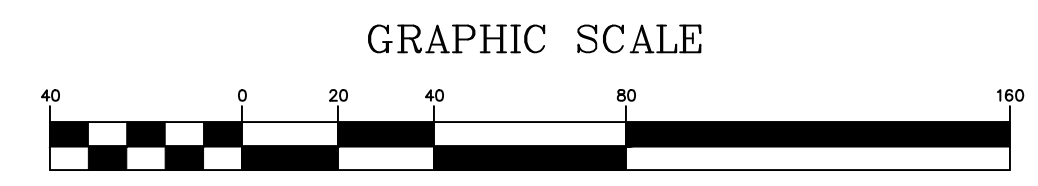


-PLAN-  
SCALE: 1" = 40'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.

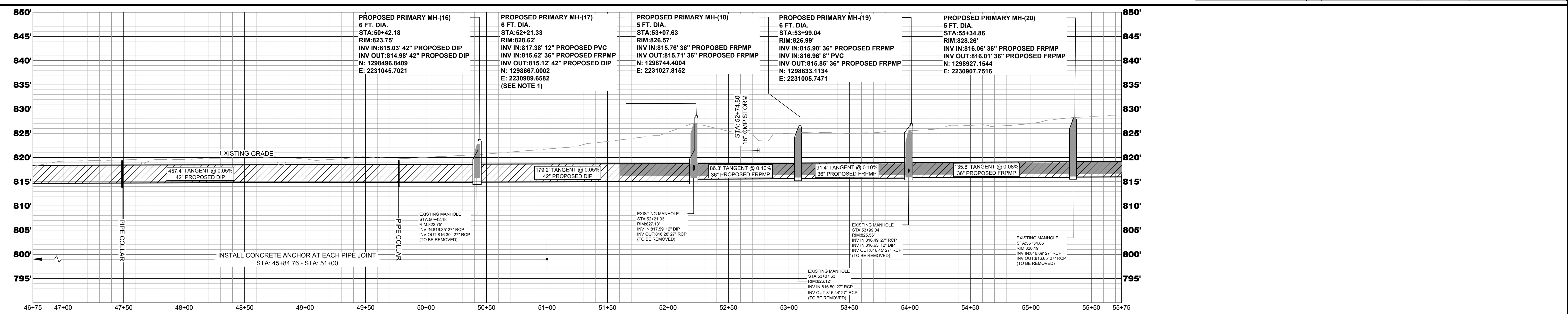


THE GRAPHICAL SCALE IS SHOWN ONLY FOR PERMITTING REQUIREMENTS. THE GRAPHICAL SCALE SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

-PROFILE-  
SCALE: HORIZ. 1" = 40'  
VERT. 1" = 10'



LEGEND	
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING STREET SIGN
	EXISTING LAMP POST
	EXISTING UTILITY POLE
	EXISTING POWER TRANSFORMER
	EXISTING TELEPHONE MANHOLE
	EXISTING STORM JUNCTION BOX
	EXISTING STORM CATCH BASIN
	EXISTING STORM DROP INLET
	GULLY WIRE
	IRON PIN/PROPERTY CORNER MARKER
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING GAS METER
	EXISTING WATER METER
	CORRUGATED METAL PIPE
	REINFORCED CONCRETE PIPE
	DUCTILE IRON PIPE
	EROSION MATTING AND BLANKETS
	CONSTRUCTION EXIT
	HAY BALE CHECK DAM
	STONE CHECK DAM
	CHANNEL STABILIZATION WITH RIP-RAP
	STREAM BANK STABILIZATION WITH RIP-RAP & LIVE STAKING
	PIPE OUTLET TO FLAT AREA
	DROP INLET SEDIMENT TRAP
	FILTER FABRIC WITH SUPPORTING FRAME
	CURB INLET SEDIMENT TRAP
	TEMPORARY/PERMANENT VEGETATION COVER
	CONCRETE WASHOUT STRUCTURE
	SLOPE STABILIZATION
	EXISTING GAS MAIN & SIZE
	25' STREAM BUFFER (STATE)
	50' STREAM BUFFER (COUNTY)
	WETLAND LIMITS
	100 YEAR FLOOD ELEVATION
	EXISTING FENCE
	LAND LOT LINE
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING UNDERGROUND POWER LINES
	EXISTING OVERHEAD POWER LINES
	EXISTING TELEPHONE
	EXISTING UNDERGROUND CABLE TV
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN OR SERVICE
	PROPOSED SEWER MAIN
	DEMOLITION/REPLACE PIPE AND MANHOLE
	DEMOLITION/GROUT FILL
	DEMOLITION/GRAVEL FILL
	SILT FENCE TYPE AS SPECIFIED
	CONSTRUCTION LIMITS



**PLANS PREPARED BY:**

**CLAYTON COUNTY WATER AUTHORITY**  
1600 BATTLE CREEK ROAD  
MORROW, GEORGIA 30260

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**PROJECT NAME:**

**FLINT RIVER OUTFALL REPLACEMENT PHASE 3**

LAND LOT 173, 148, 141, 140, 117  
DISTRICT 13 CLAYTON COUNTY, GEORGIA

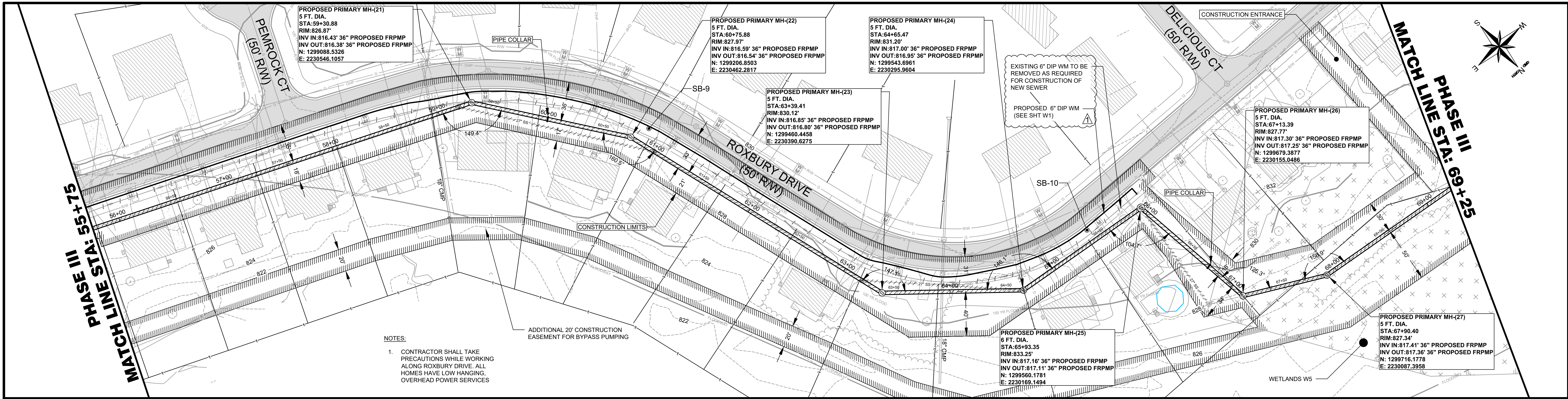
**SEAL:**

**REVISIONS:**

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
8/27/19	1	CCWA	ADDENDUM #1

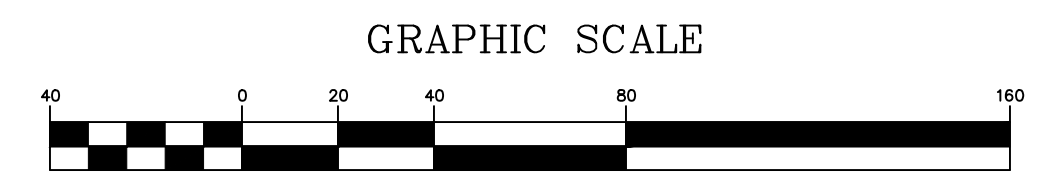
**SHEET TITLE: PLAN AND PROFILE**

DESIGN BY:	DATE:	JULY 2019
CCWA	JOB #:	81711
DRAWN BY:	DRAWING #:	P-5
ESI	SCALE:	1" = 40'
CHECKED BY:	SHEET NUMBER	10 OF 36



