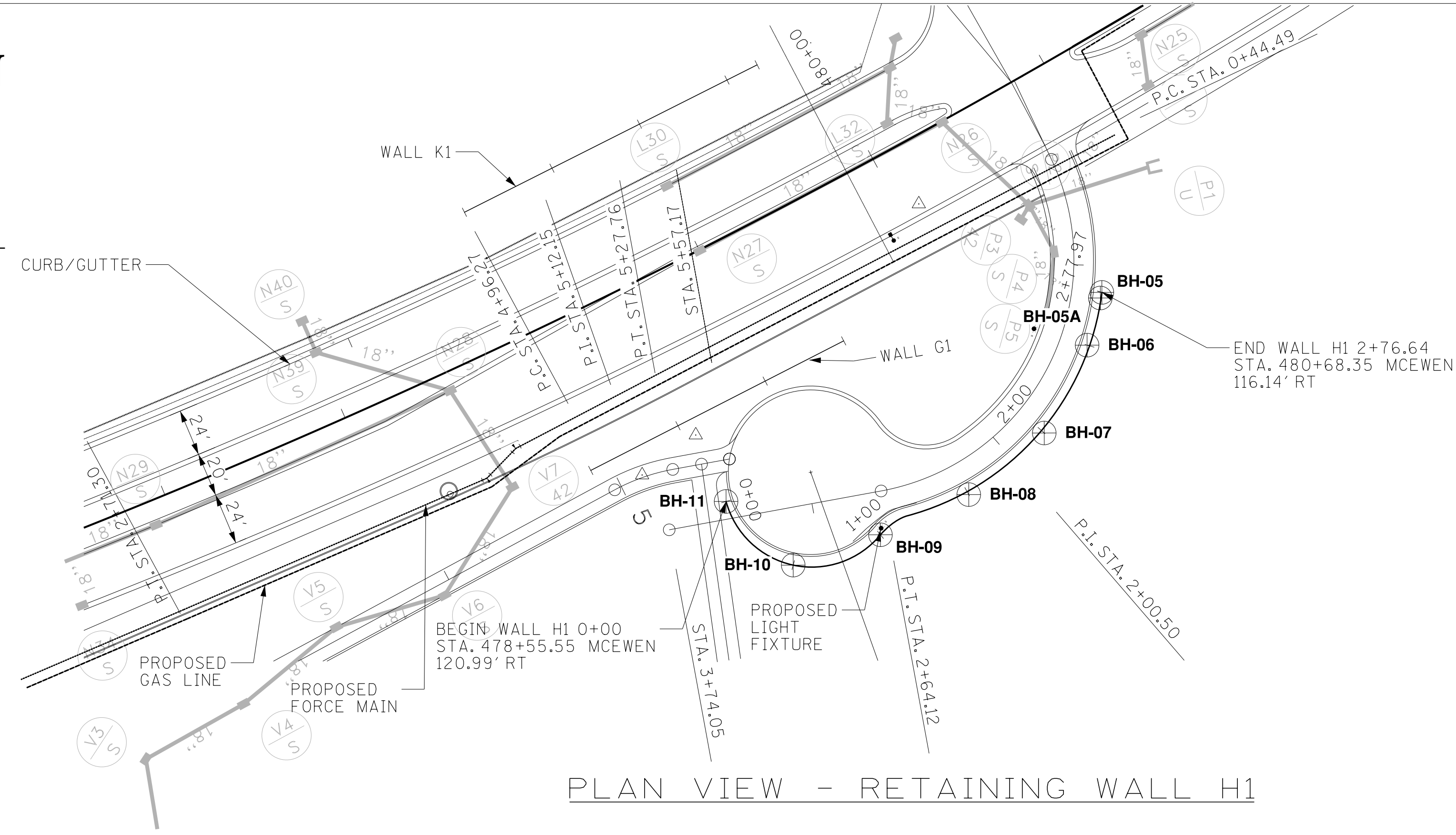
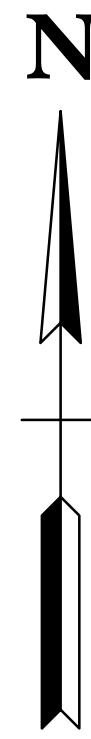
benesch 8 CADILLAC DRIVE BRENTWOOD, TN 37027



RETAINING WALL G1  
CONCEPTUAL DRAWING  
MCEWEN DRIVE  
FROM: EAST OF  
COOL SPRINGS BLVD  
TO: WILSON PIKE  
WILLIAMSON COUNTY

11/8/2024 8:54:08 AM Y:\Nashville\16015044\Eng\_Docs\16015044\Eng\_Plans\16015044\Wall G1\_Sht\_1\_Conceptual\Drawing.sht

