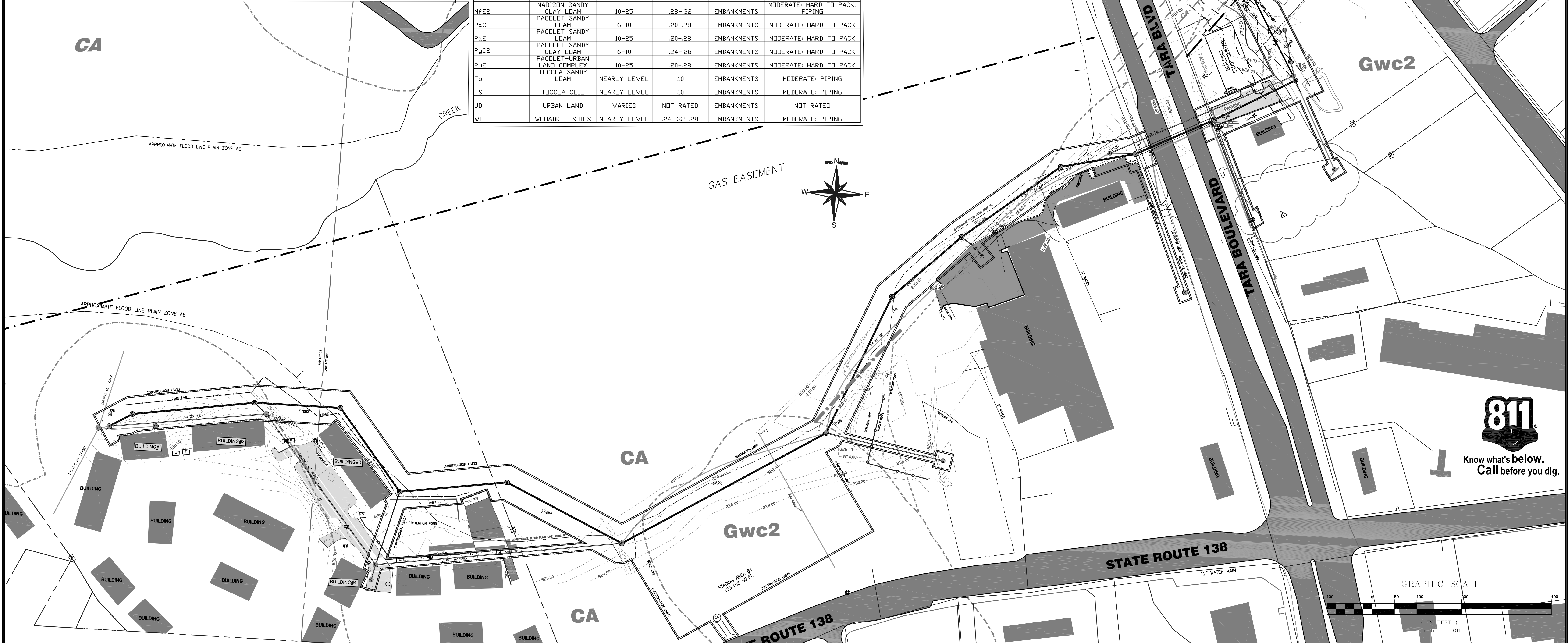


LEGEND	
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING STREET SIGN
	EXISTING LAMP POST
	EXISTING UTILITY POLE
	EXISTING POWER TRANSFORMER
	EXISTING TELEPHONE MANHOLE
	EXISTING STORM JUNCTION BOX
	EXISTING STORM HEADWALL
	EXISTING STORM CATCH BASIN
	EXISTING STORM DROP INLET
	EXISTING TELEPHONE SWITCH BOX
	TELEPHONE CABLE MARKER
	EXISTING GUIDE WIRE
	ROCK PROPERTY CORNER MARKER
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING GAS METER
	EXISTING GAS VALVE
	RIGHT OF WAY
	PROPERTY LINE
	EDGE OF PAVEMENT
	EXISTING MAIL BOX
	EXISTING WATER METER
	EXISTING FIRE HYDRANT
	EXISTING STREET SIGN
	EXISTING LAMP POST
	EXISTING UTILITY POLE
	EXISTING POWER TRANSFORMER
	EXISTING TELEPHONE MANHOLE
	EXISTING STORM JUNCTION BOX
	EXISTING STORM HEADWALL
	EXISTING STORM CATCH BASIN
	EXISTING STORM DROP INLET
	EXISTING TELEPHONE SWITCH BOX
	TELEPHONE CABLE MARKER
	EXISTING GUIDE WIRE
	ROCK PROPERTY CORNER MARKER
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING GAS METER
	EXISTING GAS VALVE
	RIGHT OF WAY
	PROPERTY LINE

SOILS INFORMATION (WATER MANAGEMENT)					
SOILS SYMBOLS	NAME	SLOPE %	K	LIMITATION	REASON FOR LIMITATION
AmB	APPLING SANDY LOAM	2-6	.24-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AnC	APPLING SANDY CLAY LOAM	6-10	.24-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AnC2	APPLING SANDY CLAY LOAM	6-10	.20-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AsC	APPLING SANDY LOAM	2-10	.24-.43	EMBANKMENTS	SEVERE: THIN LAYER, SEEPAGE
AtE	ASHLUR SANDY LOAM VERY ROCKY	10-25	.24-.43	EMBANKMENTS	SEVERE: THIN LAYER, SEEPAGE
CA	CARTECAY SOILS	NEARLY LEVEL	.32-.24	EMBANKMENTS	MODERATE: PIPING
CeB	CECIL SANDY LOAM	2-6	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CeC	CECIL SANDY LOAM	6-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CFC2	CECIL SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CuC	CECIL-URBAN LAND COMPLEX	2-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
GeB	GWINNETT SANDY LOAM	2-6	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwC2	GWINNETT SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwC3	GWINNETT SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwE2	GWINNETT SANDY CLAY LOAM	10-25	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
MdB	MADISON SANDY LOAM	2-6	.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MdC	MADISON SANDY LOAM	6-10	.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MFC2	MADISON SANDY CLAY LOAM	6-10	.28-.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MFE2	MADISON SANDY CLAY LOAM	10-25	.28-.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
PaC	PACOLET SANDY LOAM	6-10	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PaE	PACOLET SANDY LOAM	10-25	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PgC2	PACOLET SANDY CLAY LOAM	6-10	.24-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PuE	PACOLET-URBAN LAND COMPLEX	10-25	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
To	TOCCDA SANDY LOAM	NEARLY LEVEL	.10	EMBANKMENTS	MODERATE: PIPING
TS	TOCCDA SOIL	NEARLY LEVEL	.10	EMBANKMENTS	MODERATE: PIPING
UD	URBAN LAND	VARIABLES	NOT RATED	EMBANKMENTS	NOT RATED
WH	WEHADKEE SOILS	NEARLY LEVEL	.24-.32-.28	EMBANKMENTS	MODERATE: PIPING



PLANS PREPARED BY:
CLAYTON COUNTY WATER AUTHORITY
 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

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PROJECT NAME:
JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE ONE
 LAND LOTS 207,208,209,210,211&177
 DISTRICT 13 CLAYTON COUNTY, GEORGIA

SEAL:

DATE:		NO.:		REQUESTED BY:		DESCRIPTION:	
3/20/19						REVISED CONSTRUCTION LANE/EASEMENT	

SHEET TITLE:		SITE PLAN	
DESIGN BY:	CCWA	DATE:	1-15-19
DRAWN BY:	JRM	JOB #:	81810
CHECKED BY:		DRAWING #:	S-1
		SCALE:	1"=100'
		SHEET NUMBER	2 OF 21

SOILS INFORMATION (WATER MANAGEMENT)					
SOILS SYMBOLS	NAME	SLOPE %	K	LIMITATION	REASON FOR LIMITATION
AmB	APPLING SANDY LOAM	2-6	.24-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AmC	APPLING SANDY LOAM	6-10	.24-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AmC2	APPLING SANDY CLAY LOAM	6-10	.20-.20	EMBANKMENTS	MODERATE: LOW STRENGTH
AsC	APPLING SANDY LOAM	2-10	.24-.43	EMBANKMENTS	SEVERE: THIN LAYER, SEEPAGE
AtE	ASHLAR SANDY LOAM VERY ROCKY	10-25	.24-.43	EMBANKMENTS	SEVERE: THIN LAYER, SEEPAGE
CA	CARTECAY SOILS	NEARLY LEVEL	.32-.24	EMBANKMENTS	MODERATE: PIPING
CeB	CECIL SANDY LOAM	2-6	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CeC	CECIL SANDY LOAM	6-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CfC2	CECIL SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
CuC	CECIL-URBAN LAND COMPLEX	2-10	.28	EMBANKMENTS	SEVERE: COMPRESSIBLE
GeB	GWINNETT SANDY LOAM	2-6	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwC2	GWINNETT SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwC3	GWINNETT SANDY CLAY LOAM	6-10	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
GwE2	GWINNETT SANDY CLAY LOAM	10-25	.28	EMBANKMENTS	MODERATE: COMPRESSIBLE
MoB	MADISON SANDY LOAM	2-6	.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MdC	MADISON SANDY LOAM	6-10	.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MfC2	MADISON SANDY CLAY LOAM	6-10	.28-.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
MfE2	MADISON SANDY CLAY LOAM	10-25	.28-.32	EMBANKMENTS	MODERATE: HARD TO PACK, PIPING
PoC	PACOLET SANDY LOAM	6-10	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PoE	PACOLET SANDY LOAM	10-25	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PgC2	PACOLET SANDY CLAY LOAM	6-10	.24-.28	EMBANKMENTS	MODERATE: HARD TO PACK
PuE	PACOLET-URBAN LAND COMPLEX	10-25	.20-.28	EMBANKMENTS	MODERATE: HARD TO PACK
To	TOCCOA SANDY LOAM	NEARLY LEVEL	.10	EMBANKMENTS	MODERATE: PIPING
TS	TOCCOA SOIL	NEARLY LEVEL	.10	EMBANKMENTS	MODERATE: PIPING
UD	URBAN LAND	VARIABLE	NOT RATED	EMBANKMENTS	NOT RATED
WH	WEHADKEE SOILS	NEARLY LEVEL	.24-.32-.28	EMBANKMENTS	MODERATE: PIPING

LEGEND			
	EXISTING SANITARY SEWER MANHOLE	E/P	EDGE OF PAVEMENT
	PROPOSED SANITARY SEWER MANHOLE	WB	EXISTING MAIL BOX
	EXISTING WATER VALVE	WM	EXISTING WATER METER
	EXISTING FIRE HYDRANT	VWV	EXISTING WATER METER VAULT
	EXISTING STREET SIGN	OWP	CORROSIATED METAL PIPE
	EXISTING LAMP POST	ROP	REINFORCED CONCRETE PIPE
	EXISTING UTILITY POLE	RP	DUCTILE IRON PIPE
	EXISTING POWER TRANSFORMER	CTV	EXISTING CABLE TV BOX
	EXISTING TELEPHONE MANHOLE	OTL	EXISTING OVERHEAD TRAFFIC SIGNAL LINES
	EXISTING STORM JUNCTION BOX	OTS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES
	EXISTING STORM HEADWALL	FD	EXISTING FIBER OPTIC CABLE
	EXISTING STORM CATCH BASIN	LOP	EXISTING UNDERGROUND POWER LINES
	EXISTING STORM DROP INLET	DIP	EXISTING OVERHEAD POWER LINES
	EXISTING TELEPHONE SWITCH BOX	LOT	EXISTING UNDERGROUND TELEPHONE CONDUIT
	TELEPHONE CABLE MARKER	LOTV	EXISTING UNDERGROUND CABLE TV
	EXISTING GLIDE WIRE	SPH	EXISTING 4 INCH SEWER FORCE MAIN
	IRON PIN/PROPERTY CORNER MARKER	BS	EXISTING SEWER MAIN, SIZE & FLOW DIRECTION
	EXISTING TRAFFIC SIGNAL BOX	BS	EXISTING WATER MAIN & FLOW DIRECTION
	EXISTING GAS METER	W	EXISTING WATER MAIN OR SERVICE
	EXISTING GAS VALVE	W	EXISTING WATER MAIN OR SERVICE
	RIGHT OF WAY	W	EXISTING WATER MAIN OR SERVICE
	PROPERTY LINE	W	EXISTING WATER MAIN OR SERVICE
	PROPOSED SEWER MAIN	W	EXISTING WATER MAIN OR SERVICE
	DEMOLITION/FRESHEN PIPE AND MANHOLE	W	EXISTING WATER MAIN OR SERVICE
	DEMOLITION/GROUT FILL	W	EXISTING WATER MAIN OR SERVICE
	DEMOLITION/GRAVEL FILL	W	EXISTING WATER MAIN OR SERVICE
	SELF FENCE TYPE AS SPECIFIED	W	EXISTING WATER MAIN OR SERVICE
	CONSTRUCTION LIMITS	W	EXISTING WATER MAIN OR SERVICE



PLANS PREPARED BY:

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

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PROJECT NAME:
JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE ONE

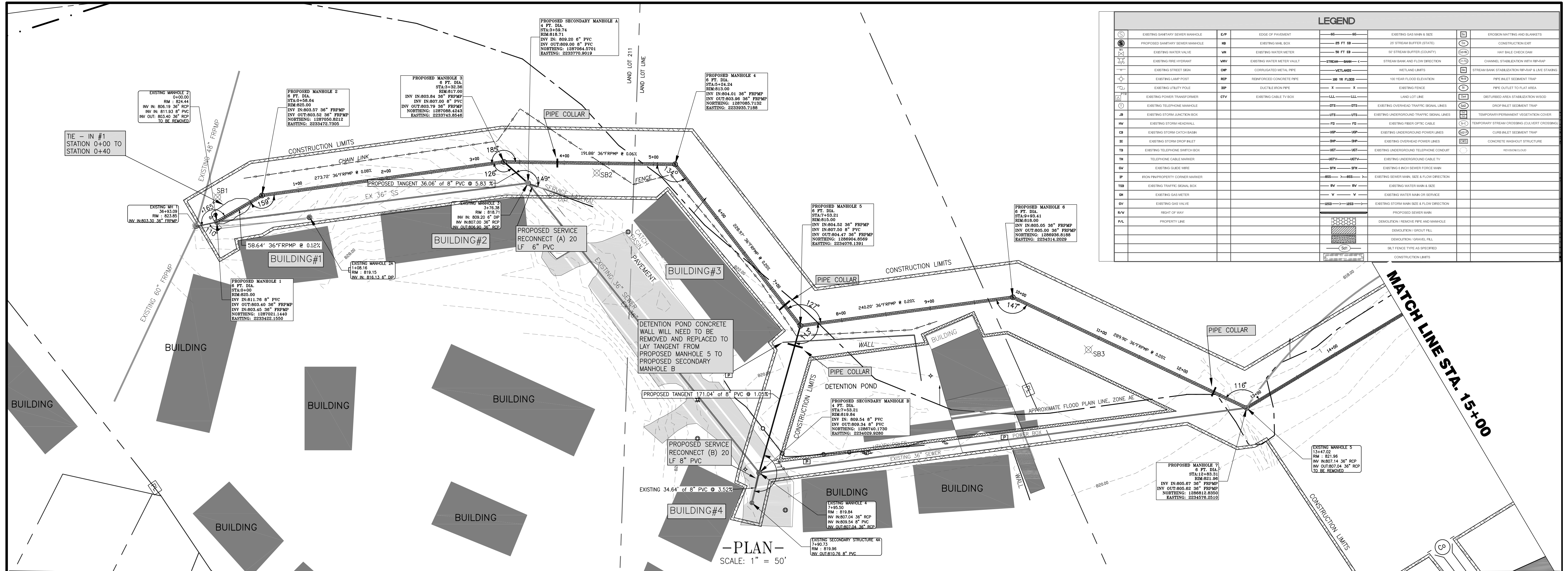
LAND LOTS 207,208,209,210,211&177
 DISTRICT 13 CLAYTON COUNTY, GEORGIA

SEAL:

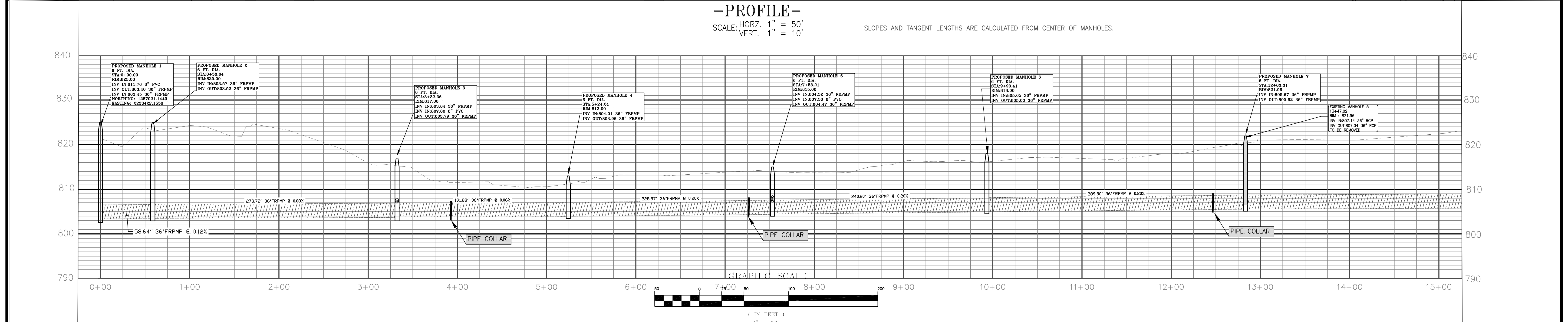
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 JAMES L. COLE, P.E.
 2/15/2019
 JESTERS CREEK EAST OUTFALL REPLACEMENT - PHASE 1

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: SITE PLAN		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	S-2
JRM	SCALE:	1"=100"
CHECKED BY:	SHEET NUMBER	3 OF 21



LEGEND			
⊙	EXISTING SANITARY SEWER MANHOLE	E/P	EDGE OF PAVEMENT
⊙	PROPOSED SANITARY SEWER MANHOLE	MB	EXISTING MAIL BOX
⊙	EXISTING WATER VALVE	WM	EXISTING WATER METER
⊙	EXISTING FIRE HYDRANT	WH	EXISTING WATER METER VAULT
⊙	EXISTING STREET SIGN	CM	CORRUGATED METAL PIPE
⊙	EXISTING LAMP POST	RCP	REINFORCED CONCRETE PIPE
⊙	EXISTING UTILITY POLE	ISP	DUCTILE IRON PIPE
⊙	EXISTING POWER TRANSFORMER	CTV	EXISTING CABLE TV BOX
⊙	EXISTING TELEPHONE MANHOLE	UTS	EXISTING OVERHEAD TRAFFIC SIGNAL LINES
⊙	EXISTING STORM JUNCTION BOX	UTS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES
⊙	EXISTING STORM HEADWALL	FD	EXISTING FIBER OPTIC CABLE
⊙	EXISTING STORM CATCH BASIN	UP	EXISTING UNDERGROUND POWER LINES
⊙	EXISTING STORM DRAIN INLET	UP	EXISTING UNDERGROUND POWER LINES
⊙	EXISTING TELEPHONE SWITCH BOX	UTS	EXISTING OVERHEAD POWER LINES
⊙	TELEPHONE CABLE MARKER	UTS	EXISTING UNDERGROUND TELEPHONE CONDUIT
⊙	EXISTING GUIDE WIRE	UTS	EXISTING UNDERGROUND CABLE TV
⊙	IRON PROPERTY CORNER MARKER	SP	EXISTING 8" HIGH FORCE MAIN
⊙	EXISTING TRAFFIC SIGNAL BOX	SP	EXISTING SEWER MAIN SIZE & FLOW DIRECTION
⊙	EXISTING GAS METER	W	EXISTING WATER MAIN & SIZE
⊙	EXISTING GAS VALVE	W	EXISTING WATER MAIN OR SERVICE
⊙	RIGHT OF WAY	W	EXISTING WATER MAIN OR SERVICE
⊙	PROPERTY LINE	W	EXISTING STORM MAIN SIZE & FLOW DIRECTION
⊙			PROPOSED SEWER MAIN
⊙			DEMOLITION / REMOVE PIPE AND MANHOLE
⊙			DEMOLITION / GROUT FILL
⊙			DEMOLITION / GRAVEL FILL
⊙			SILT FENCE TYPE AS SPECIFIED
⊙			CONSTRUCTION LIMITS
⊙			EROSION MATTING AND BLANKETS
⊙			CONSTRUCTION EXIST
⊙			HAY BALE CHECK DAM
⊙			CHANNEL STABILIZATION WITH FRPMP
⊙			STREAM BANK STABILIZATION WITH FRPMP & LINE STAKING
⊙			PIPE INLET SEGMENT TRAP
⊙			PIPE OUTLET TO FLAT AREA
⊙			DISTURBED AREA STABILIZATION W/SSO
⊙			DROP INLET SEGMENT TRAP
⊙			TEMPORARY PERMANENT VEGETATION COVER
⊙			TEMPORARY STREAM CROSSING (DUAL VERT CROSSING)
⊙			CURB INLET SEGMENT TRAP
⊙			CONCRETE WASHOUT STRUCTURE
⊙			WINDOW LOAD



