

**ADDENDUM NUMBER TWO**  
**CITICO CREEK SUB-BASIN COMBINED SEWER SEPARATION PROJECT**  
**FOR THE CITY OF CHATTANOOGA, TENNESSEE**  
**Contract Number S-15-007-201**

**The following changes shall be made to the Contract Documents, Specifications, and Drawings:**

1. Please replace the following sheets with the attached sheets.
  - a. Bid Schedule
  - b. C-6.0 Drawing Sanitary Sewer Plan, Profile 1 of 2

September 25, 2018

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/s/Justin C. Holland, Administrator  
City Of Chattanooga  
Department of Public Works

Contractor: \_\_\_\_\_  
 Date: \_\_\_\_\_

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY PHASE 1	BID UNIT PRICE PHASE 1	EXTENDED BID UNIT PRICE PHASE 1
105-01	CONSTRUCTION STAKES, LINES, AND GRADES (INCLUDING AS-BUILTS)	LS	1		\$ -
201-01	CLEARING AND GRUBBING	LS	1		\$ -
202-01.51	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (PIPE ENDWALLS)	EA	1		\$ -
202-01.52	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (BOLLARDS)	EA	6		\$ -
202-03.01	ASPHALT REMOVAL	SY	1470		\$ -
203-01	DITCH AND ACCESS ROAD EXCAVATION (INCLUDING SHORING AND HAUL OFF TO CONTRACTOR SITE)	CY	23000		\$ -
203-01.07	DISPOSAL OF CONTAMINATED (NON-HAZARDOUS) SOIL TO CLASS 1 PERMITTED LANDFILL	TON	200		\$ -
203-01.08	EXCAVATION AND HAUL OFF TO CITY OWNED STOCKPILE (8" MAX. STONE SIZE AND NO DEBRIS)	CY	10000		\$ -
203-01.29	ROCK EXCAVATION	CY	500		\$ -
203-02.01	BACKFILL FOR UNDERCUT	CY	500		\$ -
203-05	UNDERCUT EXCAVATION	CY	500		\$ -
209-01.11	TEMPORARY CONSTRUCTION ENTRANCE/EXIT (COMPLETE-IN-PLACE)	EA	1		\$ -
209-08.02*	SILT FENCE WITHOUT WIRE BACKING	LF	1300		\$ -
209-10.20	TEMPORARY SEDIMENT TRAP	CY	530		\$ -
209-40.33	CATCH BASIN PROTECTION (TYPE D) (EC-STR-19)	EA	2		\$ -
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1400		\$ -
303-10.01	MINERAL AGGREGATE (SIZE 57) (PIPE BACKFILL & MAINTENANCE STONE)	TON	1900		\$ -
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 BINDER LAYER	TON	500		\$ -
411-01.11	ACS MIX (PG64-22) GRADING E ROADWAY WEARING LAYER	TON	125		\$ -
606-24.12	STEEL SHEET PILES (COMPLETE-IN-PLACE)	SF	5200		\$ -
607-15.05	84" CONCRETE PIPE CULVERT (CLASS V)	LF	465		\$ -
607-39.01	15" HDPE PIPE	LF	76		\$ -
607-39.02	18" HDPE PIPE	LF	27		\$ -
611-01.10	48" RISER STACK OUT > 28" (15' LENGTH)	EA	2		\$ -
611-01.06	11X12" BOX STRUCTURE 20-24" DEPTH (DROP MANHOLE)	EA	1		\$ -
611-01.20	REMOVE NYLOPLAST DRAIN	EA	1		\$ -
611-02.98	84" RCP x 8" SADDLE TEE PER DETAIL #RCP-030 ON SHEET C7.2	EA	1		\$ -
611-02.99	84" RCP x 8" BEND PER DETAIL #RCP-040 ON SHEET C7.2	EA	1		\$ -