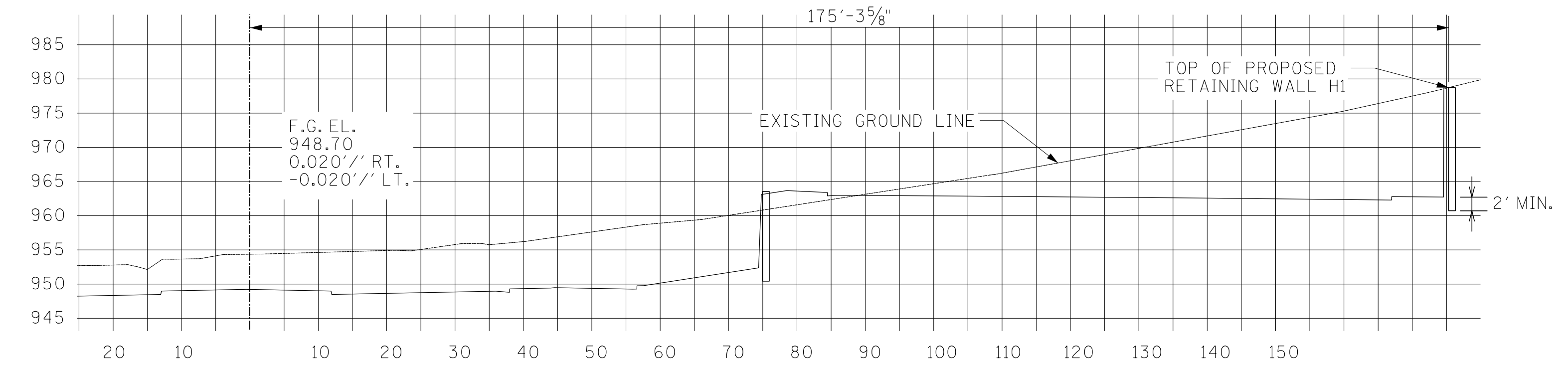




PLAN VIEW - RETAINING WALL H1

NO.	STATION	WALL STA.	OFFSET	TOP OF WALL EL.	TOP OF FOOTING EL.
1	478+55.55	0+00	120.99' RT	968.43	965.36
2	478+71.24	0+50	165.32' RT	978.52	963.77
3	479+15.98	1+00	171.56' RT	976.49	959.36
4	479+63.27	1+50	172.46' RT	972.90	953.45
5	480+00.94	2+00	162.89' RT	965.50	947.52
6	480+50.11	2+50	136.84' RT	952.03	942.14
7	480+68.35	2+76.64	116.14' RT	944.92	* 939.78

\* CONCEPTUAL TOP OF FOOTING ELEVATION DIFFERS FROM ACTUAL DESIGN TOP OF FOOTING ELEVATION



TYPICAL SECTION  
STA. 479+00.00 MCEWEN =  
00+00 WALL H1

RETAINING WALL DESIGN NOTES AND REQUIREMENTS:  
SEE SHEET NO. 18B

ACCEPTABLE WALL TYPES  
CAST-IN-PLACE CONCRETE CANTILEVER WALL  
NO VALUE ENGINEERING OF WALLS SHALL BE ALLOWED

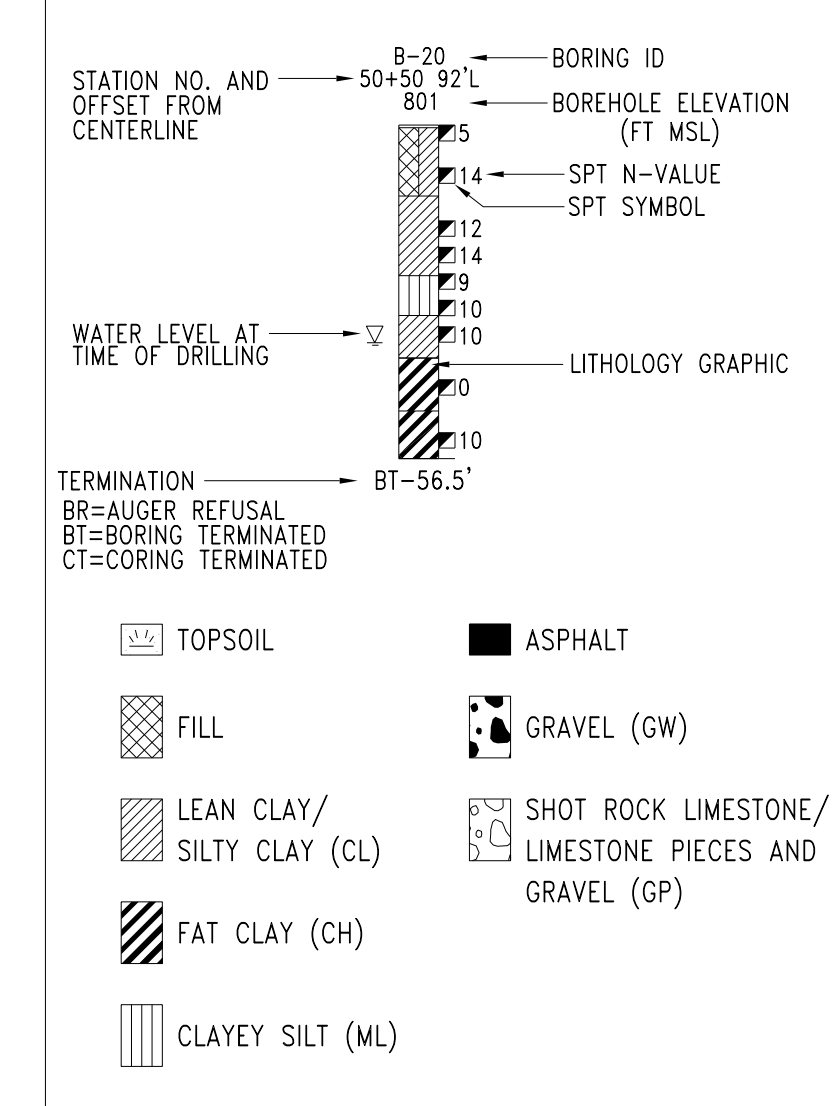
TABLE 3-FOUNDATION PARAMETERS AND REQUIREMENTS FOR GRAVITY OR SEMI-GRAVITY WALLS

STATION LIMITS	MINIMUM FOUNDATION EMBEDMENT DEPTH (feet)	FOUNDATION (REINFORCED ZONE) BEARING CONDITION REQUIREMENT*	NOMINAL (ULTIMATE) BEARING PRESSURE (psf)	COEFFICIENT OF SLIDING FRICTION
WALL H1 Sta. 0+00 TO 2+25	2	CONTINUOUS BEDROCK, SHOT ROCK FILL OR LEAN CONCRETE 2,000 PSI	14,000	0.6 (Shot Rock or Lean Concrete) 0.7 (Bedrock)
WALL H1 Sta. 2+25 TO 2+75	2	SHOT ROCK OR LEAN CONCRETE 2,000 PSI (SEE NOTE BELOW)	14,000	0.6 (Shot Rock or Lean Concrete) 0.7 (Bedrock)
WALL H1 Sta. 2+75 TO 2+77.97	2	CONTINUOUS BEDROCK, SHOT ROCK FILL OR LEAN CONCRETE 2,000 PSI	14,000	0.6 (Shot Rock or Lean Concrete) 0.7 (Bedrock)