PLANS PREPARED BY:
CLAYTON COUNTY WATER AUTHORITY
 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

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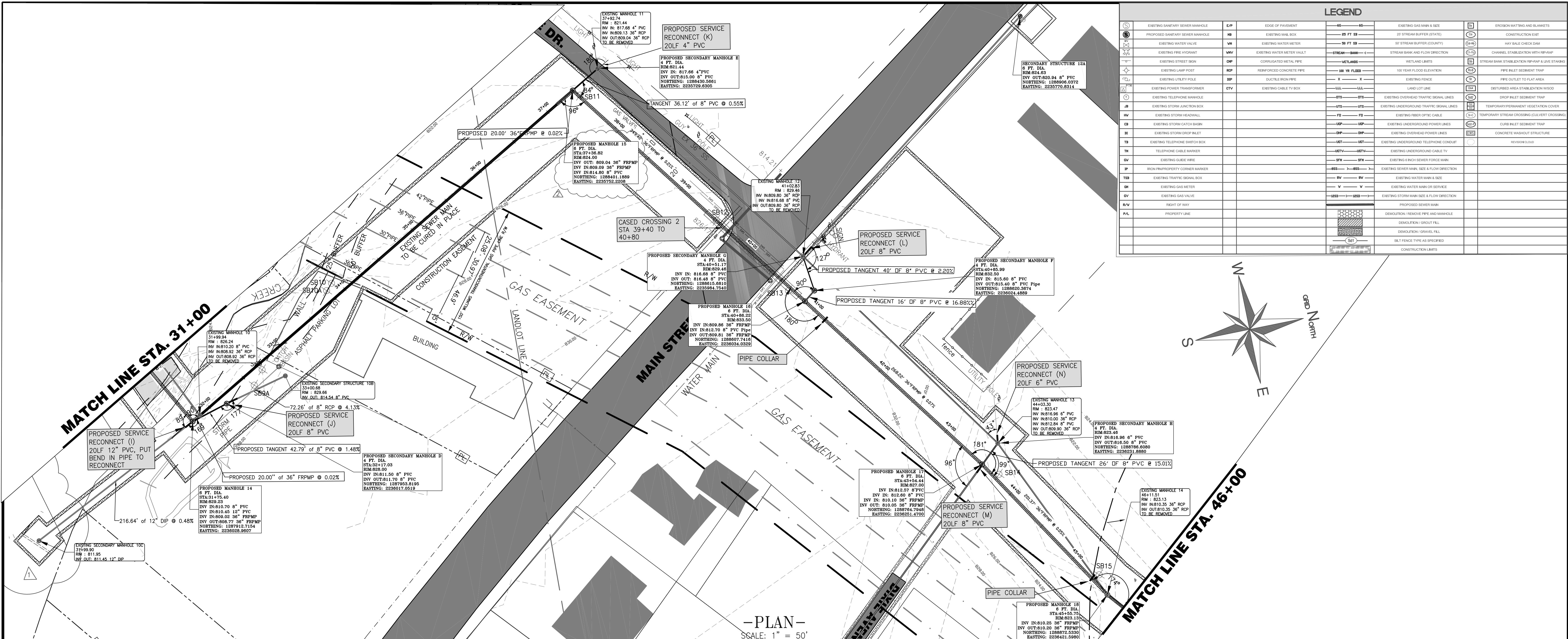
PROJECT NAME:
**JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE**
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

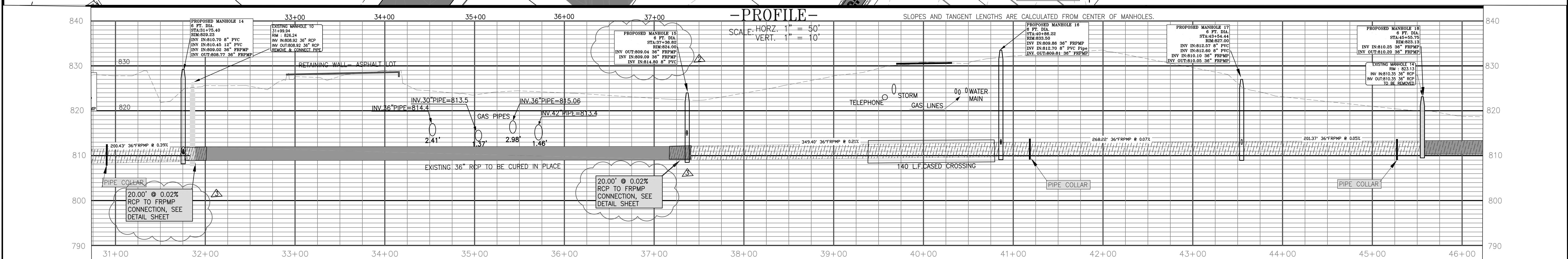
SHEET TITLE: PLAN & PROFILE

DESIGN BY:	DATE:	1-14-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-1
JRM	SCALE:	1"=50'
CHECKED BY:	SHEET NUMBER	5 OF 21



LEGEND			
	EXISTING SANITARY SEWER MANHOLE	EP	EDGE OF PAVEMENT
	PROPOSED SANITARY SEWER MANHOLE	MB	EXISTING MAIL BOX
	EXISTING WATER VALVE	WH	EXISTING WATER METER
	EXISTING FIRE HYDRANT	WHV	EXISTING WATER METER VAULT
	EXISTING STREET SIGN	CHP	CORRUGATED METAL PIPE
	EXISTING LAMP POST	RCP	REINFORCED CONCRETE PIPE
	EXISTING UTILITY POLE	X	X
	EXISTING POWER TRANSFORMER	LL	LAND LOT LINE
	EXISTING TELEPHONE MANHOLE	OTL	EXISTING OVERHEAD TRAFFIC SIGNAL LINES
	EXISTING STORM JUNCTION BOX	UTS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES
	EXISTING STORM HEADWALL	FD	EXISTING FIBER OPTIC CABLE
	EXISTING STORM CATCH BASIN	UP	EXISTING UNDERGROUND POWER LINES
	EXISTING STORM DROP INLET	DP	EXISTING OVERHEAD POWER LINES
	EXISTING TELEPHONE SWITCH BOX	UT	EXISTING UNDERGROUND TELEPHONE CONDUIT
	TELEPHONE CABLE MANHOLE	UTY	EXISTING UNDERGROUND CABLE TV
	EXISTING GUIDE WIRE	SP	EXISTING 8 INCH SEWER FORCE MAIN
	IRON PIN/PROPERTY CORNER MARKER	BS	EXISTING SEWER MAIN SIZE & FLOW DIRECTION
	EXISTING TRAFFIC SIGNAL BOX	SV	EXISTING WATER MAIN SIZE & FLOW DIRECTION
	EXISTING GAS METER	V	EXISTING WATER MAIN OR SERVICE
	EXISTING GAS VALVE	SV	EXISTING STORM MAIN SIZE & FLOW DIRECTION
	RIGHT OF WAY	SE	PROPOSED SEWER MAIN
	PROPERTY LINE		DEMOLITION / REMOVE PIPE AND MANHOLE
			DEMOLITION / GROUT FILL
			DEMOLITION / GRAVEL FILL
			SILT FENCE TYPE AS SPECIFIED
			CONSTRUCTION LIMITS
			EROSION MATTING AND BLANKETS
			CONSTRUCTION EXIT
			HAY BALE CHECK DAM
			CHANNEL STABILIZATION WITH FRP/RAP
			STREAM BANK STABILIZATION WITH FRP/RAP & LIVE STAKING
			PIPE INLET SEEDMENT TRAP
			PIPE OUTLET TO FLAT AREA
			TEMPORARY PERMANENT VEGETATION COVER
			TEMPORARY STREAM CROSSING (CULVERT CROSSING)
			CURB INLET SEEDMENT TRAP
			CONCRETE WASHOUT STRUCTURE
			ROADWAY

-PLAN-
SCALE: 1" = 50'



-PROFILE-
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

PLANS PREPARED BY:

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

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PROJECT NAME:
**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE ONE**

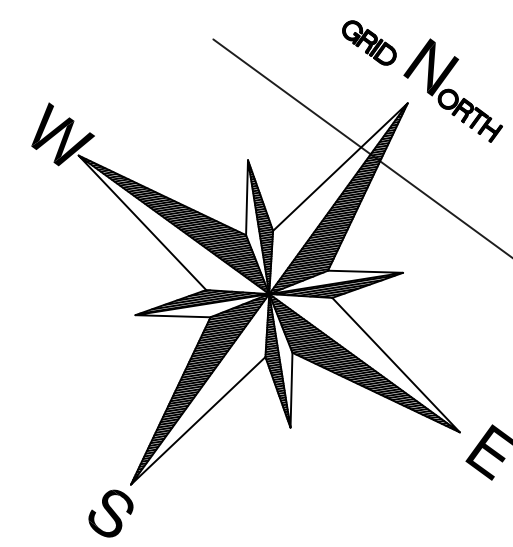
LAND LOTS 207,208,209,210&211 DISTRICT
13 CLAYTON COUNTY, GEORGIA

SEAL:

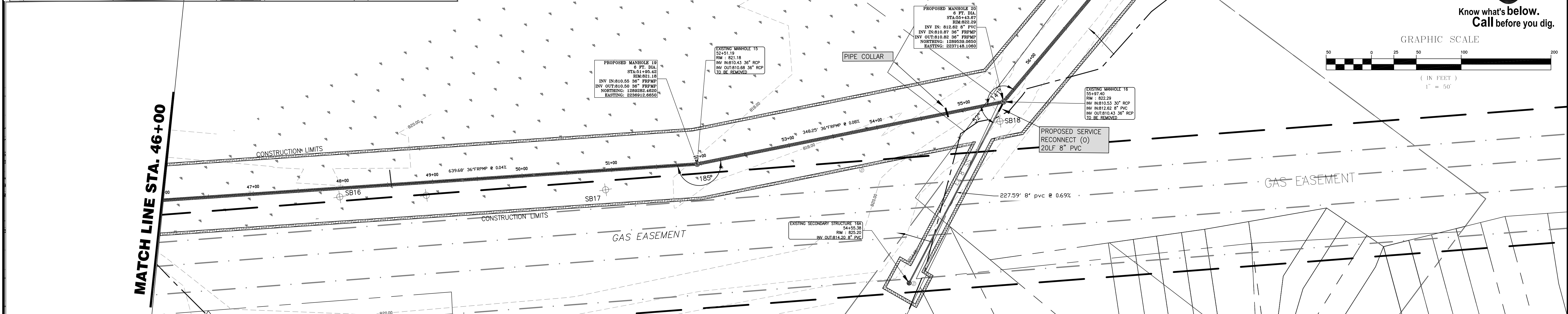
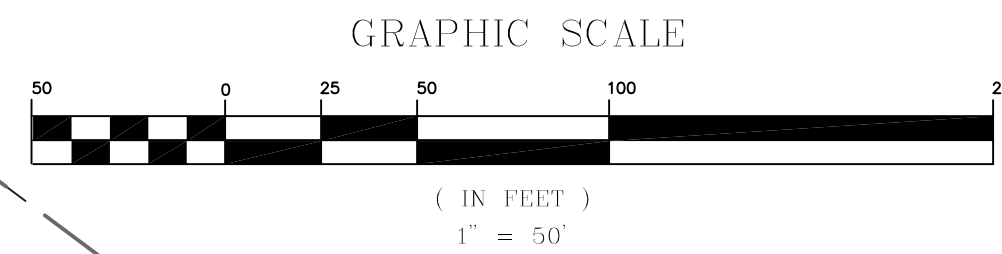
REVISIONS:		
DATE:	NO.:	REQUESTED BY:
3/20/19	1	REVISED CONSTRUCTION LANE/EASEMENT
3/20/19	2	REVISE MANHOLE 15 INVERT INFORMATION
3/20/19	3	REVISE INCHES MARK TO FEET

SHEET TITLE: PLAN & PROFILE		
DESIGN BY:	DATE:	
CCWA	1-15-19	
DRAWN BY:	JOB #:	
JRM	81810	
CHECKED BY:	DRAWING #:	
	P-3	
SCALE:		
1"=50'		
SHEET NUMBER		OF
7		21

LEGEND			
	ESP	EDGE OF PAVEMENT	— 66 — 66 —
	HP	EXISTING MAIL BOX	— 55 FT 53 —
	WM	EXISTING WATER METER	— 50 FT 53 —
	WHV	EXISTING FIRE HYDRANT	— 50 FT 53 —
	DSF	CORRUGATED METAL PIPE	— 100 YR FLOOD —
	RCP	REINFORCED CONCRETE PIPE	— 100 YR FLOOD —
	DP	DUCTILE IRON PIPE	— X — X —
	CTV	EXISTING CABLE TV BOX	— LLL — LLL —

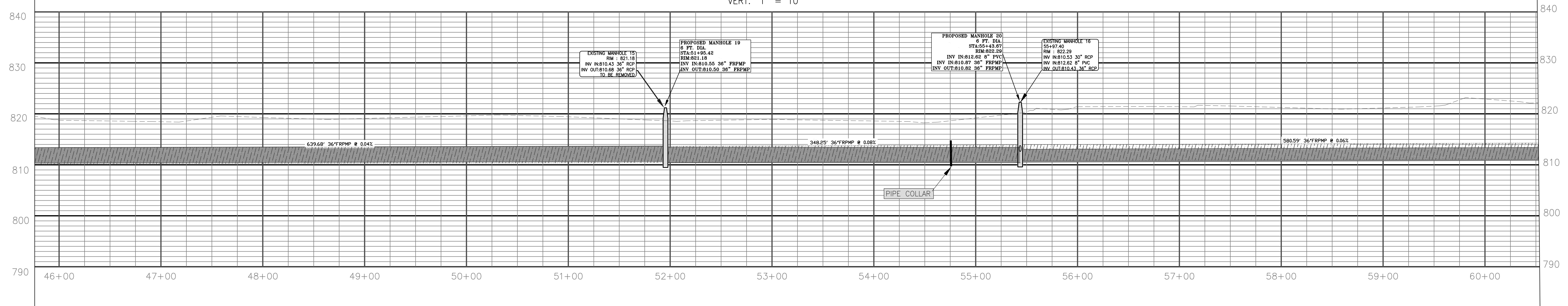


MATCH LINE STA. 60+50



— PLAN —
SCALE: 1" = 50'
— PROFILE —
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLES.



PLANS PREPARED BY:

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

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PROJECT NAME:
**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE ONE**

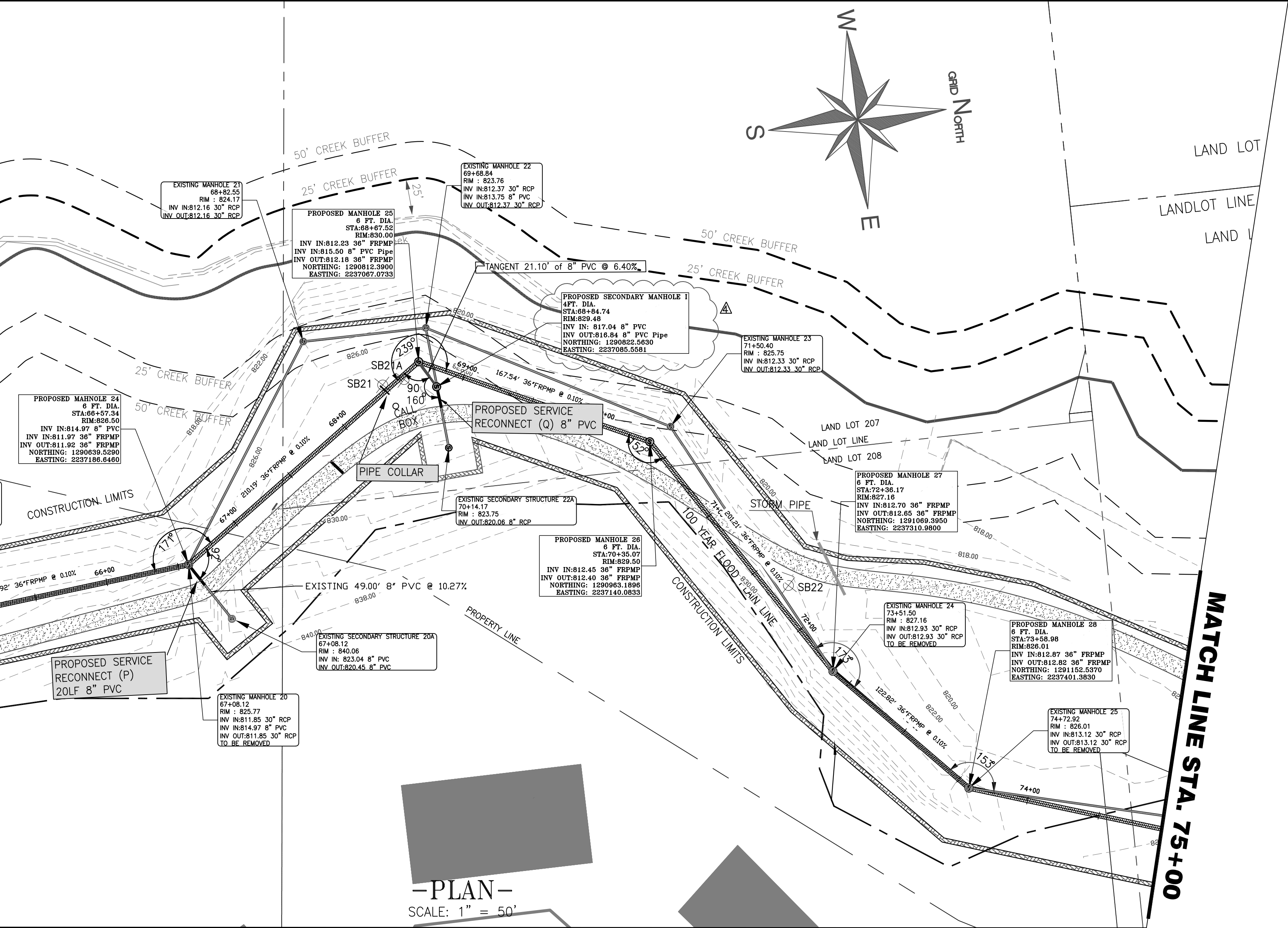
LAND LOTS 207,208,209,210&211 DISTRICT
13 CLAYTON COUNTY, GEORGIA

SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: PLAN & PROFILE		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-4
JRM	SCALE:	1"=50'
CHECKED BY:	SHEET NUMBER	8 OF 21