**-PLAN-**  
SCALE: 1" = 40'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.

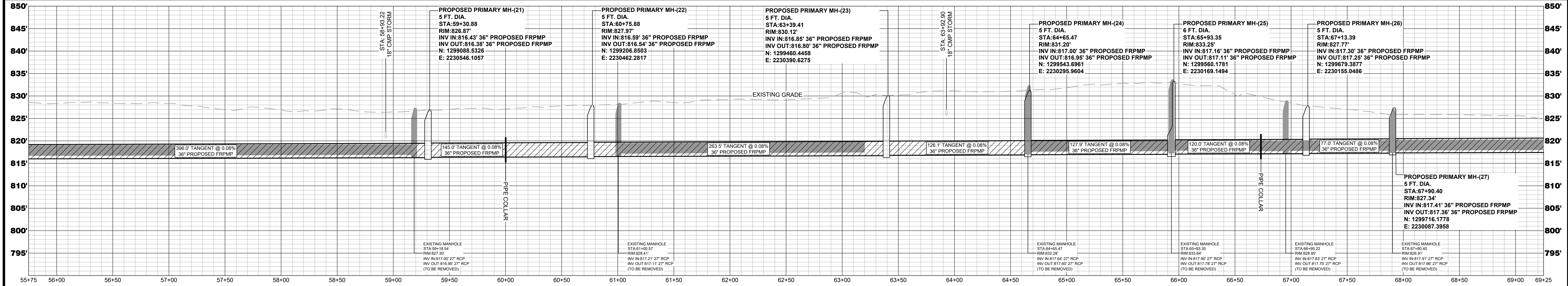


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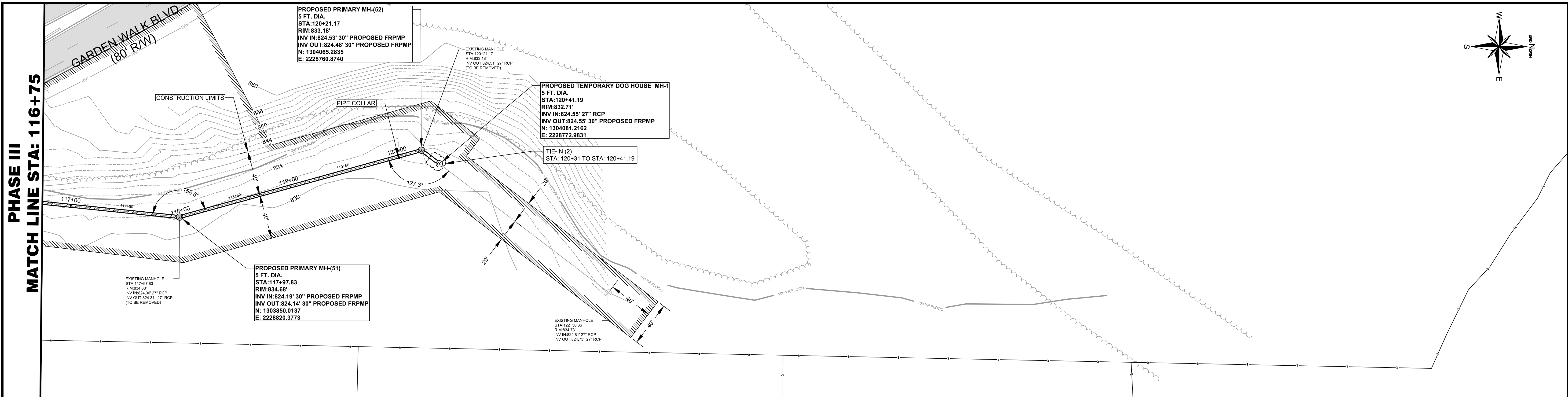
**-PROFILE-**  
SCALE: HORIZ. 1" = 40'  
VERT. 1" = 10'



LEGEND	
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING STREET SIGN
	EXISTING LAMP POST
	EXISTING UTILITY POLE
	EXISTING POWER TRANSFORMER
	EXISTING TELEPHONE MANHOLE
	EXISTING STORM JUNCTION BOX
	EXISTING STORM CATCH BASIN
	EXISTING STORM DROP INLET
	GULLY WIRE
	IRON PIN/PROPERTY CORNER MARKER
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING GAS METER
	EXISTING WATER METER
	CORRUGATED METAL PIPE
	REINFORCED CONCRETE PIPE
	DUCTILE IRON PIPE
	EROSION MATTING AND BLANKETS
	CONSTRUCTION EXIT
	HAY BALE CHECK DAM
	STONE CHECK DAM
	CHANNEL STABILIZATION WITH RIP-RAP
	STREAM BANK STABILIZATION WITH RIP-RAP & LIVE STAKING
	PIPE OUTLET TO FLAT AREA
	DROP INLET SEDIMENT TRAP
	FILTER FABRIC WITH SUPPORTING FRAME
	CURB INLET SEDIMENT TRAP
	TEMPORARY/PERMANENT VEGETATION COVER
	CONCRETE WASHOUT STRUCTURE
	SLOPE STABILIZATION
	EXISTING GAS MAIN & SIZE
	20' STREAM BUFFER (STATE)
	50' STREAM BUFFER (COUNTY)
	WETLAND LIMITS
	100 YEAR FLOOD ELEVATION
	EXISTING FENCE
	LAND LOT LINE
	PROPERTY LINE
	RIGHT OF WAY
	EXISTING UNDERGROUND POWER LINES
	EXISTING OVERHEAD POWER LINES
	EXISTING TELEPHONE
	EXISTING UNDERGROUND CABLE TV
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN OR SERVICE
	PROPOSED SEWER MAIN
	DEMOLITION/REPLACE PIPE AND MANHOLE
	DEMOLITION/GROUT FILL
	DEMOLITION/GRAVEL FILL
	SILT FENCE TYPE AS SPECIFIED
	CONSTRUCTION LIMITS

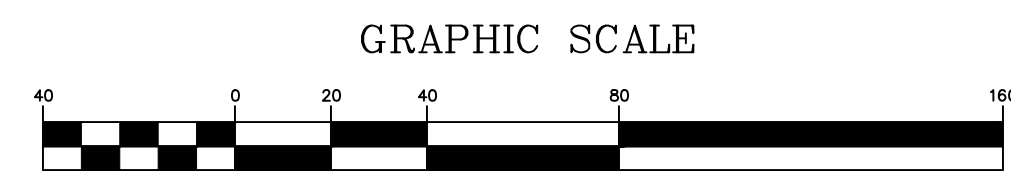


<p><b>CLAYTON COUNTY WATER AUTHORITY</b> 1600 BATTLE CREEK ROAD MORROW, GEORGIA 30260</p>	<p>THESE DRAWINGS ARE THE PROPERTY OF CLAYTON COUNTY WATER AUTHORITY AND MAY NOT BE REPRODUCED, COPIED, OR OTHERWISE REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF CLAYTON COUNTY WATER AUTHORITY. THE ACCEPTANCE OF THESE DRAWINGS SHALL BE CONSTRUED AS AN ACCEPTANCE OF THE FOREGOING AGREEMENT.</p>	<p><b>PROJECT NAME:</b> <b>FLINT RIVER OUTFALL REPLACEMENT PHASE 3</b></p> <p>LAND LOT 173, 148, 141, 140, 117 DISTRICT 13 CLAYTON COUNTY, GEORGIA</p>	<p><b>SEAL:</b></p>	<p><b>PLANS PREPARED BY:</b></p>	<p><b>REVISIONS:</b></p> <table border="1"> <thead> <tr> <th>DATE:</th> <th>NO.:</th> <th>REQUESTED BY:</th> <th>DESCRIPTION:</th> </tr> </thead> <tbody> <tr> <td>8/27/19</td> <td>1</td> <td>CCWA</td> <td>ADDENDUM #1</td> </tr> </tbody> </table>	DATE:	NO.:	REQUESTED BY:	DESCRIPTION:	8/27/19	1	CCWA	ADDENDUM #1	<p><b>SHEET TITLE: PLAN AND PROFILE</b></p> <table border="1"> <thead> <tr> <th>DESIGN BY:</th> <th>DATE:</th> <th>JULY 2019</th> </tr> </thead> <tbody> <tr> <td>CCWA</td> <td>JOB #:</td> <td>81711</td> </tr> <tr> <td>ESI</td> <td>DRAWING #:</td> <td>P-6</td> </tr> <tr> <td>CHECKED BY:</td> <td>SCALE:</td> <td>1" = 40'</td> </tr> <tr> <td></td> <td>SHEET NUMBER</td> <td>11 OF 36</td> </tr> </tbody> </table>	DESIGN BY:	DATE:	JULY 2019	CCWA	JOB #:	81711	ESI	DRAWING #:	P-6	CHECKED BY:	SCALE:	1" = 40'		SHEET NUMBER	11 OF 36
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	SHEET NUMBER	11 OF 36																											