\* RELATIVELY CONTINUOUS BEDROCK SHOULD BE DETERMINED VIA CONTRACTOR DRILLED TEST HOLES SPACED NO MORE THAN 15 FEET APART. TEST HOLES ARE NORMALLY 2' TO 3' DIAMETER AND DRILLED TO A DEPTH OF 6 FEET. ACCEPTABILITY OF ROCK WILL BE BASED ON NO OPEN VOIDS OR SOIL SEAMS IN THE TOP 3 FEET AND NO MORE THAN 2 INCHES OF DISCONTINUITIES OVER THE FULL DEPTH. LEAN CONCRETE OR SHOT ROCK FILL IS EXPECTED TO BE NEEDED BETWEEN STATIONS 2+25 AND 2+75. SEE DETAIL ON SHEET R1.1 FOR INSTRUCTION. IN AREAS WHERE FOUNDATION BEARING TRANSITIONS FROM SHOT ROCK TO COMPETENT ROCK, WE RECOMMEND THAT COMPETENT ROCK BE OVER-EXCAVATED ABOUT 18 INCHES DEEP OVER A TRANSITION ZONE THAT EXTENDS A MINIMUM OF 10 FEET FROM THE TRANSITION POINT INTO THE ROCK. THE OVER-EXCAVATION IN THE TRANSITION ZONE SHOULD BE BACKFILLED WITH COMPACTED DENSE GRADED AGGREGATE OR NO. 67 STONE

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALL. DETAILS OF THE DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS. IF A CONCRETE WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

LEGEND: BORING PROFILE SYMBOLS

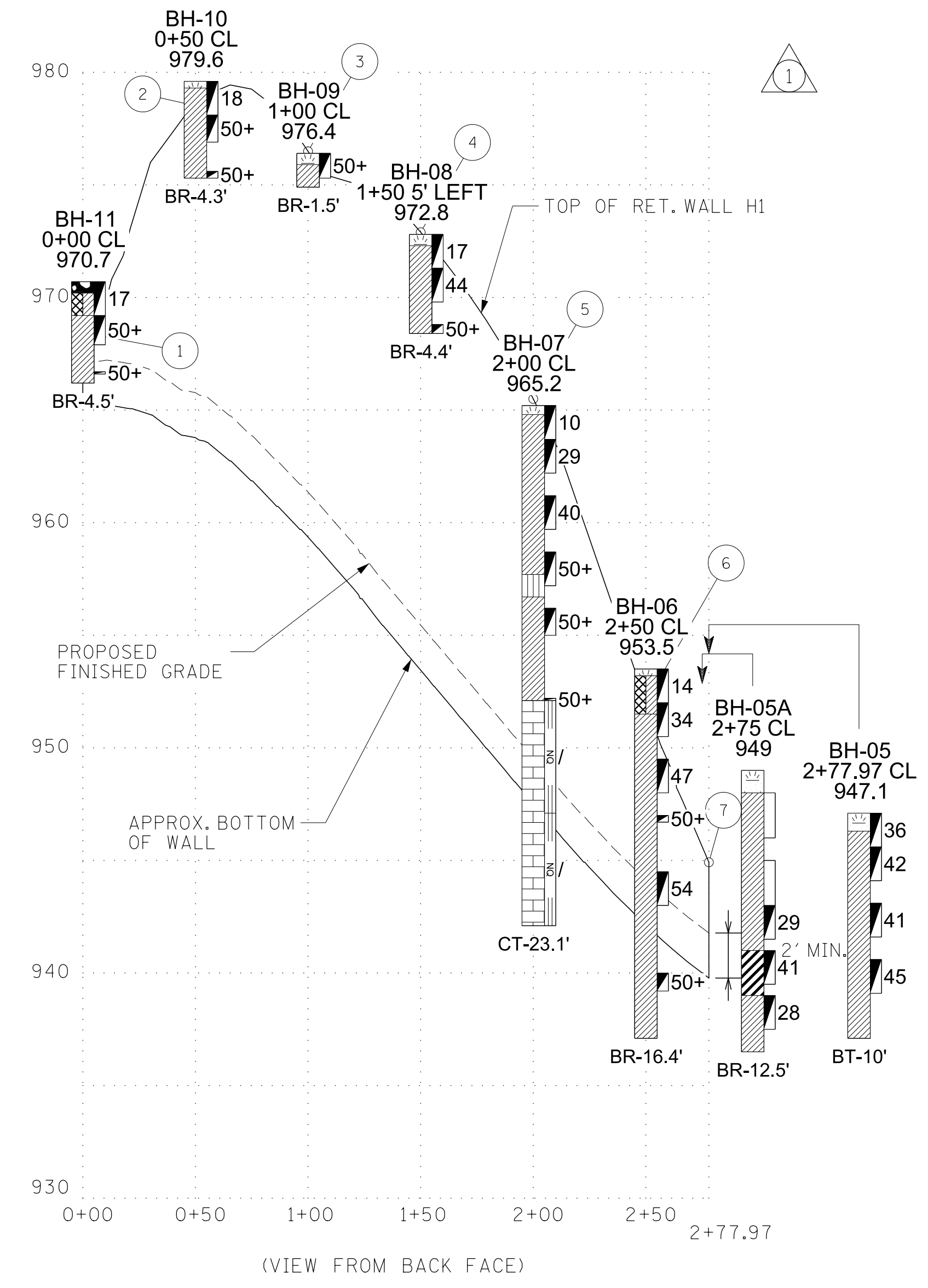


NOTE:  
1. THE RETAINING WALL PAY QUANTITY IS BASED ON THE SURFACE AREA BETWEEN THE TOP OF THE RETAINING WALL AND 2'-0" BELOW GROUND LINE.