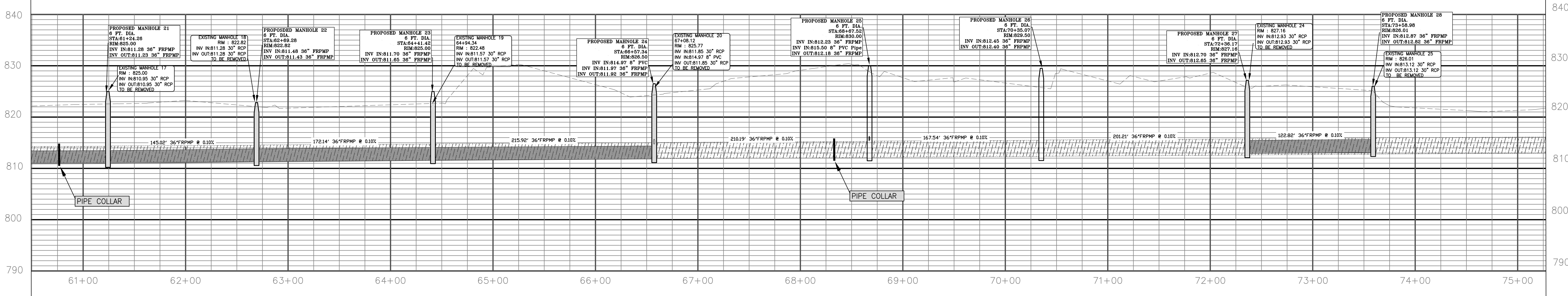
EXISTING SANITARY SEWER MANHOLE	E/S	EDGE OF PAVEMENT	—G—G—	EXISTING GAS MAIN & SIZE	EROSION MATTING AND BLANKETS
PROPOSED SANITARY SEWER MANHOLE	MS	EXISTING MANHOLE	25 FT. 53"	20' STREAM BUFFER (STATE)	CONSTRUCTION EXIT
EXISTING WATER VALVE	WV	EXISTING WATER METER	50 FT. 53"	50' STREAM BUFFER (COUNTY)	HAY BALE CHECK DAM
EXISTING FIRE HYDRANT	WVH	EXISTING WATER METER VAULT	—S—B—C—	STREAM BANK AND FLOW DIRECTION	CHANNEL STABILIZATION WITH RIP-RAP
EXISTING STREET SIGN	OSP	CORRUGATED METAL PIPE	—V—L—S—	WETLAND LIMITS	STREAM BANK STABILIZATION RIP-RAP & LIVE STAKING
EXISTING LAMP POST	RCP	REINFORCED CONCRETE PIPE	100 YEAR FLOOD ELEVATION	100 YEAR FLOOD ELEVATION	PIPE INLET SEDIMENT TRAP
EXISTING UTILITY POLE	UP	DUCTILE IRON PIPE	X	EXISTING FENCE	PIPE OUTLET TO FLAT AREA
EXISTING POWER TRANSFORMER	CTV	EXISTING CABLE TV BOX	—L—L—L—L—L—	LAND LOT LINE	DISTURBED AREA STABILIZATION W/WOOD
EXISTING TELEPHONE MANHOLE	UTS	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	—O—T—S—	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	DROP INLET SEDIMENT TRAP
EXISTING STORM JUNCTION BOX	UFS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	—U—F—S—	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	TEMPORARY PERMANENT VEGETATION COVER
EXISTING STORM HEADWALL	FD	EXISTING FIBER OPTIC CABLE	—F—O—	EXISTING FIBER OPTIC CABLE	TEMPORARY STREAM CROSSING (CULVERT CROSSING)
EXISTING STORM CATCH BASIN	UCP	EXISTING UNDERGROUND POWER LINES	—U—C—P—	EXISTING UNDERGROUND POWER LINES	CURB INLET SEDIMENT TRAP
EXISTING STORM DROPPLET	UCP	EXISTING OVERHEAD POWER LINES	—O—P—	EXISTING OVERHEAD POWER LINES	CONCRETE WASHOUT STRUCTURE
EXISTING TELEPHONE SWITCH BOX	UTS	EXISTING UNDERGROUND TELEPHONE CONDUIT	—U—T—S—	EXISTING UNDERGROUND TELEPHONE CONDUIT	REINFORCED
TELEPHONE CABLE MARKER	UTV	EXISTING UNDERGROUND CABLE TV	—U—T—V—	EXISTING UNDERGROUND CABLE TV	WORKING TRAIL STRIPING
EXISTING GUIDE WIRE	SPW	EXISTING 6 INCH SEWER FORCE MAIN	—S—P—W—	EXISTING 6 INCH SEWER FORCE MAIN	
IRON PROPERTY CORNER MARKER	SPW	EXISTING SEWER MAIN SIZE & FLOW DIRECTION	—S—P—W—	EXISTING SEWER MAIN SIZE & FLOW DIRECTION	
EXISTING TRAFFIC SIGNAL BOX	OK	EXISTING WATER MAIN & SIZE	—W—	EXISTING WATER MAIN & SIZE	
EXISTING GAS VALVE	SV	EXISTING WATER MAIN OR SERVICE	—W—	EXISTING WATER MAIN OR SERVICE	
R/W		EXISTING STORM MAIN SIZE & FLOW DIRECTION	—S—M—	EXISTING STORM MAIN SIZE & FLOW DIRECTION	
P/L		PROPOSED SEWER MAIN	—S—M—	PROPOSED SEWER MAIN	
		DEMOLITION / REMOVE PIPE AND MANHOLE	—D—M—	DEMOLITION / REMOVE PIPE AND MANHOLE	
		DEMOLITION / GROUT FILL	—D—M—	DEMOLITION / GROUT FILL	
		DEMOLITION / GRAVEL FILL	—D—M—	DEMOLITION / GRAVEL FILL	
		SILT FENCE TYPE AS SPECIFIED	—S—F—	SILT FENCE TYPE AS SPECIFIED	



—PLAN—
SCALE: 1" = 50'

—PROFILE—
SCALE: HORZ. 1" = 50',
VERT. 1" = 10'

SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLES.



PLANS PREPARED BY:

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

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PROJECT NAME:
**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE ONE**

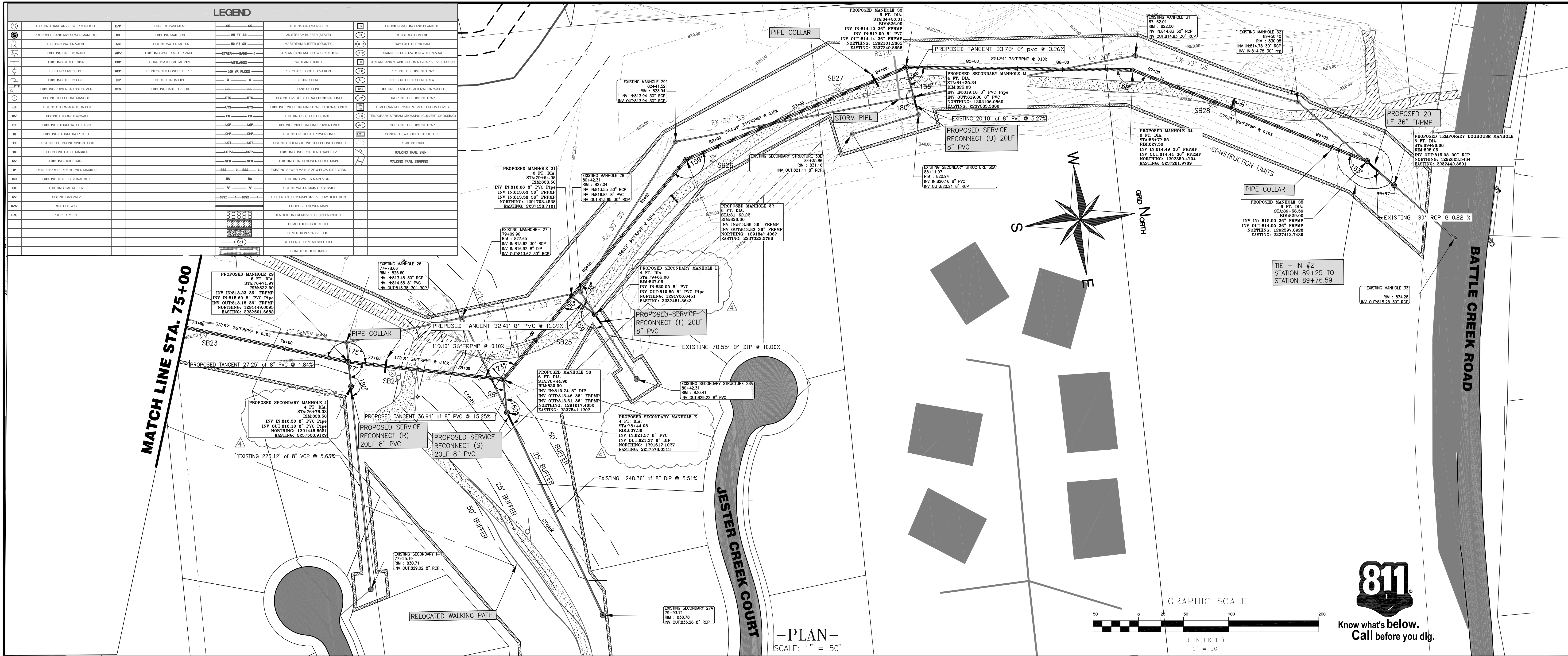
LAND LOTS 207,208,209,210&211 DISTRICT
13 CLAYTON COUNTY, GEORGIA

SEAL:

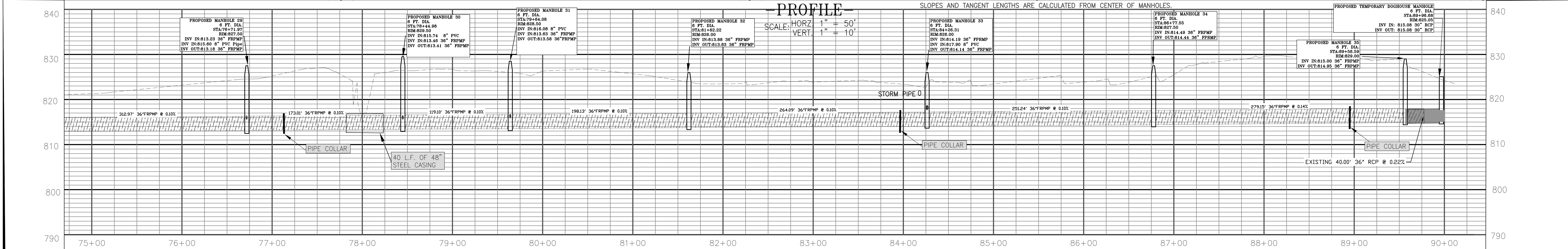
GEORGIA REGISTERED PROFESSIONAL ENGINEER
JESTERS CREEK EAST OUTFALL REPLACEMENT - PHASE 1
J. W. BERRY
3/20/19

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
3/20/19	1		REVISED SECONDARY MANHOLE LABELS

SHEET TITLE: PLAN & PROFILE		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
JRM	DRAWING #:	P-5
CHECKED BY:	SCALE:	1" = 50'
	SHEET NUMBER	9 OF 21



- PLAN -
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

SLOPES AND TANGENT LENGTHS ARE CALCULATED FROM CENTER OF MANHOLES.

PLANS PREPARED BY:
CLAYTON COUNTY WATER AUTHORITY
 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

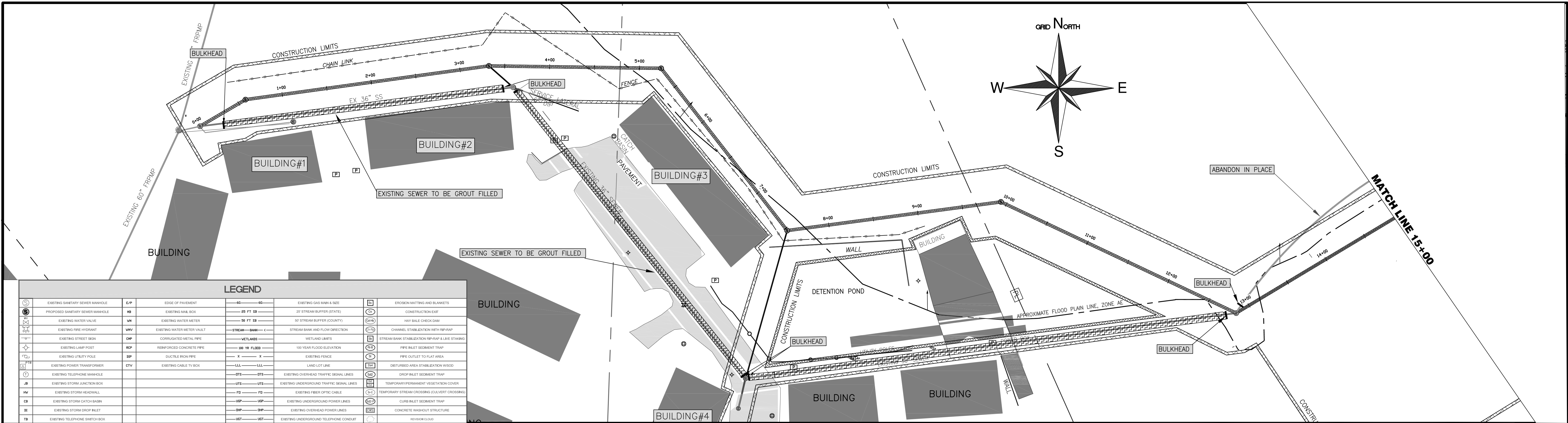
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PROJECT NAME:
**JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE**
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

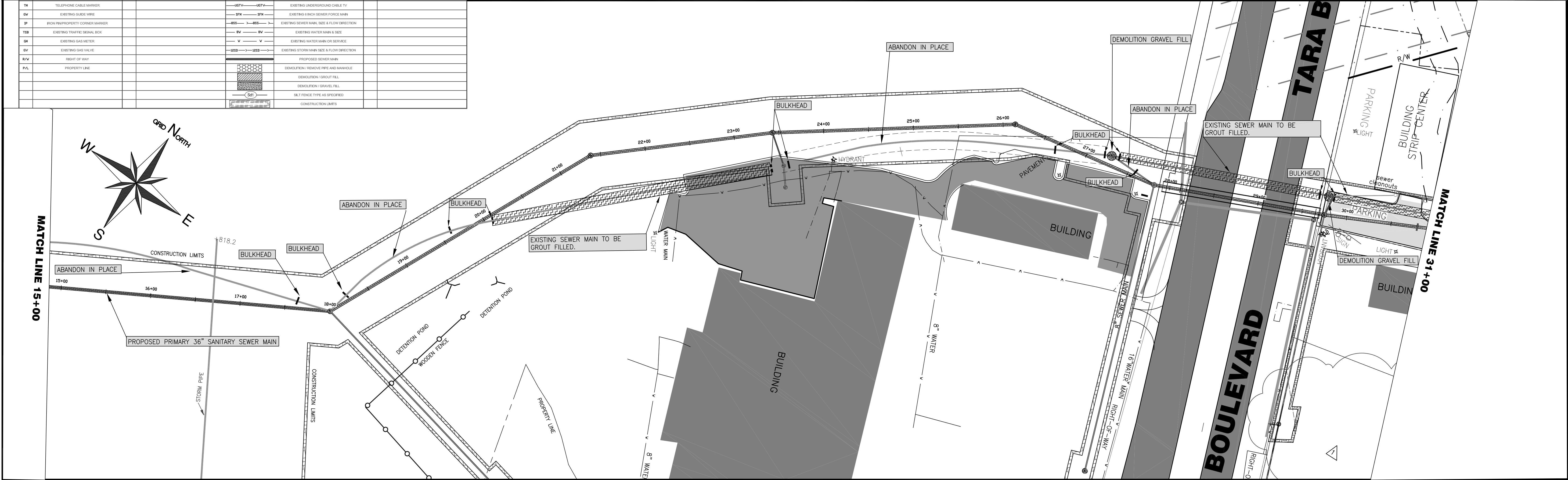
SEAL:

DATE:		NO.:		REQUESTED BY:		REVISIONS:	
3/20/19						REVISED SECONDARY MANHOLE LABELS	
						REVISED SECONDARY MANHOLE J TO 4' DIAMETER	

SHEET TITLE: PLAN & PROFILE		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-6
JRM	SCALE:	1"=50'
CHECKED BY:	SHEET NUMBER	10 OF 21



LEGEND			
	EXISTING SANITARY SEWER MANHOLE		EDGE OF PAVEMENT
	PROPOSED SANITARY SEWER MANHOLE		25 FT SS
	EXISTING WATER VALVE		50 FT SS
	EXISTING FIRE HYDRANT		STREAM BANK AND FLOW DIRECTION
	EXISTING STREET SIGN		WETLANDS
	EXISTING LAMP POST		100 YR FLOOD ELEVATION
	EXISTING UTILITY POLE		EXISTING FENCE
	EXISTING POWER TRANSFORMER		LAND LOT LINE
	EXISTING TELEPHONE MANHOLE		EXISTING OVERHEAD TRAFFIC SIGNAL LINES
	EXISTING STORM JUNCTION BOX		EXISTING UNDERGROUND TRAFFIC SIGNAL LINES
	EXISTING STORM HEADWALL		EXISTING FIBER OPTIC CABLE
	EXISTING STORM CATCH BASIN		EXISTING UNDERGROUND POWER LINES
	EXISTING STORM DROP INLET		EXISTING OVERHEAD POWER LINES
	EXISTING TELEPHONE SWITCH BOX		EXISTING UNDERGROUND TELEPHONE CONDUIT
	TELEPHONE CABLE MARKER		EXISTING UNDERGROUND CABLE TV
	EXISTING GLOBE VALVE		EXISTING 8 INCH SEWER FORCE MAIN
	IRON PIN/PROPERTY CORNER MARKER		EXISTING 8 INCH WATER MAIN
	EXISTING TRAFFIC SIGNAL BOX		EXISTING 16 INCH WATER MAIN
	EXISTING GAS METER		EXISTING 18 INCH WATER MAIN
	EXISTING GAS VALVE		EXISTING 24 INCH WATER MAIN
	RIGHT OF WAY		EXISTING 30 INCH WATER MAIN
	PROPERTY LINE		EXISTING 42 INCH WATER MAIN
			EXISTING 60 INCH WATER MAIN
			EXISTING 72 INCH WATER MAIN
			EXISTING 84 INCH WATER MAIN
			EXISTING 96 INCH WATER MAIN
			EXISTING 108 INCH WATER MAIN
			EXISTING 120 INCH WATER MAIN
			EXISTING 144 INCH WATER MAIN
			EXISTING 180 INCH WATER MAIN
			EXISTING 240 INCH WATER MAIN
			EXISTING 300 INCH WATER MAIN
			EXISTING 360 INCH WATER MAIN
			EXISTING 420 INCH WATER MAIN
			EXISTING 480 INCH WATER MAIN
			EXISTING 540 INCH WATER MAIN
			EXISTING 600 INCH WATER MAIN
			EXISTING 660 INCH WATER MAIN
			EXISTING 720 INCH WATER MAIN
			EXISTING 780 INCH WATER MAIN
			EXISTING 840 INCH WATER MAIN
			EXISTING 900 INCH WATER MAIN
			EXISTING 960 INCH WATER MAIN
			EXISTING 1020 INCH WATER MAIN
			EXISTING 1080 INCH WATER MAIN
			EXISTING 1140 INCH WATER MAIN
			EXISTING 1200 INCH WATER MAIN
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			EXISTING 1380 INCH WATER MAIN
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			EXISTING 1860 INCH WATER MAIN
			EXISTING 1920 INCH WATER MAIN
			EXISTING 1980 INCH WATER MAIN
			EXISTING 2040 INCH WATER MAIN
			EXISTING 2100 INCH WATER MAIN
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			EXISTING 9900 INCH WATER MAIN
			EXISTING 9960 INCH WATER MAIN
			EXISTING 10020 INCH WATER MAIN



PLANS PREPARED BY:

