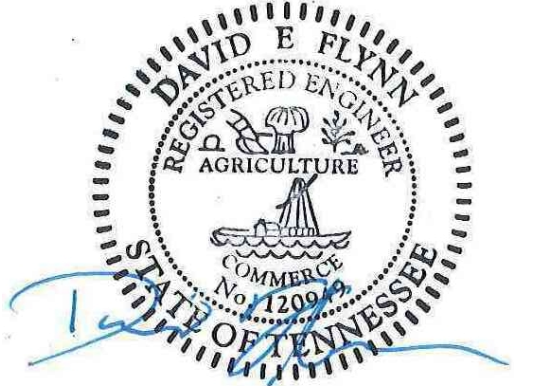


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03/21/2022

PROJECT INFORMATION:

**FORCE MAIN AND
PUMP STATION**
MEMPHIS REGIONAL MEGASITE

STATEWIDE, TENNESSEE

CLIENT INFORMATION:



STATE OF TN
SBC PROJECT
529/000-02-2010-05

NO.	DATE	SUBJECT
1	03/21/22	BULLETIN 4
0	09/23/21	ISSUE FOR BID

SSOE, Inc.
320 Seven Springs Way, Suite 350
Brentwood, TN 37027
T 615-661-7355

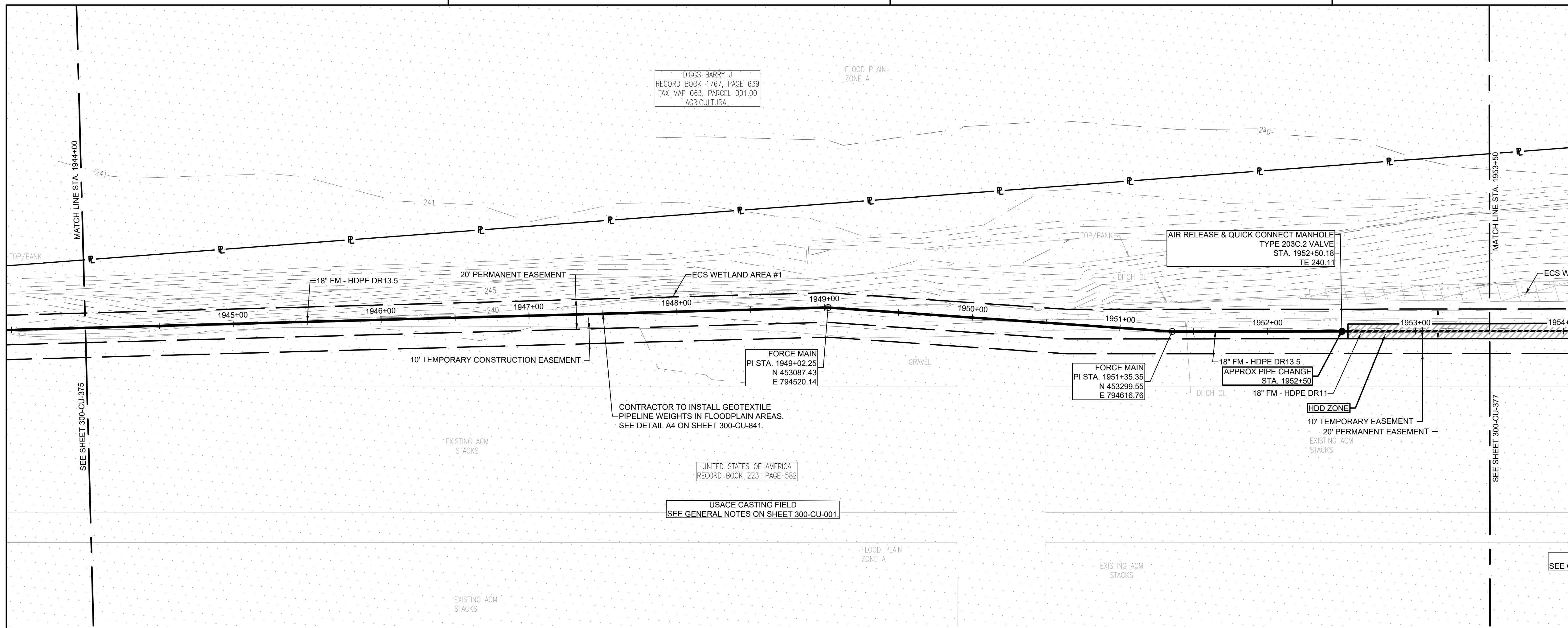
PROJECT NO: 012-02080-16
PROJECT MANAGER: D. HIBDON
DESIGNED: D. FLYNN
CHECKED: C. HARTMAN