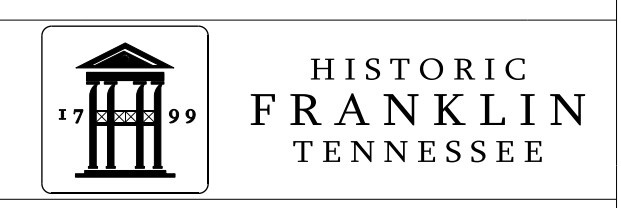
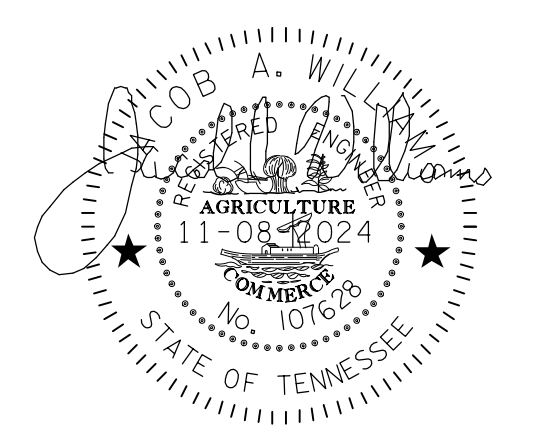
\* CORRESPONDING ITEM NUMBERS SHOWN FOR REFERENCE INFORMATION ONLY.

ESTIMATED QUANTITIES FOR RETAINING WALL

ITEM NO.	203-01.79*	303-01.03*	604-01.20	604-02.03*	604-07.06	604-09.10*	624-03.01*	710-09.10*
DESCRIPTION	EXCAVATION/BACKFILL (WALL H1) C.Y.	GRANULAR BACKFILL (WALL H1) TON.	BOX TUBE SAEFTY RAIL (WALL H1) L.F.	EXPOXY COATED REINFORCING STEEL (WALL H1) LB.	RETAINING WALL (WALL H1) S.F.	CLASS A CONCRETE (WALL H1) C.Y.	RETAINING WALL REINFORCING STEEL (WALL H1) LB.	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM (WALL H1) L.F.
QUANTITY	2685	119	283	11238	4098	675	43643	278



ATTACHMENT D  
to  
ADDENDUM 2



benesch BENESCH & CARILLAC DRIVE BRENTWOOD, TN 37027

RETAINING WALL H1  
CONCEPTUAL DRAWING  
MCEWEN DRIVE  
FROM: EAST OF  
COOL SPRINGS BLVD  
TO: WILSON PIKE  
WILLIAMSON COUNTY

11/8/2024 8:55:04 AM Y:\Nashville\16015044\Eng\_Docs\DRN\Plans\Wall\H1\Sh1\_L\_Concept\Wall\Drawing.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
	2024		G1

FED. AID PROJ. NO. STP-M-9305(31)

# UTILITY SHEET INDEX

SHEET NUMBER      SHEET NAME

- G-1            COVER – ESTIMATED QUANTITIES
- G2-G8        OVERALL RELOCATION PLAN
- G9            GENERAL NOTES
- G10          GENERAL NOTES – MATERIALS
- G11          GENERAL NOTES – OQ TASKS AND TIE IN & ABANDONMENT BULLETIN
- G12-14       DETAILS

**NOTE:**

Contractor agrees to assume liability for, and agrees to indemnify, defend and save and keep TDOT, City of Franklin and the owner of any facilities being relocated by Contractor, their agents, employees and representatives, from and against, any and all liabilities, obligations, losses, damages, penalties, fines, amounts in settlement, claims, actions, proceedings, suits, judgements, costs, interest, expenses and disbursements of any kind and nature whatsoever arising under any theory, of legal liability (including attorneys fees and costs) (a "Claim") that may be imposed on, incurred by or asserted against the indemnified party, its agents, employees or representatives, in any way relating to, resulting from, based upon or arising out of Contractor's relocation of utility facilities or work or activities in connection therewith; provided, however, that Contractor is not required to indemnify the indemnified party, its agents, employees or representatives, for any Claim against an indemnities (unless attributed or imputed to such indemnities by reason of any act or omission of the Contractor, whether as agent for the Contractor or otherwise). "Theories of Legal Liability" include, but are not limited to, contract, tort, strict liability, breach of express or implied warranty and breach of implied covenant.

The obligation of a Contractor to defend TDOT, City of Franklin and the owner of any facilities being relocated by Contractor, their agents, employees or representatives, against any Claim is separate and distinct from the obligation of indemnity set forth in this Agreement. Contractor shall have the right and obligation to assume the defense of any Claim with counsel chosen by the indemnified party and reasonably acceptable to Contractor, provided that counsel to Contractor may participate in the defense of the Claim with counsel for the indemnified party, and such counsel shall remain at the cost and expense of the Contractor. Contractor will not have the right to assume the defense of a Claim made against both the indemnified party, its agents, representatives or employees, and Contractor if counsel for the Contractor or the indemnified party advises in writing that conflicts of interest would under applicable ethical principles preclude a single counsel or firm from defending both parties.