611-07.54	18" ENDWALL (CROSS DRAIN) 3:1	EA	1		\$ -
611-07.99	HEADWALL/WINGWALL	LS	1		\$ -
611-42.01	32" X 32" NO. 42 CATCH BASIN PER TDOT STD. DWG. D-CB-425 (DEPTH ≤ 4') (COMPLETE-IN-PLACE)	EA	2		\$ -
611-99.99	SANITARY SEWER CROSSING (INCLUDING 20' OF HOBAS PIPE, CRADLE COLLAR, AND GRADE BEAM)	LS	1		\$ -
707-01.11*	FURNISH AND INSTALL NEW CHAIN-LINK FENCE (COMPLETE-IN-PLACE, INCLUDES STAGING AREA FENCE)	LF	910		\$ -
707-06.03*	REMOVE AND RESET FENCING (TAWC SECURITY FENCE)	LF	280		\$ -
707-06.05*	REMOVAL OF 300' OF FENCE	EA	3		\$ -
707-08.10	TEMPORARY CONSTRUCTION FENCE (ONE RIVERSIDE APARTMENTS AND STAGING AREA)	LF	610		\$ -
709-05.09	MACHINED RIP-RAP (CLASS C) 42" THICK (COMPLETE-IN-PLACE)	CY	400		\$ -
712-05.01	TYPE A WARNING LIGHTS	EA	2		\$ -
712-06	TEMPORARY CONSTRUCTION SIGNS	EA	2		\$ -
712-07.03	TYPE 3 BARRICADES (8' LENGTH FOR ROAD CLOSURE)	LF	6		\$ -
717-01	MOBILIZATION, INCLUDING BID BOND, PERFORMANCE BOND, PAYMENT BOND, COORDINATION WITH NS RAILROAD, ETC.	LS	1		\$ -
722-01.01	FIELD OFFICE (TYPE 1)	LS	1		\$ -
740-10.03	GEO-TEXTILE FABRIC (NON-WOVEN, AASHTO CLASS III)	SY	250		\$ -
790-30.30	ELECTRIC POLE REPLACEMENT	EA	1		\$ -
790-98.02	REMOVE UTILITY POLE	EA	3		\$ -
795-01.06	8" DIP SLIP JOINT WATERLINE	LF	280		\$ -
795-12.02	REMOVAL OF EXISTING WATERLINE	LF	280		\$ -
797-05.94	36" CENTRIFUGALLY CAST POLYMER MORTAR PIPE (CCFRPM)	EA	1		\$ -
797-07.30	72" MANHOLE 16-20" DEPTH	EA	1		\$ -
797-07.33	72" MANHOLE >28" DEPTH	EA	2		\$ -
797-07.38	84" DIAMETER 10-12" DEPTH DOGHOUSE MANHOLE (INCLUDES 108" DOGHOUSE MANHOLE BASE, PAD, BOOT AND GROUT)	EA	1		\$ -
801-01	SEEDING (WITH MULCH)	UNIT	34		\$ -
802-01.03	TREES (CEPIS CANADENSIS)	EA	3		\$ -
802-01.04	TREES (ACER RUBRUM)	EA	1		\$ -
802-01.05	TREES (BETULA NIGRA)	EA	1		\$ -
802-01.11	TREES (LIRIODENDRON TULIPIFERA)	EA	5		\$ -
802-01.12	TREES (NYSSA SYLVATICA)	EA	3		\$ -
802-01.13	TREES (QUERCUS SHUMARDII)	EA	3		\$ -
802-03.01	SHRUBS (CLETHRA ACUMINATA)	EA	75		\$ -
802-03.02	SHRUBS (PANICUM VIRGATUM 'NORTHWIND')	EA	239		\$ -
802-13.04	SHRUBS (CORNUS AMOMIUM)	EA	14		\$ -
802-13.06	SHRUBS (HYDRANGEA QUERCIFOLIA)	EA	50		\$ -
802-13.08	SHRUBS (ITEA VIRGINICA)	EA	52		\$ -
802-13.09	SHRUBS (LINDERA BENZOIN)	EA	50		\$ -
802-13.14	SHRUBS (CALLICARPA AMERICANA)	EA	58		\$ -
805-12.06	SOIL REINFORCEMENT MATTING, AS MANUFACTURED BY (WITH SEED)	SY	475		\$ -
920-08.18	TEMPORARY SHORING	LS	1		\$ -
920-11.04	PIPE BOLLARD	EA	6		\$ -
	CONTRACTOR SHALL RECEIVE \$5,000.00 PER DAY FOR UP TO 20 DAYS THAT THE WORK IS COMPLETED PRIOR TO CONTRACTED DEADLINE	EA	20	\$ 5,000.00	\$ 100,000.00
				<b>TOTAL BASE BID =</b>	<b>\$ -</b>