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

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PROJECT NAME:
JESTERS CREEK EAST
PHASE ONE
OUTFALL REPLACEMENT

LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

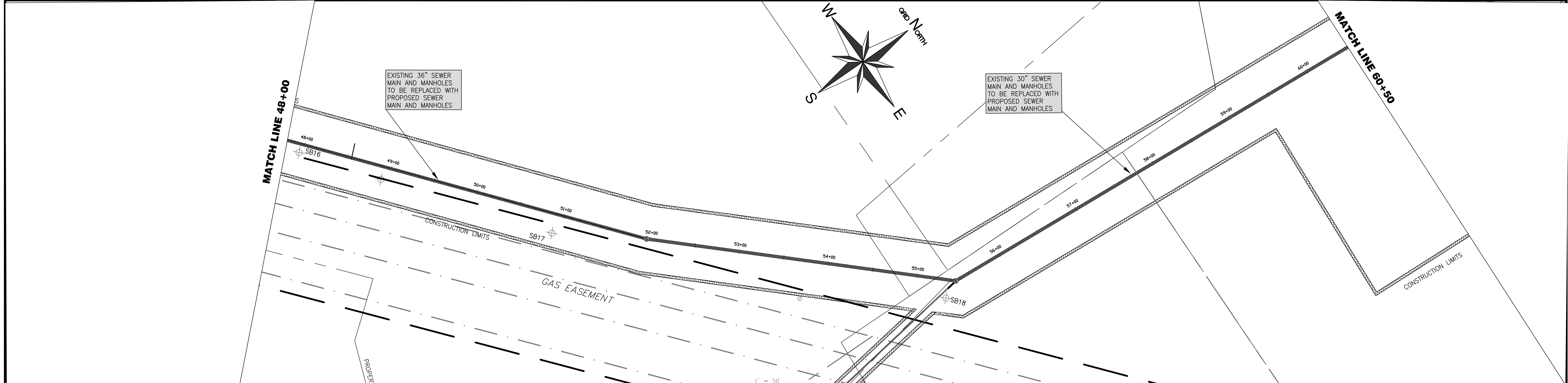
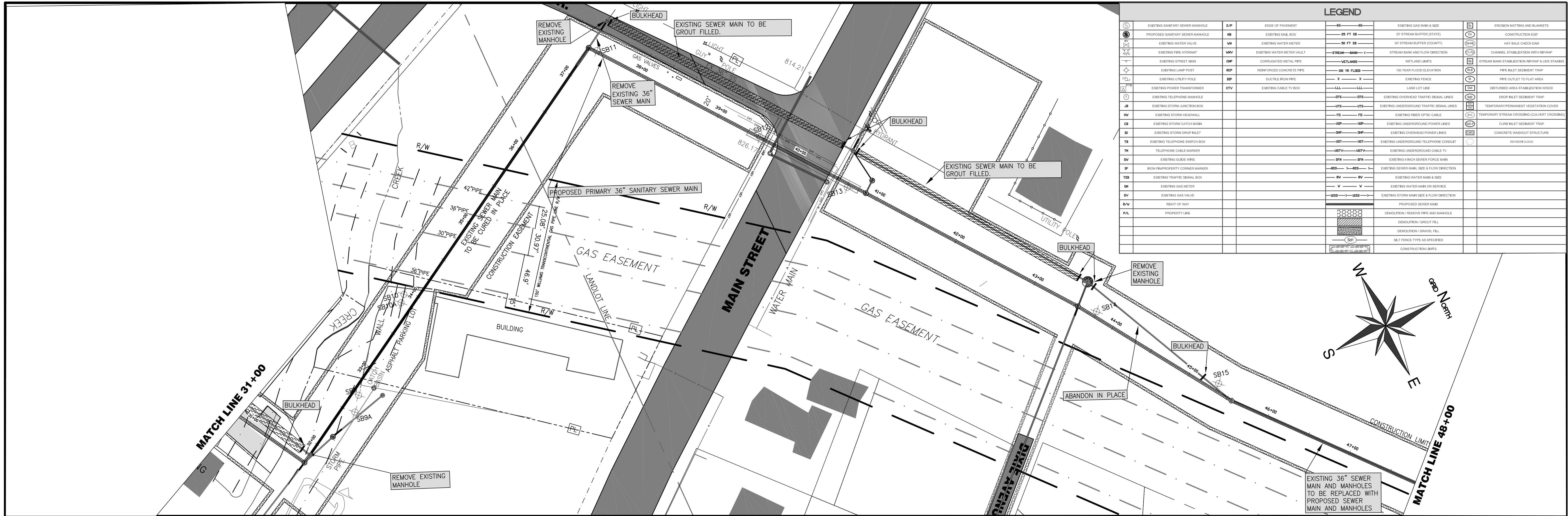
SEAL:

REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
3/20/19	1		REVISED CONSTRUCTION LANE/EASEMENT

SHEET TITLE: DEMOLITION PLAN

DESIGN BY:	CCWA	DATE:	1-15-19
DRAWN BY:	JRM	JOB #:	81810
CHECKED BY:		DRAWING #:	P-7
		SCALE:	1"=50'
		SHEET NUMBER	11 OF 21



PLANS PREPARED BY:
CLAYTON COUNTY WATER AUTHORITY
 1600 BATTLE CREEK ROAD
 MORROW, GEORGIA 30260

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PROJECT NAME:
**JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE**
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

SEAL:
 JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE

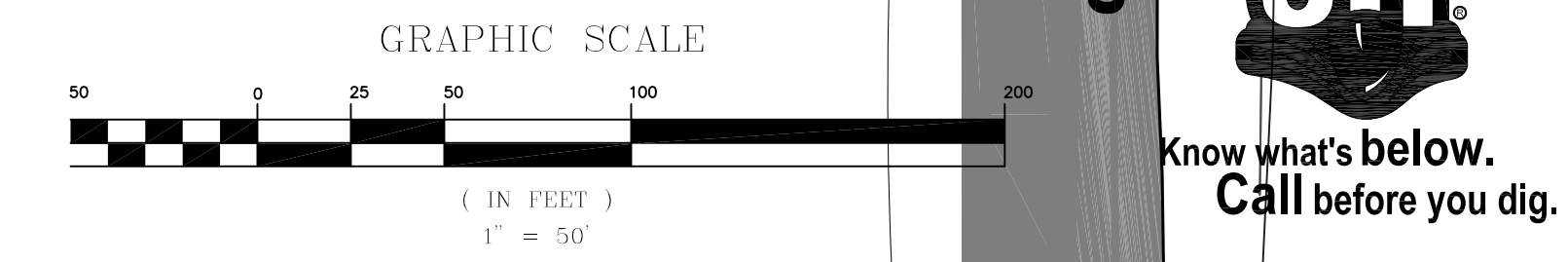
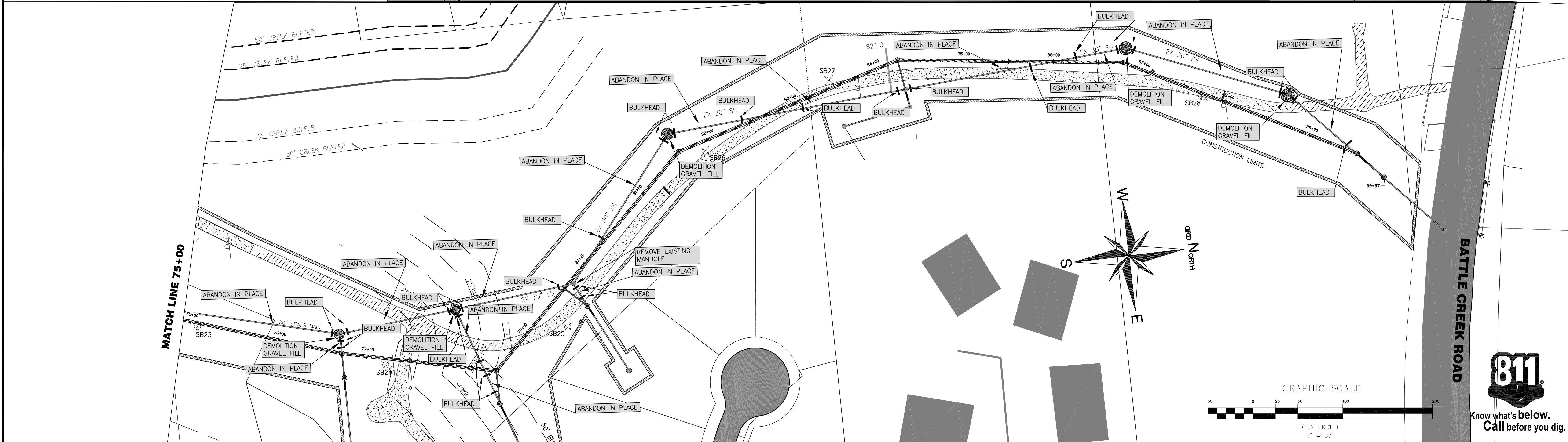
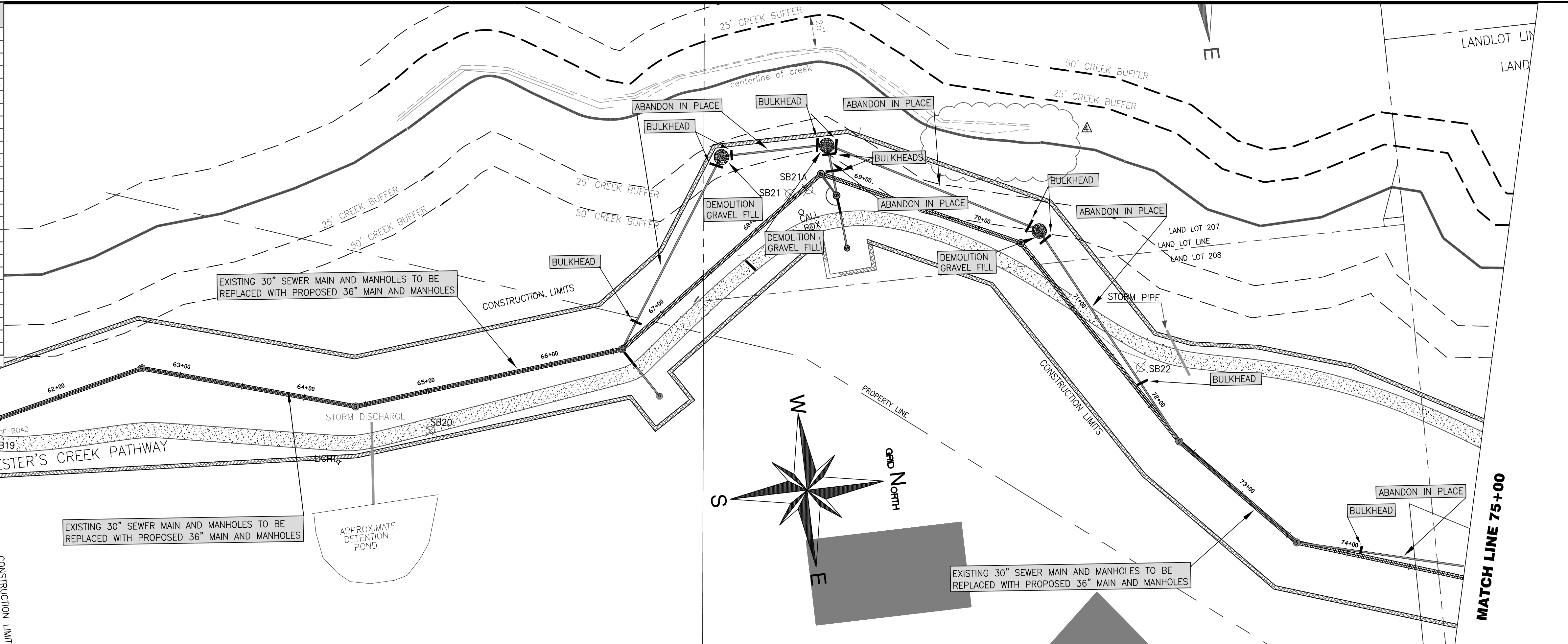
REVISIONS:

DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: DEMOLITION PLAN

DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-8
JRM	SCALE:	1"=50'
CHECKED BY:	SHEET NUMBER	12 OF 21

LEGEND			
	E/S	EDGE OF PAVEMENT	4E-6E
	P/S	EXISTING MANHOLE	2E-2E
	W/V	EXISTING WATER METER	5E-5E
	F/H	EXISTING WATER METER VAULT	5E-5E
	S/S	CORRUGATED METAL PIPE	10E-10E
	L/P	REINFORCED CONCRETE PIPE	10E-10E
	U/P	DUCTILE IRON PIPE	10E-10E
	P/T	EXISTING FENCE	10E-10E
	T/M	LAND LOT LINE	10E-10E
	S/J	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	10E-10E
	S/H	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	10E-10E
	S/C	EXISTING FIBER OPTIC CABLE	10E-10E
	S/D	EXISTING UNDERGROUND POWER LINES	10E-10E
	T/S	EXISTING UNDERGROUND TELEPHONE CONDUIT	10E-10E
	T/C	EXISTING UNDERGROUND CABLE TV	10E-10E
	S/L	EXISTING 18" SEWER FORCE MAIN	10E-10E
	B/P	EXISTING SEWER MAIN, SIZE & FLOW DIRECTION	10E-10E
	T/SB	EXISTING WATER MARK & SIZE	10E-10E
	G/M	EXISTING WATER MARK OR SERVICE	10E-10E
	G/V	EXISTING STORM MAIN SIZE & FLOW DIRECTION	10E-10E
	R/W	PROPOSED SEWER MAIN	10E-10E
	P/L	DEMOLITION / REMOVE PIPE AND MANHOLE	10E-10E
		DEMOLITION / GROUT FILL	10E-10E
		DEMOLITION / GRAVEL FILL	10E-10E
		SILT FENCE TYPE AS SPECIFIED	10E-10E
		CONSTRUCTION LIMITS	10E-10E



PLANS PREPARED BY:

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

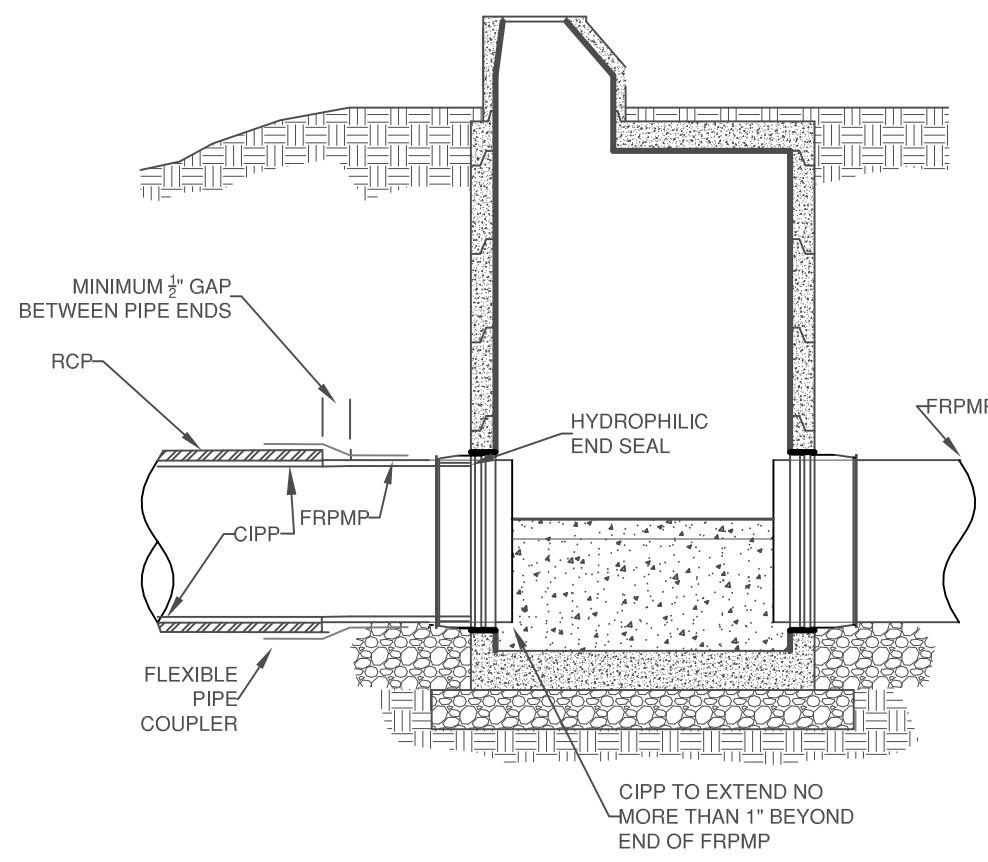
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PROJECT NAME:
JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE ONE
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

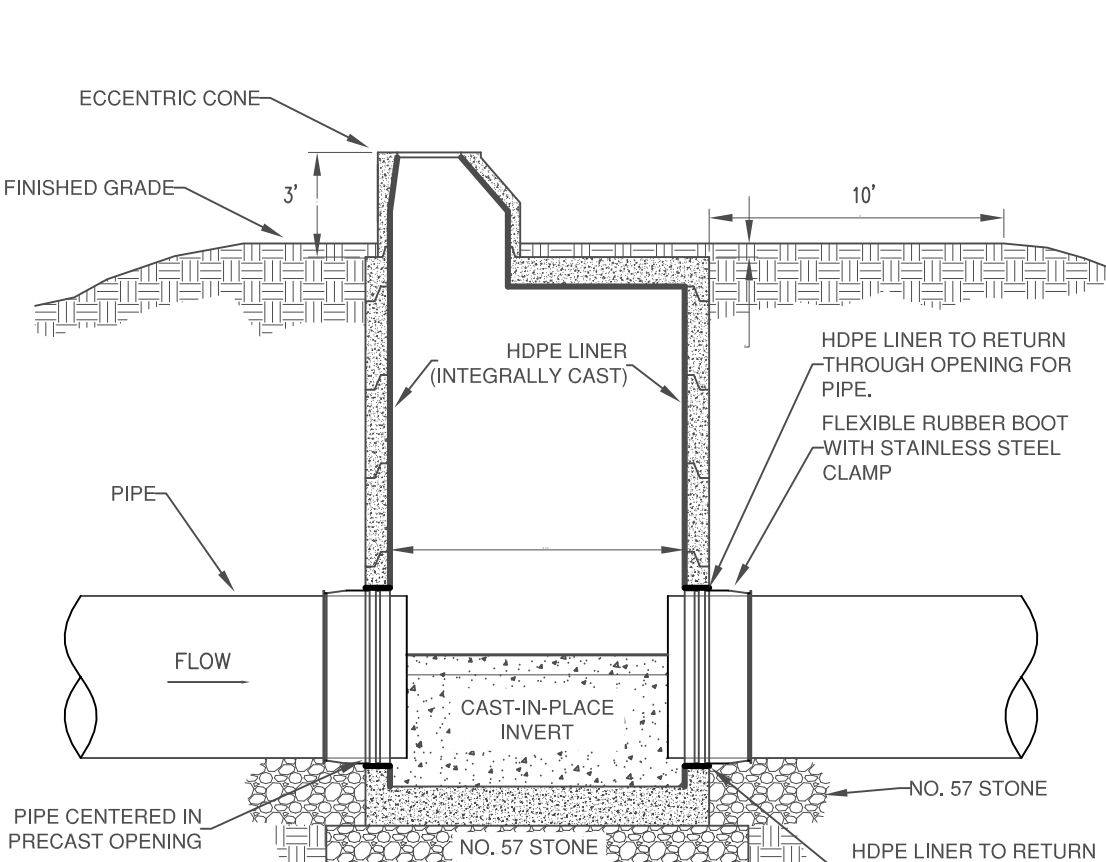
SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: DEMOLITION PLAN		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-9
JRM	SCALE:	1" = 50'
CHECKED BY:	SHEET NUMBER	13 OF 21

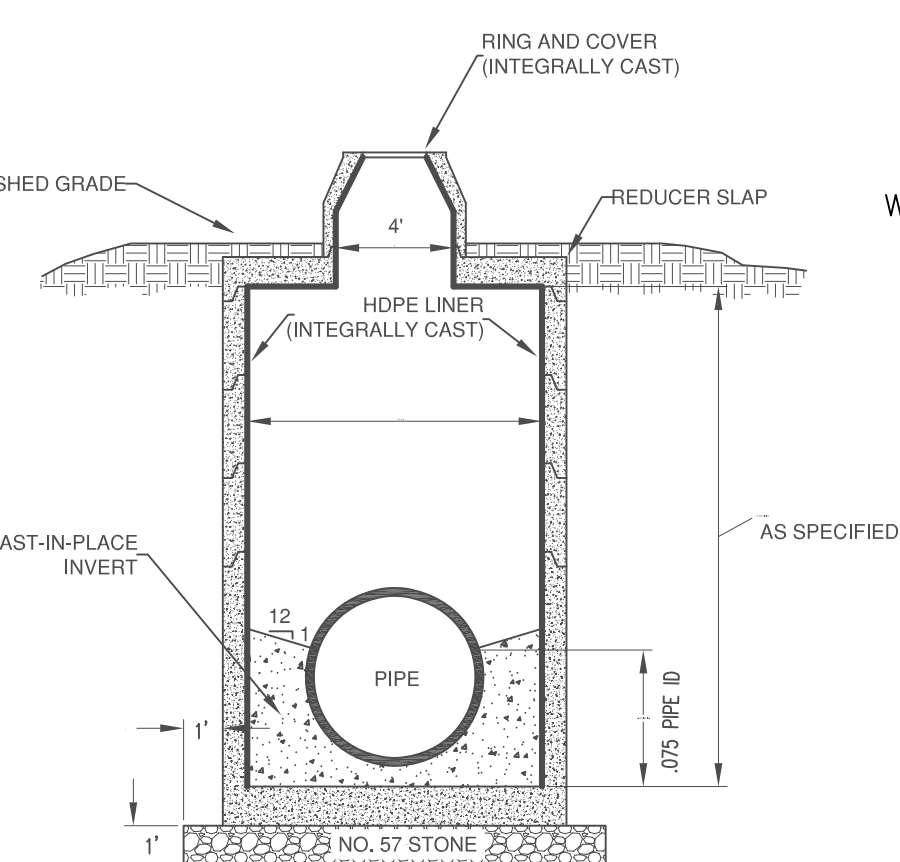


CIPP AT RCP/FRPMP TRANSITION DETAIL (TYPICAL)
N.T.S.