DRAWING TITLE:
**FORCE MAIN
PLAN AND PROFILE**
STA. 1944+00.00 TO 1953+50.00

DRAWING NO:
300-CU-376

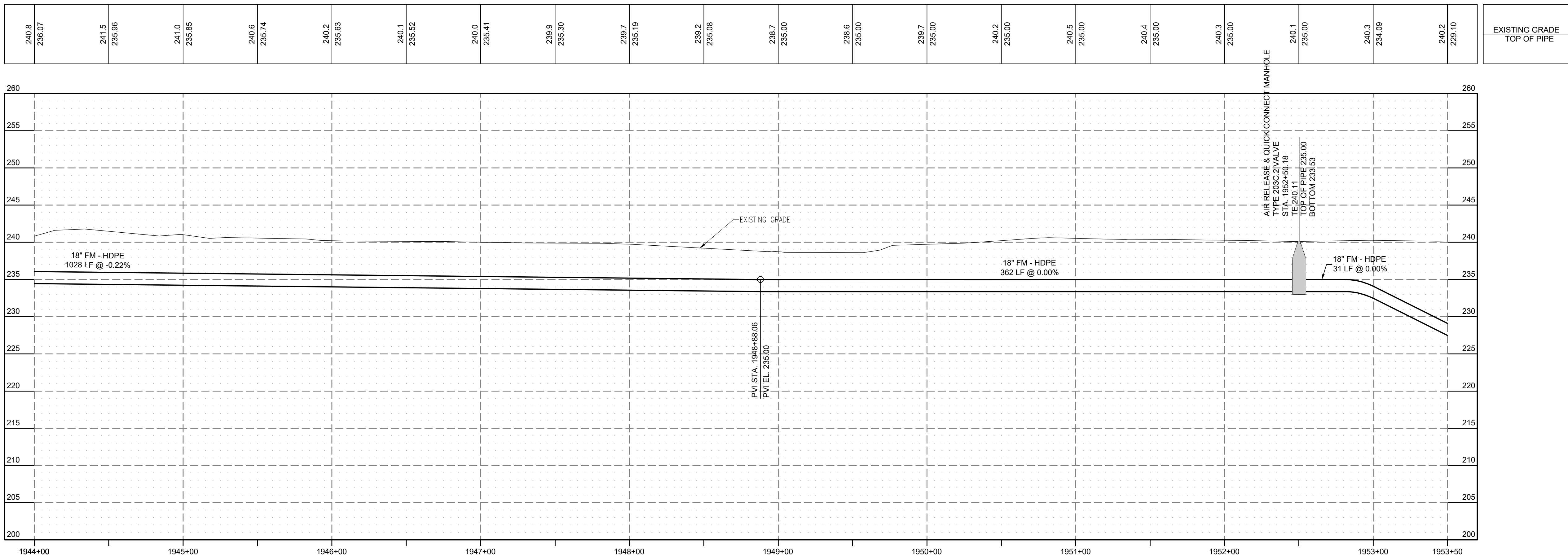
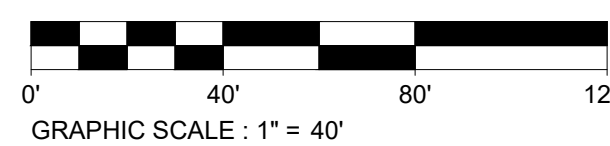


Know what's below.
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PLAN AND PROFILE
STA. 1944+00.00 TO 1953+50.00

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=8'



