

# WESTERN INTERCEPTOR SEWER FROM MH-58 TO MH-97

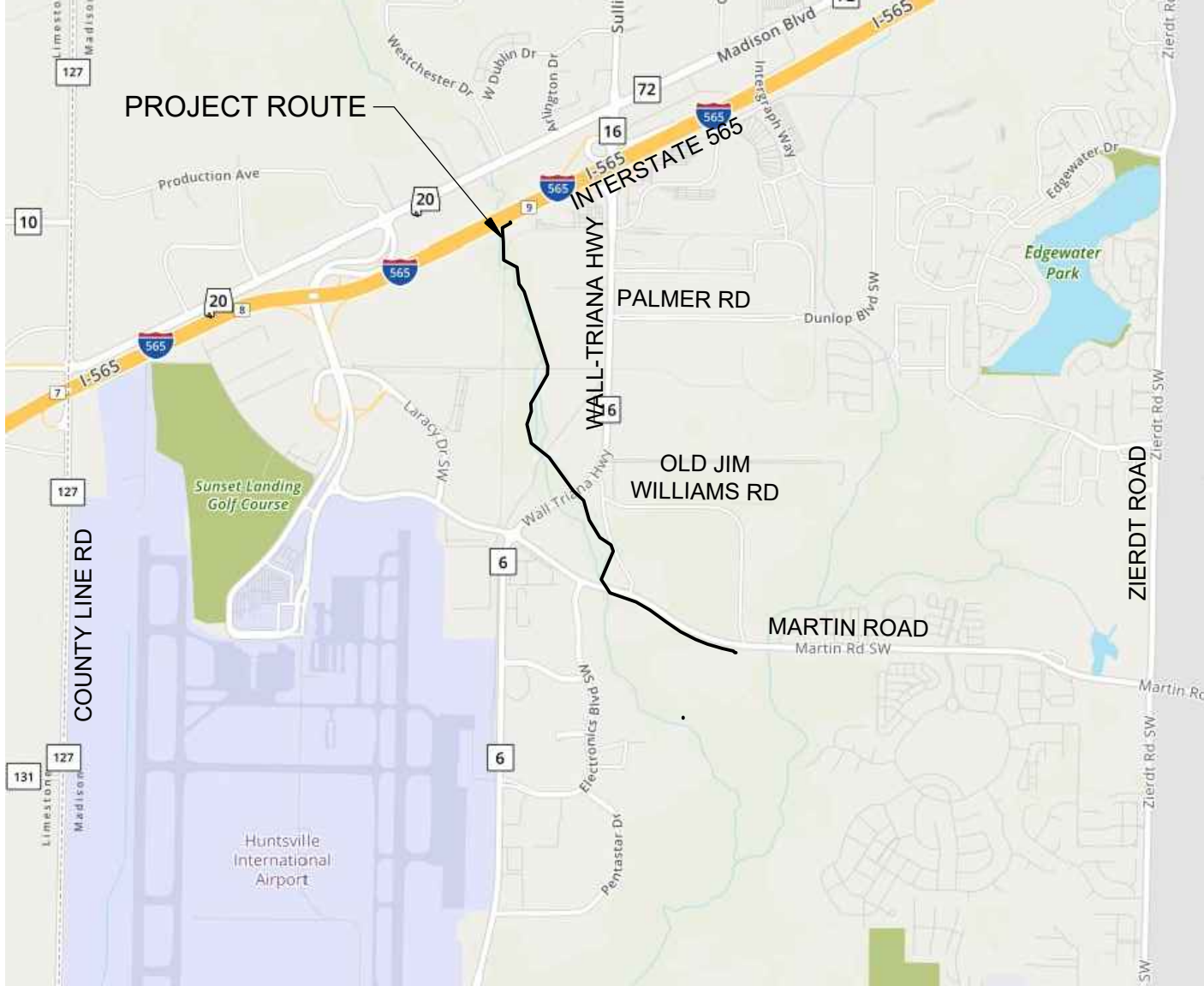
MADISON UTILITIES



LOCATION MAP



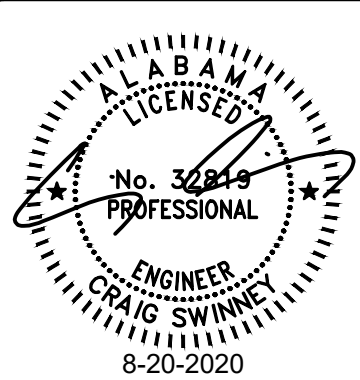
AUGUST 2020



VICINITY MAP

WASTEWATER COLLECTION/WATER DISTRIBUTION SYSTEM  
REQUIRED SIGNATURES FOR CONSTRUCTION PLANS:

	SUBMITTED FOR APPROVAL:	MADISON UTILITIES:
	 ENGINEER	 MADISON UTILITIES ENGINEER
	N/A	 GENERAL MANAGER
	DEVELOPER	



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MADISON UTILITIES  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

COVER SHEET,  
LOCATION MAP, &  
VICINITY MAP

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

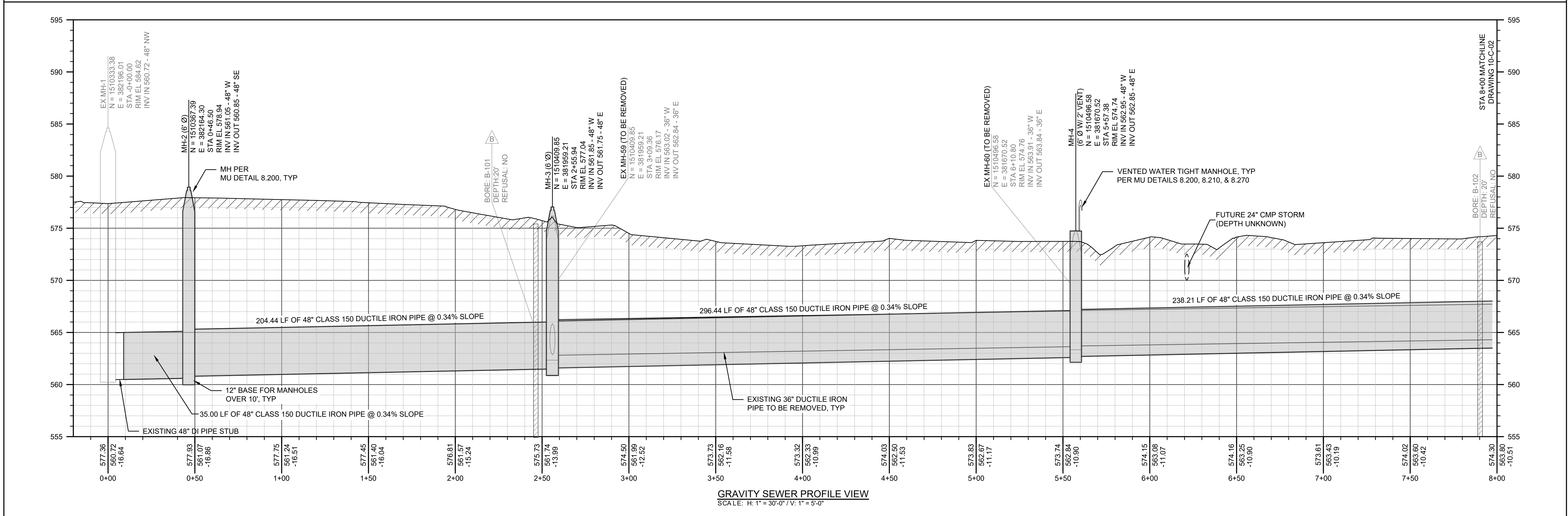
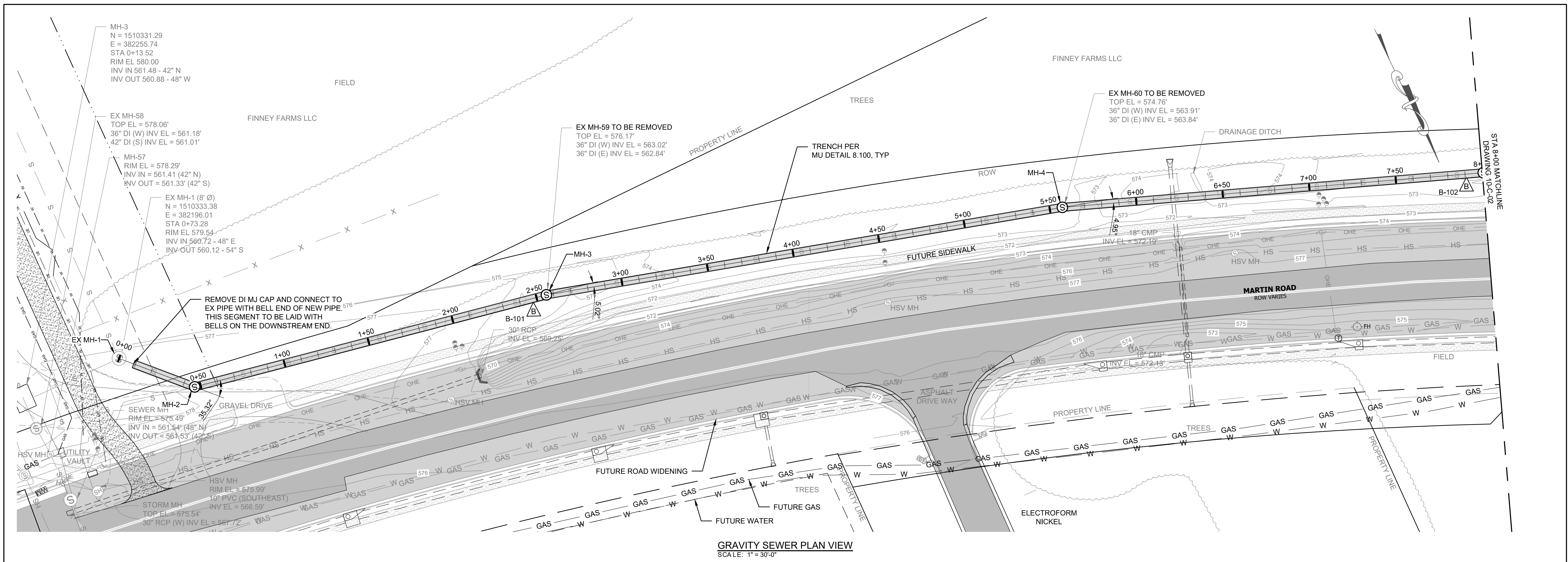
DWG: 00-C-01

SHEET NUMBER 1

"CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER" LATEST EDITION AS ADOPTED BY MADISON UTILITIES (MU), IS HEREBY MADE A PART OF THESE PLANS. CONTRACTOR SHALL CONTACT MU TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY WATER OR SEWER CONSTRUCTION.







NO.	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES**  
MADISON, AL

**WESTERN INTERCEPTOR**  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 0+00  
TO STA 8+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

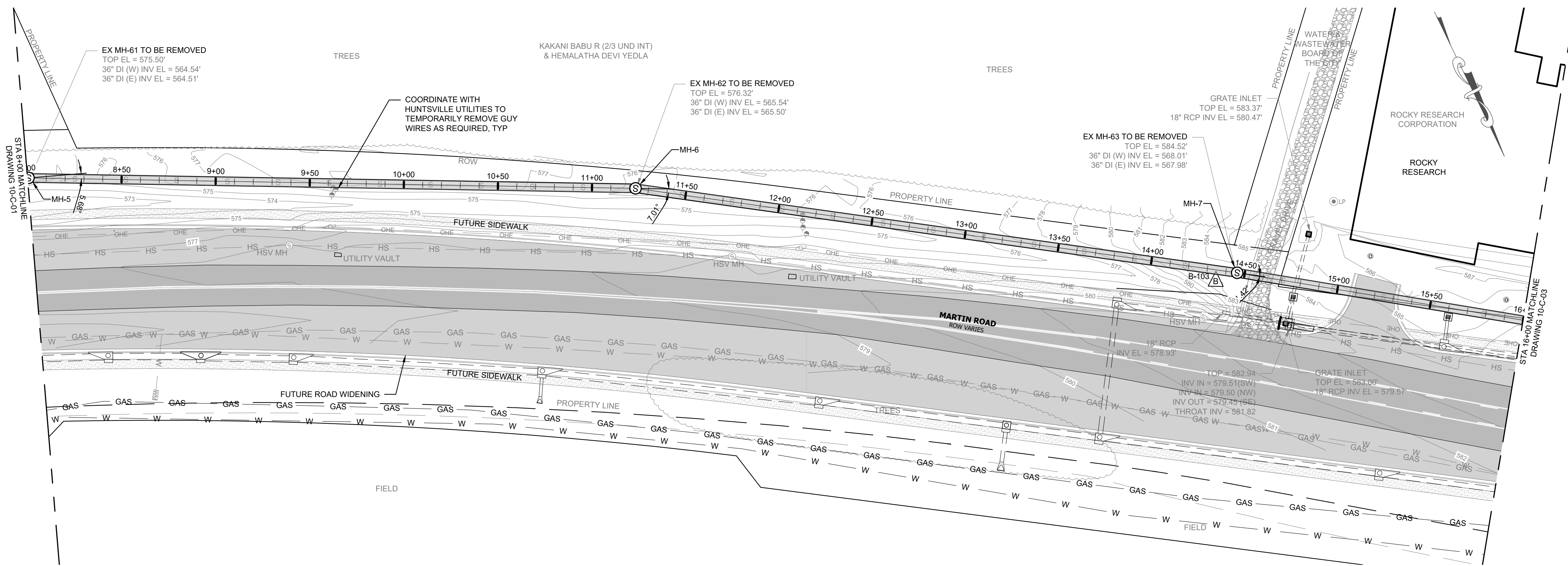
DESIGNED BY: CDS

DRAWN BY: JFL

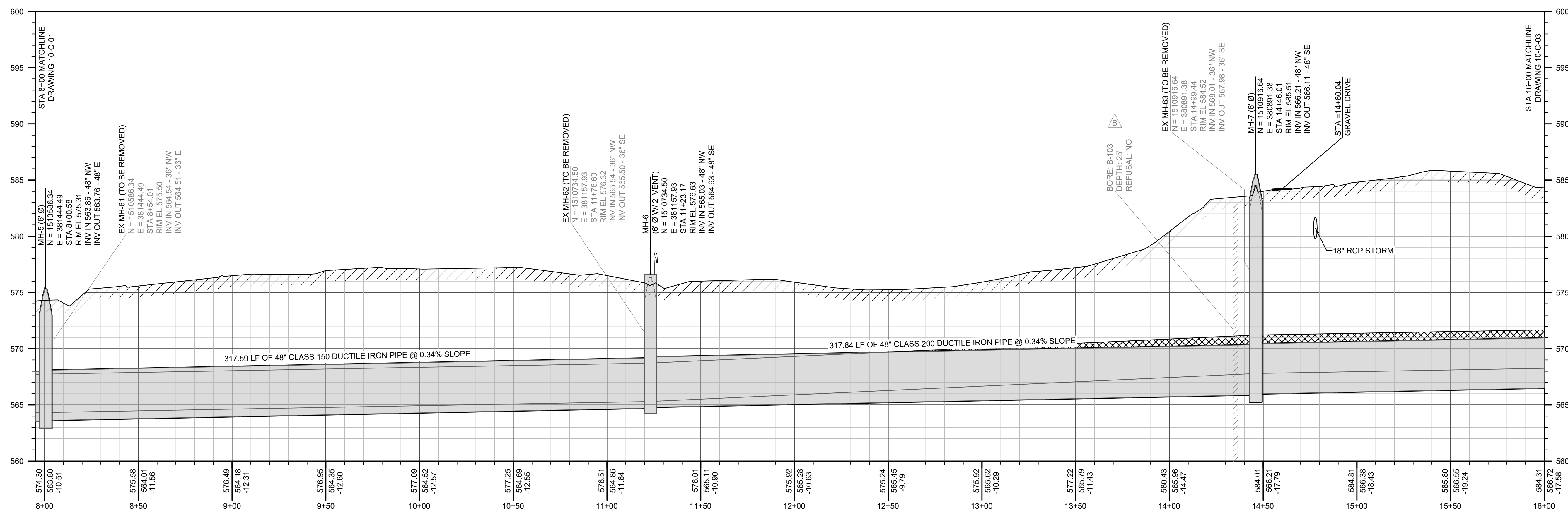
DWG: 10-C-01

SHEET NUMBER **4**

REVISIONS		DESCRIPTION	NO	DATE
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<input type="checkbox"/>	CONSTRUCTION			
<input type="checkbox"/>	REVISIONS			
<input type="checkbox"/>	AS-BID			
<input type="checkbox"/>	FOR REVIEW AND COMMENT			



**GRAVITY SEWER PLAN VIEW**  
SCALE: 1" = 30'-0"



**GRAVITY SEWER PROFILE VIEW**  
SCALE: H: 1" = 30'-0" V: 1" = 5'-0"

**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 8+00  
TO STA 16+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-02

SHEET NUMBER **5**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES**  
MADISON, AL  
**WESTERN INTERCEPTOR**  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 16+00  
TO STA 24+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