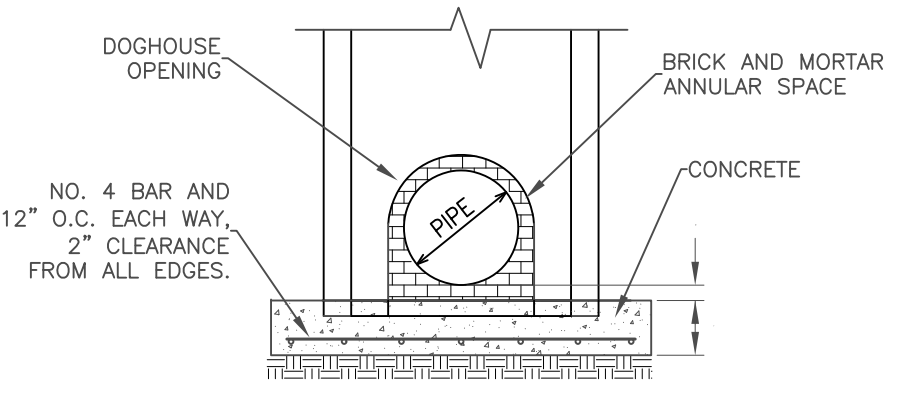
1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES.
2. SHELF AND INVERT SHALL BE TROWEL FINISHED.
3. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.
4. INSTALL 4" DIAMETER CONE SECTION ON THE UPSTREAM SIDE OF THE LARGE DIAMETER MANHOLE.

LARGE DIAMETER MANHOLE SECTION
N.T.S.

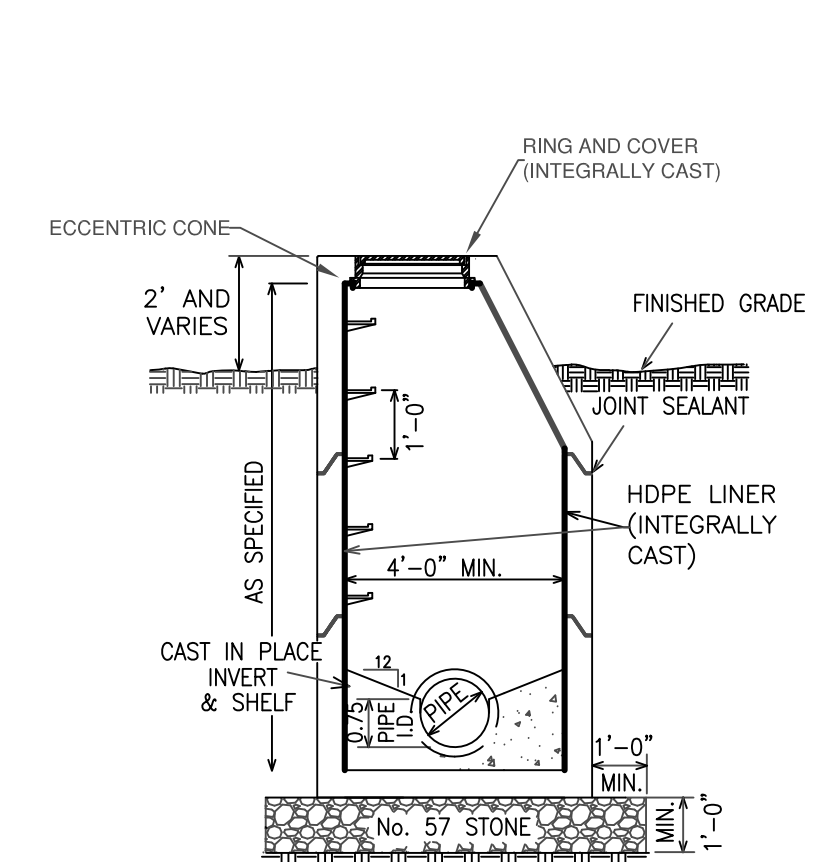


1. BRICKS SHALL BE STACKED NO MORE THAN FIVE COARSE.
2. BRICKS SHALL BE BEDDED AND JOINTED IN MORTAR PER CCWA SPECIFICATIONS.
3. CONTRACTOR SHALL APPLY A MINIMUM 1/2" THICK MORTAR COATING (SMOOTH FINISH) TO INTERIOR FACE OF BRICK.

TYPICAL MANHOLE IN PAVEMENT
N.T.S.

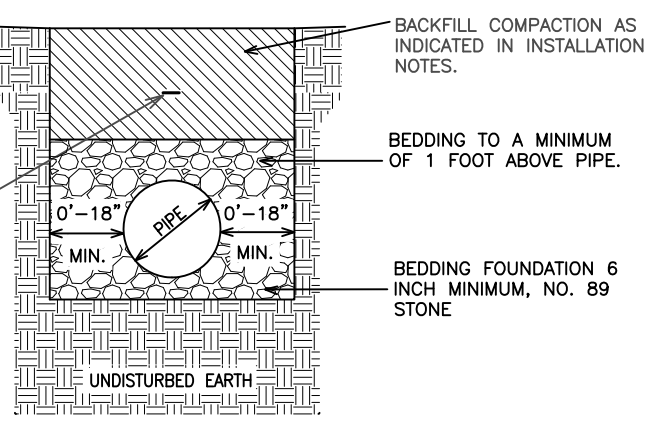


DOGHOUSE MANHOLE OVER EXISTING SEWER
N.T.S.



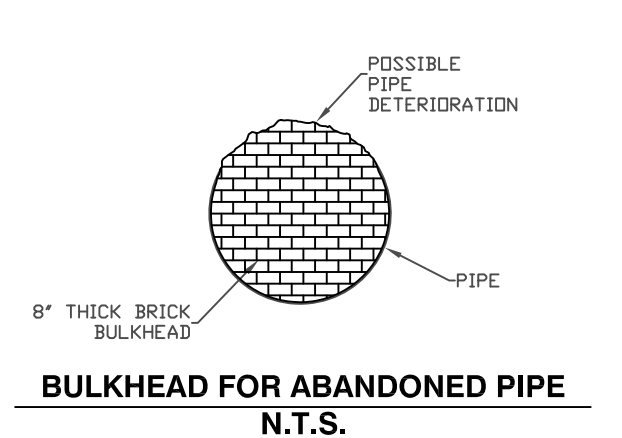
1. MAINTAIN 1/2" CLEARANCE BETWEEN PIPE AND CAST-IN PLACE INVERT AT ALL EDGES / SURFACES.
2. SHELF AND INVERT SHALL BE TROWEL FINISHED.
3. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 2 INCHES GROUT OVER BRICK.

SMALL DIAMETER MANHOLE SECTION
N.T.S.

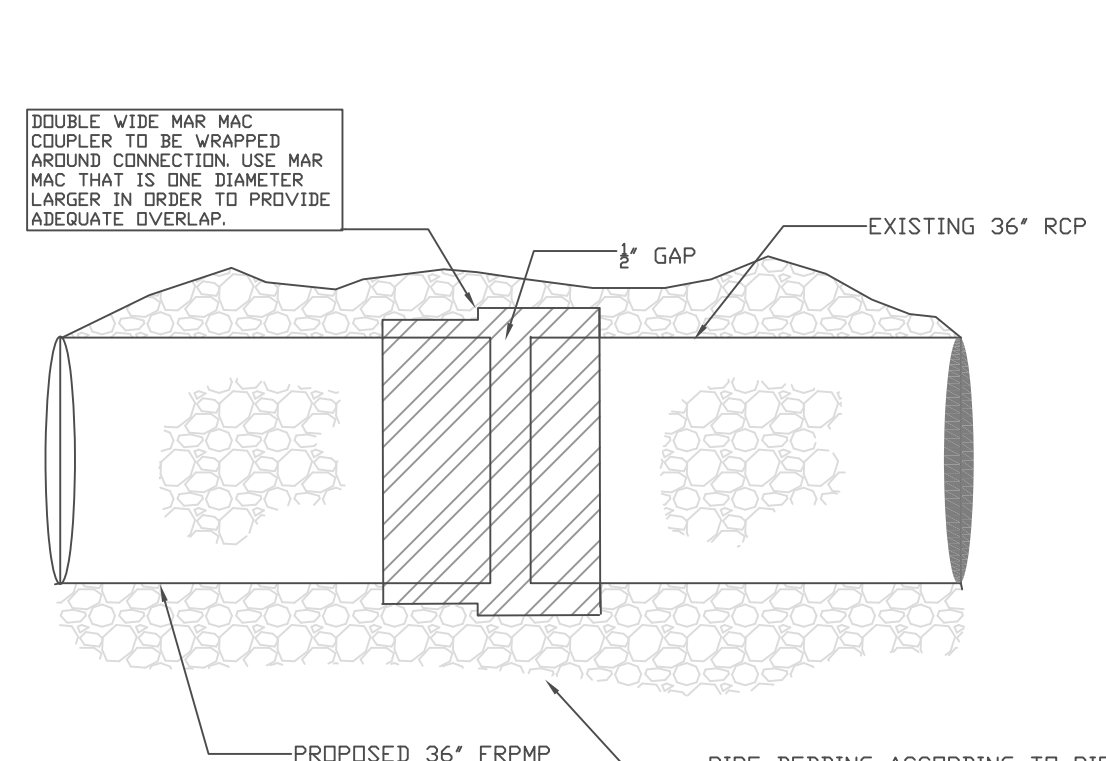


- NOTE: 1) UNSUITABLE SOILS ENCOUNTERED IN BOTTOM OF EXCAVATED TRENCH SHALL BE EXCAVATED & REPLACED WITH NO. 57 STONE. ONLY SUITABLE SOIL SHALL BE USED AS BACKFILL.

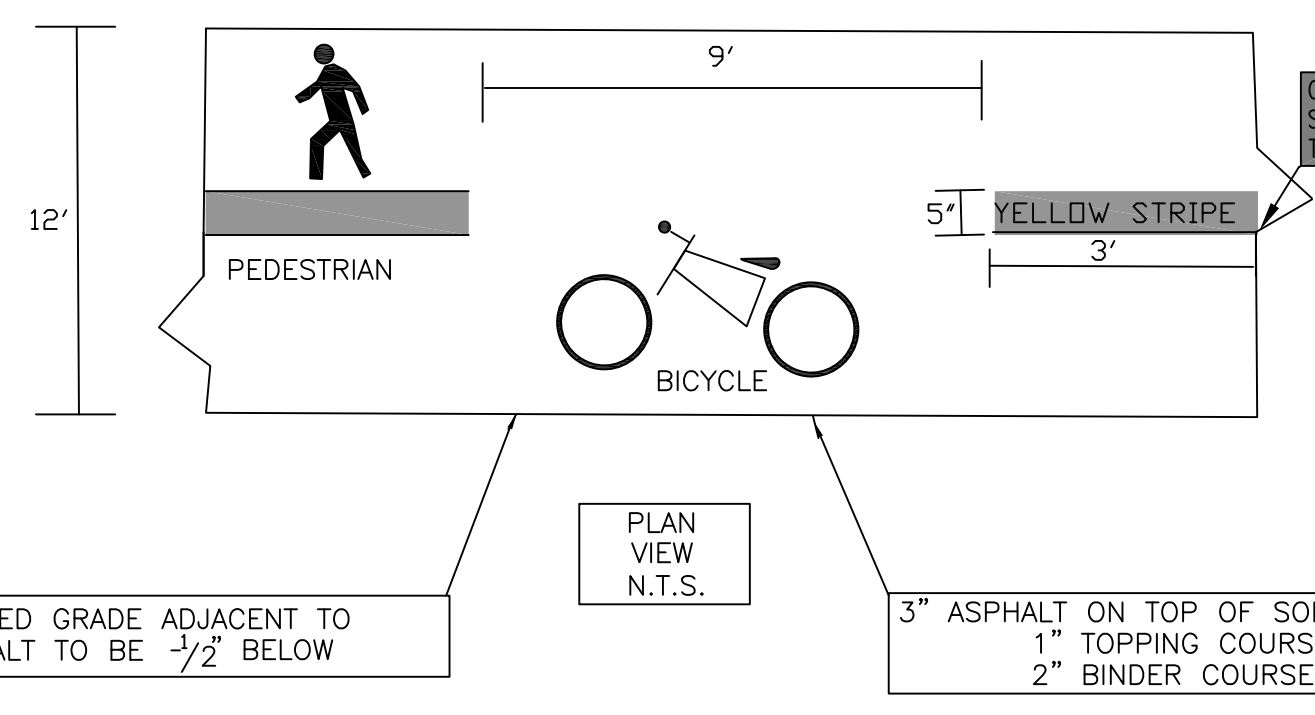
TYPICAL SANITARY SEWER PIPE BEDDING
N.T.S.



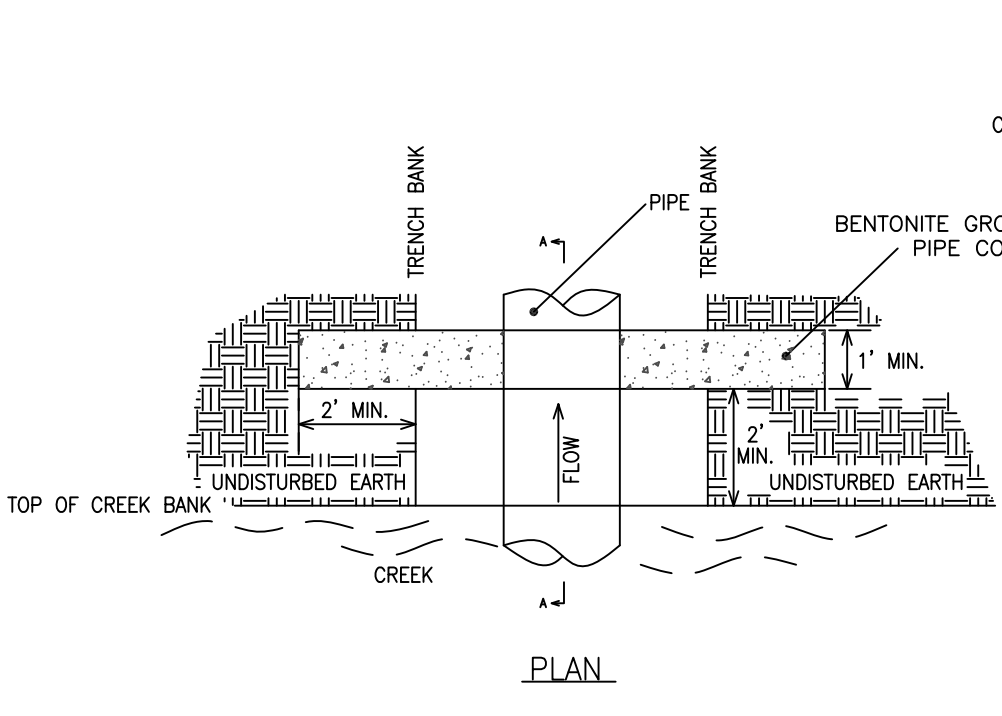
BULKHEAD FOR ABANDONED PIPE
N.T.S.



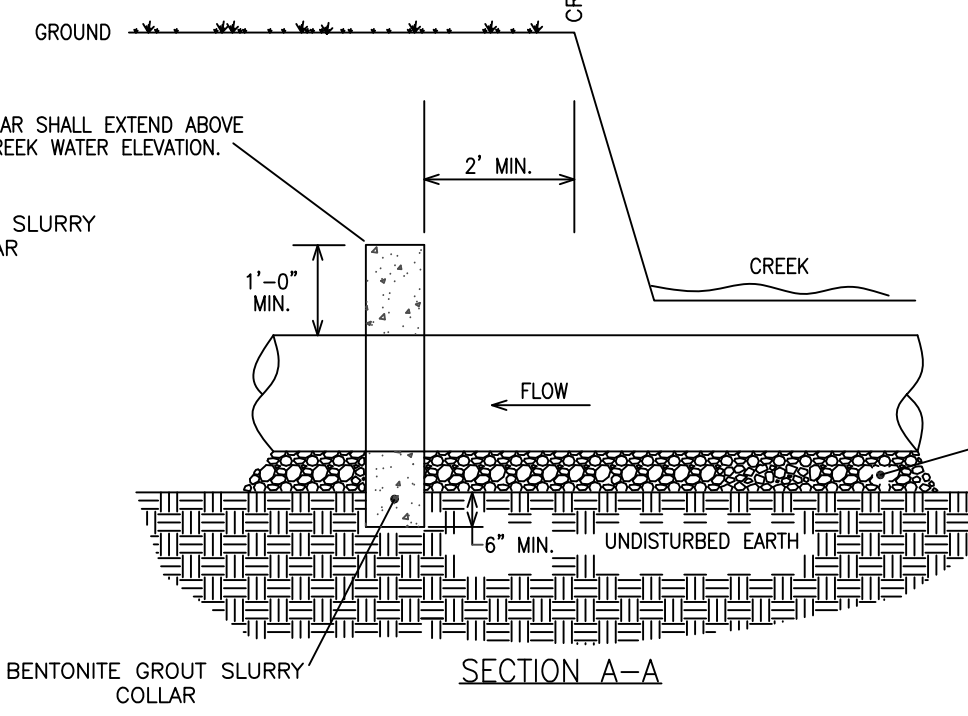
TYPICAL CURB AND GUTTER
N.T.S.