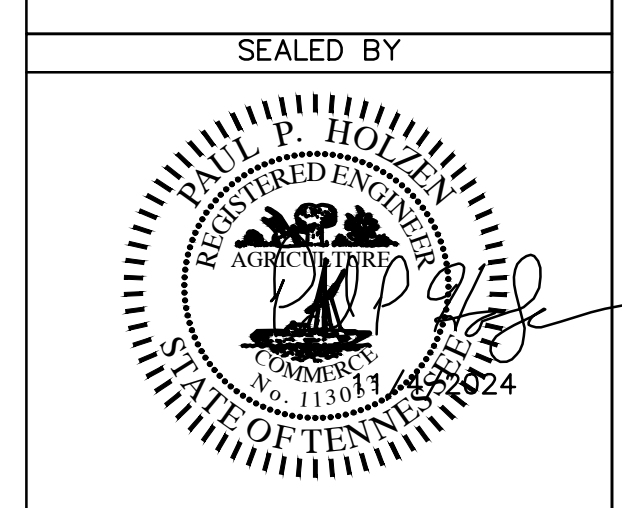
## ATMOS ENERGY CORPORATION

CONTACT: TERI LABELLA  
PHONE: 615-418-6699  
TERI.LABELLA@ATMOSENERGY.COM

ATMOS ENERGY Corporation - GAS RELOCATION AND IMPROVEMENTS COF Contract No. 2023-0096 - Exhibit A							
FOOTNOTES	ITEM NO.	ITEM DESCRIPTION	UNIT	BETTERMENT EST QTY.	City EST QTY.	TOTAL EST QTY.	
	1	791-01.04	4IN STEEL GAS MAIN	L.F.	103	0	103
	1	791-01.06	8IN STEEL GAS MAIN	L.F.	0	6764	6764
	1	791-01.09	4IN STEEL GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	50	0	50
	1	791-03.02	2IN PE GAS MAIN	L.F.	32	0	32
	1	791-03.04	4IN PE GAS MAIN	L.F.	52	0	52
	1	791-03.09	2IN PE GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	1530	0	1530
	1	791-03.10	4IN PE GAS MAIN (INSTALLED WITH AND ABOVE THE 8IN STEEL GAS MAIN)	L.F.	943	0	943
	2	791-04.10	HDD 3/4IN PE SERVICE PIPE (DIRECTIONAL BORE TO BE USED ONLY IF NECESSARY)	L.F.	0	121	121
	2	791-04.13	HDD 4IN STEEL GAS MAIN (DIRECTIONAL BORE TO BE USED ONLY IF NECESSARY)	L.F.	0	31	31
	4	791-06.03	CONNECTION TO 4" EX PE GAS MAIN	EACH	2	0	2
	4	791-06.09	CONNECT TO EX 3/4" GAS SERVICE LINE	EACH	0	5	5
	4	791-06.34	CONNECT TO EX 8" STEEL GAS MAIN W/ STOPPER	EACH	0	4	4
	4	791-06.38	CONNECT TO 8" EX STEEL MAIN W/ BOTTOM OUT STOPPER FITTING	EACH	0	1	1
	5	791-07.02	4 IN PE GAS VALVE ASSEMBLY	EACH	2	0	2
	5	791-07.09	2 IN STEEL GAS VALVE ASSEMBLY	EACH	1	0	1
	5	791-07.10	4 IN STEEL GAS VALVE ASSEMBLY	EACH	1	0	1
	5	791-07.12	8 IN STEEL GAS VALVE ASSEMBLY	EACH	0	2	2
	6	791-08.07	3/4IN PE SERVICE PIPE (AN ADDITIONAL 300' OF QTY. HAS BEEN ADDED TO THIS ITEM FOR ADDITIONAL WORK AS DETERMINED BY THE ENGINEER)	L.F.	0	755	755
	8	791-08.41	GAS MAIN REMOVAL (REMOVAL/DISPOSAL OF EXISTING 8" GAS MAIN TO ACCOMIDATE ROADWAY CONSTRUCTION (QTY INCLUDES AN ADDITIONAL 200' AS DIRECTED BY THE ENGINEER))	LF	0	1543	1543
	7	791-09.02	3-WIRE CATHODIC PROTECTION STATION	EACH	2	0	2
	7	791-09.04	4" REGULATING STATION (W/ OPTION #4 ENCLOSED - STD 10-002-05) (REGLUATING STATION SHALL BE PREFABRICATED BY APPROVED VENDOR)	EACH	0	2	2
	8	791-09.08	REMOVAL REGULATING STATION (2' BELOW PROPOSED GRADE)	EACH	0	2	2
	8	791-09.23	REMOVAL OF EXISTING FARM TAP (2' BELOW PROPOSED GRADE)	EACH	0	5	5
	9	791-10.01	RETIRE IN PLACE 3/4 IN SERV CUT & PLUG	EACH	0	5	5
	9	791-10.05	RETIRE IN PLACE 4" PE CUT & PLUG	EACH	0	1	1
	9	791-10.07	RETIRE IN PLACE 8" STEEL GAS MAIN CUT & PLUG	EACH	0	15	15
		791-11.02	CONCRETE CAP (CLASS A)	LS	0	1	1
	4	791-15.71	INSTALL TEMPORARY FARM TAP AS REQUIRED	EACH	0	2	2
	11	791-99.04	GAS MAIN UTILITY ASBUILTS (SEE SPECIAL PROVISIONREGARDING UTILITY RECORD DRAWINGS)	LS	0.50	0.50	1
FOOTNOTE 1:	INCLUDES ALL MATERIALS INCLUDING SAND/STONE BEDDING, FLOWABLE FILL, TEMPORARY PAVEMENT IN OR OUT OF ROW, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, EXCAVATION INCLUDING DIRT/ROCK, BACKFILLING, CREEK CROSSINGS PER SWPPP, COUPLINGS, FITTINGS, PIPE FUSION, APPURTENANCES, MAINTAINING THE TRENCH, PURGE POINT INSTALLATION, TESTING BY UTILITY SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO AIR, NITROGEN, HYDROSTATIC OR X-RAY, DEW POINT OR DRYING, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.						
FOOTNOTE 2:	INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASSED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. STEEL PIPE INCLUDES SPECIAL COATING AS SPECIFIED ON PLANS AND SPECS. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.						
FOOTNOTE 3:	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR BORE & JACK OF GAS LINE CASING PIPE INCLUDING BUT NOT LIMITED TO ENTRY AND EXIT PITS, B & J EQUIPMENT AND TRAFFIC CONTROL. CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM PRICE.						
FOOTNOTE 4:	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT, NECESSARY FOR CONNECTING TO EXISTING GAS LINE, INCLUDING TRAFFIC CONTROL.						
FOOTNOTE 5:	INCLUDES TRANSITION FITTINGS, VALVES, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, COUPLINGS, FUSION TEES, TAP OF EXISTING LINE, AND ALL OTHER NECESSARY MATERIALS AND LABOR FOR COMPLETE INSTALLATION OF ASSEMBLY, INCLUDING TRAFFIC CONTROL.						
FOOTNOTE 6:	INCLUDES ALL MATERIALS, PARTS, LABOR, EQUIPMENT, MACHINERY, TOOLS, OR APPARATUS NECESSARY FOR INSTALLATION OF GAS SERVICE ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS. INSTALLATION FOR LONG SIDE AND SHORT SIDE APPLICATIONS. SERVICE PIPE SHALL BE PAID PER LINEAR FOOT INSTALLED. REMOVE FARM TAPS AS REQUIRED.						
FOOTNOTE 7:	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE INSTALLATION OF INDIVIDUAL ITEM AS SPECIFIED ON BID FORM AND UTILITY SPECIFICATIONS. COST INCLUDES, GRAVEL PAD, STEEL BARRICADE, MINOR GRADING, REGULATING STATION, TESTING, ETC.						
FOOTNOTE 8:	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR REMOVAL OF ITEM.						
FOOTNOTE 9:	INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT FOR RETIREMENT OF ITEM INCLUDING STABILIZING THE ITEM OF PLANT PER UTILITY SPECIFICATIONS.						
FOOTNOTE 10:	PAYMENT FOR REMOVING AND BACKFILLING OF CATHODIC PROTECTION TEST STATIONS, ABANDONED SERVICES, MARKERS AND VALVES ARE NOT A PAY ITEM AND SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.						
FOOTNOTE 11:	AS-BUILT DATA WILL BE COLLECTED USING LOCUSVIEW BY GAS SUBCONTRACTOR						