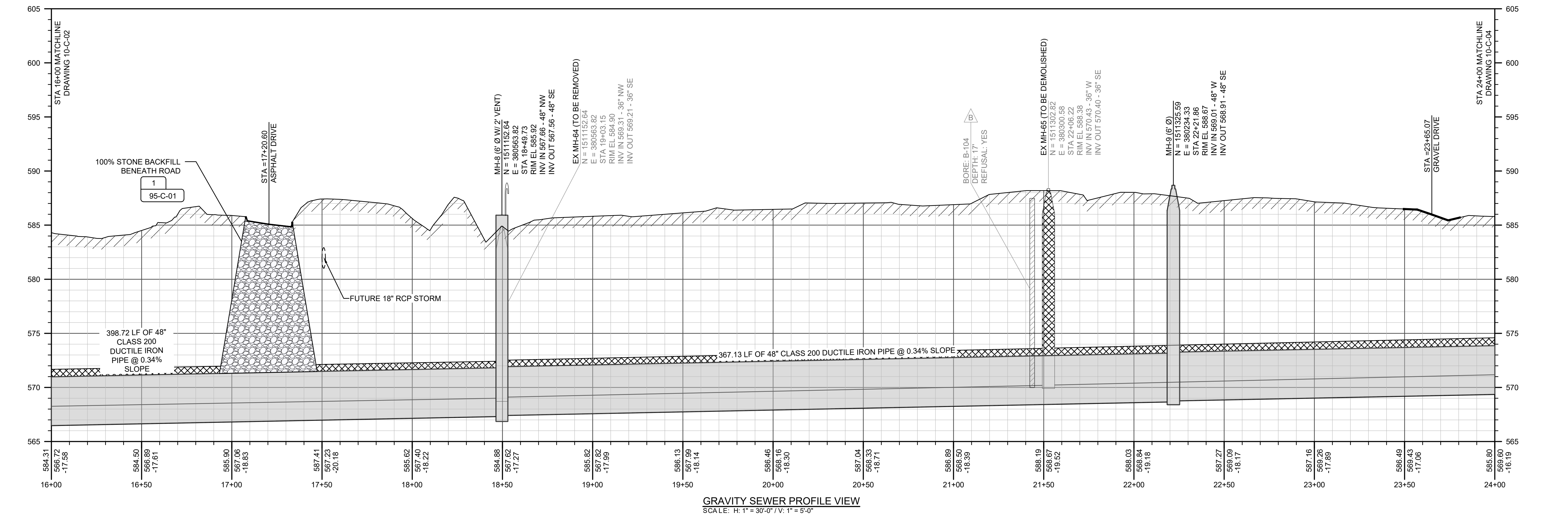
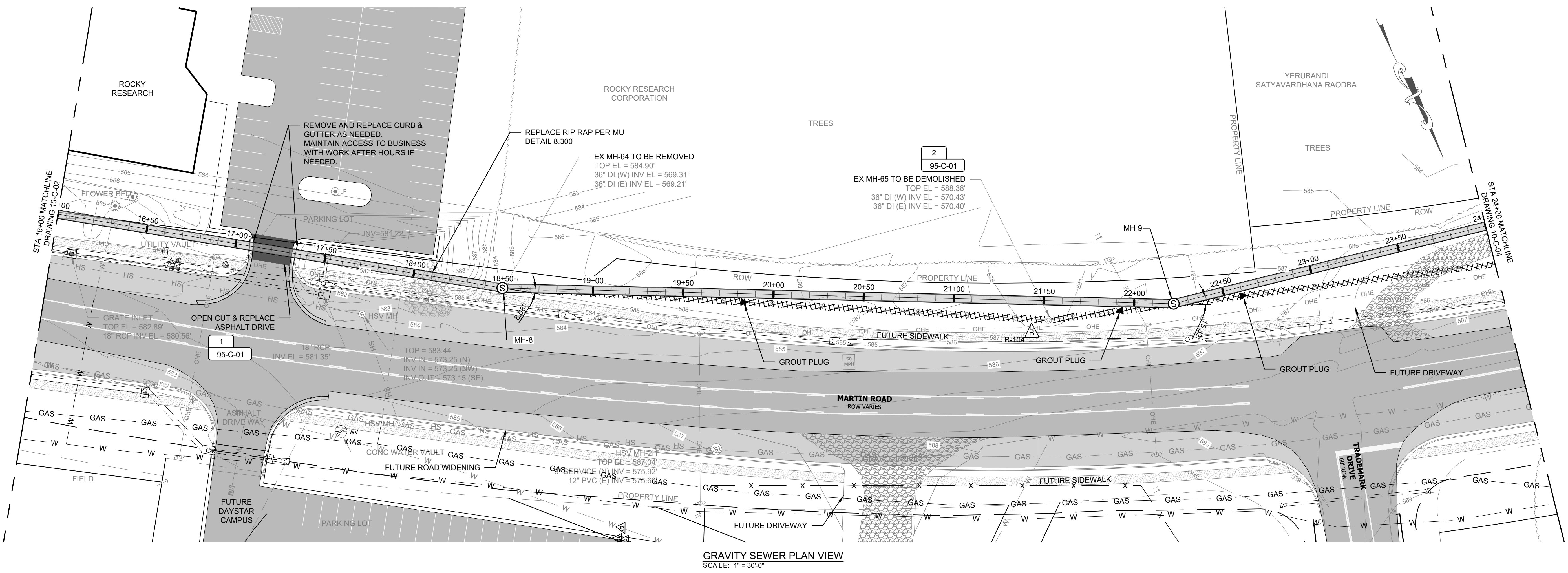
DATE: AUGUST 2020

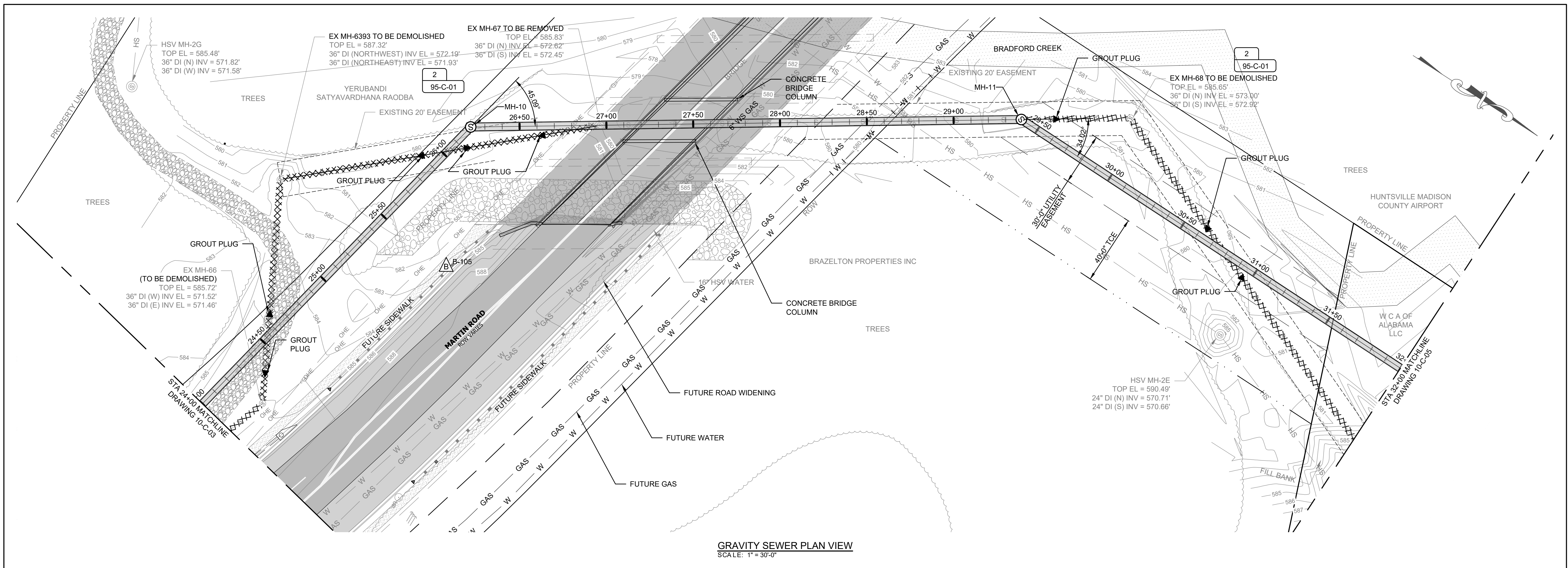
DESIGNED BY: CDS

DRAWN BY: JFL

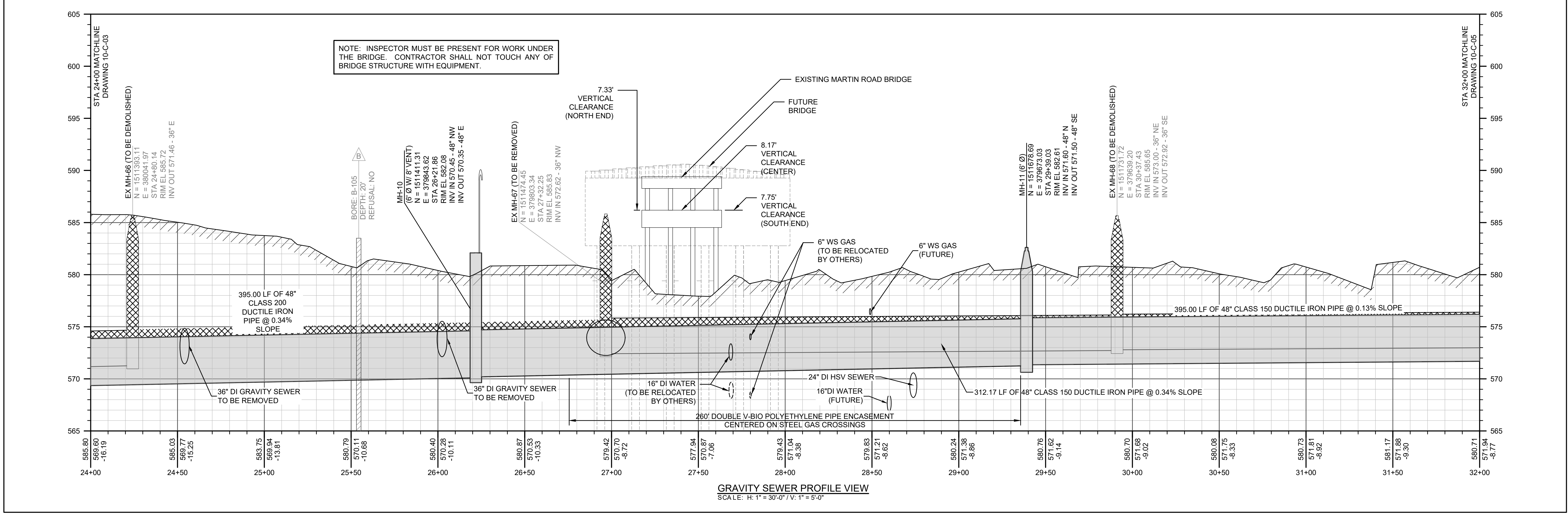
DWG: 10-C-03

SHEET NUMBER **6**





NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	CONSTRUCTION REVISIONS	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL

**WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97**

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 24+00  
TO STA 32+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-04

SHEET NUMBER **7**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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			<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 32+00  
TO STA 39+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

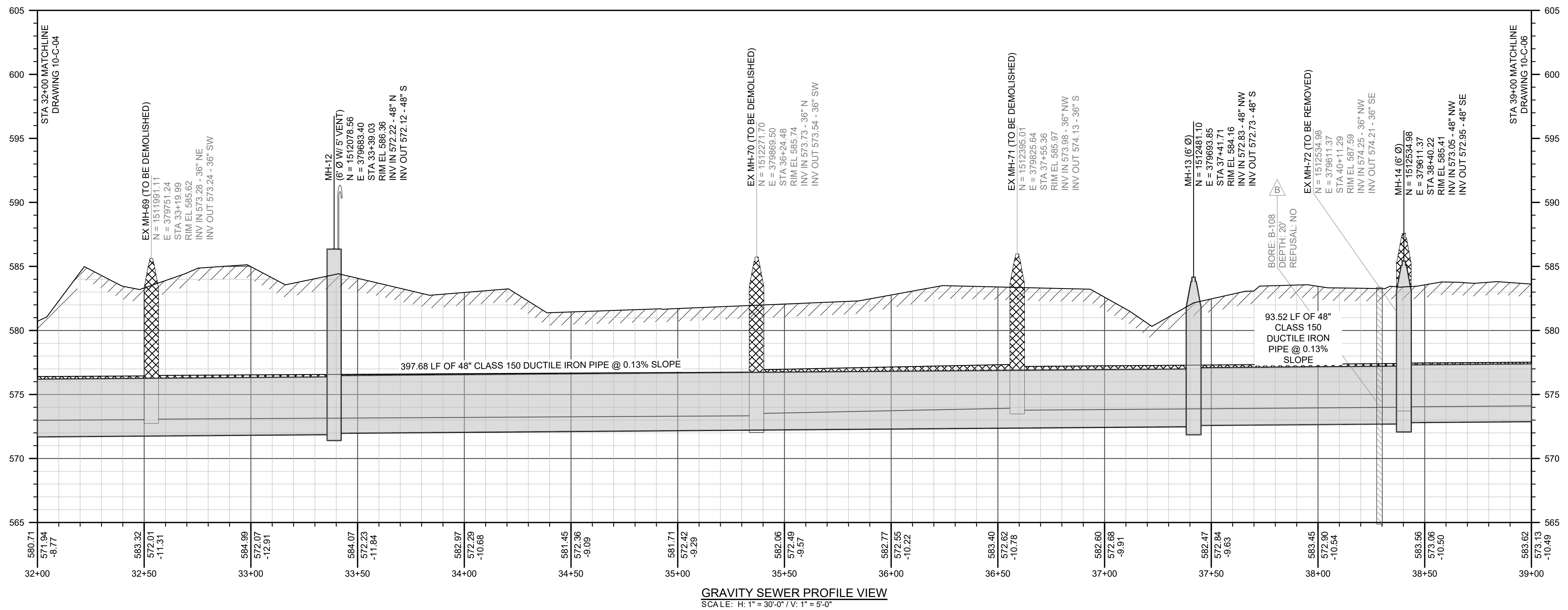
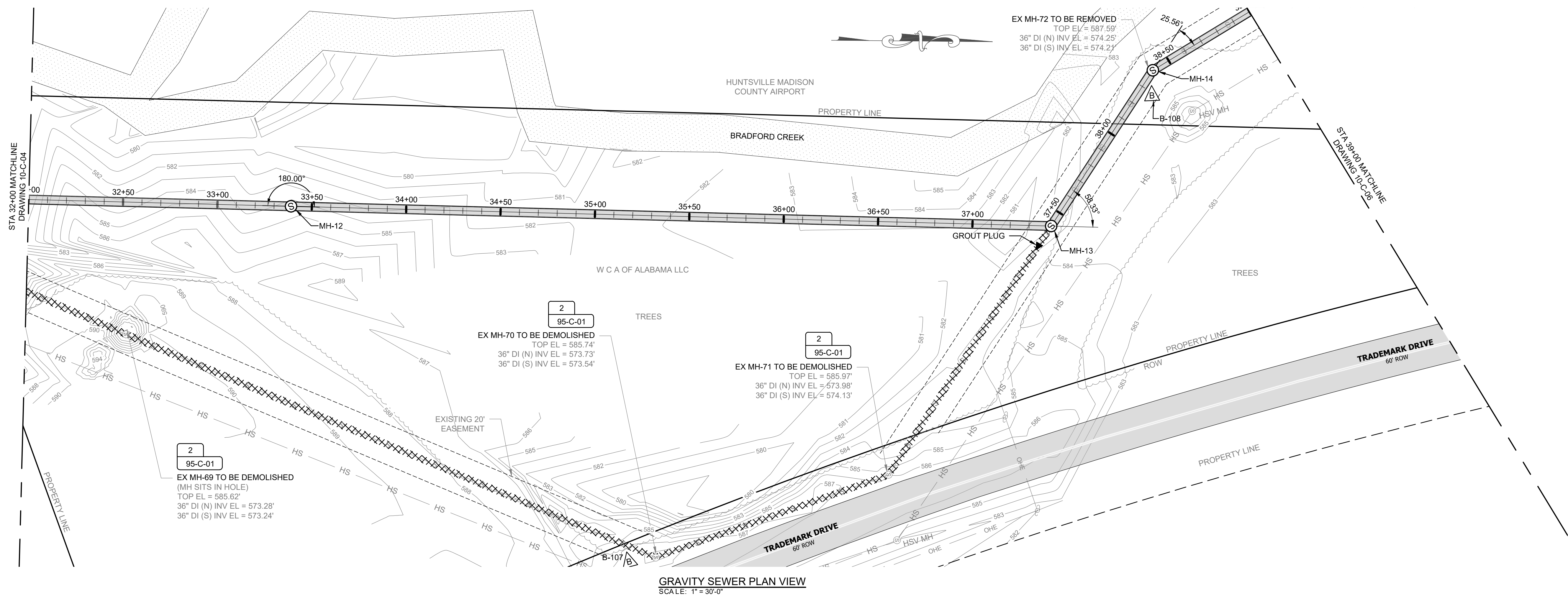
DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-05