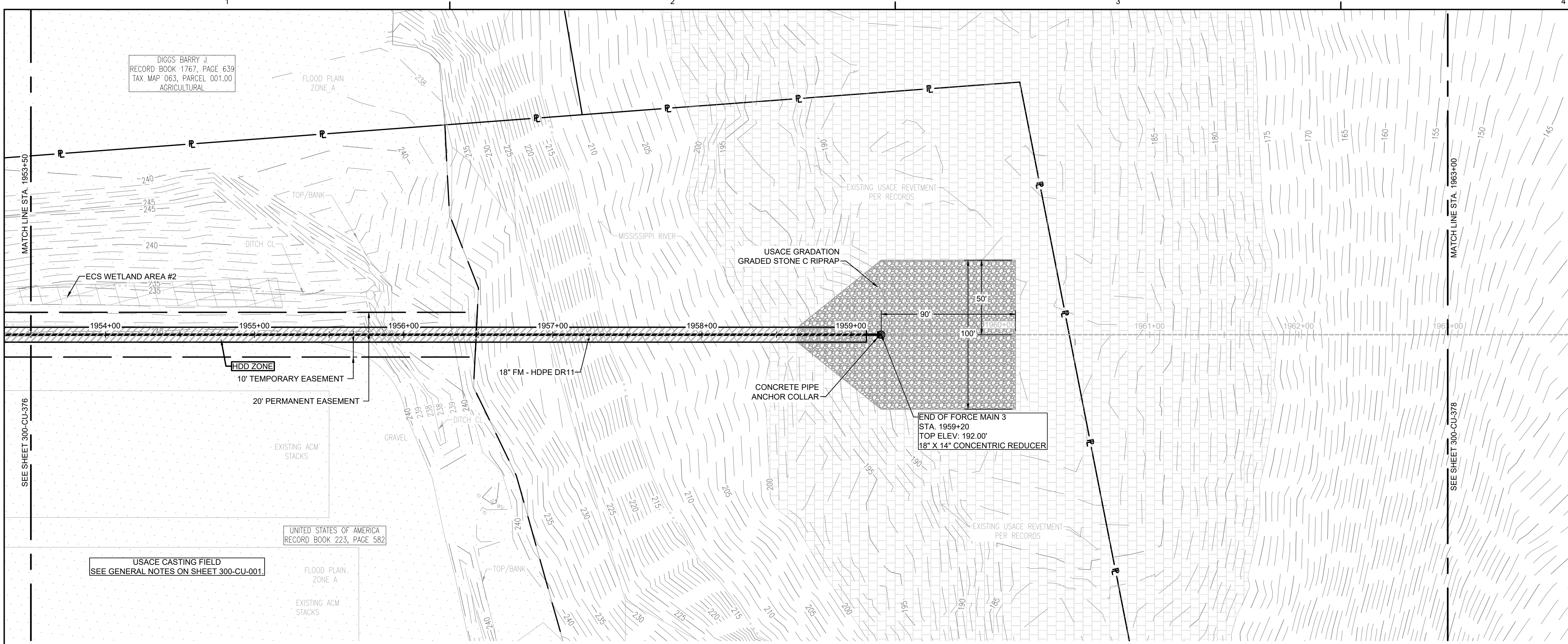
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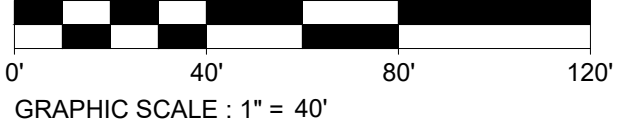
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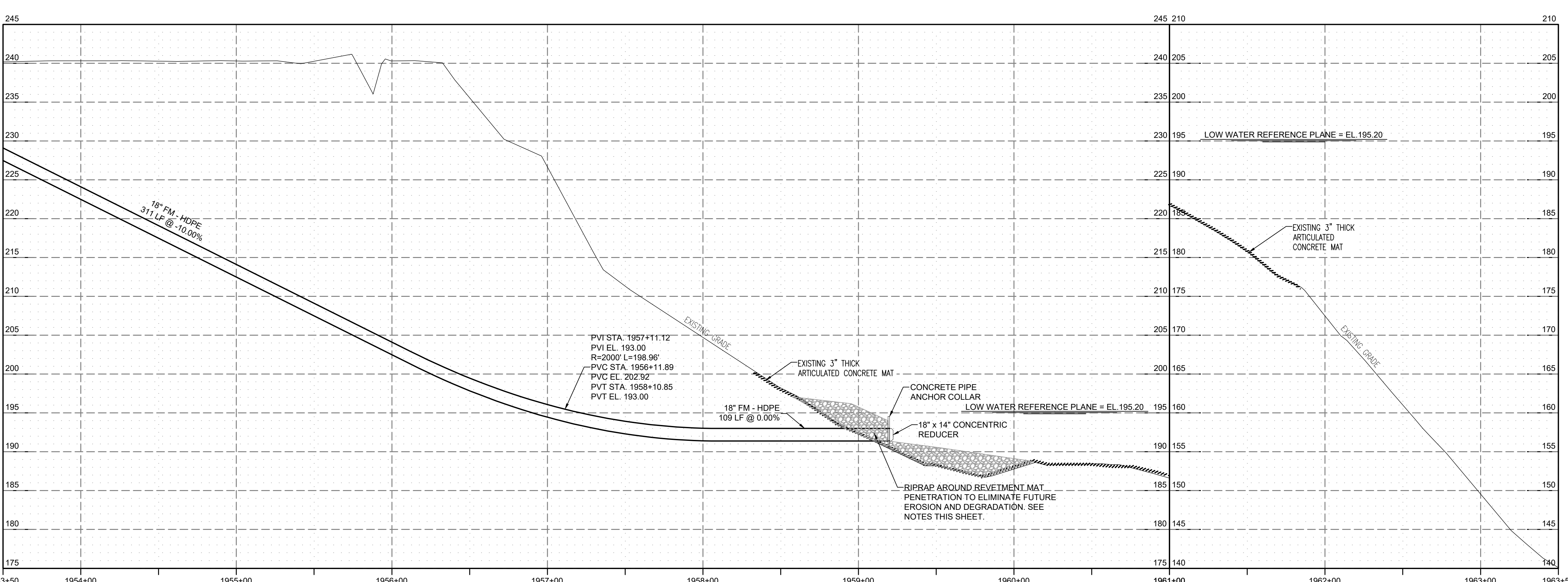