**ATTACHMENT E  
to  
ADDENDUM 2**

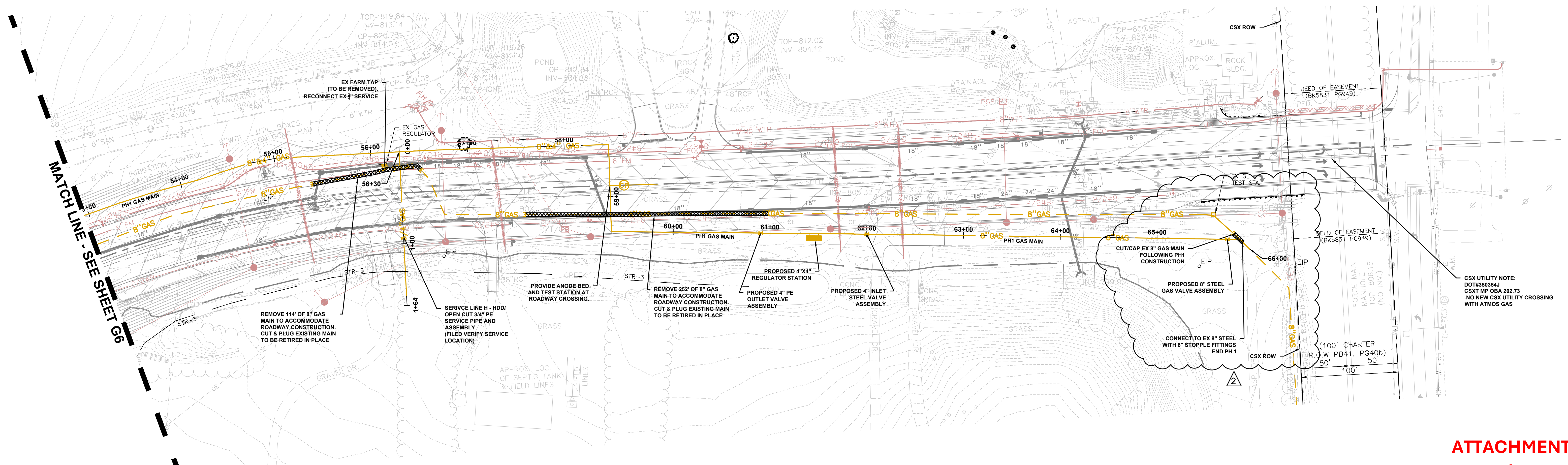
UTILITY  
PLANS  
NATURAL GAS



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

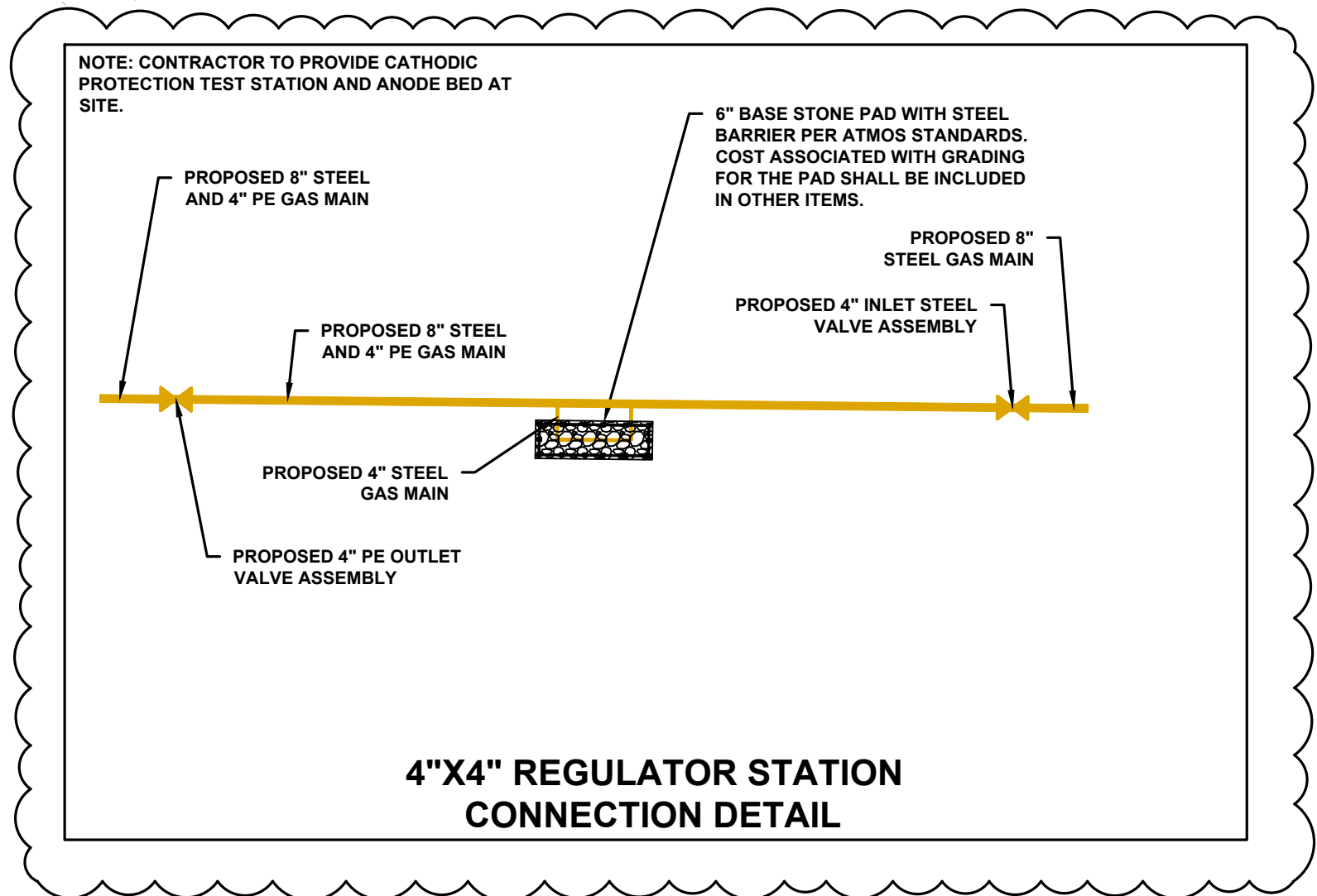
ATMOS ENERGY  
GAS RELOCATION  
COVER  
Estimated Quantities  
SCALE: None





MATCHLINE - SEE SHEET 69

**ATTACHMENT E**  
to  
**ADDENDUM 2**



**UTILITY LEGEND**

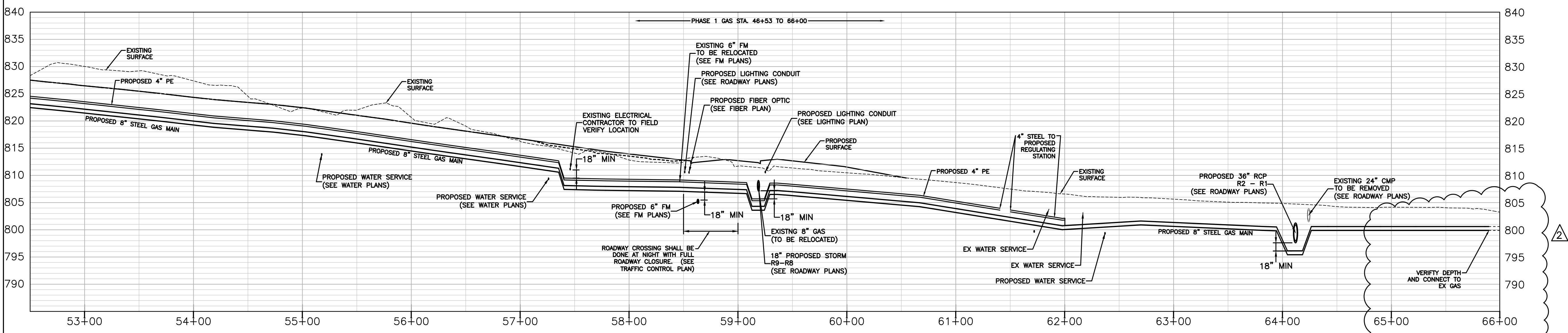
	EXISTING SANITARY SEWER
	PROPOSED SANITARY SEWER
	EXISTING WATER
	PROPOSED WATER
	EXISTING GAS
	PROPOSED GAS
	STREET LIGHTS (SEE LIGHTING PLAN)
	COF FIBER OPTICS
	EXISTING OVERHEAD ELECTRIC
	MTEMC RELOCATION (BY MTEMC)
	CATHODIC PROTECTION TEST STATION AND ANODE BED
	CUT/PLUG - RETIRE IN PLACE
	GAS VALVE ASSEMBLY

**SPECIAL UTILITY NOTE**

1) THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF EXISTING UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISIONS RELATIVE THERETO IS MADE. AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING UTILITY LOCATIONS AND COORDINATE PLAN CHANGES AND PHASING WITH THE ENGINEER, UTILITY OWNER AND CITY OF FRANKLIN, TN.

2) SEE ROADWAY PLANS FOR EXISTING AND PROPOSED RIGHT-OF-WAY AND EASEMENTS, PHASING AND EPSC PLANS.

3) ALL WORK SHALL COMPLY WITH ATMOS ENERGY'S STANDARD DRAWINGS AND SPECIFICATIONS.