SHEET NUMBER **8**





NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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			<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES**  
MADISON, AL  
**WESTERN INTERCEPTOR**  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 39+00  
TO STA 47+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

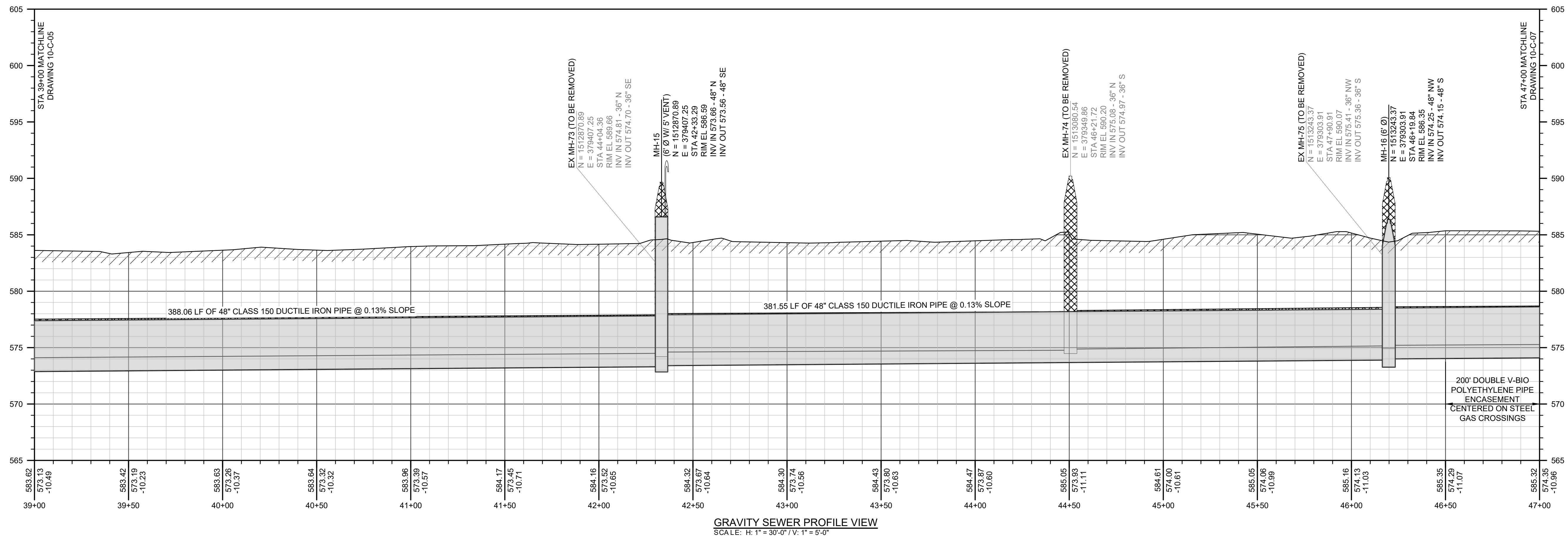
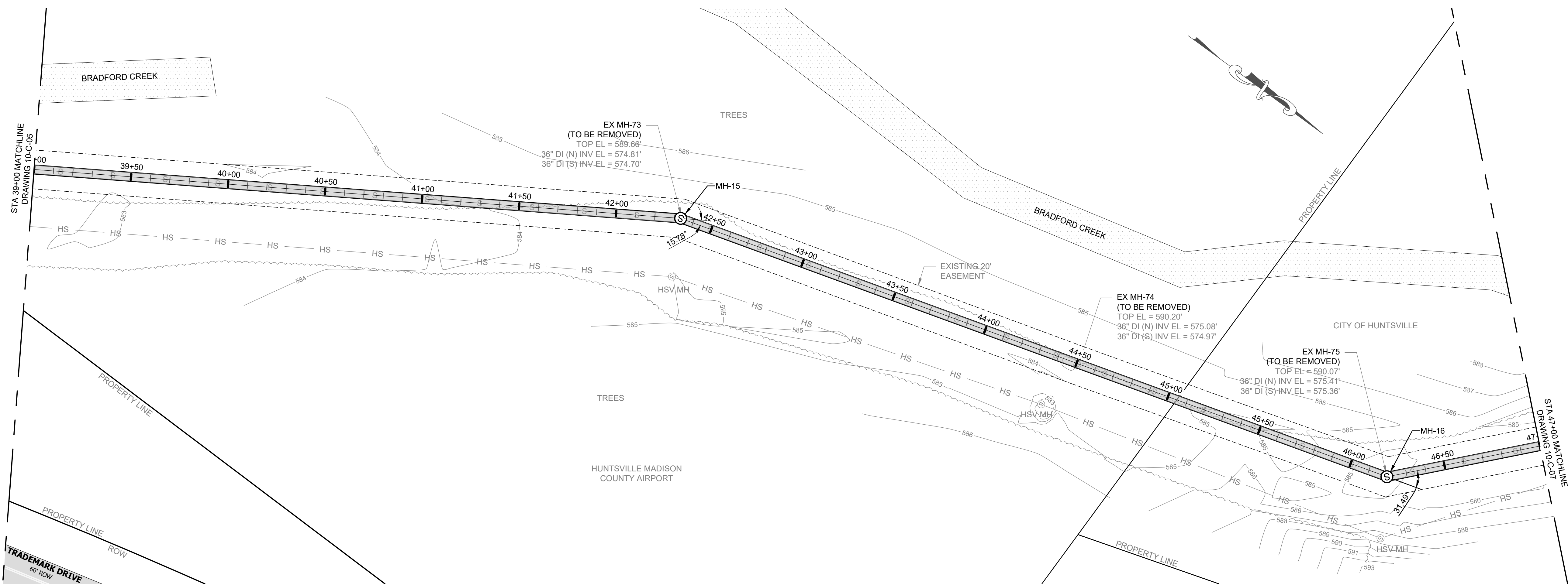
DATE: AUGUST 2020

DESIGNED BY: CDS

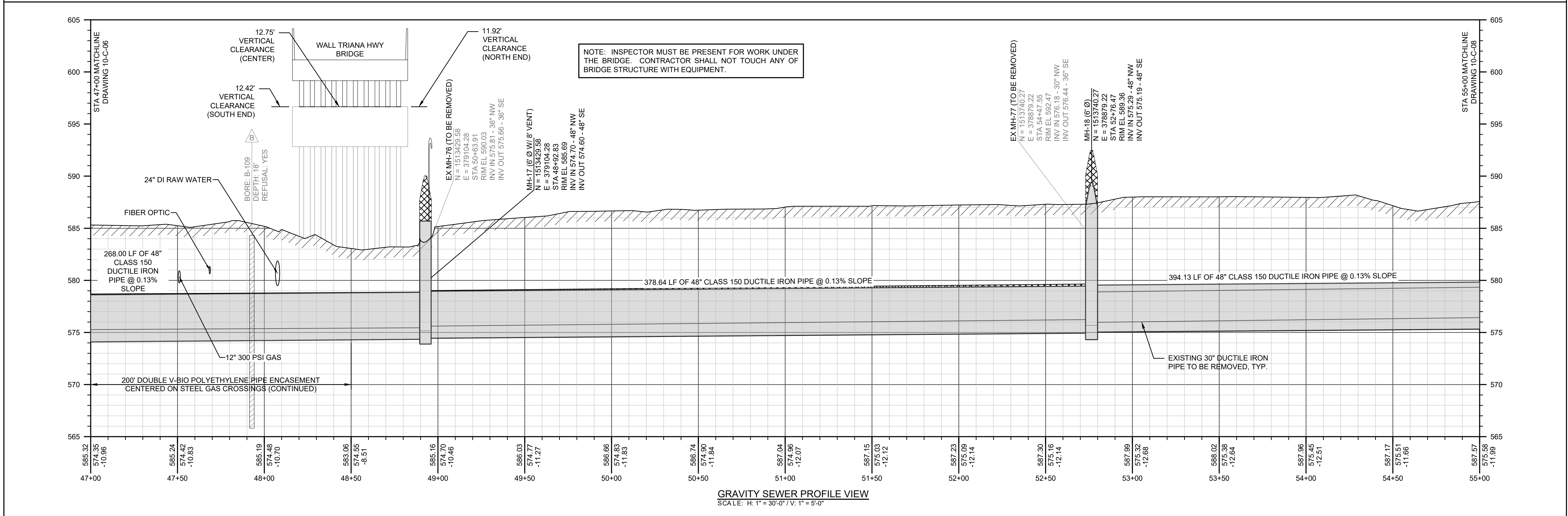
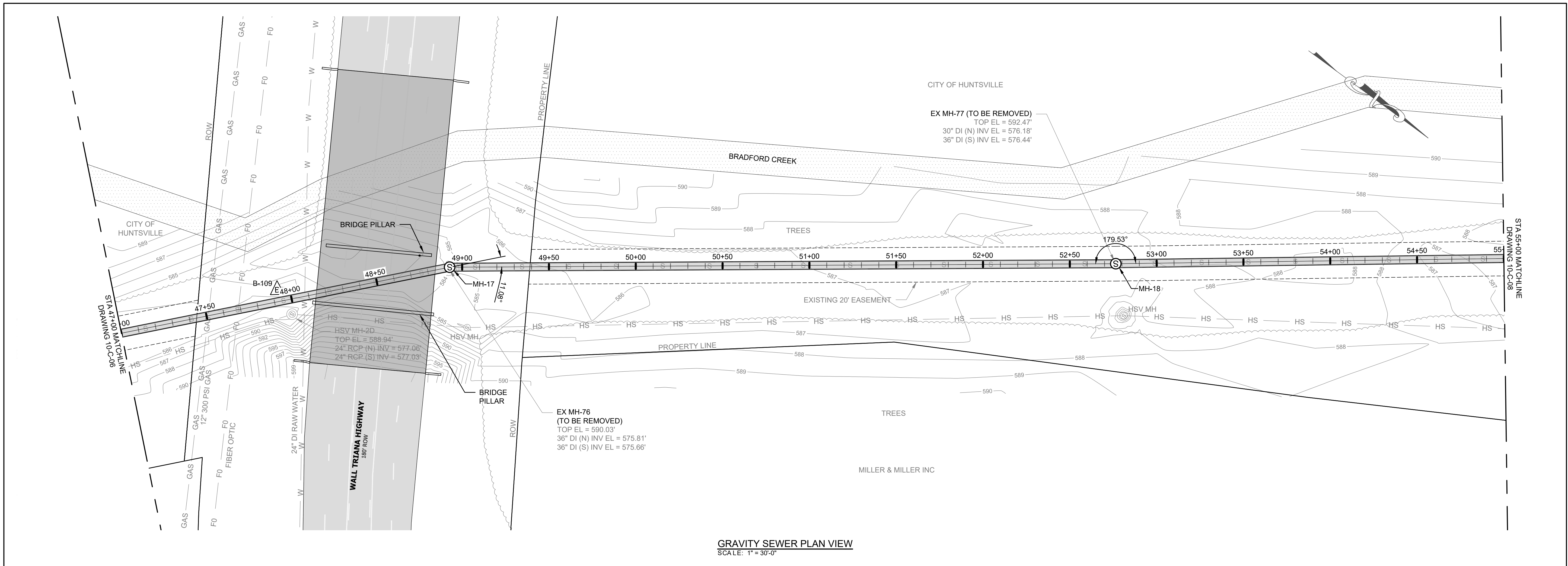
DRAWN BY: JFL

DWG: 10-C-06

SHEET NUMBER **9**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL

**WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97**

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 47+00  
TO STA 55+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

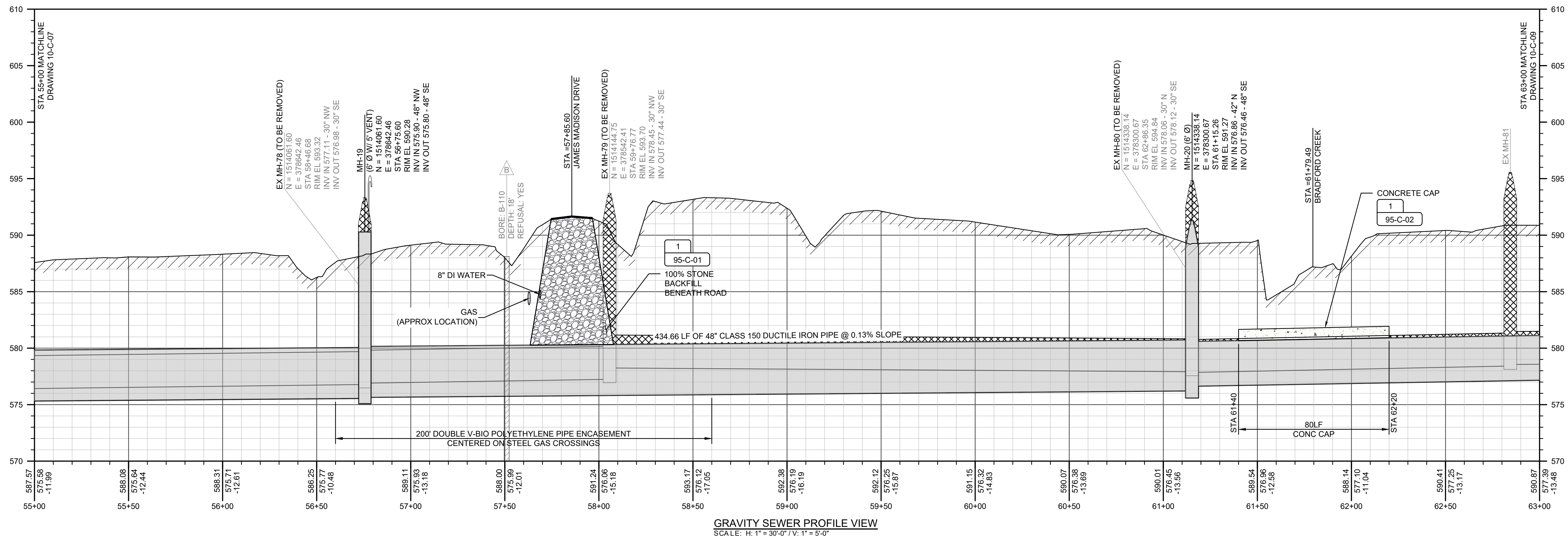
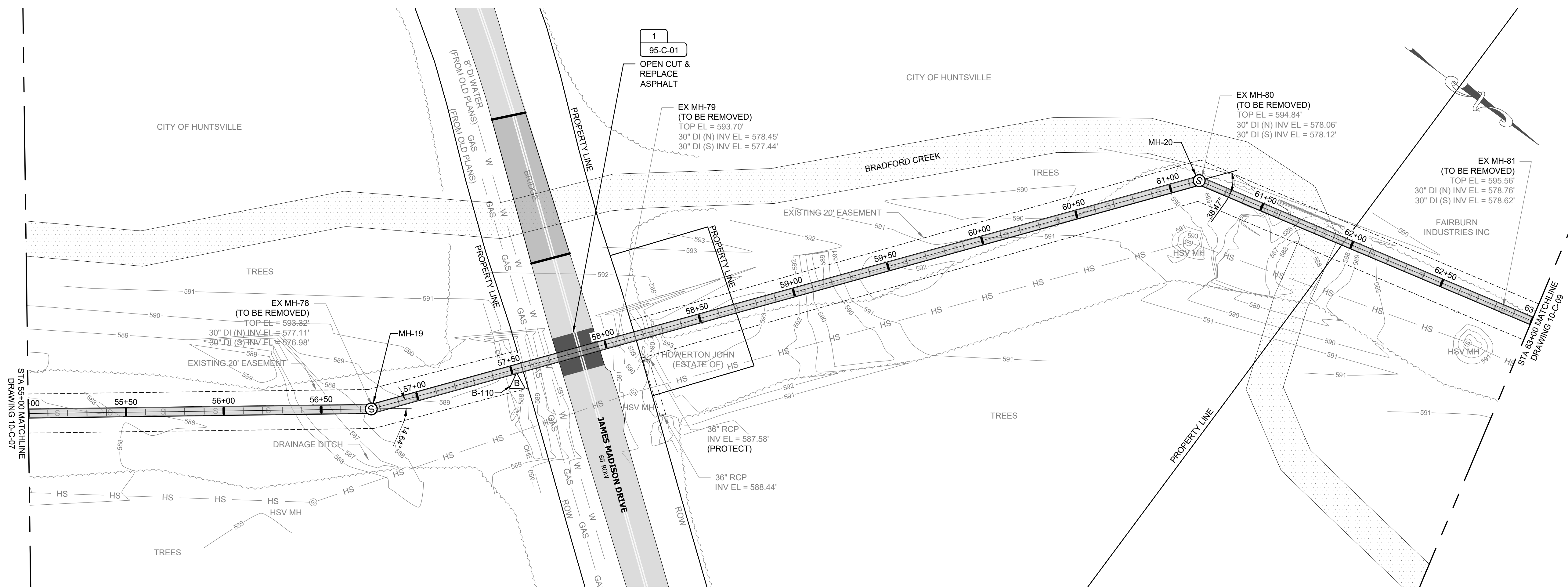
DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-07