-PLAN-  
SCALE: 1" = 40'

NOTE: SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLE.



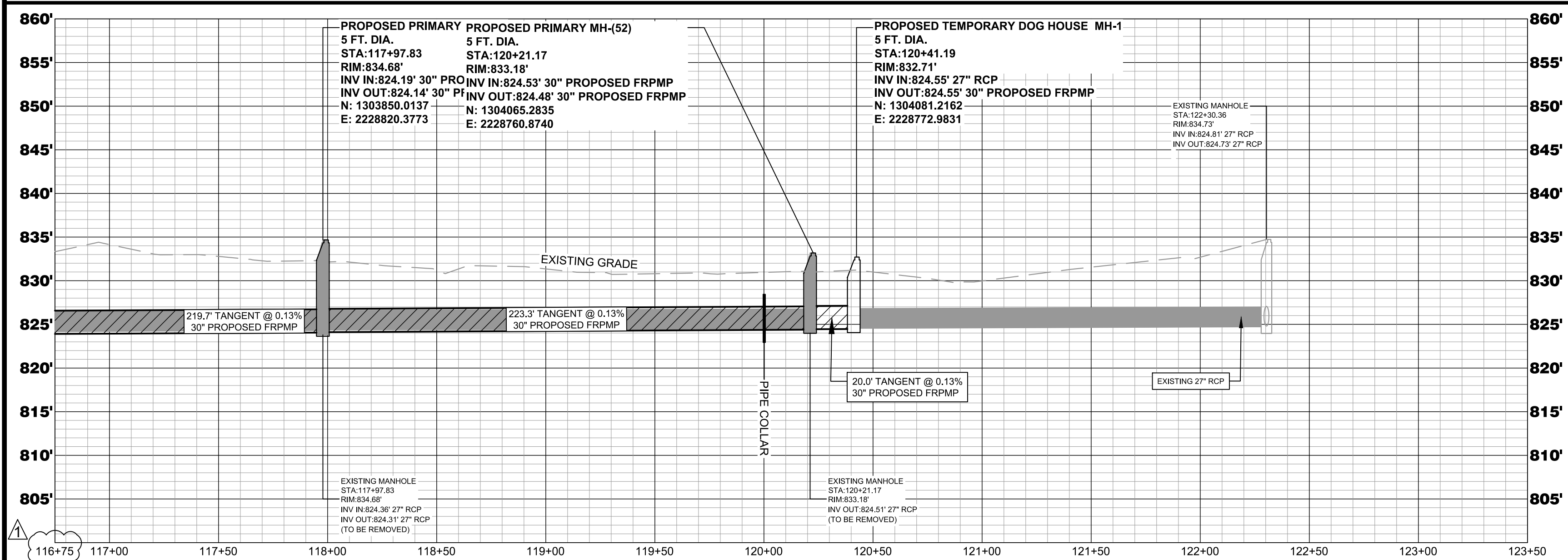
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-PROFILE-  
SCALE: HORZ. 1" = 40'  
VERT. 1" = 10'



Know what's below.  
Call before you dig.

LEGEND			
	EXISTING SANITARY SEWER MANHOLE	OMP	CORRUGATED METAL PIPE
	PROPOSED SANITARY SEWER MANHOLE	RCP	REINFORCED CONCRETE PIPE
	EXISTING WATER VALVE	DP	DUCTILE IRON PIPE
	EXISTING FIRE HYDRANT	EM	EROSION MATTING AND BLANKETS
	EXISTING STREET SIGN	CS	CONSTRUCTION SIGN
	EXISTING LAMP POST	CS	HAY BALE CHECK DAM
	EXISTING UTILITY POLE	CS	STONE CHECK DAM
	EXISTING POWER TRANSFORMER	CS	CHANNEL STABILIZATION WITH RIP-RAP
	EXISTING TELEPHONE MANHOLE	CS	STREAM BANK STABILIZATION RIP-RAP & LIVE STAKING
	EXISTING STORM JUNCTION BOX	CS	PIPE OUTLET TO FLAT AREA
	EXISTING STORM CATCH BASIN	CS	DROP INLET SEDIMENT TRAP
	EXISTING STORM DROP INLET	CS	FILTER FABRIC WITH SUPPORTING FRAME
	GULLY WIRE	CS	CURB INLET SEDIMENT TRAP
	IRON PIN/PROPERTY CORNER MARKER	CS	TEMPORARY/PERMANENT VEGETATION COVER
	EXISTING TRAFFIC SIGNAL BOX	CS	CONCRETE WASHOUT STRUCTURE
	EXISTING GAS METER	CS	SLOPE STABILIZATION
	EXISTING WATER METER	CS	
	EXISTING GAS MAIN & SIZE		
	25 FT. STREAM BUFFER (STATE)		
	50 FT. STREAM BUFFER (COUNTY)		
	WETLAND LIMITS		
	100 YEAR FLOOD ELEVATION		
	EXISTING FENCE		
	LAND LOT LINE		
	PROPERTY LINE		
	RIGHT OF WAY		
	EXISTING UNDERGROUND POWER LINES		
	EXISTING OVERHEAD POWER LINES		
	EXISTING TELEPHONE LINES		
	EXISTING UNDERGROUND CABLE TV		
	EXISTING SANITARY SEWER		
	EXISTING WATER MAIN OR SERVICE		
	PROPOSED SEWER MAIN		
	DEMOLITION/REMOVE PIPE AND MANHOLE		
	DEMOLITION/ GRAVEL FILL		
	SILT FENCE TYPE AS SPECIFIED		
	CONSTRUCTION LIMITS		



**PLANS PREPARED BY:**

**CLAYTON COUNTY WATER AUTHORITY**  
1600 BATTLE CREEK ROAD  
MORROW, GEORGIA 30260

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**PROJECT NAME:**

**FLINT RIVER OUTFALL REPLACEMENT PHASE 3**

LAND LOT 173, 148, 141, 140, 117  
DISTRICT 13 CLAYTON COUNTY, GEORGIA

**SEAL:**

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
8/27/19	1	CCWA	ADDENDUM #1

SHEET TITLE: PLAN AND PROFILE		
DESIGN BY:	DATE:	JULY 2019
CCWA	JOB #:	81711
ESI	DRAWING #:	P-11
CHECKED BY:	SCALE:	1" = 40'
	SHEET NUMBER	16 OF 36