**ALTERNATE A: 36" DIP SEWER PIPE IN LIEU OF 36" CCFRPM**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY PHASE 1	BID UNIT PRICE PHASE 1	EXTENDED BID UNIT PRICE PHASE 1
797-05.94	36" CENTRIFUGALLY CAST POLYMER MORTAR PIPE (CCFRPM)	LF	490	\$ -	\$ -
ALTERNATE A-1	36" DIP GRAVITY SEWER (CLASS 250) < 18" DEPTH	LF	50	\$ -	\$ -
ALTERNATE A-2	36" DIP GRAVITY SEWER (CLASS 350) > 18" DEPTH	LF	440	\$ -	\$ -
				<b>ALTERNATE A TOTAL=</b>	<b>\$ -</b>

**ALTERNATE B: 84" CCFRPM PIPE IN LIEU OF 84" RCP**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY PHASE 1	BID UNIT PRICE PHASE 1	EXTENDED BID UNIT PRICE PHASE 1
607-15.05	84" CONCRETE PIPE CULVERT (CLASS V)	LF	-465	\$ -	\$ -
611-01.10	48" RISER STACK OUT > 28"	EA	-2	\$ -	\$ -
611-01.06	11X12" BOX STRUCTURE 20-24" DEPTH (DROP MANHOLE)	EA	-1	\$ -	\$ -
611-02.98	84" RCP x 8" SADDLE TEE PER DETAIL #RCP-030 ON SHEET C7.2	EA	-1	\$ -	\$ -
611-02.99	84" RCP x 8" BEND PER DETAIL #RCP-040 ON SHEET C7.2	EA	-1	\$ -	\$ -
ALTERNATE B-1	84" CENTRIFUGALLY CAST POLYMER MORTAR PIPE (CCFRPM)	LF	465	\$ -	\$ -
ALTERNATE B-2	60" FRP MANHOLE RISER PER DETAIL #7 ON SHEET C7.3	EA	1	\$ -	\$ -
ALTERNATE B-3	60" FRP DROP MANHOLE PER DETAILS #1 AND #2 ON SHEET C7.3	EA	1	\$ -	\$ -
ALTERNATE B-4	84" CENTRIFUGALLY CAST POLYMER MORTAR PIPE TEE (CCFRPM)	EA	1	\$ -	\$ -
ALTERNATE B-5	84" CENTRIFUGALLY CAST POLYMER MORTAR PIPE BEND (CCFRPM)	EA	1	\$ -	\$ -
				<b>ALTERNATE B TOTAL=</b>	<b>\$ -</b>