SHEET NUMBER **10**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	CONSTRUCTION REVISIONS	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 55+00  
TO STA 63+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-08

SHEET NUMBER **11**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 63+00  
TO STA 71+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

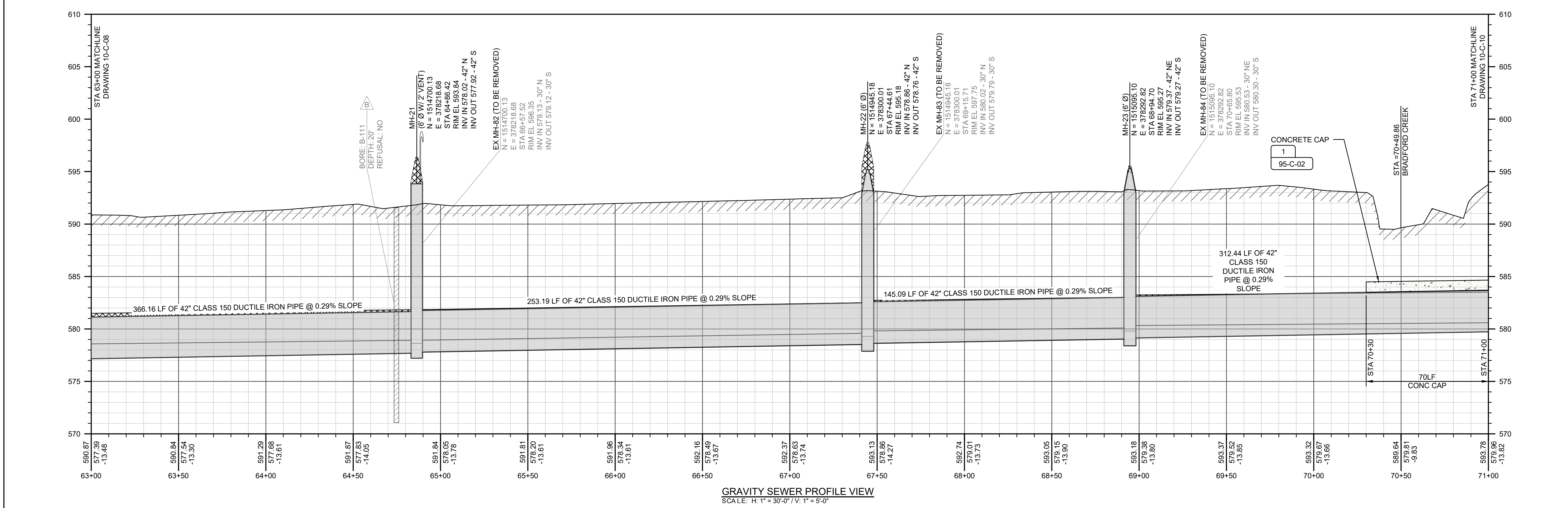
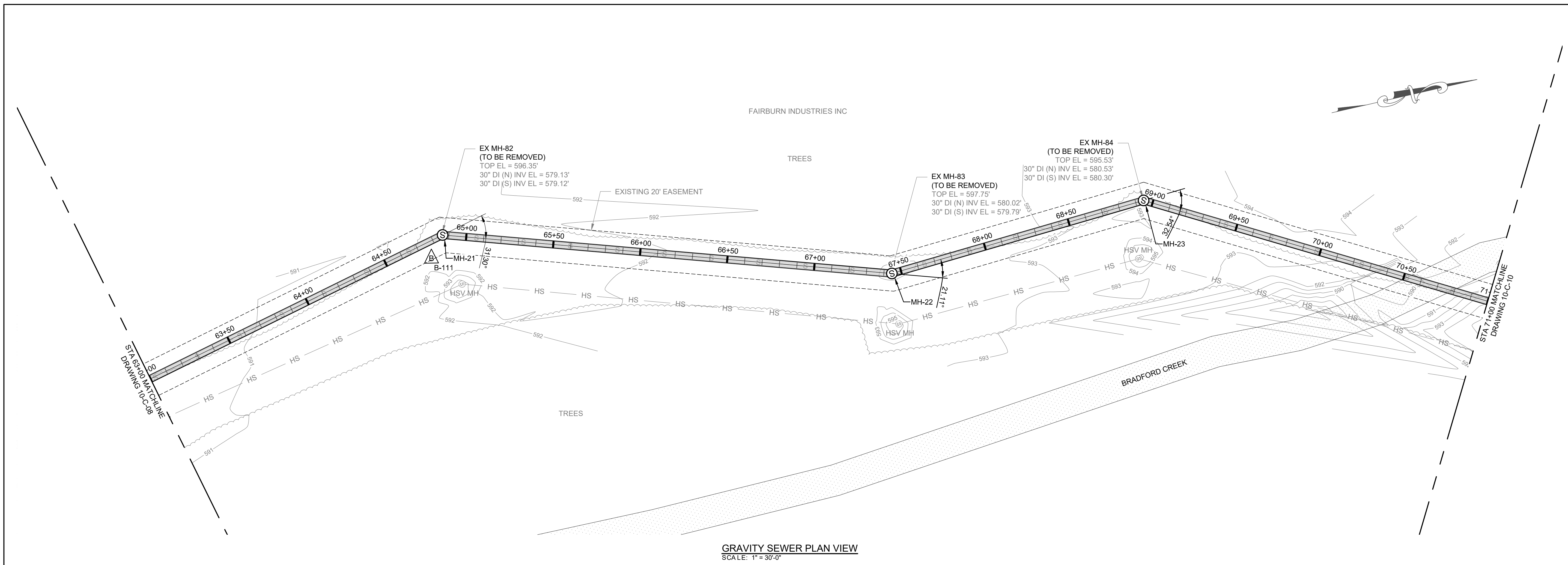
DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-09

SHEET NUMBER **12**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 71+00  
TO STA 79+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

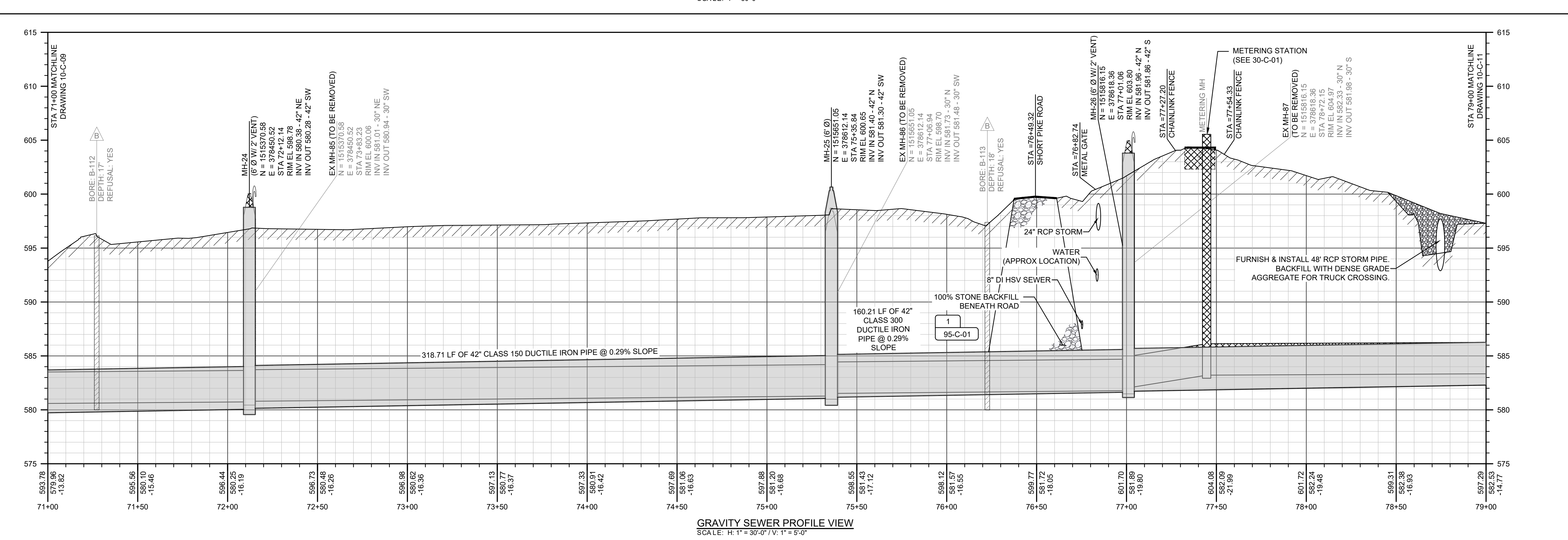
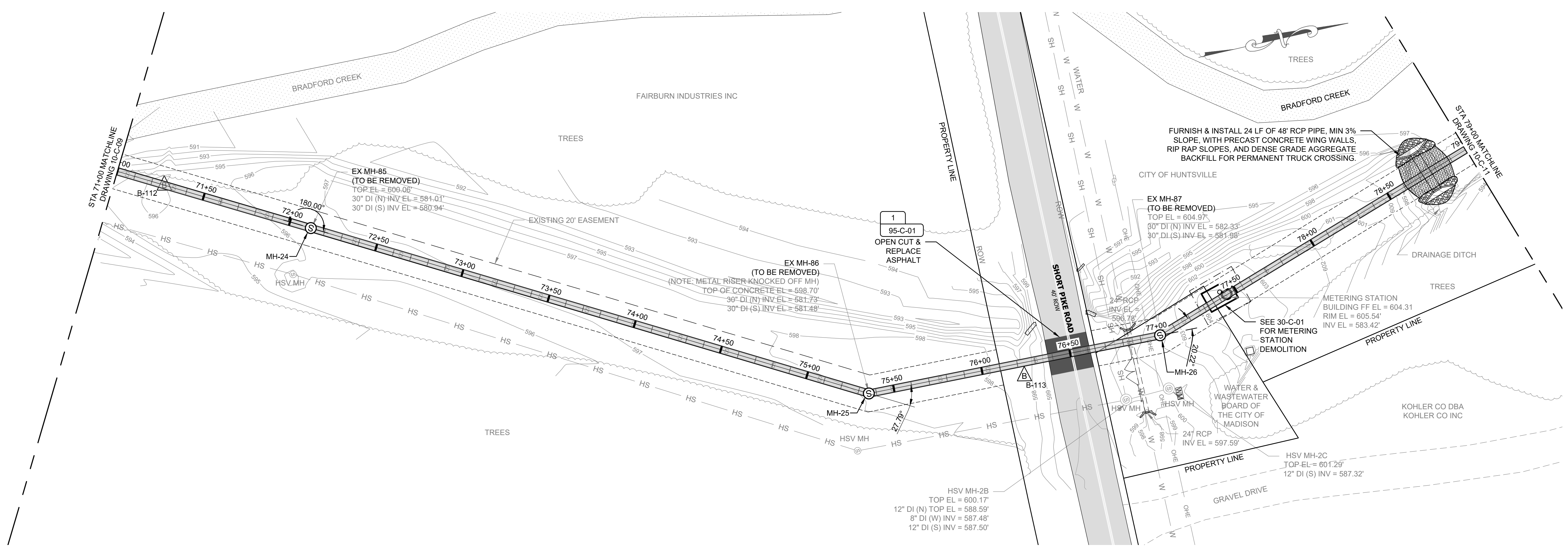
DATE: AUGUST 2020

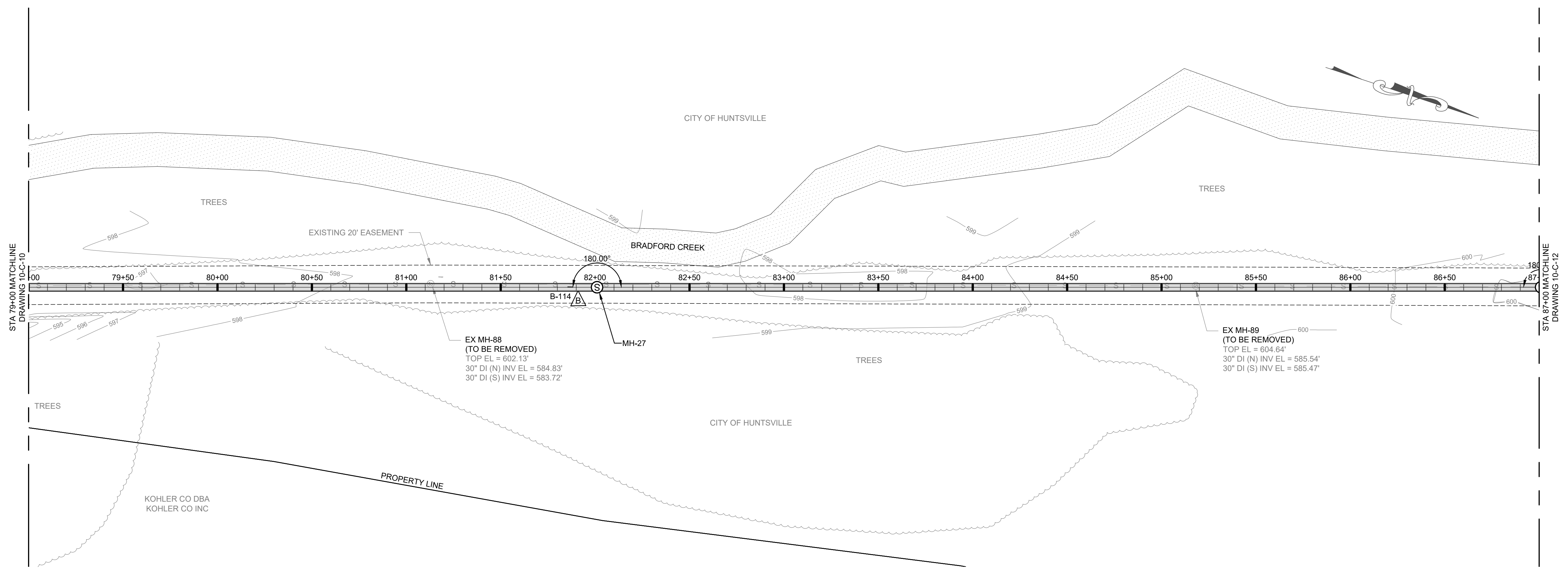
DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-10

SHEET NUMBER **13**





NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 79+00  
TO STA 87+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

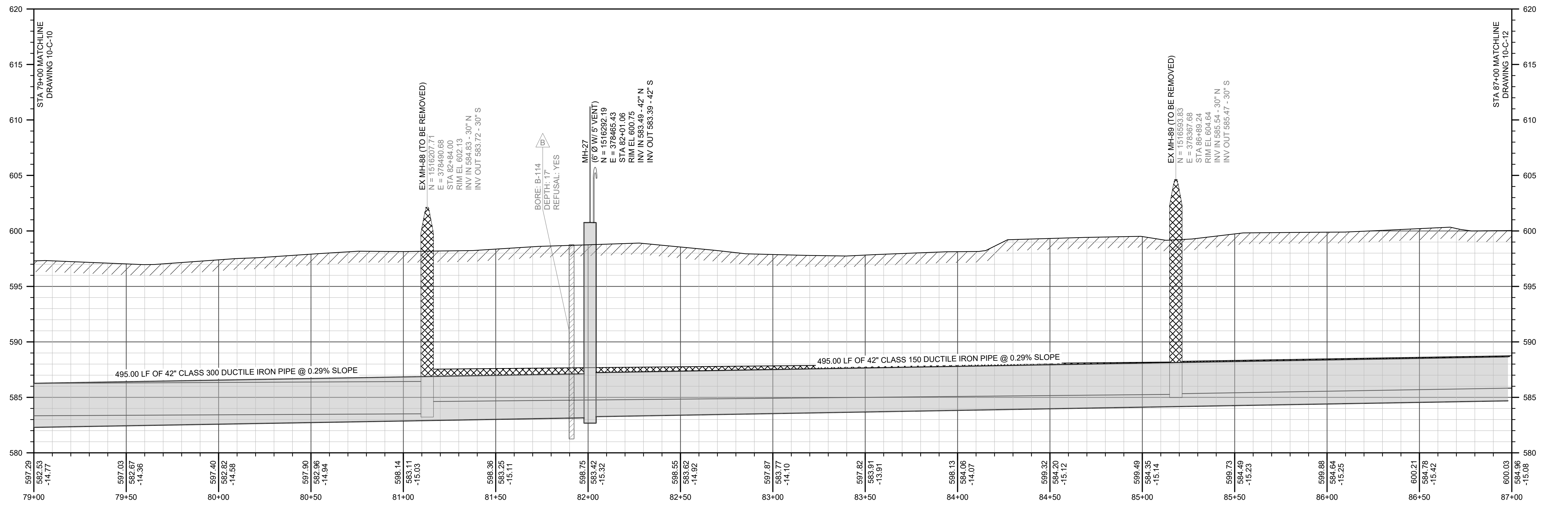
DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-11

SHEET NUMBER **14**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 87+00  
TO STA 95+00