LEGEND			
(Symbol)	EXISTING SANITARY SEWER MANHOLE	(Symbol)	CORRUGATED METAL PIPE
(Symbol)	PROPOSED SANITARY SEWER MANHOLE	(Symbol)	REINFORCED CONCRETE PIPE
(Symbol)	EXISTING WATER VALVE	(Symbol)	DUCTILE IRON PIPE
(Symbol)	EXISTING FIRE HYDRANT	(Symbol)	EROSION MATTING AND BLANKETS
(Symbol)	EXISTING STREET SIGN	(Symbol)	CONSTRUCTION EXIT
(Symbol)	EXISTING LAMP POST	(Symbol)	HAY BALE CHECK DAM
(Symbol)	EXISTING UTILITY POLE	(Symbol)	STONE CHECK DAM
(Symbol)	EXISTING POWER TRANSFORMER	(Symbol)	CHANNEL STABILIZATION WITH RIP-RAP
(Symbol)	EXISTING TELEPHONE MANHOLE	(Symbol)	STREAM BANK STABILIZATION RIP-RAP & LIVE STAKING
(Symbol)	EXISTING STORM JUNCTION BOX	(Symbol)	PIPE OUTLET TO FLAT AREA
(Symbol)	EXISTING STORM CATCH BASIN	(Symbol)	DROP INLET SEDIMENT TRAP
(Symbol)	EXISTING STORM DRAIN	(Symbol)	FILTER FABRIC WITH SUPPORTING FRAME
(Symbol)	GUY WIRE	(Symbol)	CURB INLET SEDIMENT TRAP
(Symbol)	IRON PIN/PROPERTY CORNER MARKER	(Symbol)	TEMPORARY PERMANENT VEGETATION COVER
(Symbol)	EXISTING GAS METER	(Symbol)	CONCRETE WASHOUT STRUCTURE
(Symbol)	EXISTING WATER METER	(Symbol)	SLOPE STABILIZATION
(Symbol)	EXISTING GAS MAIN & SIZE	(Symbol)	EXISTING 30' STREAM BUFFER (STATE)
(Symbol)	EXISTING 30' STREAM BUFFER (COUNTY)	(Symbol)	EXISTING 50' STREAM BUFFER (COUNTY)
(Symbol)	WETLAND LIMITS	(Symbol)	100 YEAR FLOOD ELEVATION
(Symbol)	100 YEAR FLOOD	(Symbol)	100 YEAR FLOOD ELEVATION
(Symbol)	LAND LOT LINE	(Symbol)	EXISTING FENCE
(Symbol)	PROPERTY LINE	(Symbol)	EXISTING OVERHEAD POWER LINES
(Symbol)	RIGHT OF WAY	(Symbol)	EXISTING UNDERGROUND POWER LINES
(Symbol)	EXISTING UNDERGROUND POWER LINES	(Symbol)	EXISTING TELEPHONE
(Symbol)	EXISTING TELEPHONE	(Symbol)	EXISTING UNDERGROUND CABLE TV
(Symbol)	EXISTING UNDERGROUND CABLE TV	(Symbol)	EXISTING SANITARY SEWER
(Symbol)	EXISTING SANITARY SEWER	(Symbol)	EXISTING WATER MAIN OR SERVICE
(Symbol)	EXISTING WATER MAIN OR SERVICE	(Symbol)	PROPOSED SEWER MAIN
(Symbol)	PROPOSED SEWER MAIN	(Symbol)	DEMOLITION / REMOVE PIPE AND MANHOLE
(Symbol)	DEMOLITION / REMOVE PIPE AND MANHOLE	(Symbol)	DEMOLITION / GROUT FILL
(Symbol)	DEMOLITION / GROUT FILL	(Symbol)	DEMOLITION / GRAVEL FILL
(Symbol)	DEMOLITION / GRAVEL FILL	(Symbol)	SILT FENCE TYPE AS SPECIFIED
(Symbol)	SILT FENCE TYPE AS SPECIFIED	(Symbol)	CONSTRUCTION LIMITS
(Symbol)	CONSTRUCTION LIMITS		

NOTE: 1) WHERE MANHOLE DEMOLITION IS SHOWN WITH GRAVEL FILL, REMOVE CONE AND RISER SECTION TO A DEPTH OF AT LEAST 3 FEET BELOW GRADE AND FILL REMANDER OF MANHOLE WITH GRAVEL. FILL VOID AREA WITH SOIL TO GRADE.

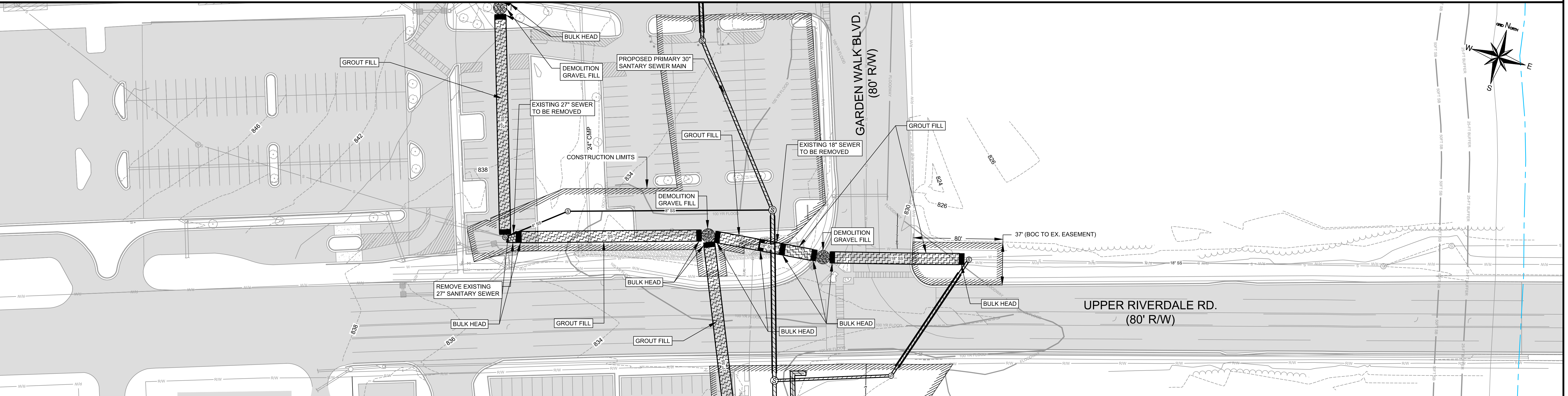


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— PLAN —  
SCALE: 1" = 40'



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1600 BATTLE CREEK ROAD  
MORROW, GEORGIA 30260