**EAST McEWEN DRIVE**  
**PHASE 4 IMPROVEMENTS**

**ATMOS ENERGY**  
**GAS RELOCATION**

**SCALE: 1"=50'**

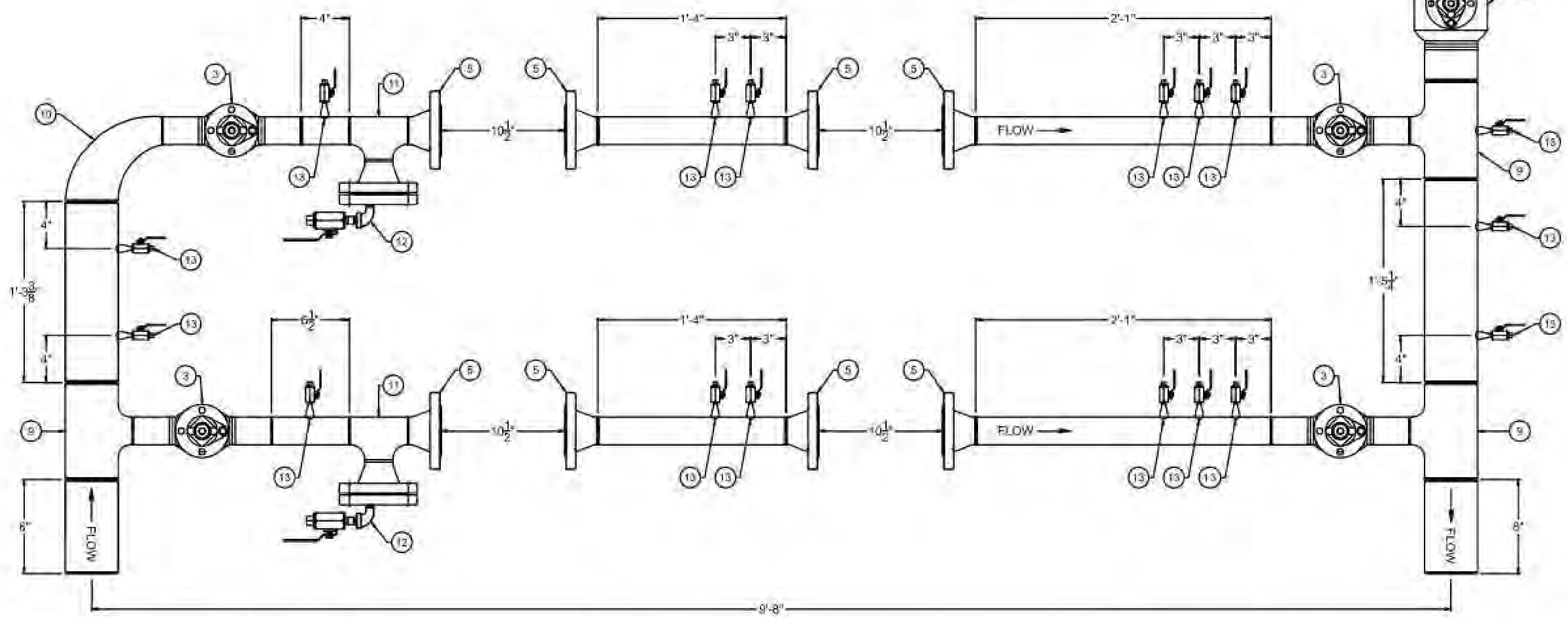


TYPE	YEAR	PROJECT NO.	SHEET NO.
	2024		G12

FED. AID PROJ. NO. STP-M-9305(31)



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
1	10	2" PIPE, 0.154 STD. WALL, API5L, GRADE B, ERW
2	10	4" PIPE, 0.237 STD. WALL, API5L, X-42, ERW
3	4	2" VALVE, WELD END, ANSI 300, FP
4	1	4" VALVE, WELD END, ANSI 300, FP
5	5	2" FLANGE, WN, RF, ANSI 300
6	5	2" FLANGE KIT, ANSI 300, BOLTS, GASKETS
7	2	4" FLANGE, WN, RF, ANSI 300
8	2	4" FLANGE KIT, ANSI 300, BOLTS, GASKETS
9	3	4" x 2" TEE, 0.237 STD. WALL, X-42
10	1	4" x 2" ELL, 0.237 STD. WALL, X-42, LONG RADIUS
11	2	2" STRAINER, "T" TYPE, WELD END, ANSI 300
12	2	1/2" STREET ELL 3000#, 1/2" NIPPLE 2" LONG, 1/2" BALL VALVE S.S. 2000#, 1/2" PLUG
13	18	1/2" x 1/4" SWAGE NIPPLE, 1/4" BALL VALVE S.S. 2000#, 1/4" PLUG
14	1	4" RAIN CAP



2

**ATTACHMENT E  
to  
ADDENDUM 2**

UTILITY  
PLANS  
NATURAL GAS

SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ATMOS ENERGY  
GAS RELOCATION  
DETAILS

SCALE: None

FABRICATION NOTES	
ITEM	DESCRIPTION
1	FAB AND WELD STATION PER API 1104 AND APPROVED ATMOS WELDING PROCEDURES
2	X-RAY 100% OF WELDS ON STATION
3	TEST STATION AT 1110# FOR 4 HOURS WITH PRESSURE RECORDING DEVICE
4	PAINT STATION PER ATMOS SYSTEM #1, ASA 49 GRAY

DESIGN NOTES	
ITEM	DESCRIPTION
1	STATION IS DESIGNED FOR WORKER-MONITOR CONFIGURATION
2	VALVES MUST BE SPECIFIED AND ATMOS APPROVED.
3	
4	

4" ANSI 300 REGULATOR STATION	
DRAWN BY:	SILAS BOHLEN
REVIEWED BY:	ISAIAH GREER
APPROVED BY:	
DATE:	