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

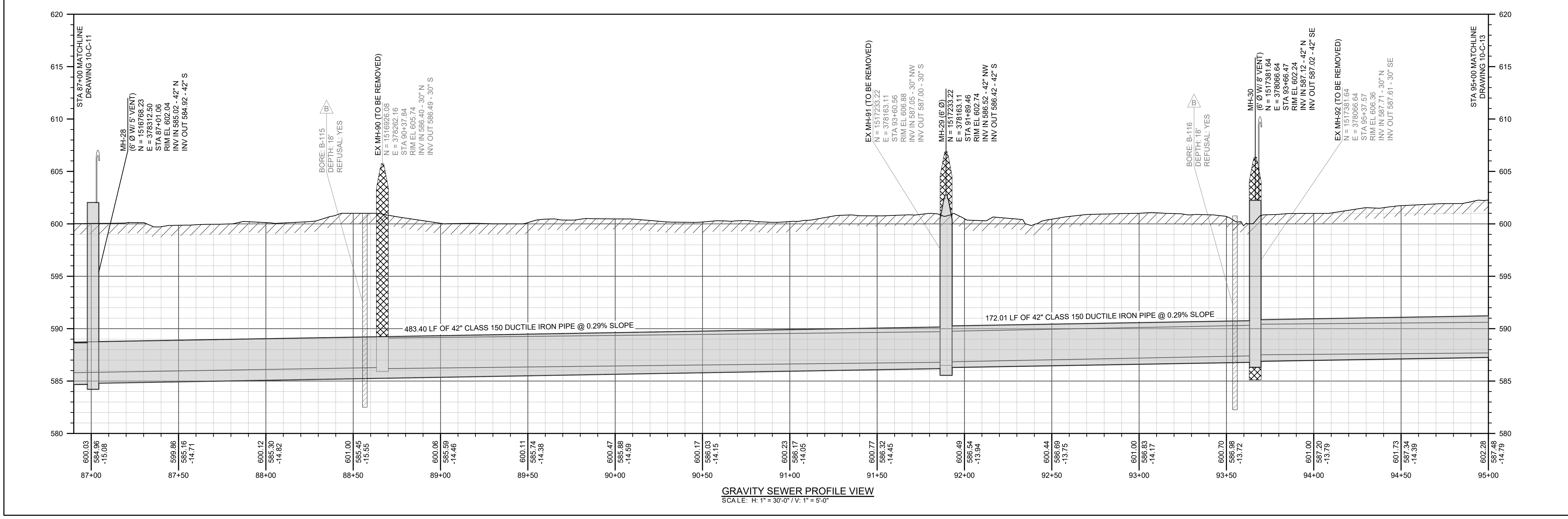
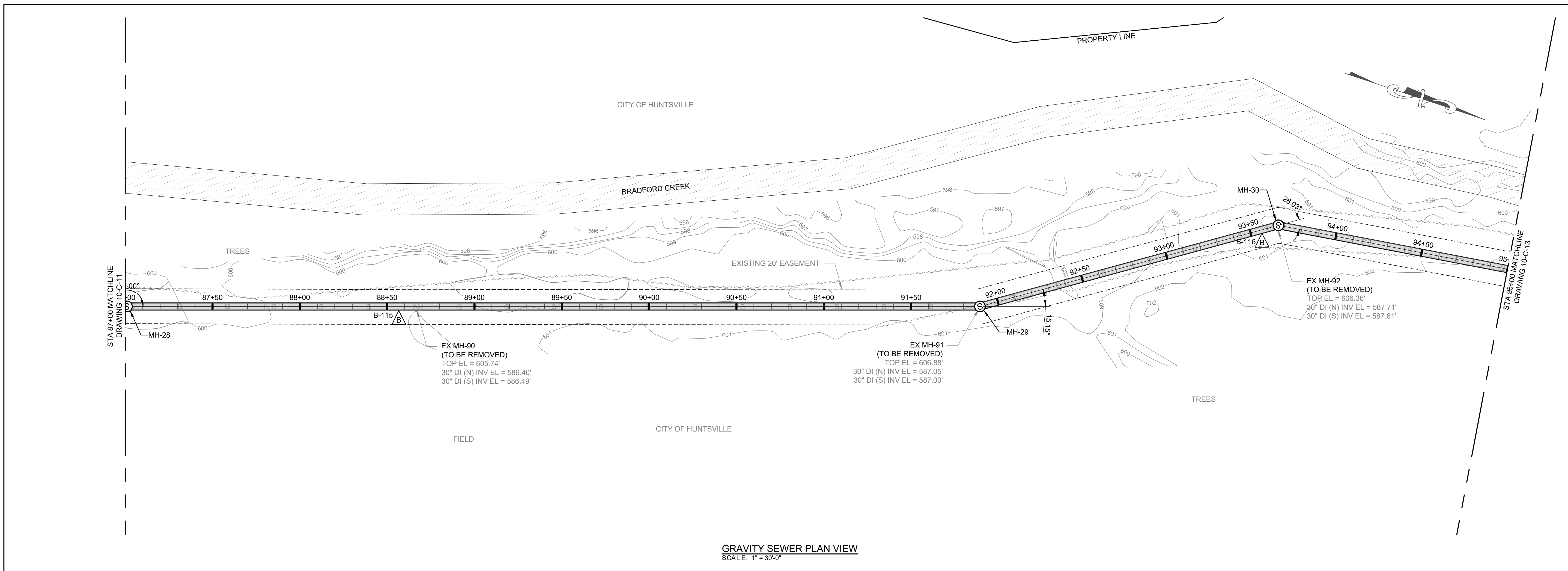
DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-12

SHEET NUMBER **15**



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
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**MADISON UTILITIES**  
MADISON, AL

**WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97**

GRAVITY SEWER  
PLAN & PROFILE  
FROM STA 95+00  
TO STA 103+50

BOX IS 2 IN WIDE  
AT FULL SCALE

JOB NO: MU-1940

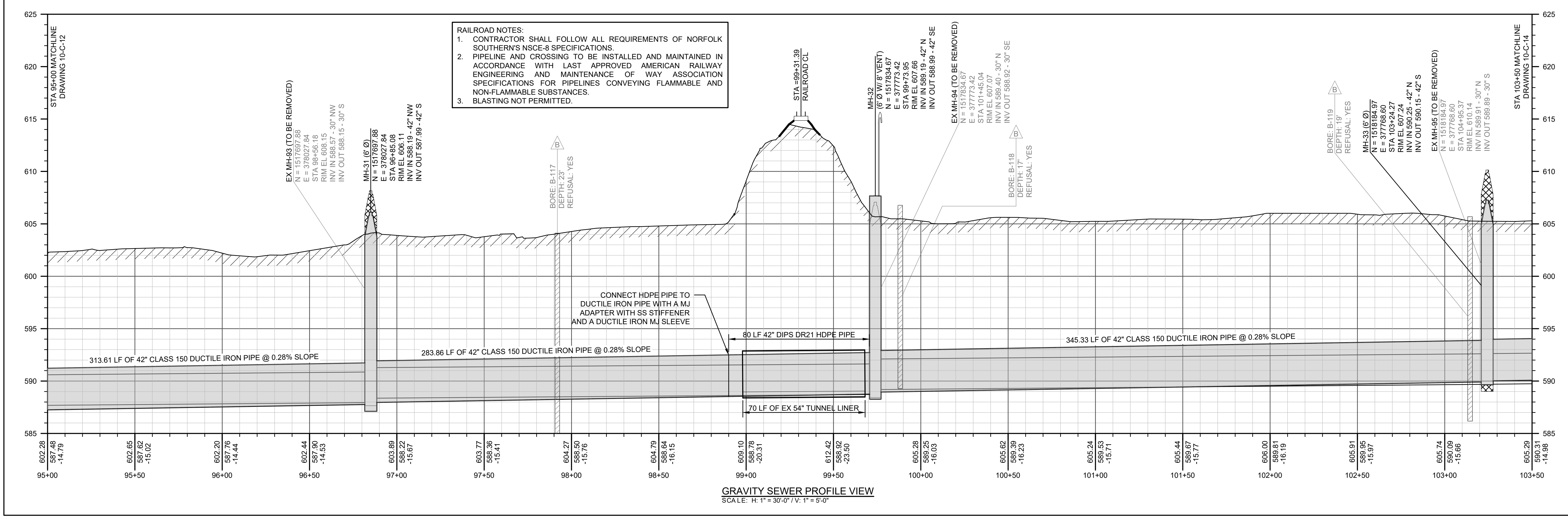
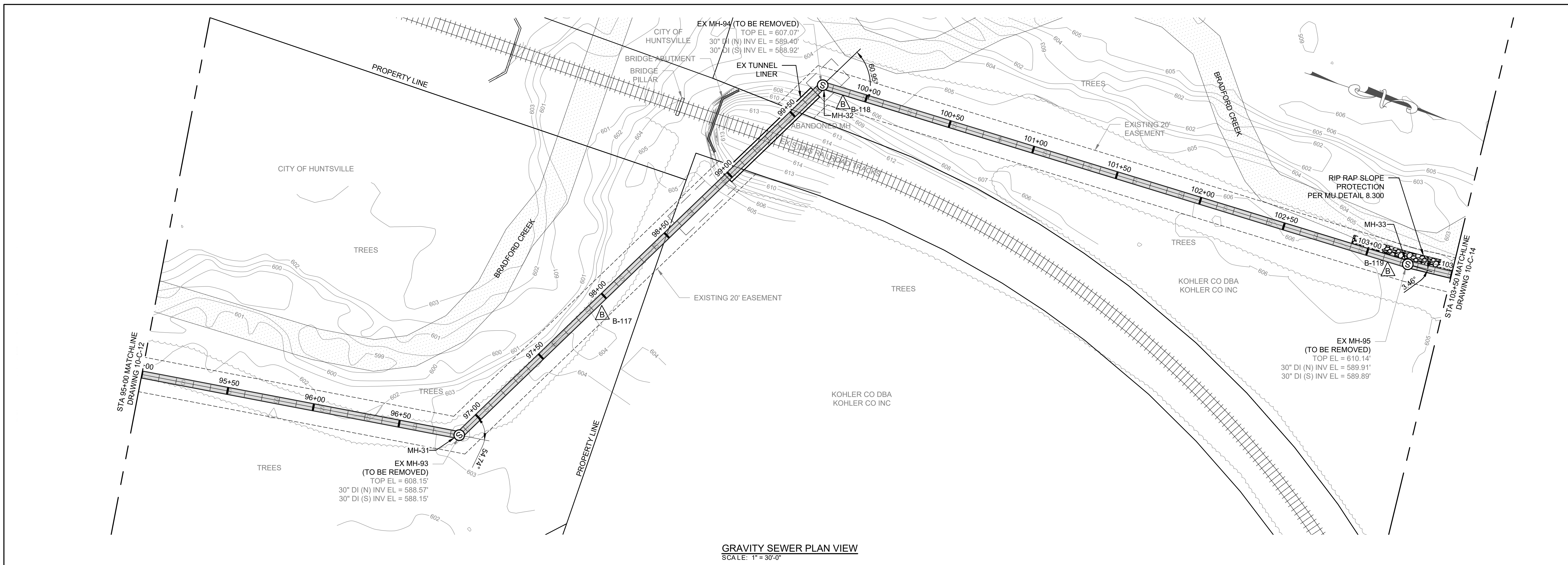
DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 10-C-13

SHEET NUMBER **16**

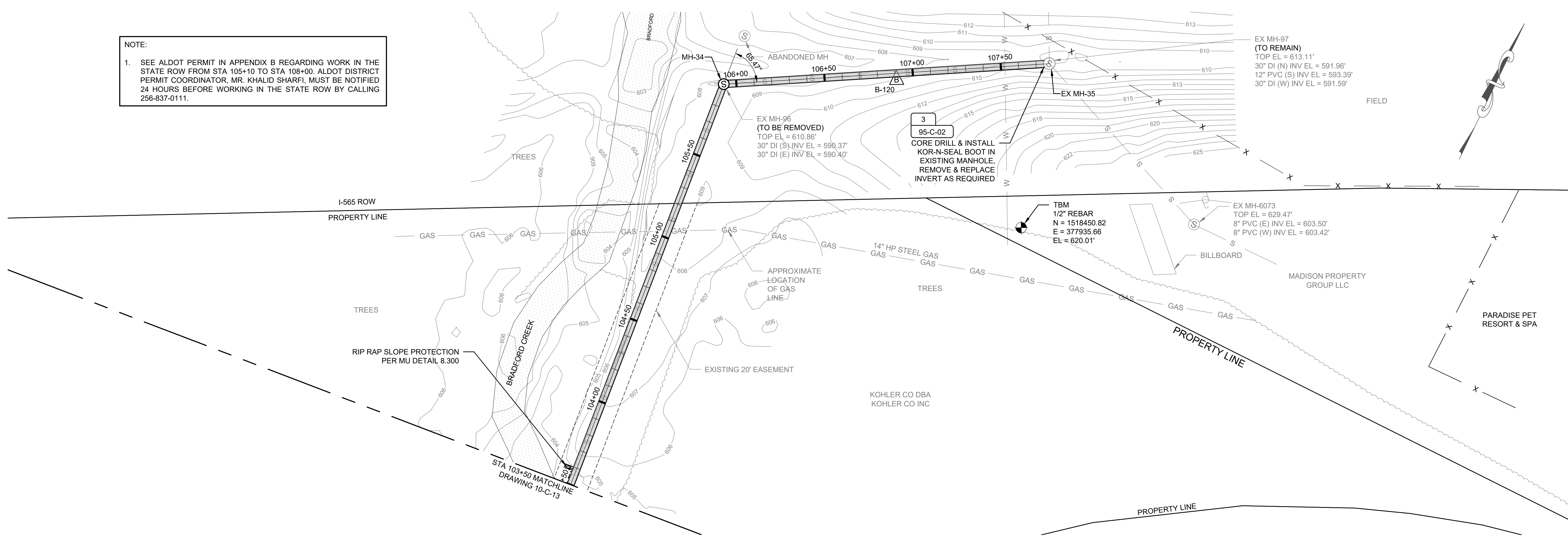


**RAILROAD NOTES:**

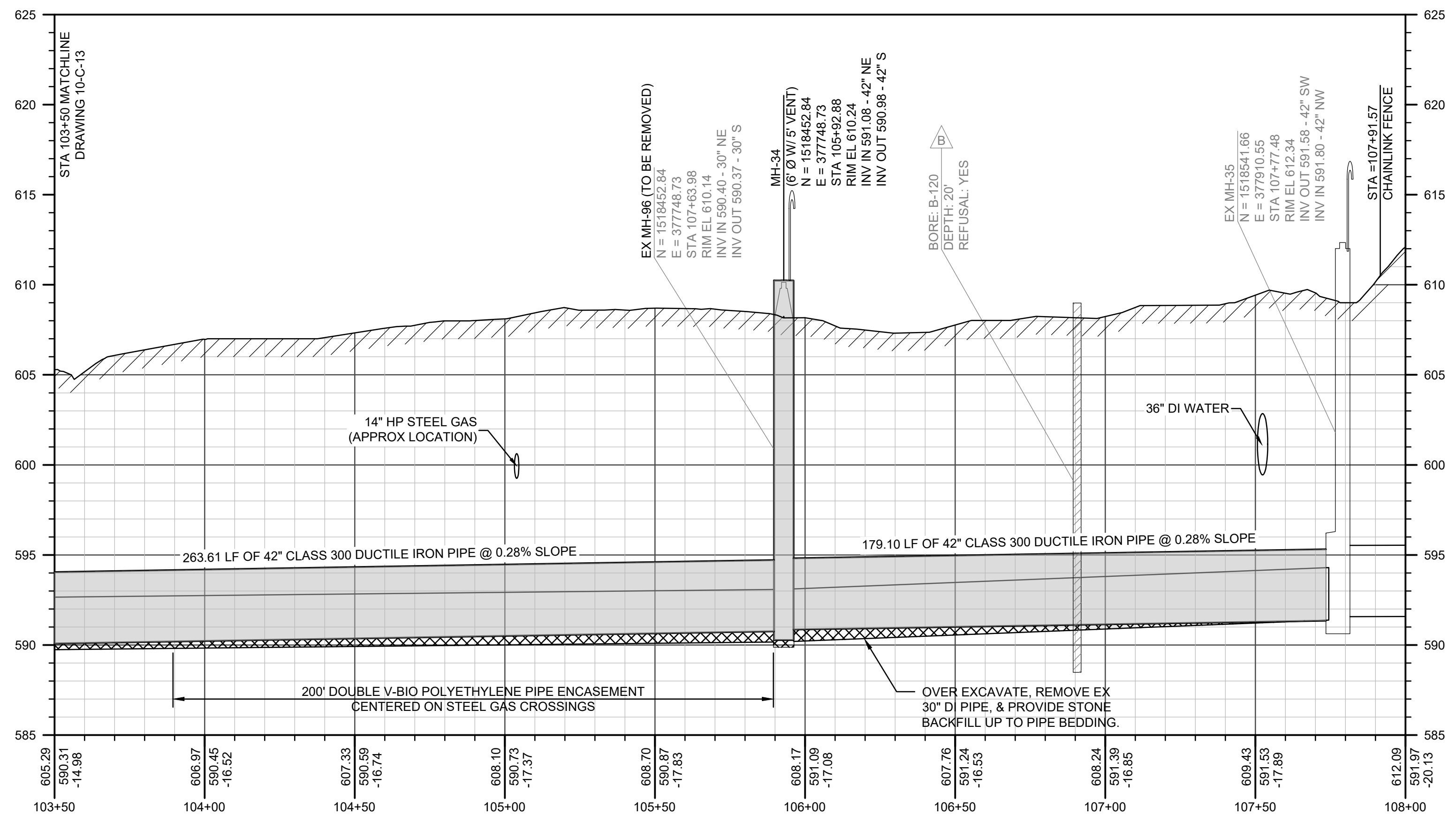
- CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
- PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
- BLASTING NOT PERMITTED.