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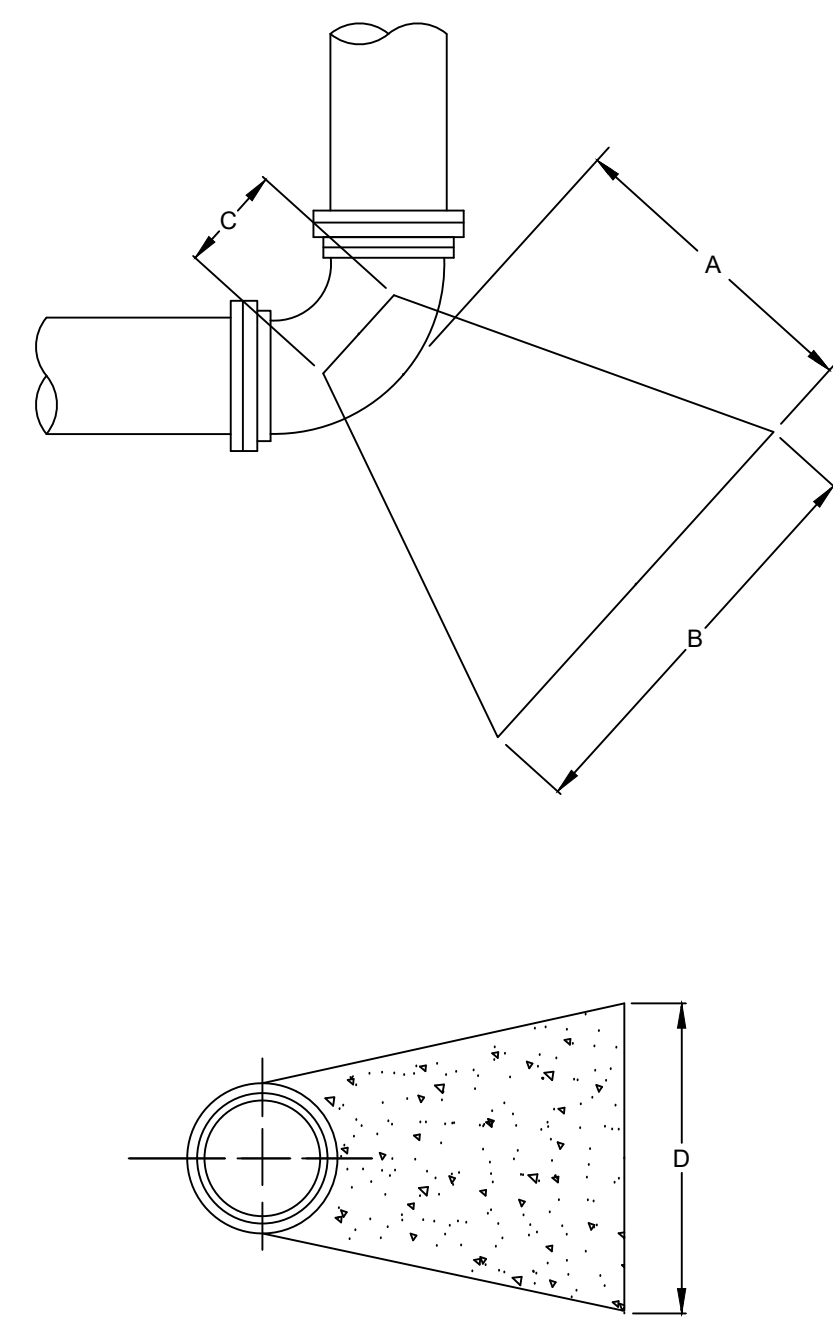
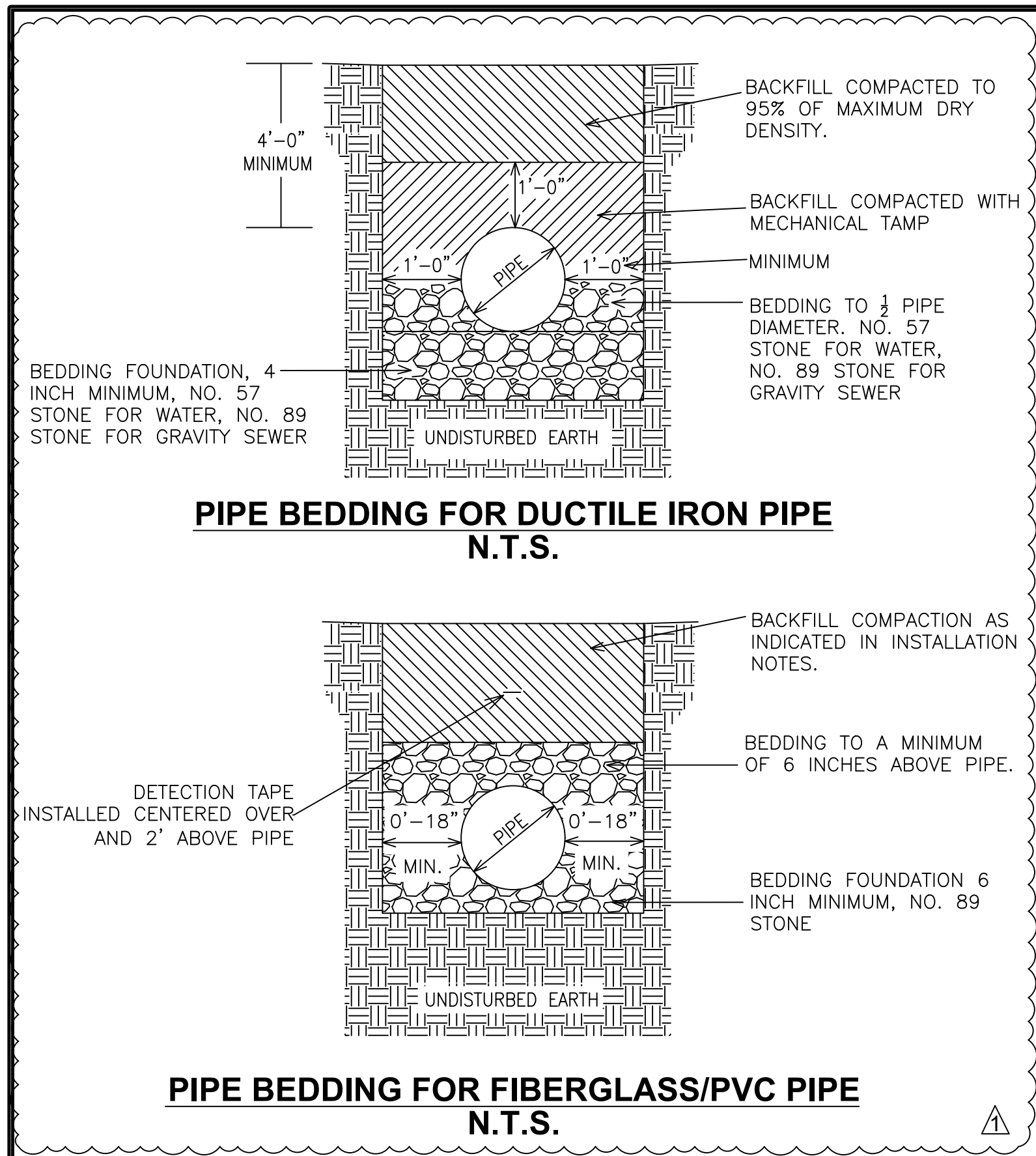
**PROJECT NAME:**  
**FLINT RIVER OUTFALL REPLACEMENT PHASE 3**

LAND LOT 173, 148, 141, 140, 117  
DISTRICT 13 CLAYTON COUNTY, GEORGIA

**SEAL:**

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
8/27/19	1	CCWA	ADDENDUM #1

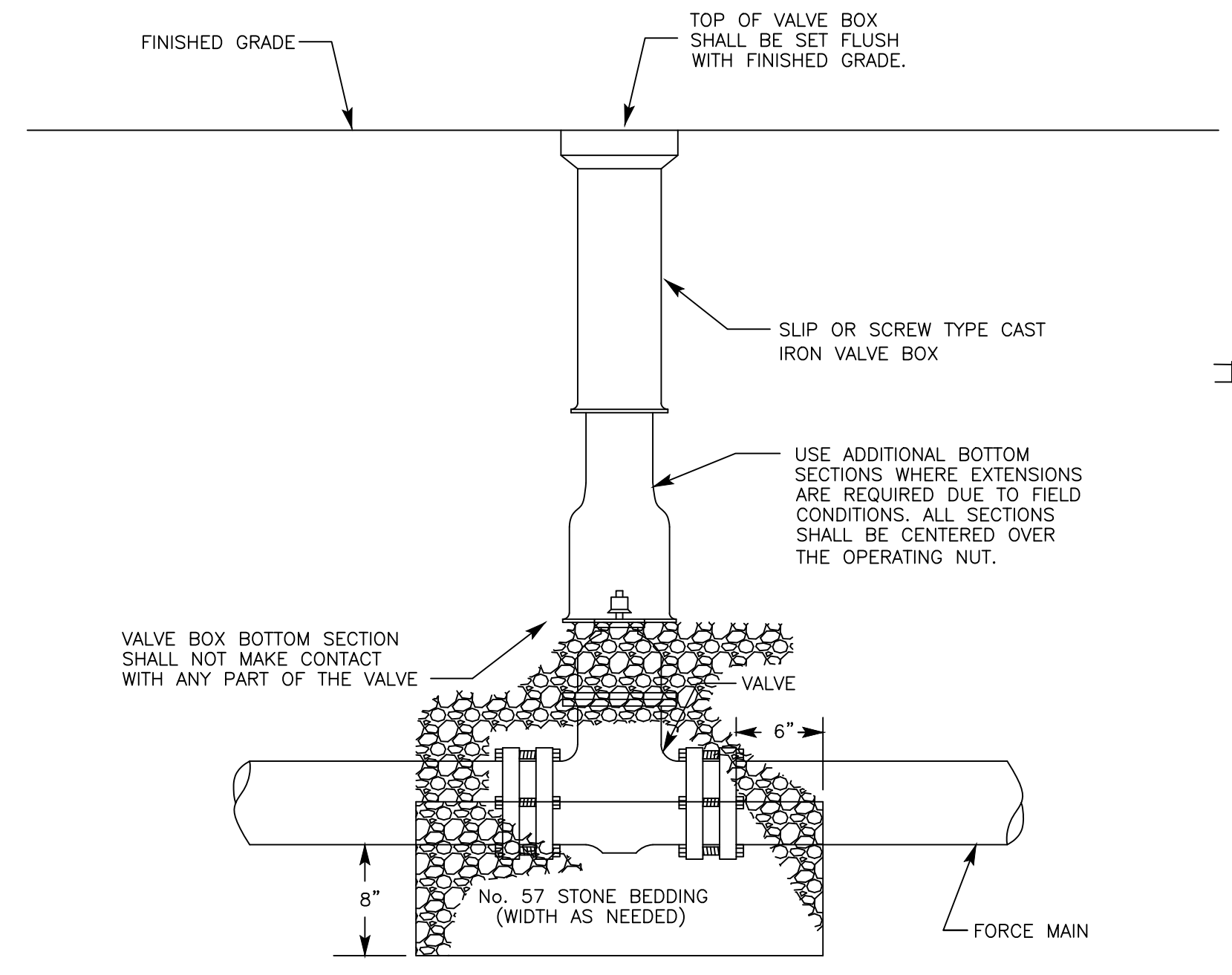
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DESIGN BY:	DATE:	JULY 2019
CCWA	JOB #:	81711
ESI	DRAWING #:	P-18
CHECKED BY:	SCALE:	1" = 40'
	SHEET NUMBER	24 OF 36