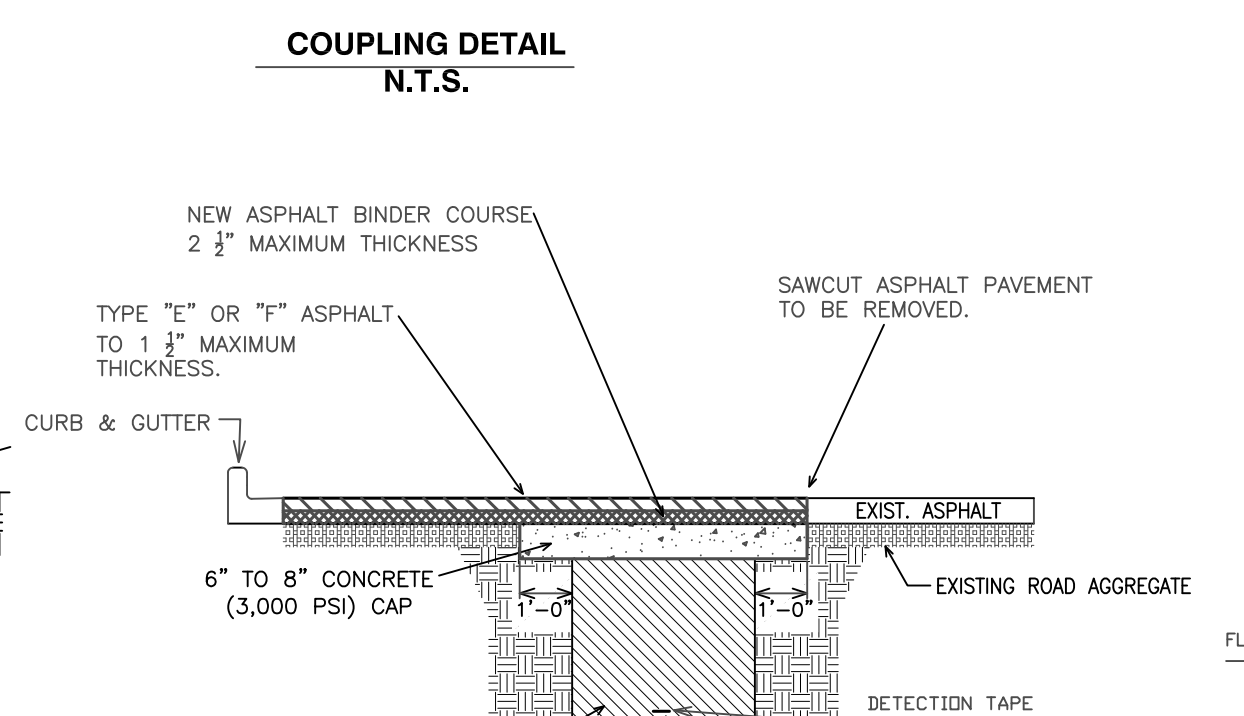
WALKING TRAIL REPLACEMENT DETAIL
N.T.S.



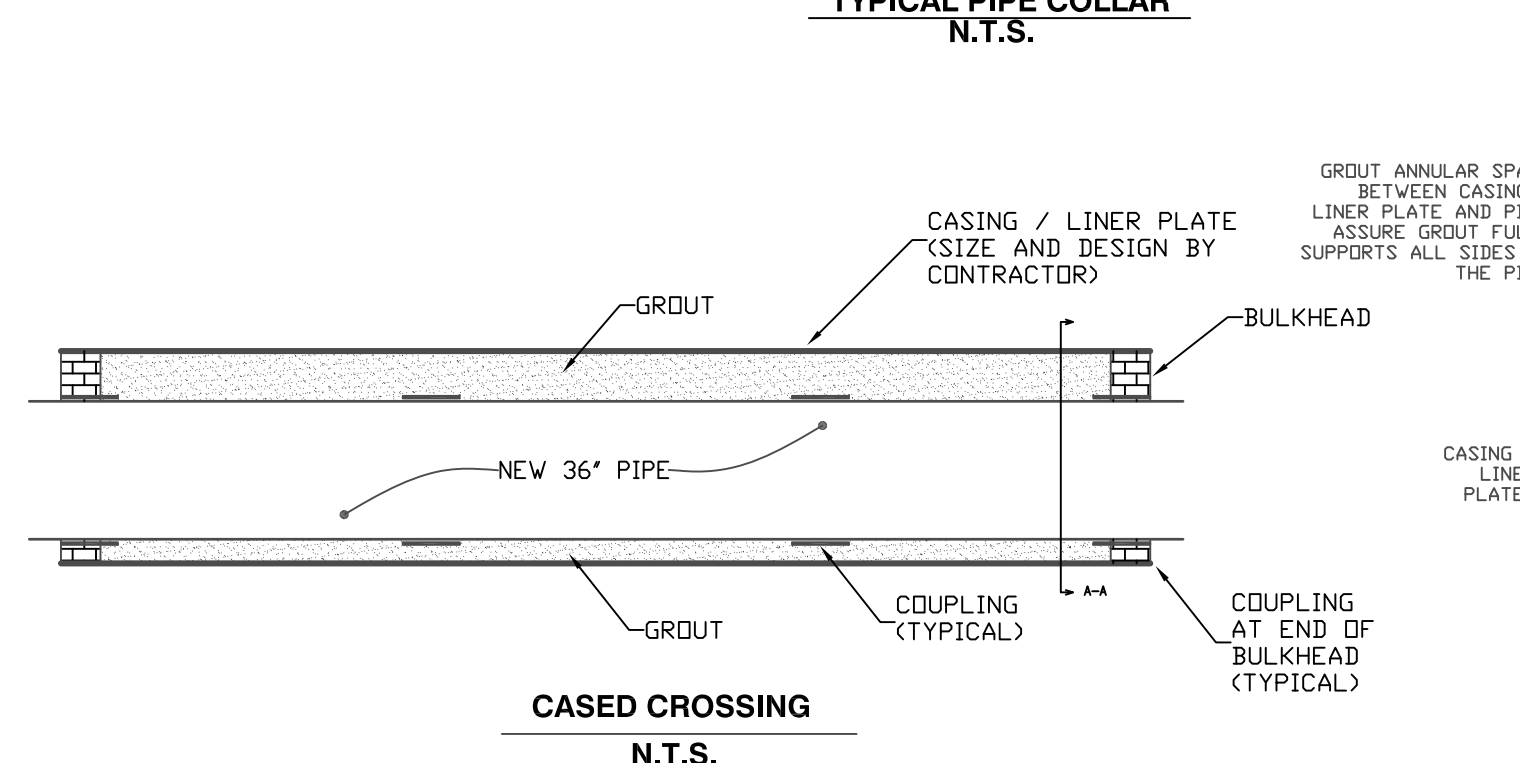
TYPICAL PIPE COLLAR
N.T.S.



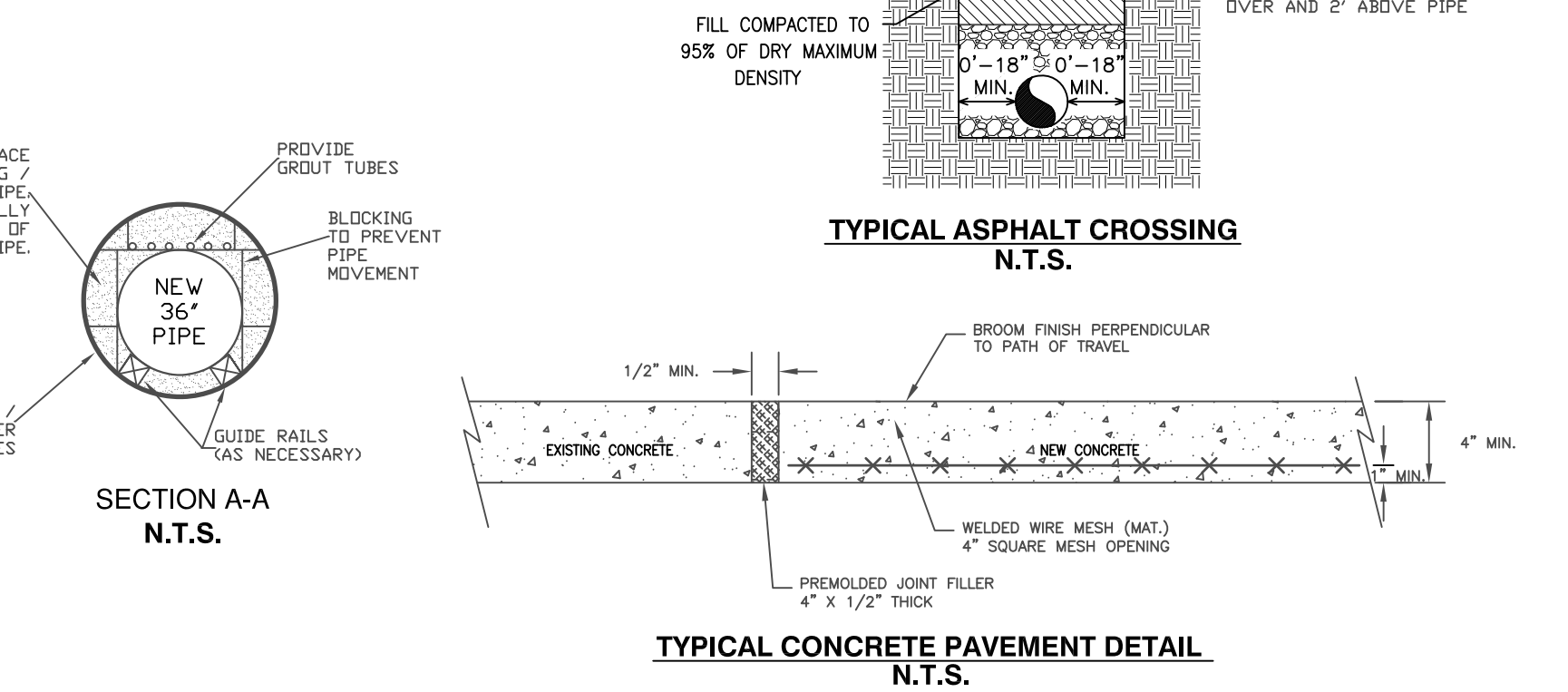
COUPLING DETAIL
N.T.S.



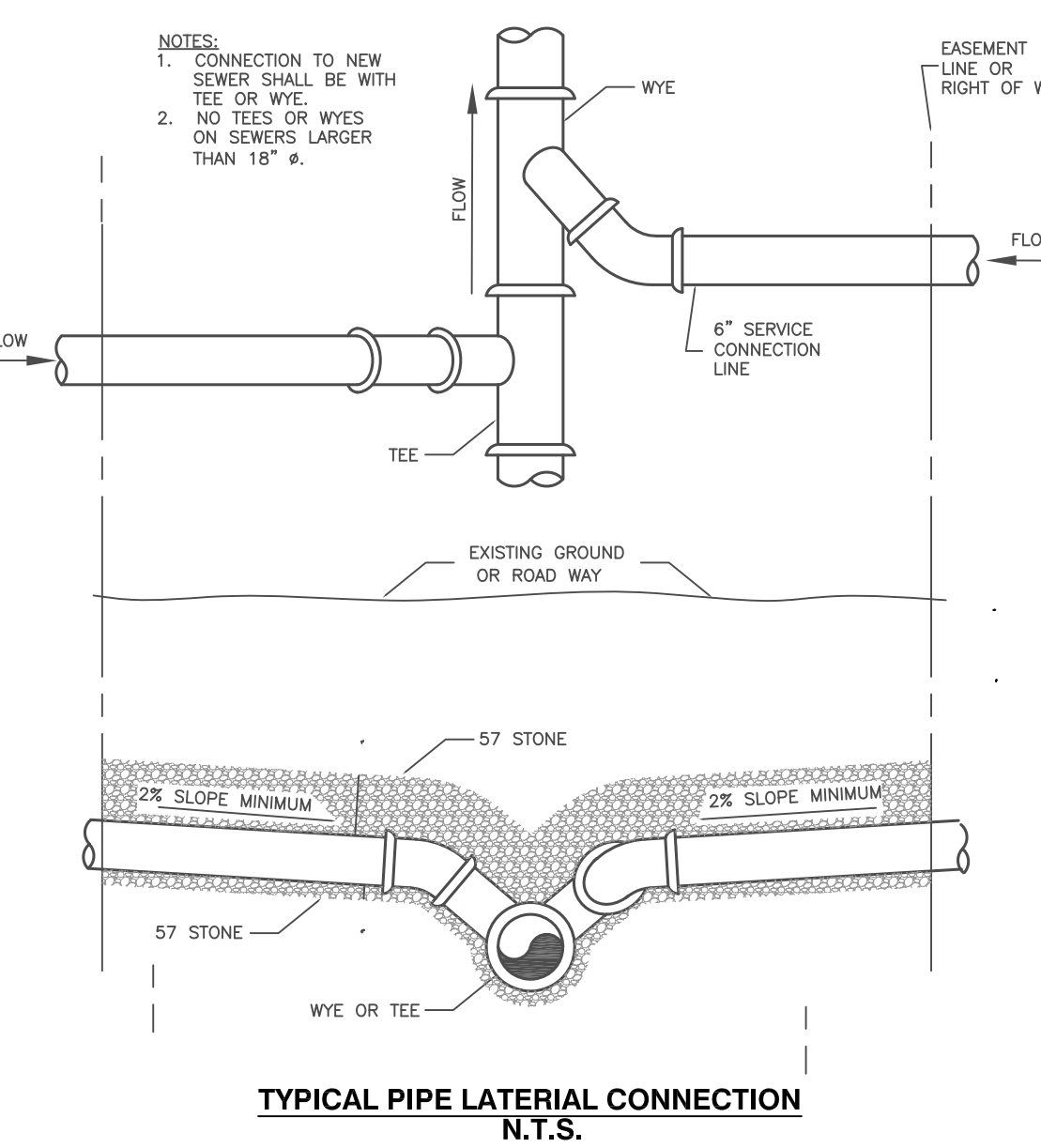
TYPICAL ASPHALT CROSSING
N.T.S.



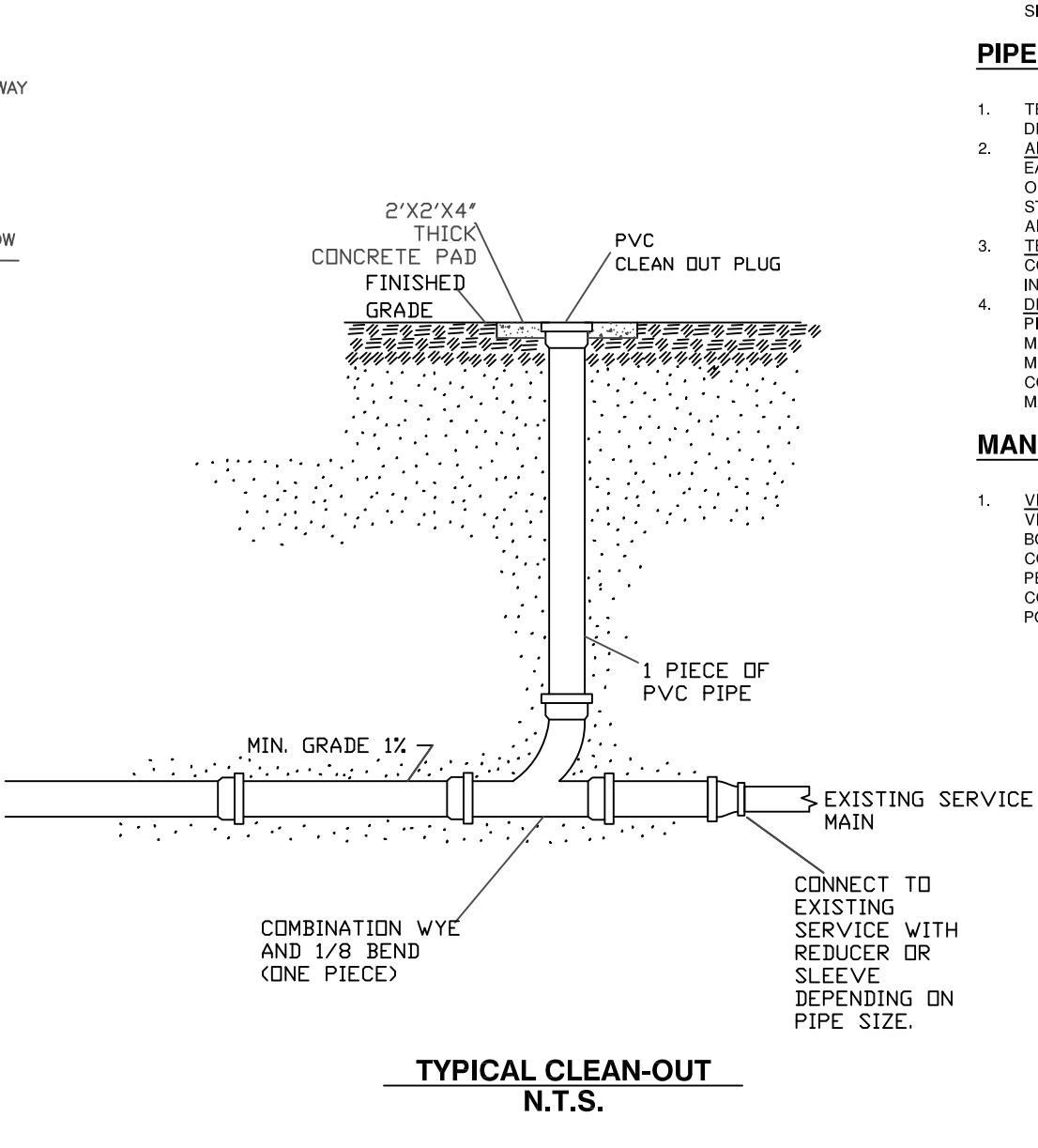
CASED CROSSING
N.T.S.



TYPICAL CONCRETE PAVEMENT DETAIL
N.T.S.



TYPICAL PIPE LATERAL CONNECTION
N.T.S.



TYPICAL CLEAN-OUT
N.T.S.

GENERAL NOTES

1. CONSTRUCTION OF THE SANITARY SEWER MAIN SHALL CONFORM TO THE CLAYTON COUNTY WATER AUTHORITY (CCWA) DOCUMENT TITLED "CONSTRUCTION SPECIFICATIONS FOR THE JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE ONE."
2. ALL WORK SHALL BE PERFORMED BY A GEORGIA LICENSED UTILITY CONTRACTOR.
3. CONTRACTOR SHALL HAVE A CLAYTON COUNTY WATER AUTHORITY APPROVED SET OF PLANS ON THE JOB SITE AT ALL TIMES.
4. CONTRACTOR SHALL NOTIFY THE CLAYTON COUNTY WATER AUTHORITY 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. (770-961-2130)
5. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO BEGINNING CONSTRUCTION.
6. CCWA SHALL OBTAIN ALL LAND DISTURBANCE ACTIVITY AND GRADING PERMITS.
7. ALL PERMANENT EASEMENTS AND CONSTRUCTION EASEMENTS SHALL BE OBTAINED BY CLAYTON COUNTY WATER AUTHORITY BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIAL UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR SECURING/STABILIZING UTILITY POLES.
10. ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST POSSIBLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. EMERGENCY CONTACT NUMBERS AND PROCEDURES FOR SPILLS SHALL BE AVAILABLE ON-SITE.

SITE PREPARATION AND COMPLETION

1. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE CONSTRUCTION LIMITS INDICATED ON THE APPROVED PLANS.
2. CONTRACTOR SHALL PERFORM ALL SURVEY WORK ON PROJECT.
3. CONTRACTOR SHALL AT ALL TIMES, MAINTAIN FLAG MEN, SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER SAFETY DEVICES IN ACCORDANCE WITH THE CCWA'S CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS MAY BE NECESSARY TO PROPERLY PROTECT TRAFFIC UPON THE ROAD AND TO WARN AND SAFEGUARD THE PUBLIC AGAINST HAZARD OR INJURY OR DAMAGE.
4. MATERIAL STAGING AREA SHALL BE COORDINATED WITH CCWA.
5. THE 20-FOOT WIDE CONSTRUCTION LANE MAY BE CLEARED AT THE CONTRACTOR'S DISCRETION. A 20-FOOT WIDE LANE CLEARED OVER THE PIPE ALIGNMENT SHALL BE CLEARED OF ALL TREES AND DEBRIS.
6. TREES, ASPHALT, AND OTHER CONSTRUCTION DEBRIS SHALL BE REMOVED OFF SITE BY CONTRACTOR. EXCAVATED SOIL NOT USED IN BACK FILL SHALL BE REMOVED OFF SITE BY CONTRACTOR.
7. REMOVAL OF TREES SHALL BE AS NECESSARY TO FACILITATE CONSTRUCTION. NO FENCING SHALL BE LEFT DOWN/NOT SECURED OVERNIGHT. ANY FENCING DAMAGED SHALL BE REPLACED WITH NEW TO MATCH EXISTING CONDITIONS AND DIMENSIONS.

EXCAVATION

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLY AND REPLACEMENT OF ROCK EXCAVATION WITH SUITABLE SOIL. SUITABLE SOIL SHALL BE SOIL THAT DOES NOT CONTAIN ORGANIC DEBRIS LARGER OR ROCK GREATER THAN 4 INCH IN SIZE.
2. TRENCH BOXES SHALL BE UTILIZED WHEN TRENCHING THROUGH RESIDENTIAL PROPERTY AND PUBLIC RIGHT OF WAYS.