**PLAN AND PROFILE
STA. 1953+50.00 TO 1963+00.00**

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=8'



240.3	244.10	240.3	219.10	240.3	214.10	240.3	209.11	240.3	204.11	235.6	199.48	226.7	196.07	211.3	193.93	204.7	193.03	198.2	193.00	192.3	193.00	188.2	187.8	188.4	186.6	180.7	172.5	161.0	149.6
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USACE CASTING FIELD NOTES:

1. THE FORCE MAIN CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION ACTIVITY OR ENTER THE USACE CASTING FIELD PROPERTY WITHOUT PRIOR APPROVAL BY THE OWNER OR THE CURRENT MAT CASTING CONTRACTOR ON SITE. IF GRANTED ACCESS AND PERMISSION FOR CONSTRUCTION, THE FORCE MAIN CONTRACTOR IS TO NOT IMPACT THE DAILY MAT PRODUCTION OF THE CURRENT MAT CASTING CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULE WITH OWNER AND THE MAT CASTING CONTRACTOR A MINIMUM OF 60 DAYS PRIOR TO MOBILIZING TO THE SITE AREA.
3. CONTRACTOR SHALL NOT DISTURB OR DAMAGE ANY EXISTING SURVEY CONTROL MONUMENTS ON THE USACE CASTING FIELD PROPERTY. IF MONUMENT IS WITHIN CONSTRUCTION AREA, CONTRACTOR IS TO NOTIFY THE OWNER PRIOR TO START OF CONSTRUCTION.
4. CONTRACTOR SHALL NOT DISTURB OR RELOCATE ANY EXISTING STACK OF ARTICULATED CONCRETE MATS (ACM). CONTRACTOR SHALL CONTACT OWNER AND CURRENT MAT CASTING CONTRACTOR IF CONFLICTS ARISE.
5. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO START OF CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL DISTURBED AREAS BACK TO ORIGINAL OR BETTER CONDITIONS AND MUST MATCH ALL EXISTING GRADE ELEVATIONS. THE DETENTION POND OUTLET STRUCTURE (IF DISTURBED) MUST BE RESET TO MATCH EXISTING RIM AND PIPE INVERT ELEVATIONS.
7. CONTRACTOR TO PROVIDE MEMPHIS DISTRICT USACE WITH MULTI-BEAM SURVEY OF THE MISSISSIPPI RIVER BANK AND RIVER BOTTOM PRIOR TO AND IMMEDIATELY FOLLOWING CONSTRUCTION OF THE FORCE MAIN OUTFALL. THE SURVEY SHALL INCLUDE AT MINIMUM THE ENTIRE LIMITS OF CONSTRUCTION INCLUDING THE ENTIRE LIMITS OF RIPRAP INSTALLED.