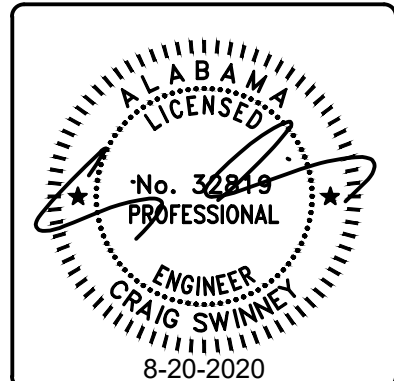
NOTE:  
 1. SEE ALDOT PERMIT IN APPENDIX B REGARDING WORK IN THE STATE ROW FROM STA 105+10 TO STA 108+00. ALDOT DISTRICT PERMIT COORDINATOR, MR. KHALID SHARFI, MUST BE NOTIFIED 24 HOURS BEFORE WORKING IN THE STATE ROW BY CALLING 256-837-0111.



GRAVITY SEWER PLAN VIEW  
 SCALE: 1" = 30'-0"



GRAVITY SEWER PROFILE VIEW  
 SCALE: H: 1" = 30'-0" V: 1" = 5'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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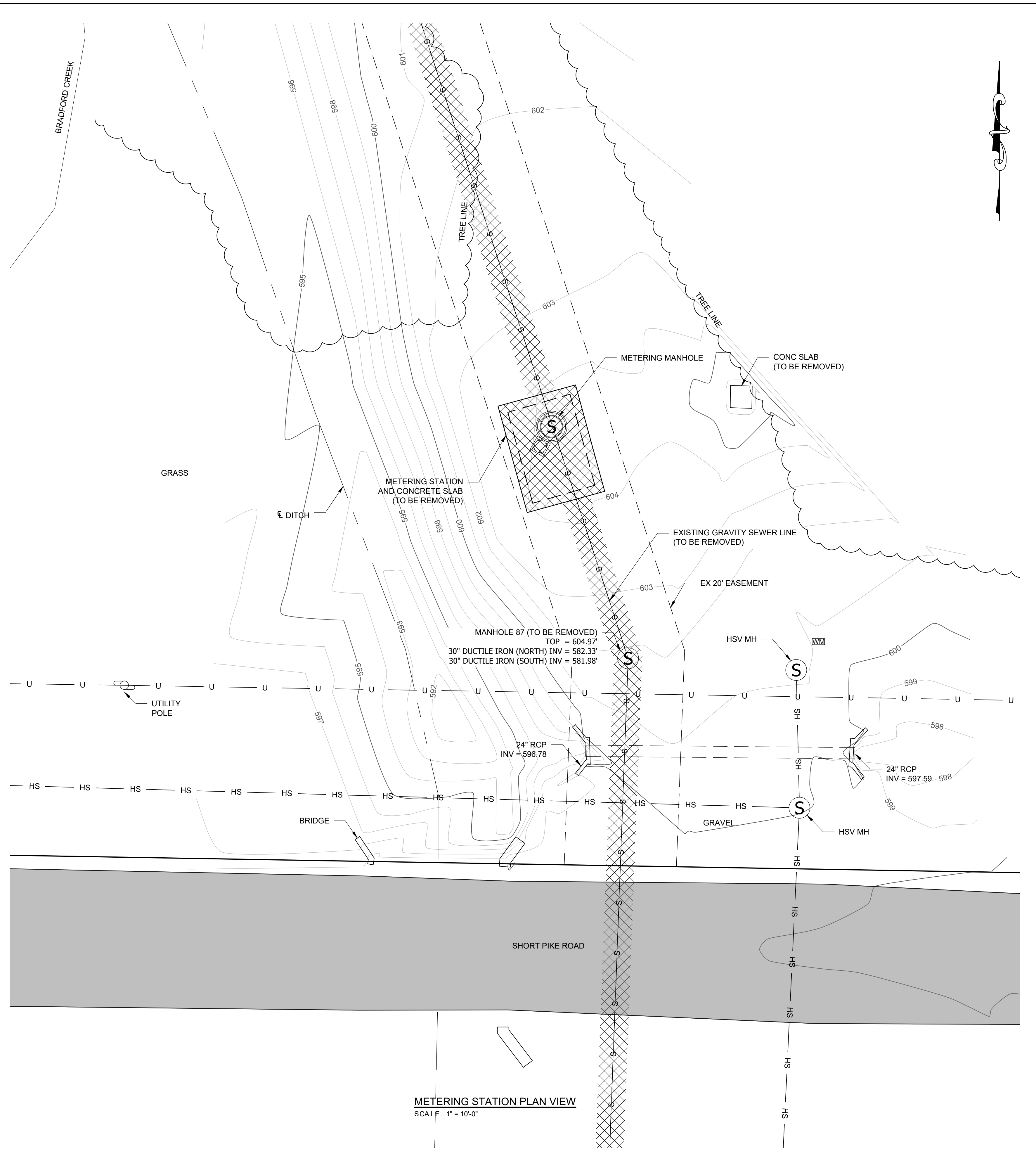
**MADISON UTILITIES**  
 MADISON, AL  
 WESTERN INTERCEPTOR  
 FROM MH-58 TO MH-97

GRAVITY SEWER  
 PLAN & PROFILE  
 FROM STA 103+50  
 TO STA 108+00

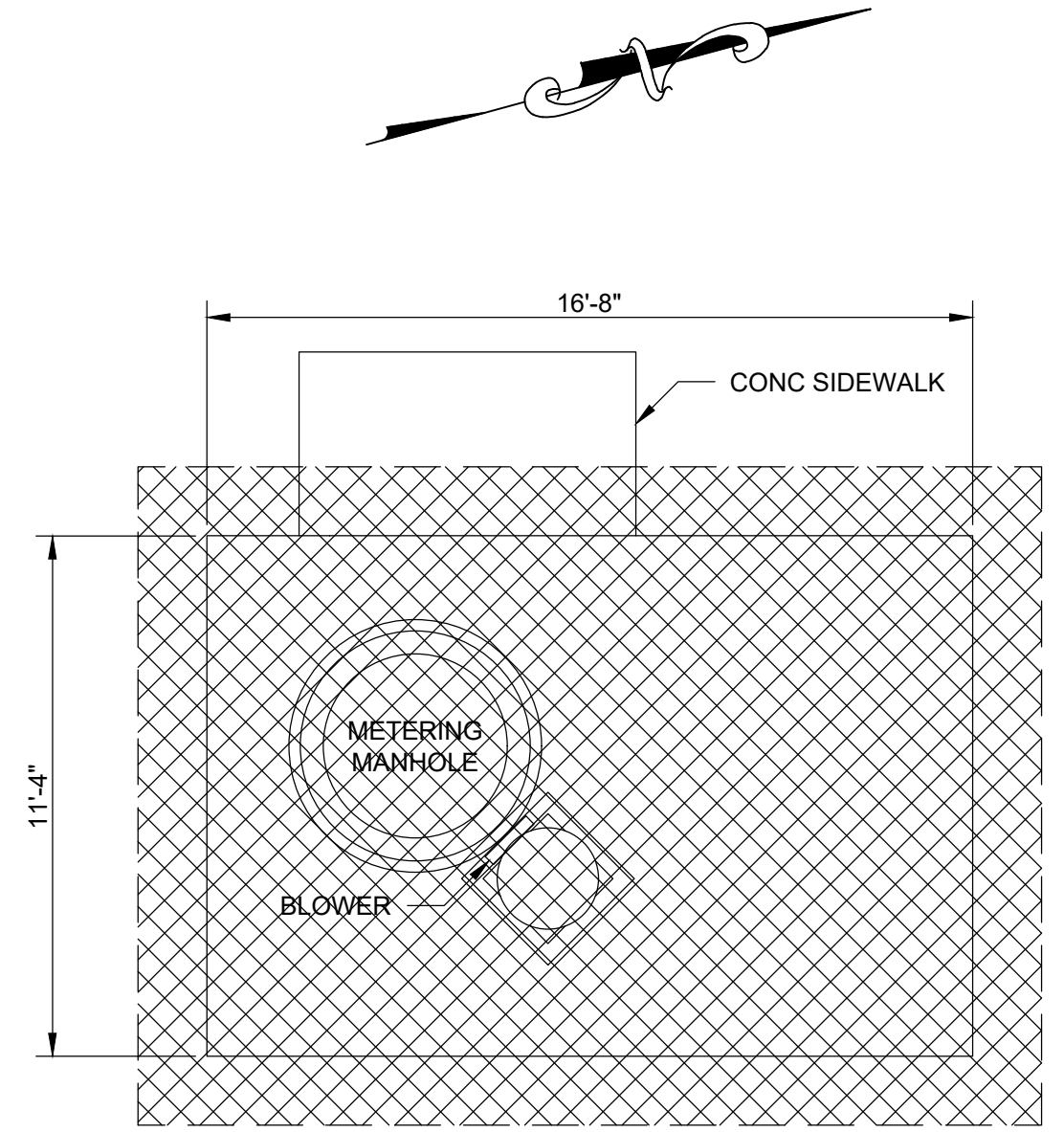
BOX IS 2 IN WIDE  
 AT FULL SCALE

JOB NO: MU-1940  
 DATE: AUGUST 2020  
 DESIGNED BY: CDS  
 DRAWN BY: JFL  
 DWG: 10-C-14

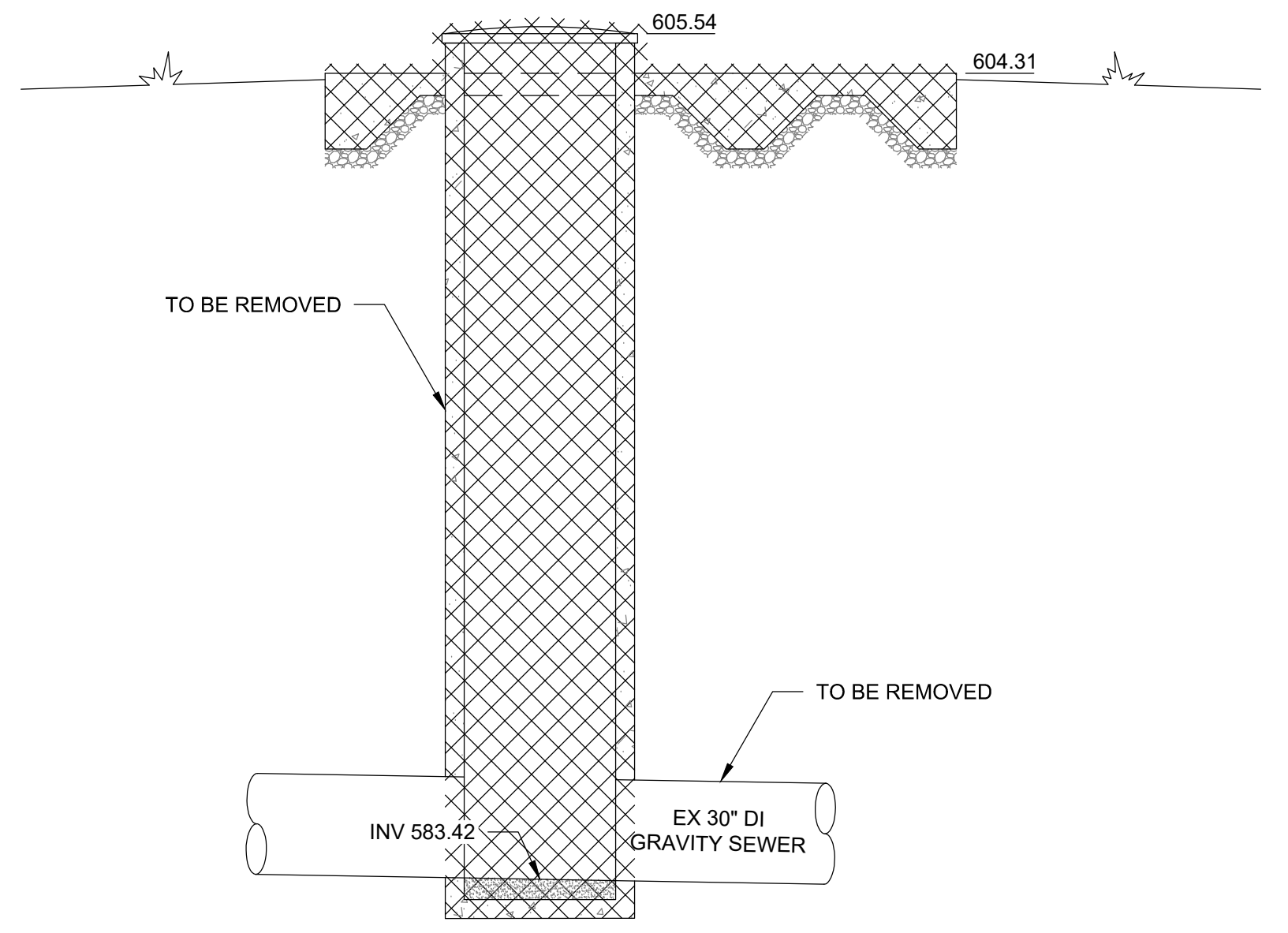
SHEET NUMBER **17**



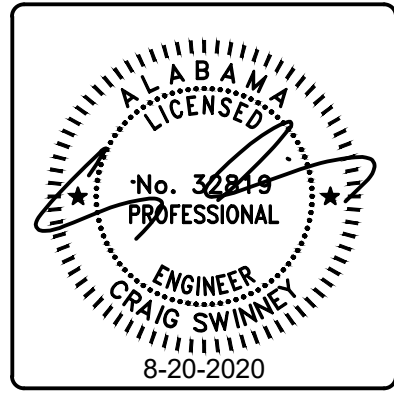
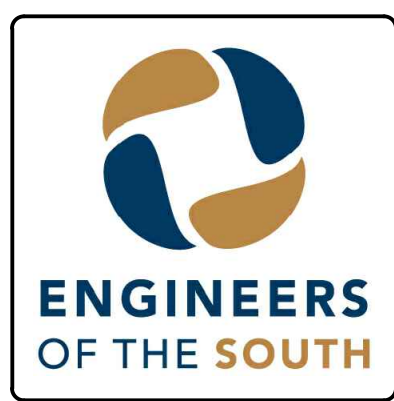
METERING STATION PLAN VIEW  
SCALE: 1" = 10'-0"



METERING STATION DEMO PLAN VIEW  
SCALE: 1" = 4'-0"



METERING STATION DEMO SECTION  
SCALE: 1/4" = 1'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**MADISON UTILITIES**  
MADISON, AL  
**WESTERN INTERCEPTOR**  
FROM MH-58 TO MH-97

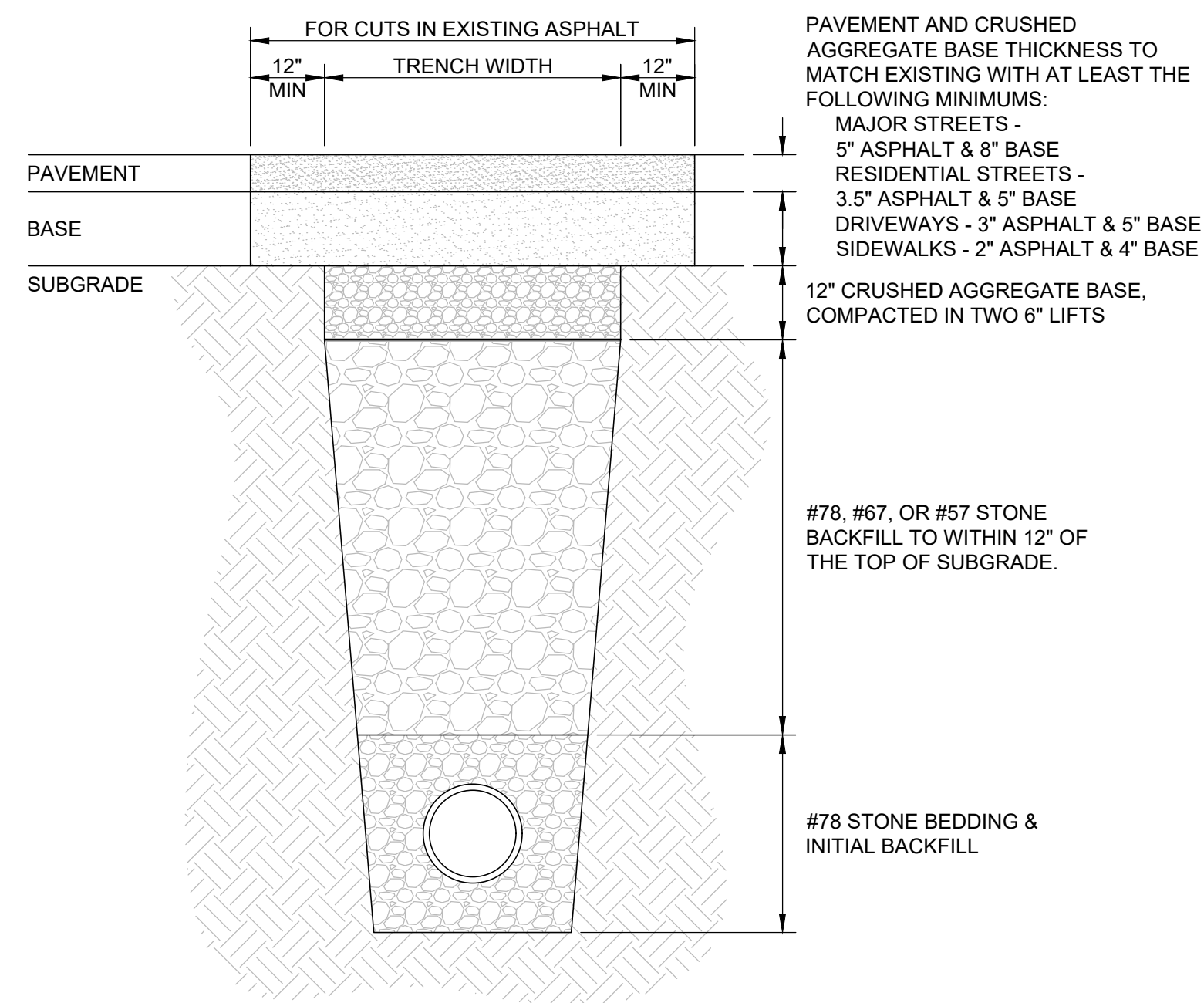
METERING STATION DEMOLITION PLAN & SECTIONS