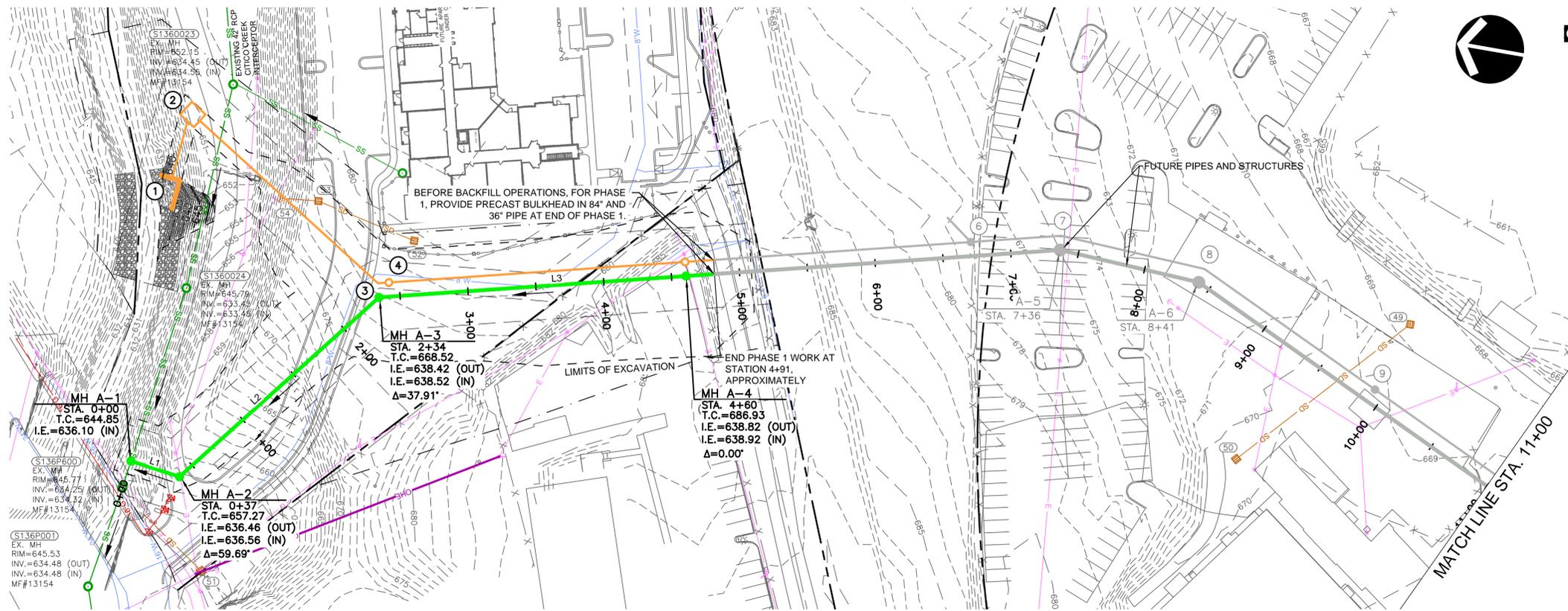
**ALTERNATE C: FILTER SOXX**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY PHASE 1	BID UNIT PRICE PHASE 1	EXTENDED BID UNIT PRICE PHASE 1
209-08.02*	SILT FENCE WITHOUT WIRE BACKING	LF	-1300	\$ -	\$ -
ALTERNATE C-1*	12" FILTER SOCK (SILT SOXX SILT FENCE ALTERNATIVE, OR APPROVED EQUAL)	LF	1300	\$ -	\$ -
				<b>ALTERNATE C TOTAL=</b>	<b>\$ -</b>

**\*NOTES:**

707-06.03, REMOVE AND RESET FENCE (TAWC SECURITY FENCE):	The existing security system will be armed 24/7 with exception to only the relocation of the monitoring security system. The deactivation and reactivation of the security system for relocation of 300' of fence to the temporary location, will be within business hours of TAWC and will be reactivated that same business day. If unable to accomplish this, security personnel approved by TAWC will be provided at no additional cost to the contract.
707-08.10, TEMPORARY CONSTRUCTION FENCE:	The second remove and reset of 550' of this fence will be installed into its permanent location. This operation must maintain security of TAWC with deactivation and reactivation of the security system within the same business day as identified for the "Existing security system". The contractor may elect to provide a "Temporary Fence" that meets the "type" and conditions of the existing fence, and install "new" fence at the conclusion of construction at no additional cost to the contract.
209-08.02, SILT FENCE WITHOUT WIRE BACKING ALTERNATE C-1, 12" FILTER SOCK (SILT SOXX SILT FENCE ALTERNATIVE, OR APPROVED EQUAL):	This pay item is to cover the furnish, install, and removal of the temporary fence upon completion of construction. To include (3) three temporary gates as shown in the plans. These two items are included for bid purposes. The unit prices from the bid schedule shall be used if a combination of both products are used during construction.