OUTFALL CONSTRUCTION NOTES:

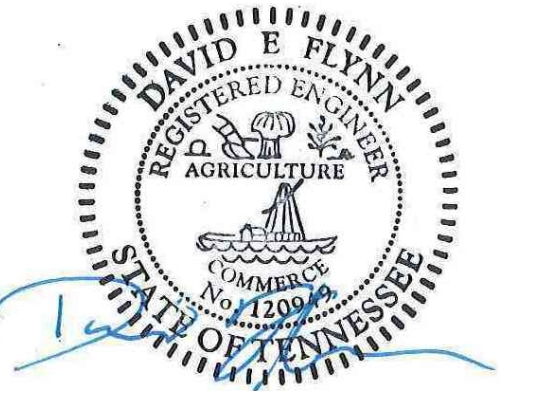
1. CONTRACTOR SHALL DEVELOP AND SUPPLY OWNER WITH A CONSTRUCTION SCHEDULE AND DETAILED PLAN OF INSTALLATION/REVETMENT MAT PENETRATION PRIOR TO START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEARLY DEFINE ALL MEANS AND METHODS TO INSTALL THE FORCE MAIN THROUGH THE REVETMENT MAT.
2. THE PROPOSED RIPRAP LIMITS REPRESENT THE MINIMUM EXTENTS OF THE OUTFALL RIPRAP PROTECTION. RIPRAP SHALL EXTEND A MINIMUM OF 50' IN ALL DIRECTIONS BEYOND THE REVETMENT MAT DAMAGED AREA AT A MINIMUM THICKNESS OF 4'.
3. CONTRACTOR SHALL PLACE RIP-RAP IN A MANNER THAT DOES NOT CAUSE SEGREGATION OF THE STONE SIZES. STONE SHALL BE PLACED STARTING FROM THE LOWEST ELEVATION (BOTTOM OF SLOPE/DISCHARGE) LOCATION AND WORK UP TO THE HIGHEST ELEVATION TO MINIMIZE VOID SPACES. UTILIZING GLASS SHELL OR ORANGE PEEL BUCKETS IS RECOMMENDED FOR EVEN PLACEMENT.
4. THE FINISHED GRADE OF THE RIP-RAP SHALL BLEND WITH THE SURROUNDING AREA AND BE PLACED AT A SLOPE NO GREATER THAN 10H:1V.
5. ALL RIPRAP SHALL BE USACE GRADATION GRADED STONE C AS DESCRIBED IN THE TABLE BELOW.

STONE WEIGHT (LBS)	CUMULATIVE % FINER BY WEIGHT
400	100
250	70-95
100	50-80
30	32-58
5	15-34
1	0-15

NOTE:
5% OF THE MATERIAL CAN WEIGH MORE THAN 400 LBS. HOWEVER, NO PIECE SHALL WEIGH MORE THAN 500 POUNDS.