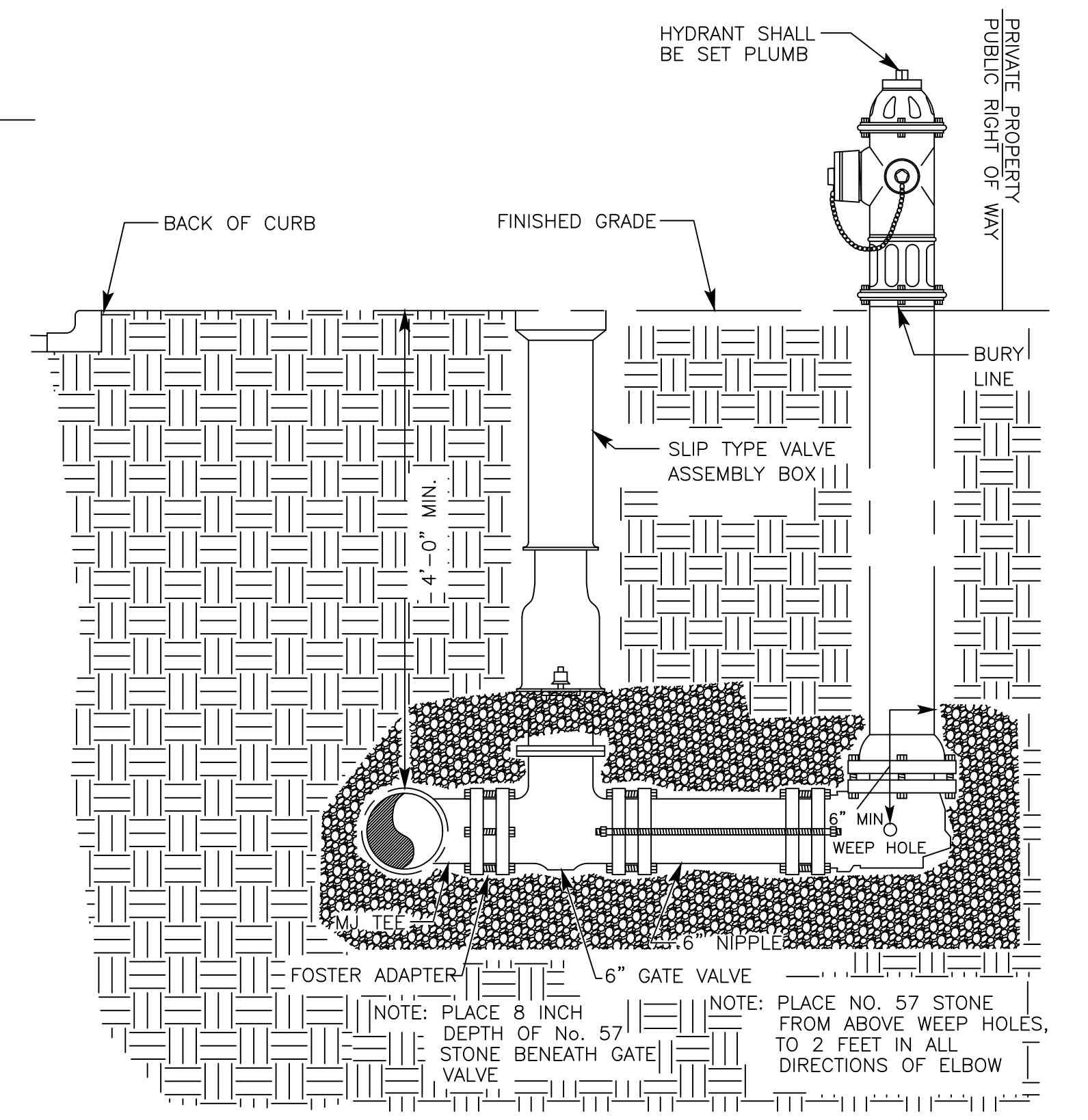
**MINIMUM DIMENSIONS FOR CONCRETE BLOCKING**

BEND	PIPE SIZE	A	B	C	D
11 1/4°	6"	1.0'	1.0'	7"	1.0'
	8"	1.0'	1.25'	7"	1.0'
	12"	1.0'	2.0'	11"	2.0'
	16"	2.0'	3.0'	15"	2.0'
22 1/2°	6"	1.0'	1.5'	7"	1.0'
	8"	1.0'	2.0'	7"	2.0'
	12"	2.0'	3.0'	11"	2.0'
	16"	2.0'	4.0'	15"	3.0'
45°	6"	1.5'	2.0'	7"	1.5'
	8"	2.0'	3.0'	7"	2.0'
	12"	2.0'	4.0'	11"	3.0'
	16"	3.0'	5.0'	15"	4.0'
90°	6"	1.5'	2.5'	7"	2.0'
	8"	2.0'	3.0'	7"	3.0'
	12"	4.0'	6.0'	11"	4.0'
	16"	4.0'	7.0'	15"	5.0'
TEES AND PLUGS	6"	1.5'	2.0'	7"	2.0'
	8"	2.0'	3.0'	7"	3.0'
	12"	2.0'	4.0'	11"	4.0'
	16"	3.0'	5.0'	15"	5.0'

- NOTES:**
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
  - THRUST BLOCK SHALL BE POURED AGAINST UNDISTURBED SOIL.
  - BOLTS/NUTS SHALL BE PROTECTED FROM CONCRETE COVERAGE.



NOTE: VALVE BOX SHALL NOT BE SET IN A DEPRESSED AREA.