PHASE 1 SANITARY SEWER ALIGNMENT DATA

LINE #	LENGTH	DIRECTION	START POINT	END POINT
L1	37.512	S08° 01' 56.16"W	(2181914.9014,262613.9838)	(2181909.6598,262576.8398)
L2	196.926	S51° 39' 29.53"E	(2181909.6598,262576.8398)	(2182064.1133,262454.6767)
L3	200.373	S13° 44' 44.07"E	(2182064.1133,262454.6767)	(2182111.7242,262260.0420)

# LINE "A"

**LEGEND:**

- PROPERTY LINE
- PERMANENT UTILITY EASEMENT
- TEMP. CONSTRUCTION EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER

- STANDARD NOTES FOR PUBLIC SANITARY SEWER CONSTRUCTION**
- ALL PROPOSED SANITARY SEWER LINES AND MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CHATTANOOGA/ HAMILTON COUNTY STANDARD DETAILS AND SPECIFICATIONS.
  - SEWERS MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR (CLASSIFICATION MU).
  - THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AT 643-5811 AT LEAST 7 DAYS PRIOR TO THE START OF SEWER CONSTRUCTION.
  - ALL CUTS AND FILLS ARE TO BE IN PLACE AND FILLS COMPACTED PRIOR TO SEWER CONSTRUCTION.
  - SANITARY SEWER LINES SHALL BE OF DUCTILE IRON PIPE AT ALL LOCATIONS WHERE SANITARY LINES CROSS WITHIN 18 INCHES ABOVE OR BELOW A STORM SEWER LINE. AS AN ALTERNATE, IF SANITARY SEWER LINES ARE PVC, THEN CONCRETE PROTECTION SHALL BE PROVIDED.
  - WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10 FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
  - ANCHOR COLLARS SHALL BE PROVIDED ON SANITARY SEWER LINES WITH SLOPE EXCEEDING 18% WITH SPACING AS SPECIFIED BY THE STATE OF TENNESSEE DESIGN CRITERIA FOR SEWAGE WORKS.
  - TRANSITION JOINTS ON SEWER PIPES OF DIFFERENT MATERIALS SHALL BE MADE WITH ADAPTERS IN LIEU OF CONCRETE COLLAR WALLS.
  - SERVICE LATERALS EXTENDING TO THE PROPERTY LINE SHALL EACH HAVE A TREATED TIMBER W/ MAGATAPE AT THE PROPERTY LINE.
  - ALL CONNECTIONS TO EXISTING MANHOLES MUST BE CORED AND BOOTED AND THE INVERTS REFORMED.
  - TOPS OF ALL MANHOLES SHALL BE RAISED TO BE AT LEAST FLUSH OR ABOVE NEW FINISHED GRADES AND VISIBLE.
  - MANHOLES RAISED 8 INCHES OR LESS SHALL BE DONE BY THE USE OF CONCRETE RINGS OR "DOUGHNUTS".
  - MANHOLES RAISED GREATER THAN 8 INCHES SHALL REQUIRE THE REMOVAL OF THE CONE SECTION AND PLACEMENT OF THE APPROPRIATE SIZE MANHOLE RISER THE CONE SECTION SHALL THEN BE REINSTALLED OR REPLACED DEPENDING ON CONDITION.
  - ALL SEWER LINES SHALL BE TESTED AND APPROVED AFTER ALL OTHER UTILITIES HAVE BEEN INSTALLED UPON COMPLETION OF THE PROJECT. "RECORD" DRAWINGS MUST BE SUBMITTED TO THE JURISDICTIONAL ENGINEER WITHIN 30 DAYS.
  - UPON COMPLETION OF THE PROJECT, ALL PUBLIC SEWER EASEMENTS OBTAINED SHALL BE SUBMITTED TO THE JURISDICTIONAL WASTEWATER AUTHORITY WITHIN 30 DAYS.
  - ALL NEWLY CONSTRUCTED SANITARY SEWERS SHALL BE TELEVIEWED AT THE REQUEST OF THE JURISDICTIONAL ENGINEER.