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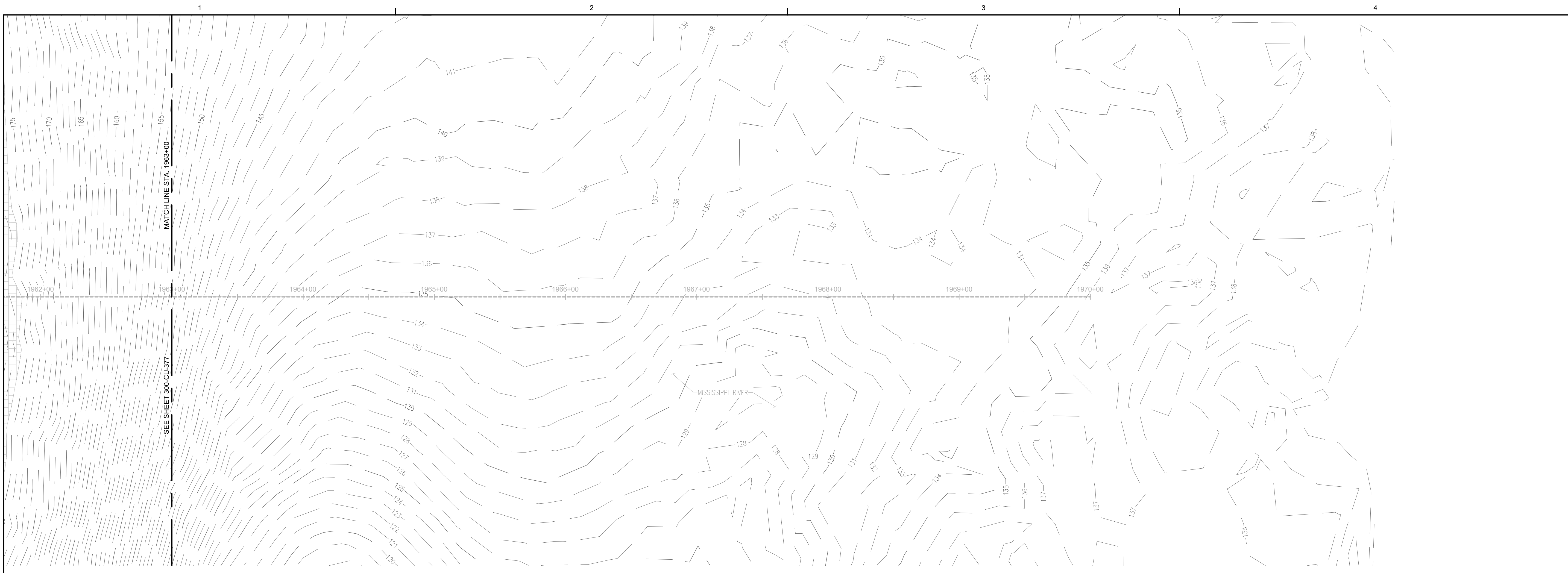
PROJECT NO: **012-02080-16**
PROJECT MANAGER: **D. HIBDON**
DESIGNED: **D. FLYNN**
CHECKED: **C. HARTMAN**

DRAWING TITLE:
**FORCE MAIN
PLAN AND PROFILE
STA. 1953+50.00 TO 1963+00.00**

DRAWING NO:
300-CU-377

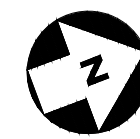
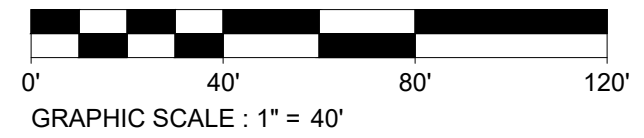