INSTALLATION

1. PIPES SHALL BE LAID IN ACCORDANCE WITH APPLICABLE DETAILS. OVER EXCAVATION OR REMOVAL OF UNSUITABLE SOIL SHALL BE REPLACED WITH STONE.
2. PIPES SHALL BE LAID IN DRY CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING.
3. LAYING AND JOINTING OF PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. DAMAGED PIPE AND FITTINGS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS REQUIRED BY THE CCWA. REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. MANHOLE COVERS NOT LOCATED IN PAVED AREAS SHALL BE INTEGRALLY CAST IN THE TOP CONE SECTION.
6. MANHOLES NOT LOCATED IN PAVED AREAS SHALL HAVE A FIRM ELEVATION NOT LESS THAN 24 INCHES FROM FINISHED GROUND ELEVATION, UNLESS OTHERWISE NOTED.
7. MAINTAIN A 16-FOOT HORIZONTAL SEPARATION AND A 24-INCH VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES UNLESS INDICATED OTHERWISE.
8. INSTALL WARNING TAPE ABOVE PIPE AS INDICATED ON TYPICAL PIPE DETECTION INSTALLATION DETAIL.
9. FROM THE BOTTOM OF PIPE TO PIPE DIAMETER, PIPE BEDDING MATERIAL SHALL BE SHOVEL SLICES/CONSOLIDATED USING ANY MEANS PRIOR TO PLACING SUBSEQUENT BACKFILL.
10. BACK FILL UNDERLYING PAVEMENT, DIRT AND GRAVEL ROADS AND ROAD RIGHT OF WAYS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D-698).
11. BACK FILL NOT UNDERLYING PAVED AREAS SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR ANALYSIS (ASTM D-698).
12. CREEK CROSSINGS SHALL BE ACCOMPLISHED USING MUD MATS WITH BOTTOM OF MAT ELEVATION ABOVE SURFACE WATER LEVEL.
13. ANY EXISTING ROAD SIGN REMOVED FOR CONSTRUCTION SHALL BE REPLACED BY THE END OF THE WORKING DAY.
14. THE CONTRACTOR SHALL NOT CLOSE OR BLOCK ANY HIGHWAY, STREET, OR ROADWAY WITHOUT FIRST OBTAINING PERMISSION FROM THE PROPER AUTHORITIES.
15. THE CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATION OF ALL FENCES WITH PROPERTY OWNERS PRIOR TO CROSSING HOME OWNERS PROPERTY IF NECESSARY DUE TO PITS OR LIEBHOOK.
16. THE CONTRACTOR SHALL REPLACE ALL FENCE WITH EXISTING FENCE MATERIAL UNLESS EXISTING FENCE MATERIALS ARE DAMAGED. IF MATERIALS ARE DAMAGED, CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING WITH NEW MATERIAL.

CONCRETE AND PAVEMENT

1. ALL CONCRETE SHALL HAVE A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED OTHERWISE.
2. SAW CUT ASPHALT AND CONCRETE PAVEMENT TO BE REMOVED. CONTRACTOR SHALL MATCH NEW PAVEMENT EDGES TO EXISTING PAVEMENT EDGES.
3. WIDTH OF PAVEMENT AND CURB REPLACEMENT SHALL NOT EXCEED 12 FEET UNLESS NOTED OTHERWISE.
4. WORK PERFORMED THROUGH AREAS OF PAVEMENT SHALL BE IMMEDIATELY COMPLETED TO GRADE WITH GRADED AGGREGATE BASE. PAVEMENT SHALL BE REPLACED NO LATER THAN THE DAY AFTER REMOVAL. TEMPORARY PAVEMENT REPLACEMENT MAY BE ALLOWED AT THE DISCRETION OF THE CCWA INSPECTOR. ANY IN-PLACE PAVEMENT SHALL NOT EXCEED 12 FEET UNLESS NOTED OTHERWISE.
5. CONCRETE DRIVEWAY SHALL HAVE TOGGLED OR SAW CUT CONTROL JOINTS SPACED AT NOT GREATER THAN 1.5 TIMES DRIVEWAY WIDTH. CONTROL JOINTS SHALL HAVE A MINIMUM DEPTH OF 1 INCH. SAW CUT CONTROL JOINT WITHIN 24 HOURS OF PLACING CONCRETE.
6. ALL FORM MATERIAL SHALL BE REMOVED PRIOR TO BACK FILL.
7. ALL CAST-IN-PLACE CONCRETE SHALL BE PLACED IN WOOD FORMS UNLESS NOTED OTHERWISE.
8. ALL FORM MATERIAL SHALL BE REMOVED PRIOR TO BACK FILL.
9. CONCRETE FORMS SHALL SUPPORT PLACED CONCRETE FOR A MINIMUM OF 12 HOURS UNLESS NOTED OTHERWISE.
10. CONCRETE TRUCK WASHOUT SHALL BE CONTAINED WITHIN TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED OR NON-DISTURBED AREAS.

PIPE TESTING

1. TESTING SHALL BE PERFORMED WHEN ALL BACKFILL TO FINISHED AND COMPACTION ARE COMPLETE AND DEWATERING HAS BEEN DISCONTINUED FOR A MINIMUM 24 HOUR PERIOD AT THE LOCATION OF THE TEST.
2. AIR PRESSURE TESTING: GRAVITY SEWER PIPE SHALL BE SUBJECTED TO A LOW AIR PRESSURE TEST AT EACH JOINT. PIPE SHALL BE FREE OF DIRT AND DEBRIS PRIOR TO TESTING. THE INTERNAL AIR PRESSURE OF THE PIPE SHALL BE RAISED TO APPROXIMATELY FOUR (4) PSI. THE TEST SHALL BEGIN WHEN THE STABILIZED PRESSURE IS AT A MINIMUM OF 3 PSI. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN AN AIR PRESSURE EQUIVALENT TO THE STABILIZED PRESSURE IS MAINTAINED FOR A PERIOD OF 5 MINUTES.
3. TELEVISION: GRAVITY SEWER PIPE SHALL BE TELEVISION INSPECTED. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN THE TELEVISION PIPE DOES NOT REVEAL THE FOLLOWING: CRACKS IN PIPE, PROTRUDING GASKETS, LEAKING JOINTS, PIPE DEFORMATIONS, OTHER DEFICIENCIES.
4. DEFORMATION TESTING: GRAVITY SEWER PIPE SHALL BE TESTED FOR DEFORMATION OF THE PIPE. PIPE SHALL BE FREE OF DIRT AND DEBRIS. DEFORMATION MAY NOT BE MORE THAN 3% OF THE PIPES MANUFACTURED PUBLISHED DIAMETER. DEFORMATION SHALL BE DETERMINED BY USING A STANDARD MEASURING DEVICE THROUGHOUT THE ENTIRE LENGTH OF THE PIPE SEGMENTS. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN MEASURED DEFORMATION IS LESS THAN 3% OF THE PIPES MANUFACTURED PUBLISHED INSIDE DIAMETER.

MANHOLE TESTING

1. VISUAL TESTING: EACH MANHOLE SHALL BE TESTED. MANHOLE TESTING SHALL BE PERFORMED BY VISUALLY OBSERVING FOR WATER INFILTRATION AT ALL MANHOLE SECTIONS. AT ALL MANHOLE (RUBBER BOOT SEAL CONNECTIONS). TESTING SHALL BE PERFORMED WHEN ALL BACKFILL TO FINISH GRADE AND COMPACTION ARE COMPLETE AND DEWATERING HAS BEEN DISCONTINUED FOR A MINIMUM 24 HOUR PERIOD AT THE LOCATION OF THE TEST AND PRIOR TO SEALING HOPE LINER JOINTS. TEST SHALL BE CONSIDERED ACCEPTABLE WHEN NO WATER INFILTRATION IS OBSERVED AT ANY DESCRIBED OBSERVATION POINTS.



Know what's below.
Call before you dig.

PLANS PREPARED BY: CCWA

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

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PROJECT NAME:
JESTERS CREEK EAST OUTFALL REPLACEMENT PHASE ONE

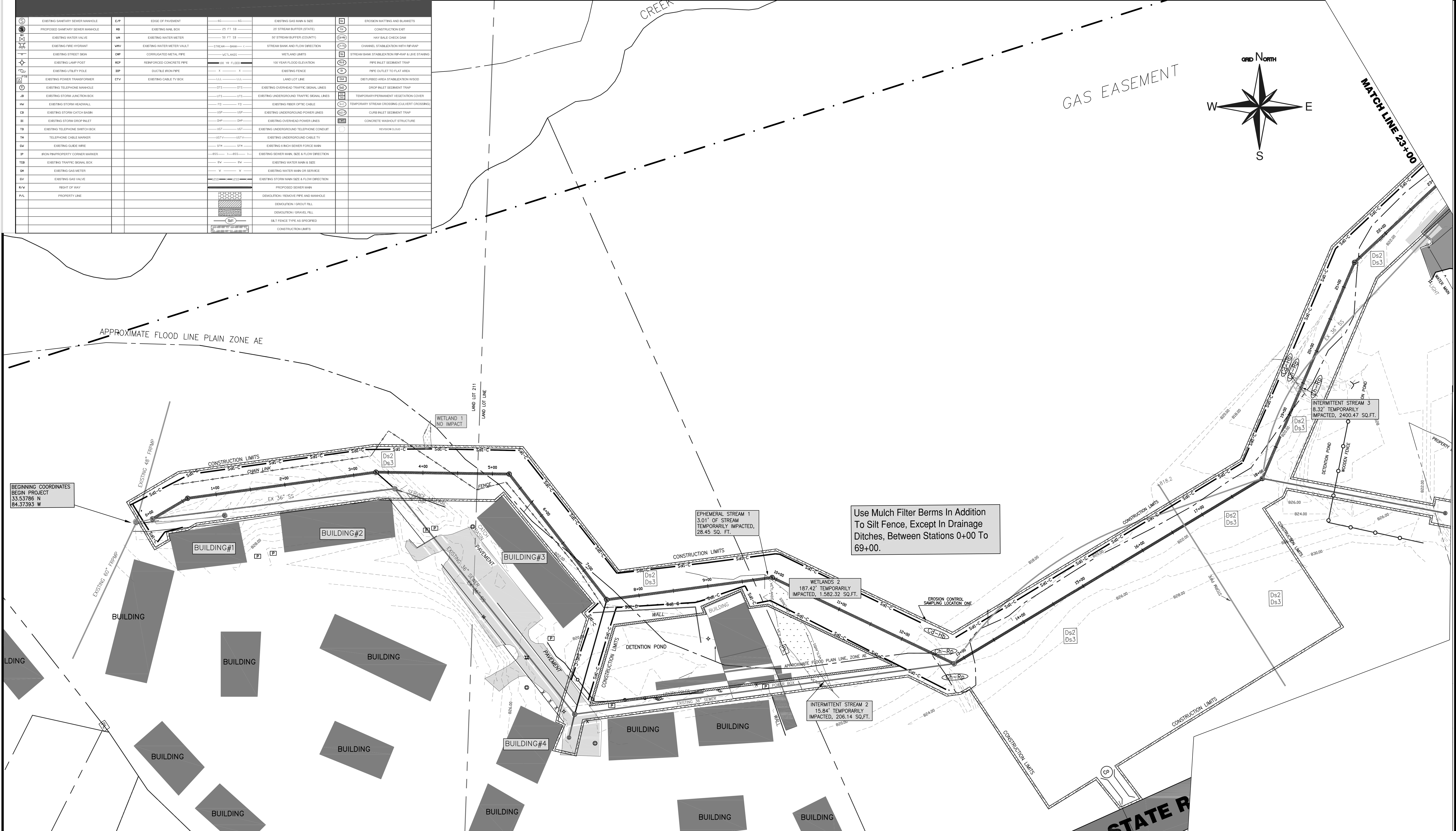
LAND LOTS 207,208,209,210&211 DISTRICT
13 CLAYTON COUNTY, GEORGIA

SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: CONSTRUCTION DETAILS		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	P-10
JRM	SCALE:	N.T.S.
CHECKED BY:	SHEET NUMBER	14 OF 21

⊙	EXISTING SANITARY SEWER MANHOLE	E/P	EDGE OF PAVEMENT	—60—60—	EXISTING GAS MAIN & SIZE	□	ERODION MATTING AND BLANKETS
⊙	PROPOSED SANITARY SEWER MANHOLE	MB	EXISTING MWL BOX	—25 FT 58—	2" STREAM BUFFER (STATE)	⊙	CONSTRUCTION ERT
⊙	EXISTING WATER VALVE	WV	EXISTING WATER METER	—50 FT 58—	5" STREAM BUFFER (COUNTY)	⊙	HAY BALE CHECK DAM
⊙	EXISTING FIRE HYDRANT	WHV	EXISTING WATER METER VAULT	—STREAM—BANK—	STREAM BANK AND FLOW DIRECTION	⊙	CHANNEL STABILIZATION WITH RIPRAP
⊙	EXISTING STREET DRAIN	D/P	CONFLUENT METAL PIPE	—WETLANDS—	WETLAND LIMITS	⊙	STREAM BANK STABILIZATION REPAIR & LIVE STAKES
⊙	EXISTING LAMP POST	R/P	REINFORCED CONCRETE PIPE	—100 YR FLOOD—	100 YEAR FLOOD ELEVATION	⊙	PIPE INLET SEDIMENT TRAP
⊙	EXISTING UTILITY POLE	D/P	DUCTILE IRON PIPE	—X—X—	EXISTING FENCE	⊙	PIPE OUTLET TO FLAT AREA
⊙	EXISTING POWER TRANSFORMER	CTV	EXISTING CABLE TV BOX	—LLL—LLL—	LAND LOT LINE	⊙	DETURBED AREA STABILIZATION WOOD
⊙	EXISTING TELEPHONE MANHOLE			—DTS—DTS—	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	⊙	DROP INLET SEDIMENT TRAP
⊙	EXISTING STORM JUNCTION BOX			—DTS—DTS—	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	⊙	TEMPORARY/PERMANENT VEGETATION COVER
⊙	EXISTING STORM HEADWALL			—FD—FD—	EXISTING FIBER OPTIC CABLE	⊙	TEMPORARY STREAM CROSSING (VALVE CROSSING)
⊙	EXISTING STORM CATCH BASIN			—UGP—UGP—	EXISTING UNDERGROUND POWER LINES	⊙	CURB INLET SEDIMENT TRAP
⊙	EXISTING STORM DROPPLET			—D/P—D/P—	EXISTING OVERHEAD POWER LINES	⊙	CONCRETE WASHOUT STRUCTURE
⊙	EXISTING TELEPHONE SWITCH BOX			—UGT—UGT—	EXISTING UNDERGROUND TELEPHONE CONDUIT	⊙	REVISION CLOUD
⊙	TELEPHONE CABLE MARKER			—UGTV—UGTV—	EXISTING UNDERGROUND CABLE TV		
⊙	EXISTING GUIDE WIRE			—5"X—5"X—	EXISTING 8 INCH SEWER FORCE MAIN		
⊙	IRON PIN/PROPERTY CORNER MARKER			—EES—EES—	EXISTING SEWER MAIN SIZE & FLOW DIRECTION		
⊙	EXISTING TRAFFIC SIGNAL BOX			—5"V—5"V—	EXISTING WATER MAIN & SIZE		
⊙	EXISTING GAS METER			—V—V—	EXISTING WATER MAIN OR SERVICE		
⊙	EXISTING GAS VALVE			—DTS—DTS—	EXISTING STORM MAIN SIZE & FLOW DIRECTION		
⊙	RIGHT OF WAY				PROPOSED SEWER MAIN		
⊙	PROPERTY LINE				DEMOLITION / REMOVE PIPE AND MANHOLE		
					DEMOLITION / GROUT FILL		
					DEMOLITION / GRAVEL FILL		
					SILT FENCE TYPE AS SPECIFIED		
					CONSTRUCTION LIMITS		



BEGINNING COORDINATES
BEGIN PROJECT
33.53786 N
84.37393 W

Use Mulch Filter Berms In Addition
To Silt Fence, Except In Drainage
Ditches, Between Stations 0+00 To
69+00.

PLANS PREPARED BY:

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

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PROJECT NAME:
**JESTERS CREEK EAST
OUTFALL REPLACEMENT
PHASE ONE**

LAND LOTS 207,208,209,210&211 DISTRICT
13 CLAYTON COUNTY, GEORGIA

SEAL:

REVISIONS:


DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: EROSION CONTROL PLAN

DESIGN BY: CCWA	DATE: 1-15-19
DRAWN BY: JRM	JOB #: 81810
CHECKED BY:	DRAWING #: ES-1
	SCALE: 1"=60'
SHEET NUMBER 15 OF 21	

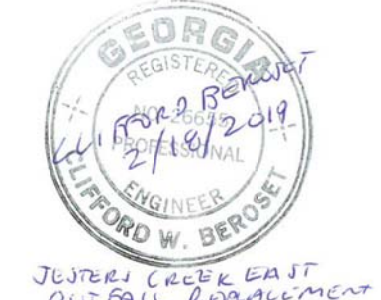
ES	EXISTING SANITARY SEWER MANHOLE	E/S	EDGE OF PAVEMENT	65	65	EX	EXISTING GAS MAIN & SIZE	ES	EROSION MATTING AND BLANKETS
PS	PROPOSED SANITARY SEWER MANHOLE	NS	EXISTING MAIL BOX	25 FT	58	CS	25' STREAM BUFFER (STATE)	CS	CONSTRUCTION EMT
WS	EXISTING WATER VALVE	WM	EXISTING WATER METER	50 FT	58	CS	50' STREAM BUFFER (COUNTY)	CS	HAY BALE CHECK DAM
WH	EXISTING FIRE HYDRANT	WHV	EXISTING WATER METER VAULT	STREAM-BANK	←	CS	STREAM BANK AND FLOW DIRECTION	CS	CHANNEL STABILIZATION WITH REINFORC
WS	EXISTING STREET SIGN	CMF	CORRUGATED METAL PIPE	WETLANDS	←	CS	STREAM BANK STABILIZATION REINFORC & LIVE STAKING	CS	PIPE INLET SEDIMENT TRAP
WP	EXISTING STREET LIGHT	RCF	REINFORCED CONCRETE PIPE	100 YR FLOOD	←	CS	100 YEAR FLOOD ELEVATION	CS	PIPE OUTLET TO FLAT AREA
UP	EXISTING UTILITY POLE	BP	DUCTILE IRON PIPE	X	X	CS	EXISTING FENCE	CS	DISTURBED AREA STABILIZATION W/WOOD
PT	EXISTING POWER TRANSFORMER	CTV	EXISTING CABLE TV BOX	LLL	LLL	CS	LAND LOT LINE	CS	TEMPORARY PERMANENT VEGETATION COVER
TE	EXISTING TELEPHONE MANHOLE	OTS	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	OTS	OTS	CS	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	CS	CONCRETE WASHOUT STRUCTURE
JS	EXISTING STORM JUNCTION BOX	UTS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	UTS	UTS	CS	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	CS	WEIR/ROM/CLSD
HS	EXISTING STORM HEADWALL	FD	EXISTING FIBER OPTIC CABLE	FD	FD	CS	EXISTING FIBER OPTIC CABLE	CS	
CS	EXISTING STORM CATCH BASIN	UP	EXISTING UNDERGROUND POWER LINES	UP	UP	CS	EXISTING UNDERGROUND POWER LINES	CS	
SI	EXISTING STORM DRAIN INLET	DP	EXISTING DRAINAGE PIPE	DP	DP	CS	EXISTING DRAINAGE PIPE	CS	
TS	EXISTING STORM DRAIN BOX	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
TK	EXISTING TELEPHONE BOX	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
TK	EXISTING TELEPHONE CABLE MARKER	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
SV	EXISTING GUIDE WIRE	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
SP	IRON PIN/PROPERTY CORNER MARKER	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
TSB	EXISTING TRAFFIC SIGNAL BOX	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
GM	EXISTING GAS METER	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
GV	EXISTING GAS VALVE	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
R/W	RIGHT OF WAY	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	
P/L	PROPERTY LINE	USP	EXISTING UNDERGROUND POWER CONDUIT	USP	USP	CS	EXISTING UNDERGROUND POWER CONDUIT	CS	