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1940  
DATE: AUGUST 2020  
DESIGNED BY: CDS  
DRAWN BY: JFL  
DWG: 30-C-01

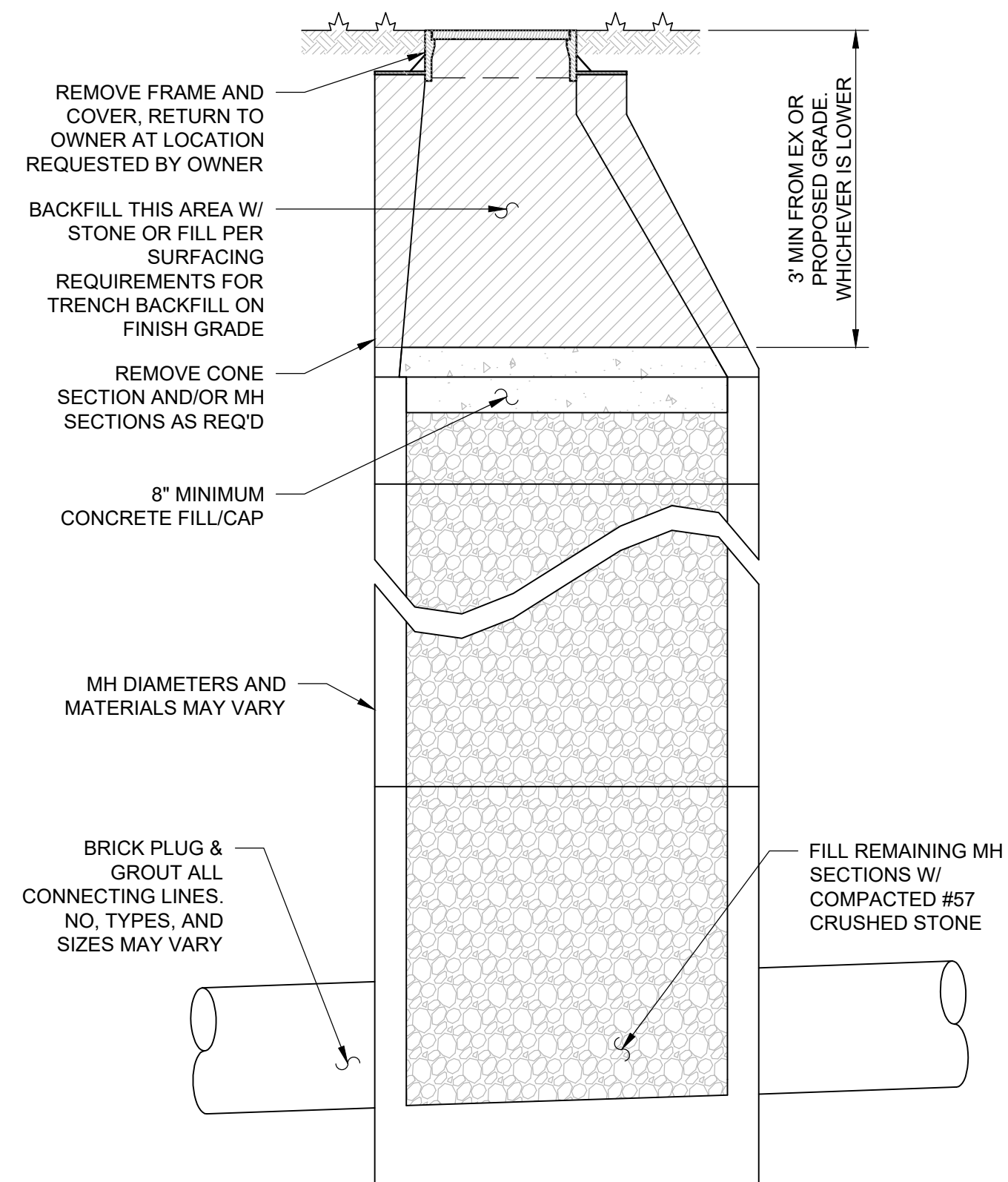
SHEET NUMBER **18**

- NOTES:**
- THIS DETAIL SHALL SUPERCEDE STANDARD DRAWING NO. 8.120 IN "CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER" BY MADISON UTILITIES.
  - RESURFACE AREAS SHALL HAVE 1.5" ASPHALT WEARING SURFACE AND MUST BE MILLED AROUND EDGES TO MATCH ADJACENT PAVEMENT, CURBS, ASPHALT, ETC.
  - IN EXISTING ROADS: SAWCUT PERIMETER OF PAVEMENT TO BE REPLACED.
  - REPLACE ALL PAVEMENT DAMAGED OR UNDERMINED BY THE UTILITY INSTALLATION.
  - TRENCH BACKFILL & PAVEMENT REPLACEMENT TO MEET THE MADISON CITY SPECIFICATIONS. CALL 256-772-5639 FOR CITY INSPECTION PRIOR TO PLACING THE NEW PAVEMENT SURFACE.

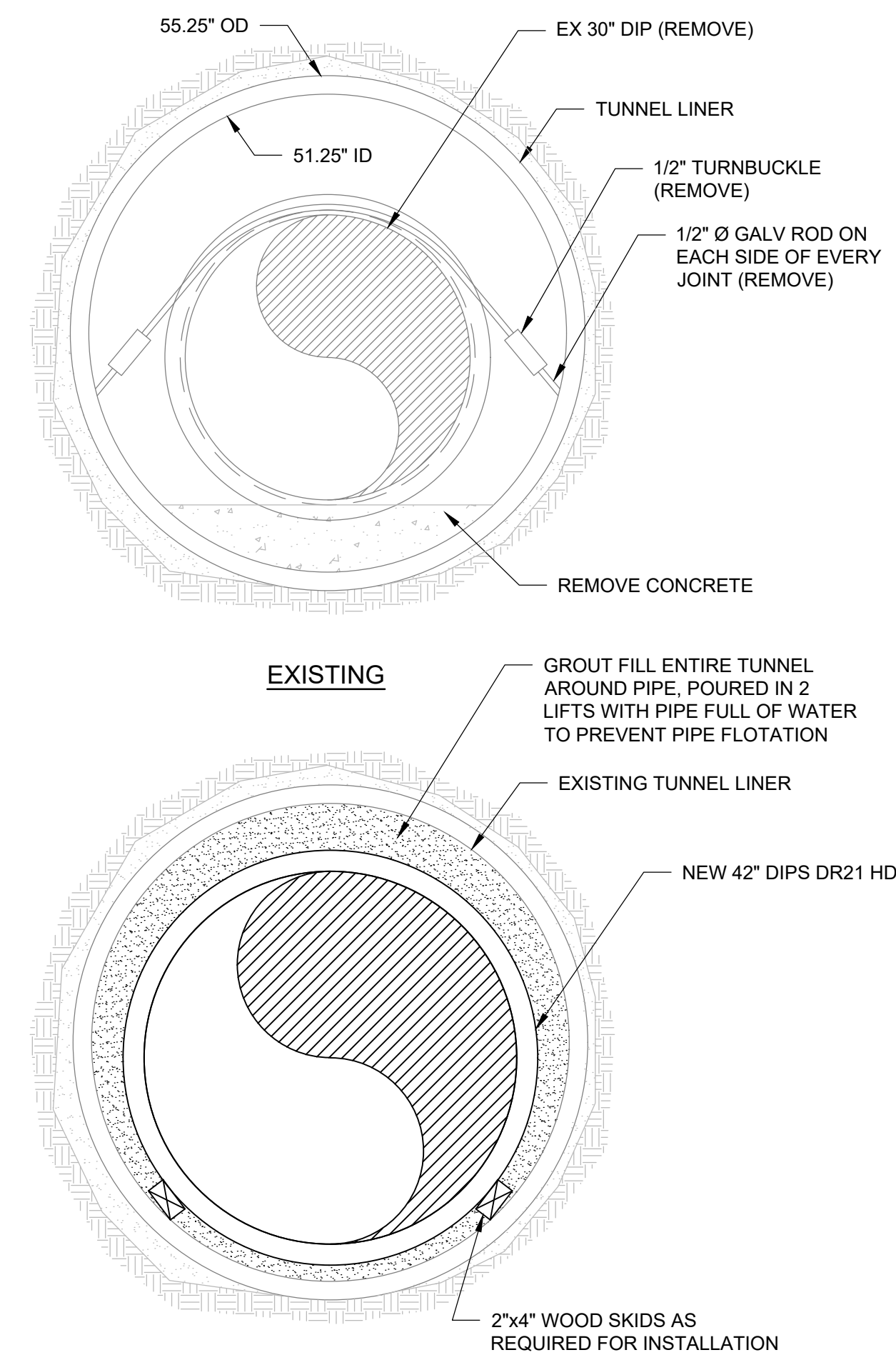


**1** UTILITY TRENCH REPAIRS UNDER EXISTING ASPHALT SURFACES  
95-C-01 SCALE: NOT TO SCALE

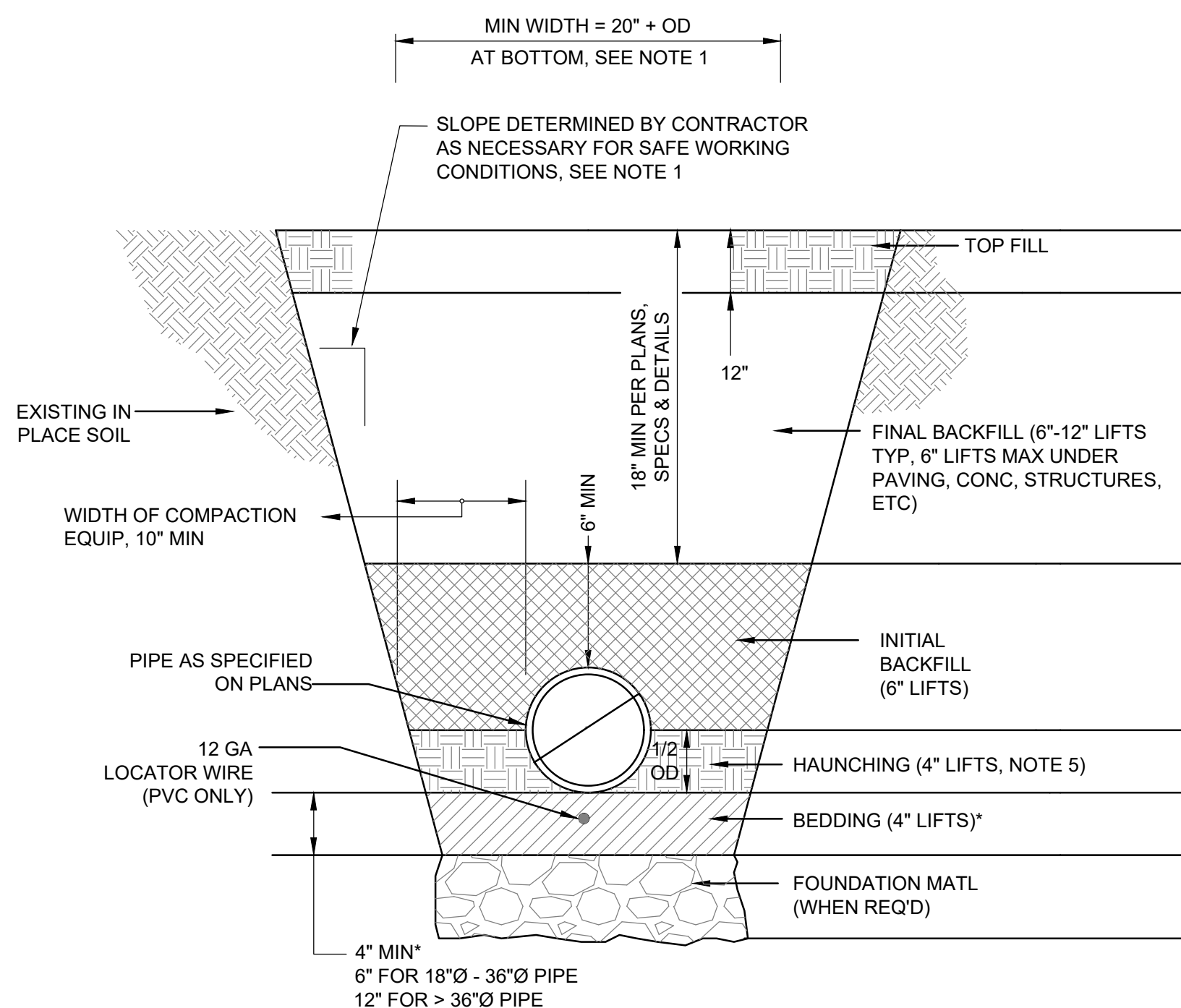
- NOTES:**
- DEMO AND FILL DROP MH's AND CONNECTIONS AS REQ'D
  - REMOVE ENTIRE MANHOLE WHEN REQUIRED FOR CONSTRUCTION OF NEW MANHOLES, LINES OR STRUCTURES



**2** TYPICAL DETAIL FOR DEMOLITION OF EX MH'S ALONG ABANDONED SEWER SECTIONS  
95-C-01 SCALE: NOT TO SCALE



**3** TUNNEL LINER DETAIL  
95-C-01 SCALE: NOT TO SCALE



BEDDING/BACKFILL REQUIREMENTS & MATL DESIGNATIONS (SEE MATERIAL DESIGNATION/DESCRIPTOINS TABLE)								
PRESSURE MAINS			GRAVITY LINES			PAVED AREAS		
DI	CONC	PVC	DI	CONC	PVC	DI	CONC	PVC
5	5	5	5	5	5	6**	6**	6**
4	4	4	4	4	4	1	1	2
3	3	2	1	3	2	1	1	2
3	3	2	1	1	2	1	1	2
1	1	2	1	1	2	1	1	2
RIP-RAP OR CRUSHED STONE CLASS 1B (USCS IN ASTM D2487)								

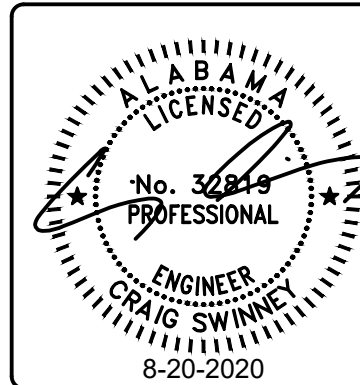
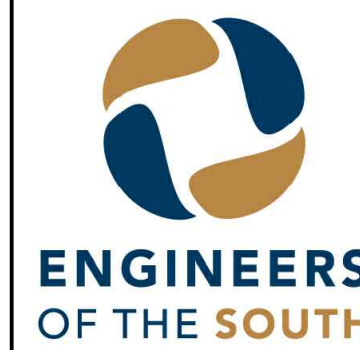
\* SEE NOTE 2  
\*\* SEE NOTE 4

**4** BEDDING AND BACKFILL FOR TRENCHES  
95-C-01 SCALE: NOT TO SCALE

**NOTES:**

- SLOPE, BENCHING, SHORING, ETC. AS DETERMINED AND DESIGNED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".
- BEDDING REQ'D FOR ALL GRAVITY LINES. ALL PVC LINES AND ALL CONCRETE LINES. BEDDING REQUIRED IN ALL AREAS OF ROCK EXCAVATION OR UNSUITABLE SOILS. BELL HOLES REQ'D FOR PIPES > 4" DIA FOR DUCTILE IRON PRESSURE MAINS, SELECT EARTH MAY BE USED FOR BEDDING IN AREAS OF ROCK EXCAVATION.
- ALL MATERIALS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY AT 2%± OPTIMUM MOISTURE CONTENT. MATERIALS UNDER PAVING, CONCRETE, STRUCTURES, ETC. SHALL BE COMPACTED TO MIN 98%-100% STANDARD PROCTOR. MECHANICAL COMPACTION SHALL BE BY VIBRATORY SHEEPSFOOT OR OTHER EQUIP SPECIFICALLY DESIGNED FOR THE COMPACTION OF EARTH. COMPACTION EQUIP SHALL BE ON-SITE PRIOR TO BEGINNING OF WORK. MECHANICAL COMPACTION SHALL BE COMPLETED IN LOOSE LIFTS AS SHOWN ON THE DETAIL.
- TEMPORARY COMPACTED PUG-MIX BACKFILL REQ'D UNTIL PAVEMENT PLACEMENT IS COMPLETE. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THIS PUGMIX TO KEEP IT FLUSH WITH THE ADJACENT PAVING, ETC. UNTIL THE FINAL PAVING IS PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ASPHALT OR CONCRETE PATCHES WHEN NEEDED FOR PUBLIC SAFETY AND/OR CONVENIENCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND UTILIZE APPROPRIATE MEANS AND METHODS OF CONSTRUCTION TO ENSURE THAT THE ENTIRE AREAS UNDER THE HAUNCHES OF THE PIPE ARE FILLED WITH THE REQUIRED MATERIALS AND COMPACTED APPROPRIATELY.
- ADDITIONAL AND/OR SPECIAL REQUIREMENTS MAY BE REQ'D BY THE PLANS, SPECIFICATIONS AND/OR CONTRACT DOCUMENTS.
- TO THE EXTENT POSSIBLE, AS DETERMINED BY THE CONTRACTOR, TRENCH WALL SHORING METHODS SHALL BE USED IN PAVED AREAS TO MINIMIZE PAVING REPAIR REQUIREMENTS.