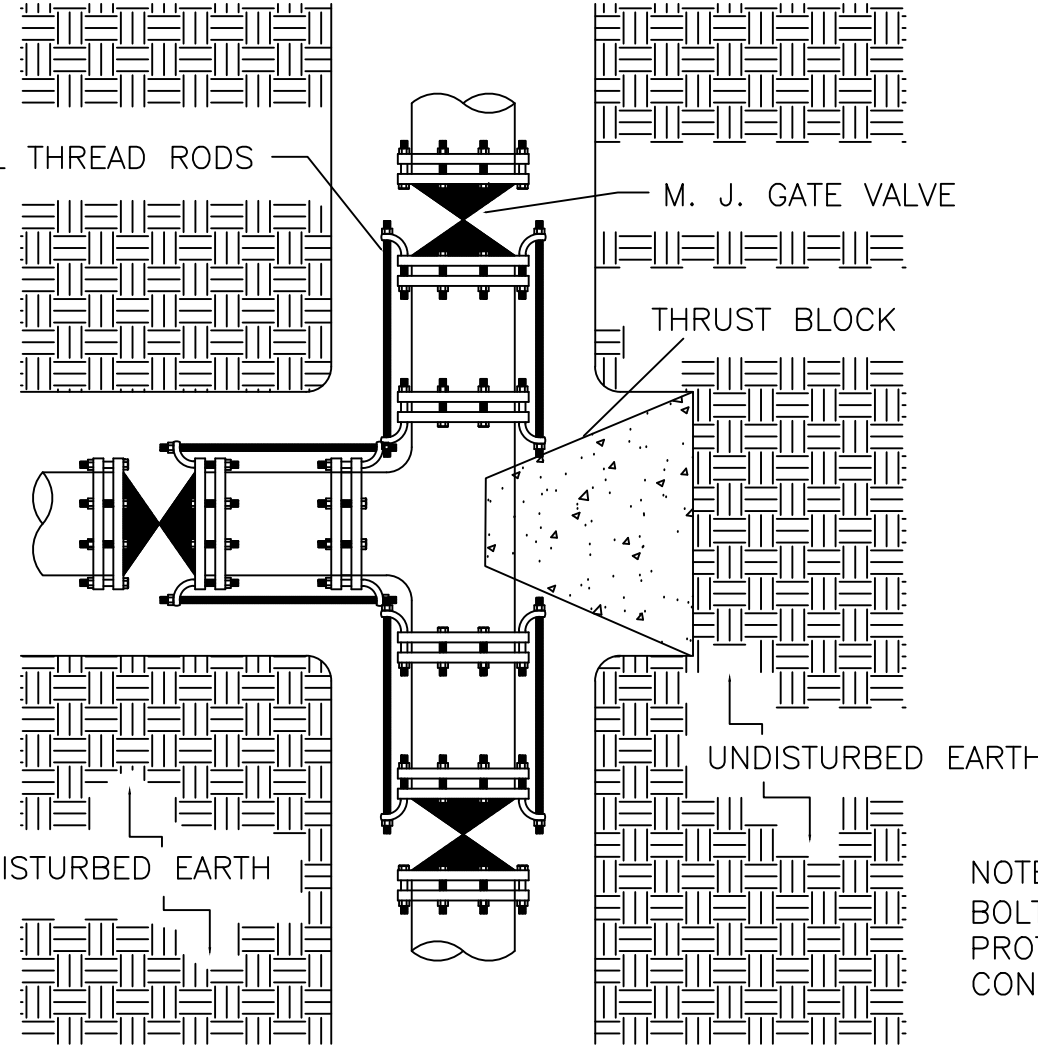


NOTE: PLACE 8 INCH DEPTH OF No. 57 STONE BENEATH GATE VALVE

NOTE: PLACE NO. 57 STONE FROM ABOVE WEEP HOLES, TO 2 FEET IN ALL DIRECTIONS OF ELBOW

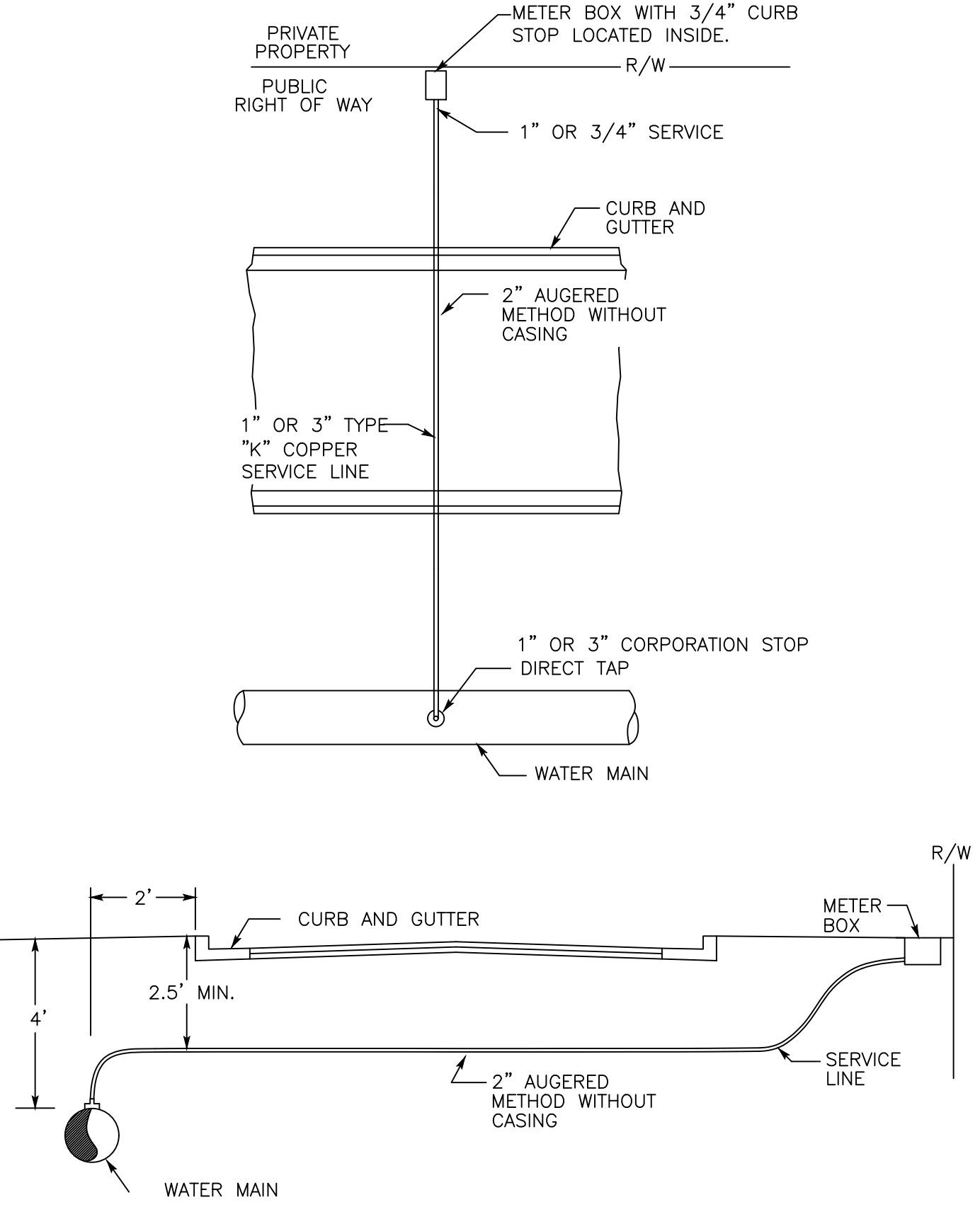
**THRUST RESTRAINT CONCRETE BLOCK**

**TEE INSTALLATION**

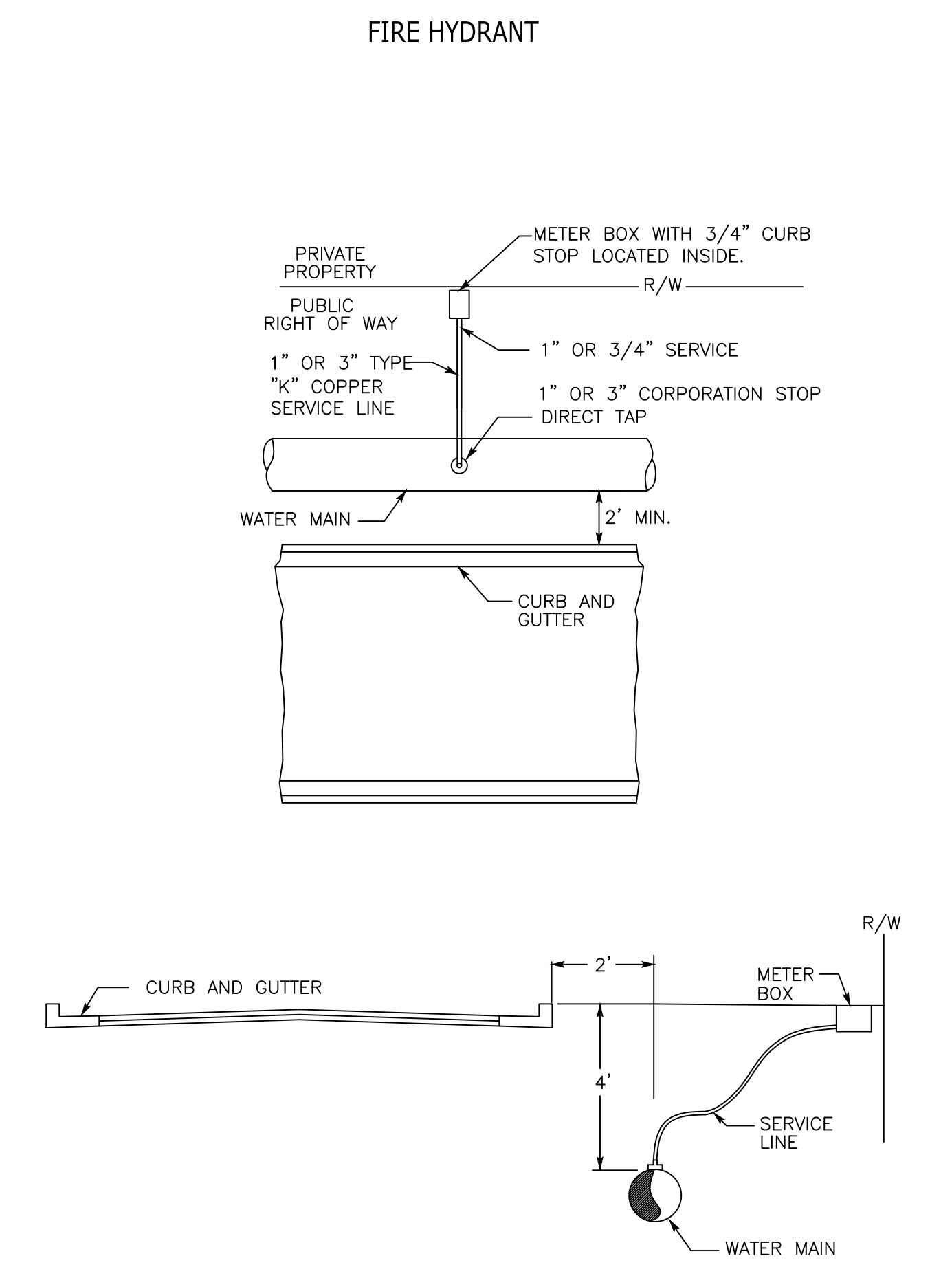


NOTE: BOLTS/NUTS SHALL BE PROTECTED FROM CONCRETE COVERAGE

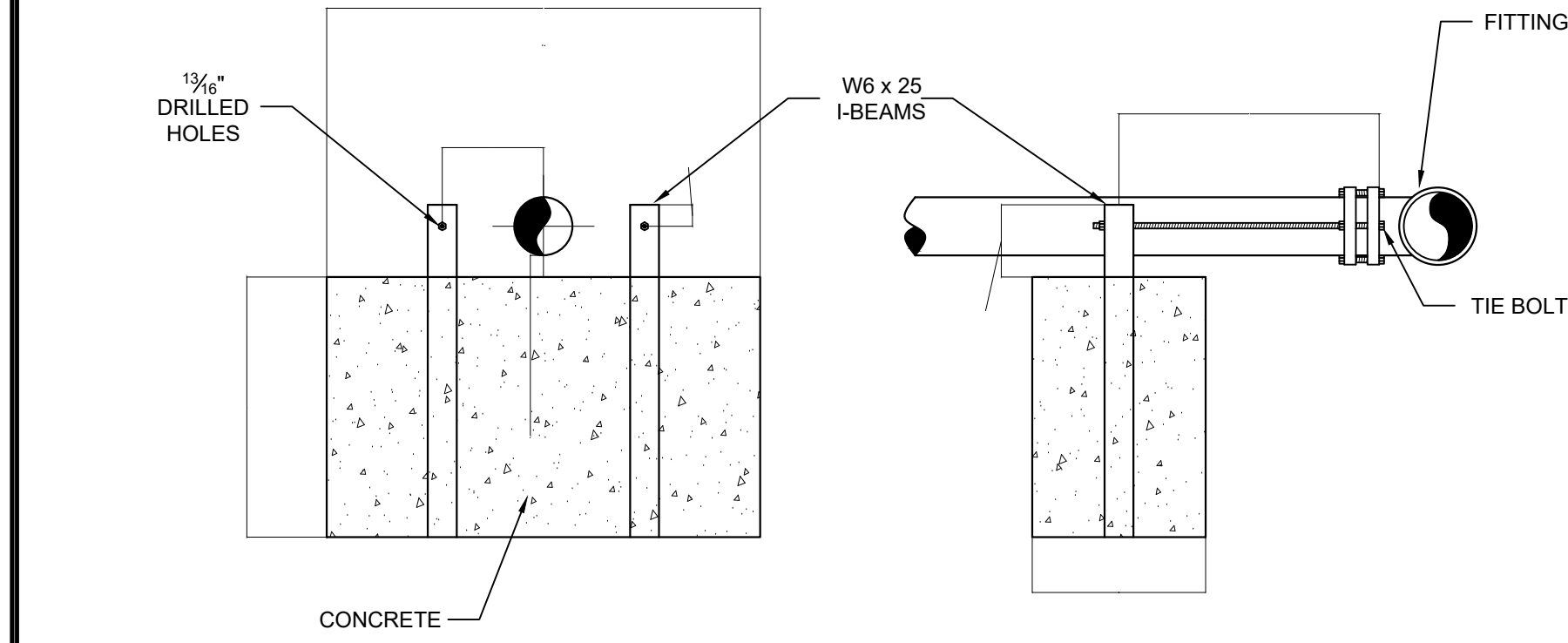
**THRUST RESTRAINT AT FITTING**



**LONG SIDE SERVICE**



**SHORT SIDE SERVICE**



**THRUST RESTRAINT CONCRETE TIE-BACK**

- PIPE SIZES 6" AND 8" REQUIRE 2 RODS. PIPE SIZES 10" AND 12" REQUIRE 4 RODS.
- 3/8" RODS AND NUTS 316 STAINLESS STEEL.
- RODS TO HAVE VISIBLE THREADS BEYOND NUT.
- I-BEAMS, EXPOSED TO SOIL, SHALL BE CLEANED AND COATED WITH ROYSTON ROSKOTE, CARBOLINE BITUMASTIC 300M, OR APPROVED EQUAL.
- CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH.

**PLANS PREPARED BY:**

**CLAYTON COUNTY WATER AUTHORITY**  
 1600 BATTLE CREEK ROAD  
 MORROW, GEORGIA 30260

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**PROJECT NAME:**

**FLINT RIVER OUTFALL REPLACEMENT PHASE 3**

LAND LOT 173, 148, 141, 140, 117  
 DISTRICT 13 CLAYTON COUNTY, GEORGIA

**SEAL:**

**REVISIONS:**

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
8/27/19	1	CCWA	ADDENDUM #1

**SHEET TITLE: CONSTRUCTION DETAILS (2 OF 2)**

DESIGN BY:	DATE:	JULY 2019
CCWA	JOB #:	81711
DRAWN BY:	DRAWING #:	P-20
ESI	SCALE:	1" = 40'
CHECKED BY:	SHEET NUMBER	26 OF 36