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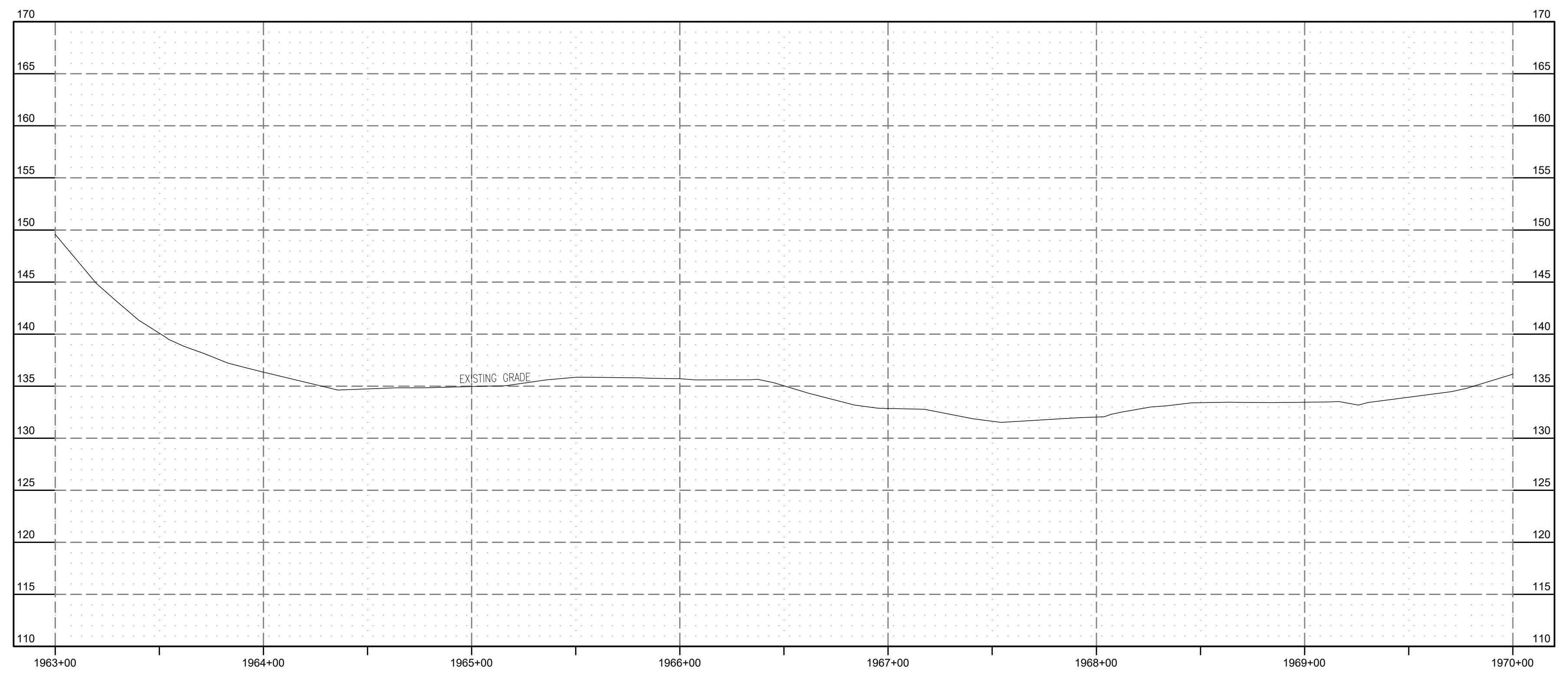


**PLAN AND PROFILE
STA. 1963+00.00 TO 1970+00.00**

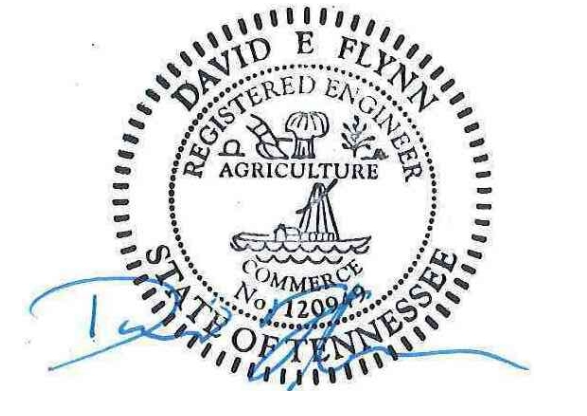
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=8'



140.1	138.3	134.7	135.0	135.8	135.7	135.0	132.9	131.6	132.0	133.4	133.4	133.9		EXISTING GRADE TOP OF PIPE
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STA. 1963+00.00 TO 1970+00.00**

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300-CU-378



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