MATERIAL DESIGNATION/DESCRIPTOINS TABLE	
DESIGNATION/ MATERIALS	DESCRIPTION
1	CRUSHED STONE, ASTM-448 NO. 57 GRADATION
2	CRUSHED STONE, ASTM-448 NO. 67 GRADATION. SAND SHALL BE USED AS SUBSTITUTE IN RESIDENTIAL LAWNS, YARDS, AND LANDSCAPED AREAS.
3	SELECT EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 1" DIA.
4	EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 12" DIA.
5	SELECT TOPSOIL MAT'L TO SUPPORT VEGETATION, NO STONES OR ROCK ALLOWED
6	CRUSHED STONE, MOIST "PUG-MIX" PER ALDOT SECTION 825



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT

**MADISON UTILITIES**  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

TYPICAL DETAILS

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1940

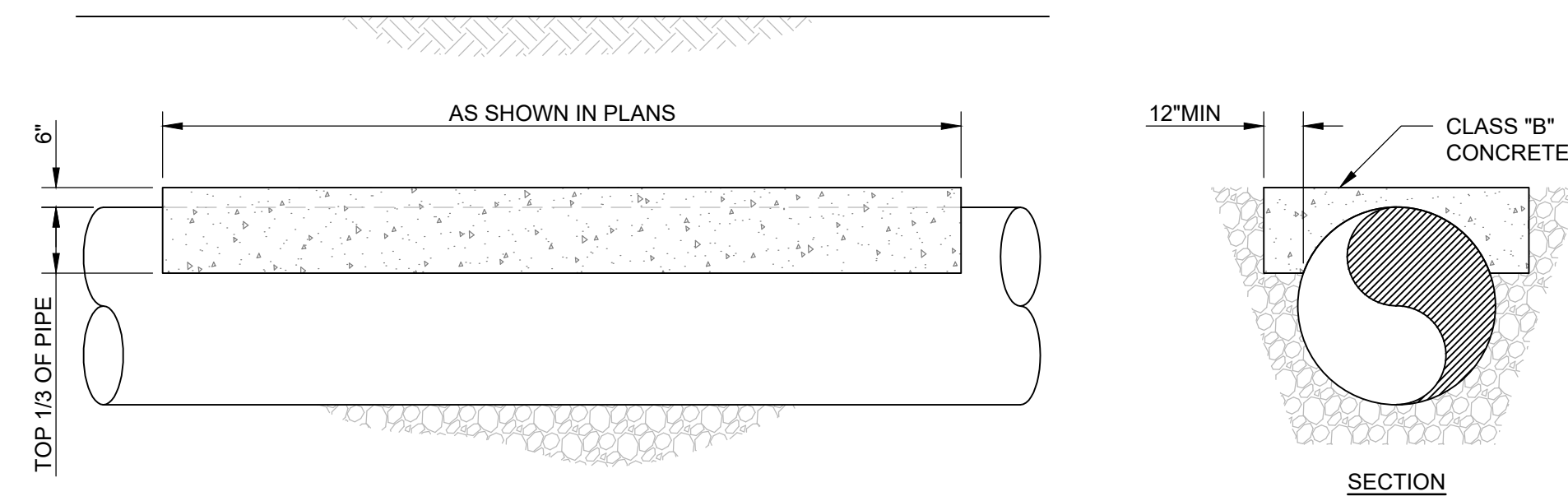
DATE: AUGUST 2020

DESIGNED BY: CDS

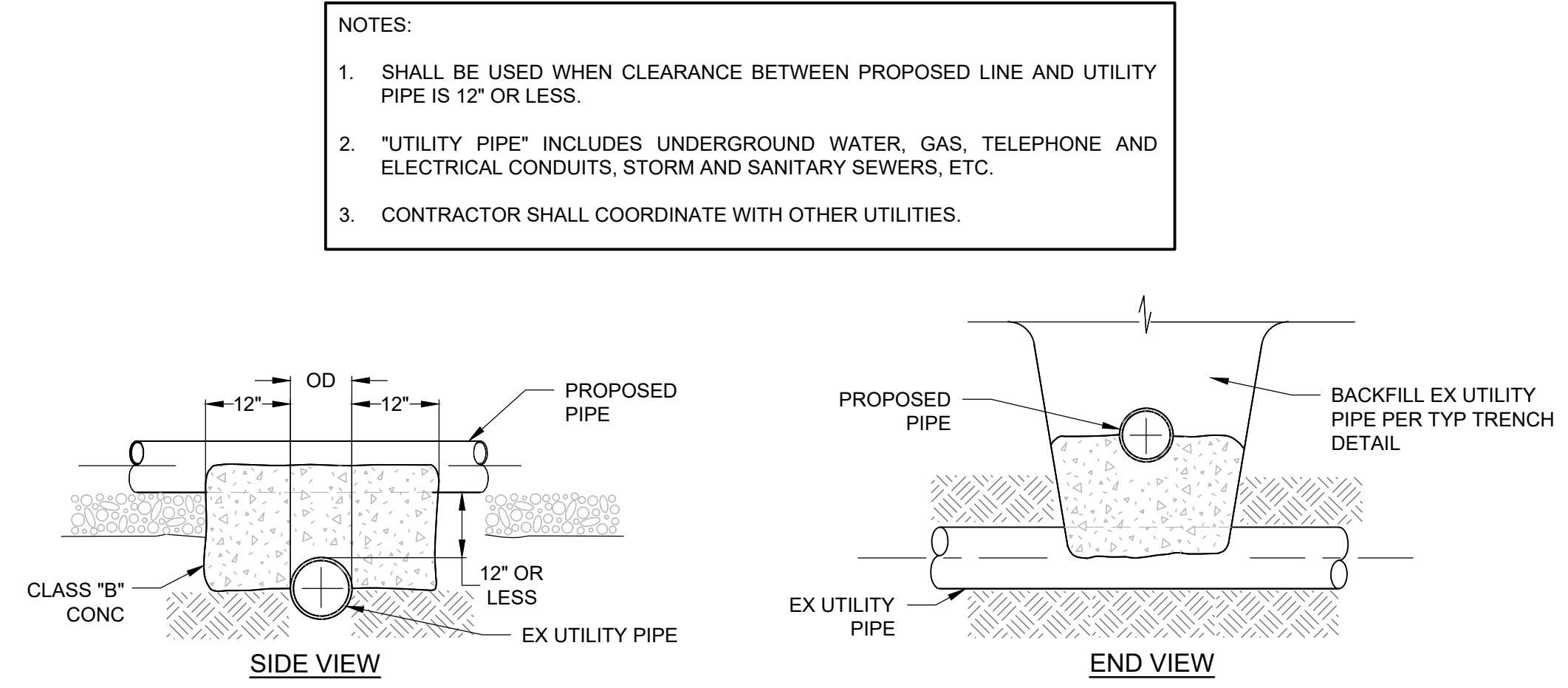
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DWG: 95-C-01

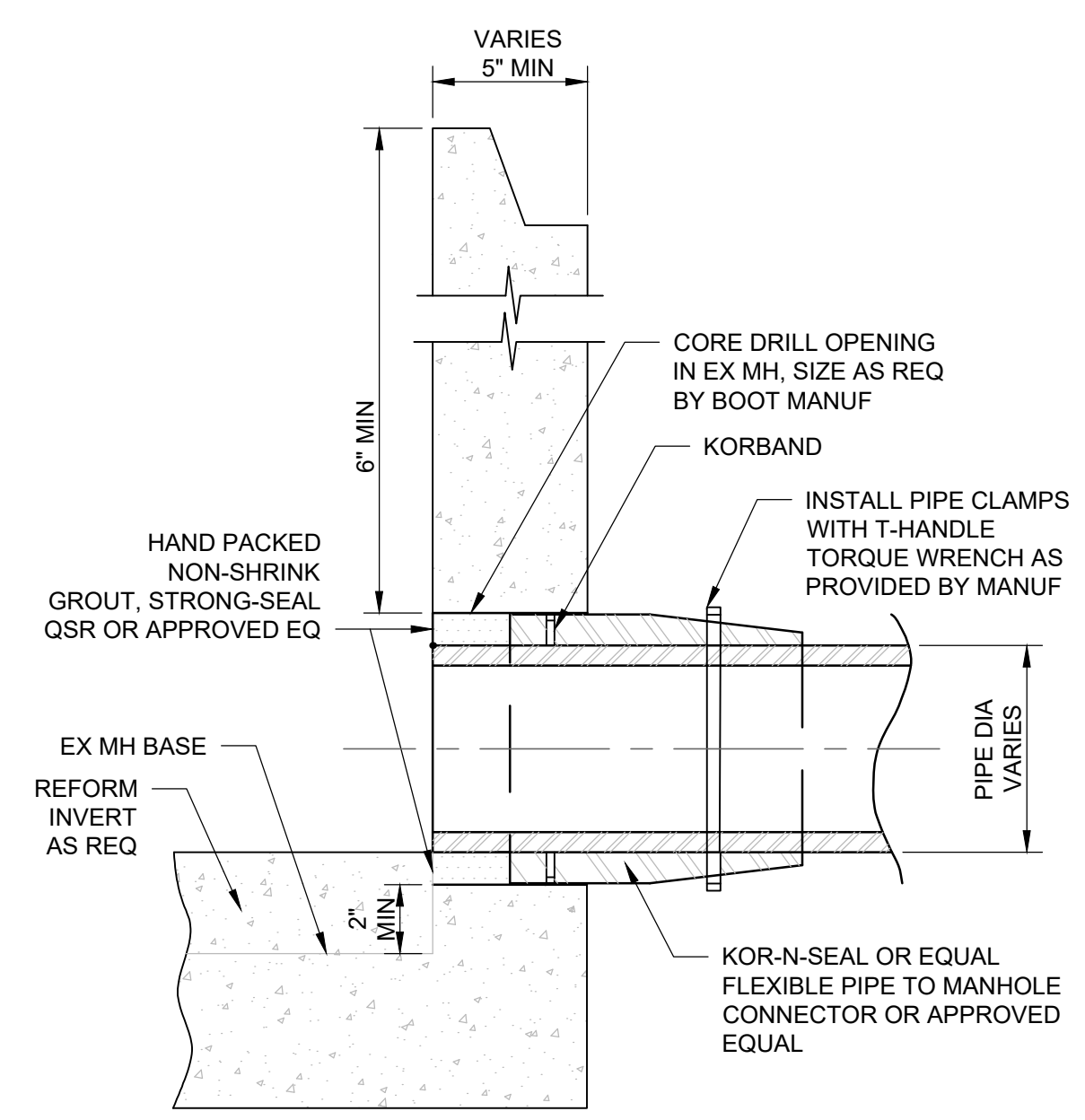
SHEET NUMBER **19**



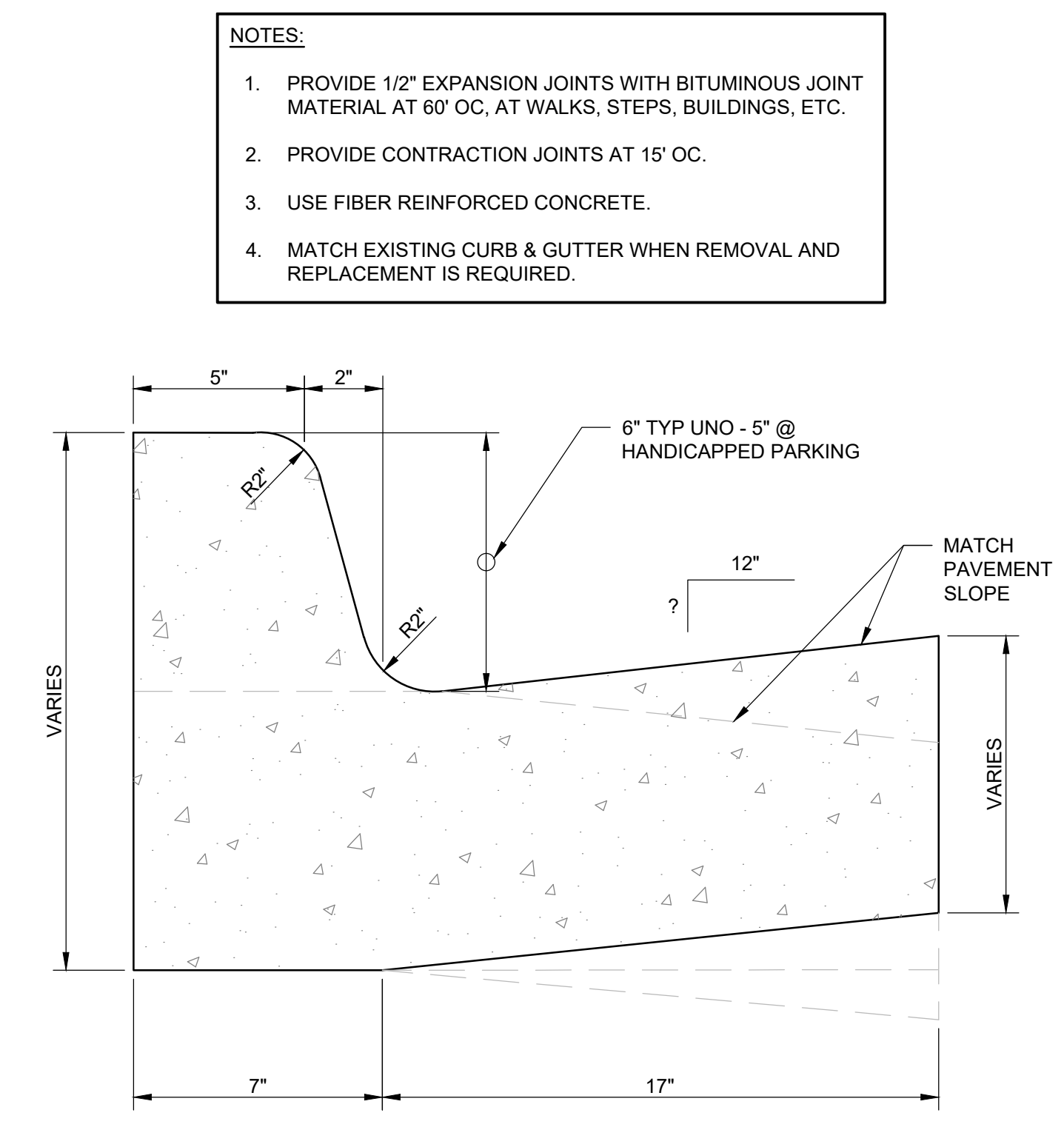
1 CONCRETE CAP  
95-C-02 SCALE: NOT TO SCALE



2 UTILITY CROSSING WITH 12" OR LESS CLEARANCE  
95-C-02 SCALE: NOT TO SCALE



3 FLEXIBLE PIPE-TO-MANHOLE CONNECTOR  
95-C-02 SCALE: NOT TO SCALE



4 INTEGRAL CURB & GUTTER  
95-C-02 SCALE: NOT TO SCALE

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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MADISON UTILITIES  
MADISON, AL  
WESTERN INTERCEPTOR  
FROM MH-58 TO MH-97

TYPICAL DETAILS

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: MU-1940

DATE: AUGUST 2020

DESIGNED BY: CDS

DRAWN BY: JFL

DWG: 95-C-02

SHEET NUMBER 20