**NOTES**

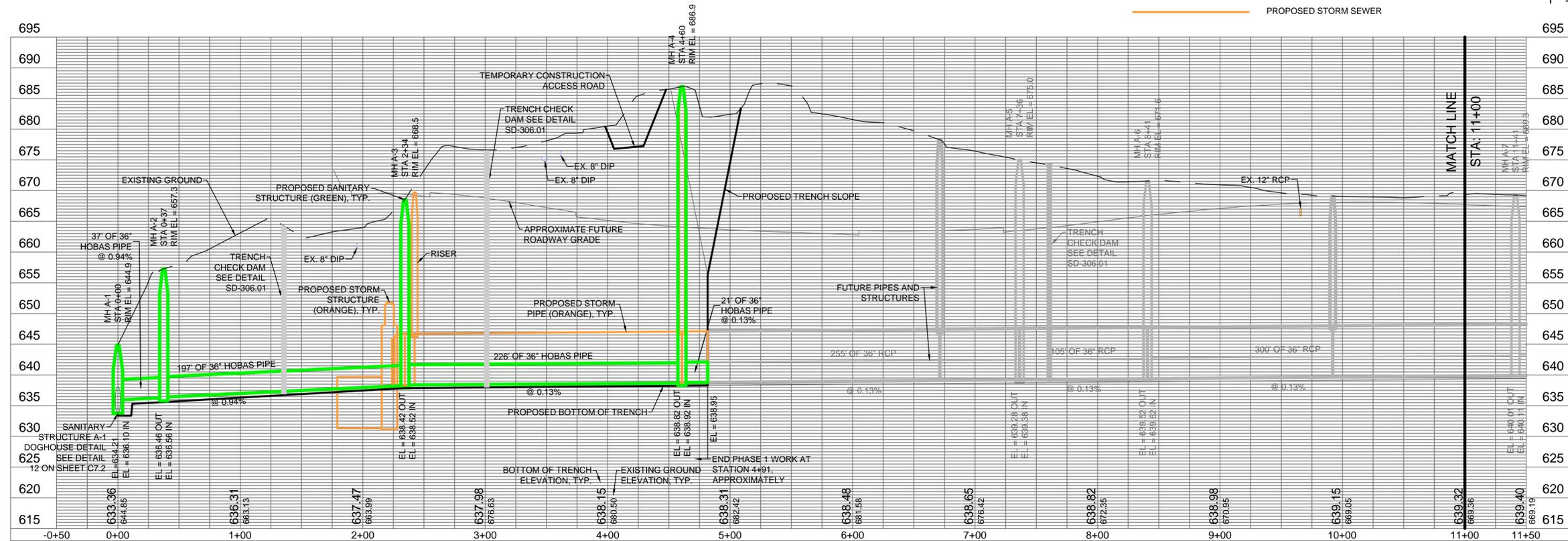
SANITARY SEWER NETWORK SHOWN AS HOBAS OPTION. USE DIP FOR ALTERNATIVE OPTION. CONTRACTOR TO LOCATE ALL UTILITIES AND SERVICE SHALL BE MAINTAINED / RETURNED PRIOR TO COMPLETING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN THE PROXIMITY OF THE CONSTRUCTION AREA AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.

CONTRACTOR TO DISPOSE OF EXCESS MATERIAL AT CITY LANDFILL LOCATED AT 4301 AMNICOLA HIGHWAY OR CONTRACTOR APPROVED LOCATION.

**SCALES:**

**PLAN VIEW**  
1" = 50'

**PROFILE VIEW**  
1" = 50' HORIZONTAL  
1" = 10' VERTICAL



**RAGAN SMITH**  
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Chattanooga 423-490-9400  
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ragansmith.com



**CITICO CREEK SUB-BASIN COMBINED  
SEWER SEPARATION PROJECT - PHASE 1**  
FOR  
**CITY OF CHATTANOOGA, TENNESSEE**  
CHATTANOOGA, TN

**SANITARY SEWER  
PLAN AND  
PROFILE 1 OF 1**

**C6.0**

WK. ORDER	0176
DESIGNED:	MES
DRAWN:	BLC
SCALE:	AS SHOWN
DATE:	8-3-2018

09-23-18 (MES) Rev.  
ADDENDUM 2  
REVISIONS

11:CHATT PROJECTS\10501075\CIVIL\ENGINEERING\AN\BETTERVIEWS - SANITARY SEWER ALIGNMENT - 11-11-18.DWG  
PLOTTED BY MARK HENRY ON 10/20/2018 10:30 AM. LAST UPDATED BY MES ON 10/20/2018 2:25 PM