PLANS PREPARED BY:

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

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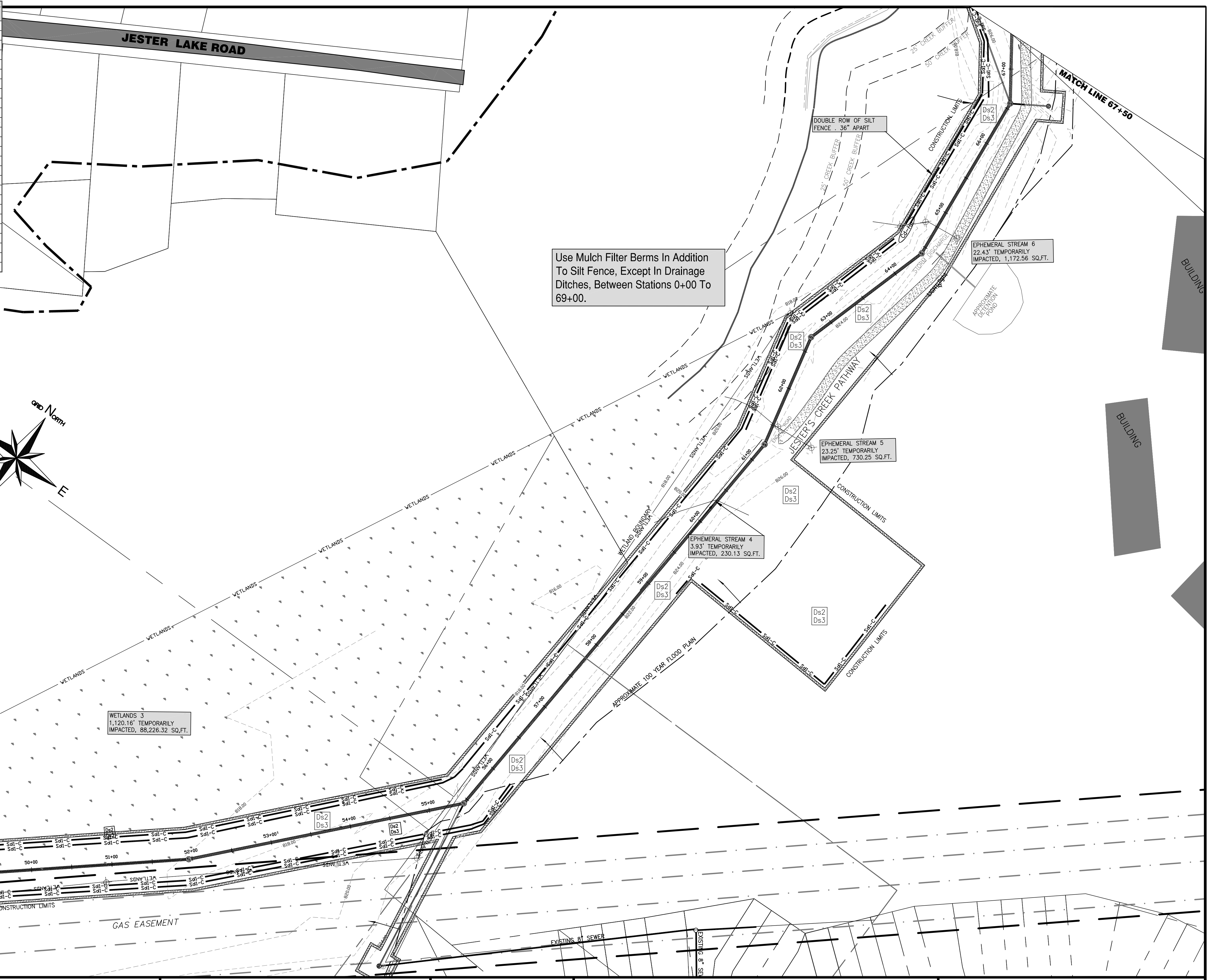
PROJECT NAME:
**JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE**
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA


SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:
3/20/19	1		REVISED CONSTRUCTION LANE/EASEMENT

SHEET TITLE: EROSION CONTROL PLAN		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
JRM	DRAWING #:	ES-2
CHECKED BY:	SCALE:	1"=60'
	SHEET NUMBER	16 OF 21

LEGEND			
	EXISTING SANITARY SEWER MANHOLE		EDGE OF PAVEMENT
	PROPOSED SANITARY SEWER MANHOLE		EXISTING MAN BOX
	EXISTING WATER VALVE		EXISTING WATER METER
	EXISTING FIRE HYDRANT		EXISTING WATER METER VAULT
	EXISTING STREET SIGN		CORRUGATED METAL PIPE
	EXISTING LAMP POST		REINFORCED CONCRETE PIPE
	EXISTING UTILITY POLE		DUCTILE IRON PIPE
	EXISTING POWER TRANSFORMER		EXISTING CABLE TV BOX
	EXISTING TELEPHONE MANHOLE		EXISTING STORM JUNCTION BOX
	EXISTING STORM HEADWALL		EXISTING STORM DROP INLET
	EXISTING STORM CATCH BASIN		EXISTING TELEPHONE SWITCH BOX
	EXISTING STORM DROP INLET		EXISTING CABLE MARKER
	EXISTING TELEPHONE SWITCH BOX		EXISTING GUIDE WIRE
	EXISTING CABLE MARKER		IRON PROPERTY CORNER MARKER
	EXISTING GUIDE WIRE		EXISTING TRAFFIC SIGNAL BOX
	IRON PROPERTY CORNER MARKER		EXISTING GAS METER
	EXISTING TRAFFIC SIGNAL BOX		EXISTING GAS VALVE
	EXISTING GAS METER		RIGHT OF WAY
	EXISTING GAS VALVE		PROPERTY LINE
	RIGHT OF WAY		
	PROPERTY LINE		



Use Mulch Filter Berms In Addition To Silt Fence, Except In Drainage Ditches, Between Stations 0+00 To 69+00.

EPHEMERAL STREAM 6
22.43' TEMPORARILY IMPACTED, 1,172.56 SQ.FT.

EPHEMERAL STREAM 5
23.25' TEMPORARILY IMPACTED, 730.25 SQ.FT.

EPHEMERAL STREAM 4
3.93' TEMPORARILY IMPACTED, 230.13 SQ.FT.

WETLANDS 3
1,120.16' TEMPORARILY IMPACTED, 88,226.32 SQ.FT.

PLANS PREPARED BY:

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

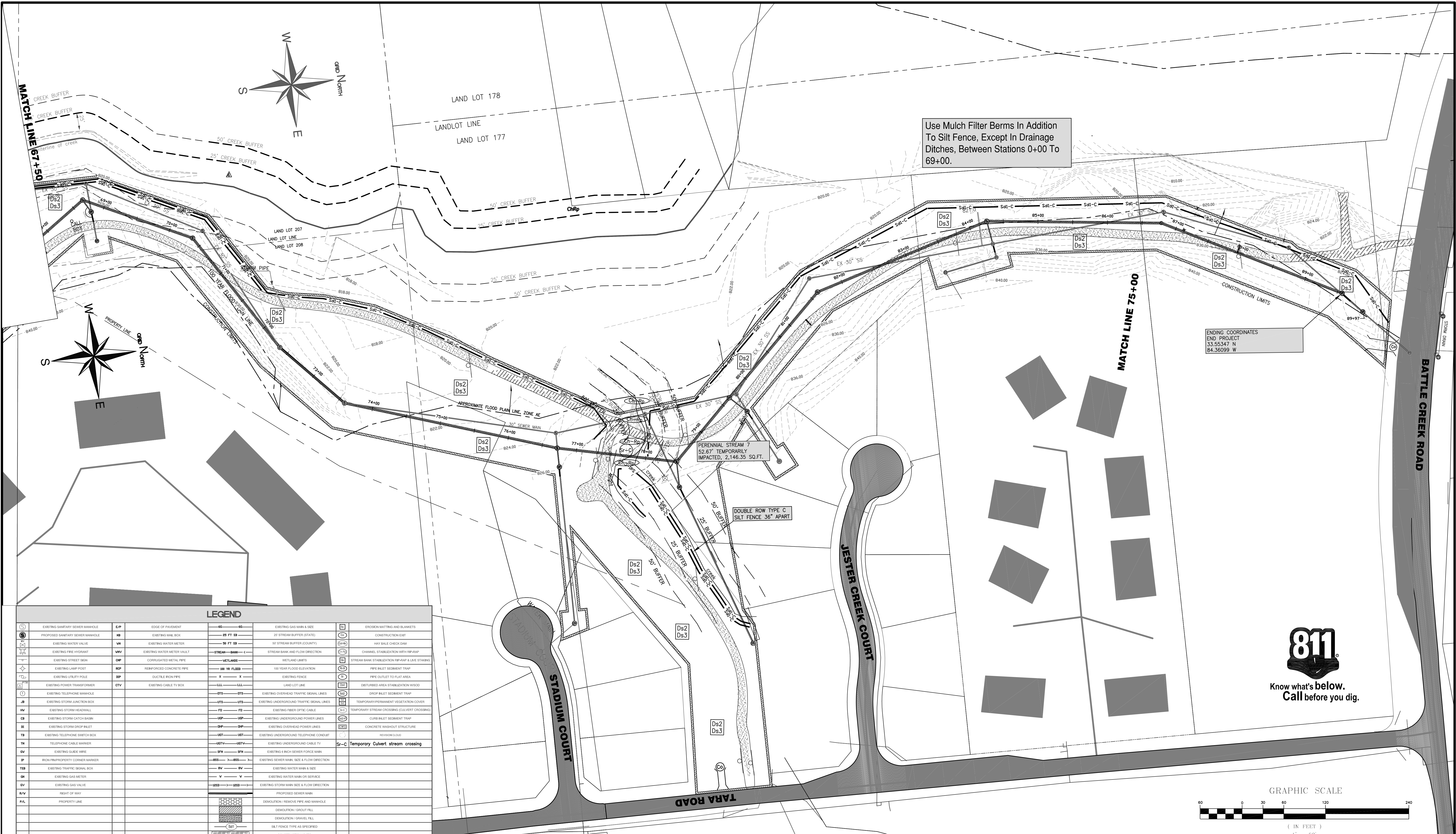
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PROJECT NAME:
**JESTERS CREEK EAST
 OUTFALL REPLACEMENT
 PHASE ONE**
 LAND LOTS 207,208,209,210&211 DISTRICT
 13 CLAYTON COUNTY, GEORGIA

SEAL:

REVISIONS:			
DATE:	NO.:	REQUESTED BY:	DESCRIPTION:

SHEET TITLE: EROSION CONTROL PLAN		
DESIGN BY:	DATE:	1-15-19
CCWA	JOB #:	81810
DRAWN BY:	DRAWING #:	ES-3
JRM	SCALE:	1"=60'
CHECKED BY:	SHEET NUMBER	17 OF 21

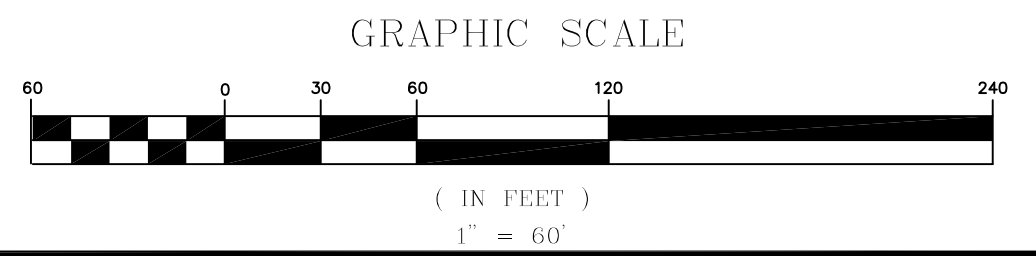


Use Mulch Filter Berms In Addition To Silt Fence, Except In Drainage Ditches, Between Stations 0+00 To 69+00.

ENDING COORDINATES
END PROJECT
33.55347 N
84.36099 W



Know what's below.
Call before you dig.



LEGEND			
EXISTING SANITARY SEWER MANHOLE	ES	EDGE OF PAVEMENT	ES
PROPOSED SANITARY SEWER MANHOLE	MS	EXISTING MAIL BOX	MB
EXISTING WATER VALVE	WV	EXISTING WATER METER	WM
EXISTING FIRE HYDRANT	FH	EXISTING WATER METER VALVE	WV
EXISTING STREET SIGN	CS	CORRUGATED METAL PIPE	CM
EXISTING LAMP POST	LP	REINFORCED CONCRETE PIPE	RC
EXISTING UTILITY POLE	UP	DUCTILE IRON PIPE	DI
EXISTING POWER TRANSFORMER	PT	EXISTING CABLE TV BOX	CTV
EXISTING TELEPHONE MANHOLE	TM	EXISTING OVERHEAD TRAFFIC SIGNAL LINES	OTL
EXISTING STORM JUNCTION BOX	STJ	EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	UTL
EXISTING STORM HEADWALL	SH	EXISTING FIBER OPTIC CABLE	FOC
EXISTING STORM CATCH BASIN	SCB	EXISTING UNDERGROUND POWER LINES	UPL
EXISTING STORM DROP INLET	SDI	EXISTING OVERHEAD POWER LINES	OPL
EXISTING TELEPHONE SWITCH BOX	TSB	EXISTING UNDERGROUND TELEPHONE CONDUIT	UTC
TELEPHONE CABLE MARKER	TCM	EXISTING UNDERGROUND CABLE TV	UCV
EXISTING GUIDE WIRE	GW	EXISTING 6 INCH SEWER FORCE MAIN	SFM
RICH PIN/PROPERTY CORNER MARKER	RPM	EXISTING SEWER MAIN, SIZE & FLOW DIRECTION	SMD
EXISTING TRAFFIC SIGNAL BOX	TSB	EXISTING WATER MAIN & SIZE	WMS
EXISTING GAS METER	GM	EXISTING WATER MAIN OR SERVICE	WMS
EXISTING GAS VALVE	GV	EXISTING STORM MAIN, SIZE & FLOW DIRECTION	SMD
RIGHT OF WAY	ROW	PROPOSED SEWER MAIN	PSM
PROPERTY LINE	PL	DEMOLITION / REMOVE PIPE AND MANHOLE	DM
		DEMOLITION / GROUT FILL	DF
		DEMOLITION / GRAVEL FILL	DF
		SILT FENCE TYPE AS SPECIFIED	SF
		CONSTRUCTION LIMITS	CL
		EXISTING GAS MAIN & SIZE	EGMS
		20' STREAM BUFFER (STATE)	SB
		50' STREAM BUFFER (COUNTY)	SB
		STREAM BANK AND FLOW DIRECTION	SB
		WETLAND LIMITS	WL
		100 YEAR FLOOD ELEVATION	FE
		EXISTING FENCE	FX
		LAND LOT LINE	LL
		EXISTING OVERHEAD TRAFFIC SIGNAL LINES	OTL
		EXISTING UNDERGROUND TRAFFIC SIGNAL LINES	UTL
		EXISTING FIBER OPTIC CABLE	FOC
		EXISTING UNDERGROUND POWER LINES	UPL
		EXISTING OVERHEAD POWER LINES	OPL
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		EXISTING WATER MAIN & SIZE	WMS
		EXISTING WATER MAIN OR SERVICE	WMS
		EXISTING STORM MAIN, SIZE & FLOW DIRECTION	SMD
		PROPOSED SEWER MAIN	PSM
		DEMOLITION / REMOVE PIPE AND MANHOLE	DM
		DEMOLITION / GROUT FILL	DF
		DEMOLITION / GRAVEL FILL	DF
		SILT FENCE TYPE AS SPECIFIED	SF
		CONSTRUCTION LIMITS	CL
		EROSION MATTING AND BLANKETS	EM
		CONSTRUCTION EXIT	CE
		HAY BALE CHECK DAM	CD
		CHANNEL STABILIZATION WITH RIP-RAP	CS
		STREAM BANK STABILIZATION RIP-RAP & LIVE STAKING	CS
		PIPE INLET SEDIMENT TRAP	PIST
		PIPE OUTLET TO FLAT AREA	POFA
		DESTRUCTURED AREA STABILIZATION W/WOOD	DA
		DROP INLET SEDIMENT TRAP	DIS
		TEMPORARY/PERMANENT VEGETATION COVER	TV
		TEMPORARY STREAM CROSSING (CULVERT CROSSING)	TS
		CURB INLET SEDIMENT TRAP	CIST
		CONCRETE BASHOUT STRUCTURE	CB
		SEVERITY CLASS	SC
		Temporary Culvert stream crossing	TC

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JRM	SCALE:	1" = 60'
CHECKED BY:	SHEET NUMBER	18 OF 21

Section 1: General County Required Notes

- A. ES&PC 24-Hour Contact: Garfield W. Cousins (CCWA) GSWCC Level 1B Certification Number: 0000076216 Office (770) 302-3429 Mobile (770) 843-7891
B. ES&PC plan prepared by and the person ultimately responsible for the installation and maintenance of erosion and sedimentation control practices on this site and who to be contacted in the event of a Stop Work Order is: Clifford W. Beroset GSWCC Level II Certified Design Professional Certification Number: 0000005289 Office (678) 422-2828 Mobile (678) 727-6444
C. Plans are reviewed in general. Specific details and calculations may not be checked. The engineer's stamp and signature guarantees the accuracy of the calculations and design.
D. Any revisions to the plans after the initial submittal, other than the response to the plan review comments, will be indicated as revisions and submitted with a written explanation of the revisions and the reasons therefor.
E. Any variations from the permitted plans, changes in design resulting from field conditions, or substitution of construction materials are to be reviewed and approved by the responsible design engineer. THERE IS A TRIBUTARY TO JESTER'S CREEK THE PROJECT DOES IMPACT.
F. The owner/Developer and Engineer have reviewed the appropriate local, state and federal regulations regarding development activities adjacent to flood plains, state waters and wetlands and have determined that this development plan satisfies all the applicable standards.

Section 2: NPDES Notes

Part 1.0 Permit Conditions

- A. A National Pollutant Discharge Elimination System (NPDES) Monitoring Program has been prepared for the project as a requirement of the State of Georgia, Department of Natural Resources, Environmental Protection Division (GEWIA EPD) due to more than one (1) acre of land will be disturbed during construction.
B. The following NPDES information has been prepared in general accordance to Georgia EPD's General Permit No. GAR 100002, "Authorization to Discharge Under the National Pollutant Discharge Elimination System, Storm Water Discharges Associated with Construction Activity For Infrastructure Construction Projects", effective August 1, 2018.
C. A discharge of storm water runoff from disturbed areas where erosion and sedimentation control practices have not been properly designed, installed or maintained shall constitute a violation of the referenced permit for each day on which such discharge results in the turbidity of construction related storm water being increased more than those values listed in table: NTU Target Valve. Maintenance of erosion and sedimentation control practices as a result of routine inspections shall not be considered a violation

B. "I certify under the penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. Clifford W. Beroset, P.E. Clayton County Water Authority GSWCC Level II Certified Design Professional Certification Number: 0000005289 Issued: 05/06/2018 Expires: 05/06/2021

C. "The design professional who prepare the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs in accordance with part IV.A.5 within 7 days after installation."

Part 3.0 Site Information
Description and Construction Activity
The project consists of replacing approximately 5,246 linear feet of 36-inch Sanitary Sewer & 3,746 linear feet of 30" Sanitary Sewer. The pipe will be laid through existing sanitary sewer easements from Jester's Creek Pathway at Battlecreek Rd. Southerly to highway 41 and easterly to the rear of the apartments located at 590 Georgia Highway 138, Jonesboro Georgia.
Total project acreage and disturbed acreage is 16.84 acres in Clayton County currently stabilized with asphalt, wooded and grass areas.
RECEIVING WATERS: Project receiving waters is Jester's Creek and an unnamed tributary to Jester's creek. The project does impact an onsite wetland area.

Storm Water Discharge
A. Based on a reconnaissance of the project route, performed on 29 AUG. 2018 surface waters were observed along the proposed route.

B. Peak Runoff Discharges are not estimated for the project because the pipe route is not being developed with impervious surface. Final grades and vegetation will match existing. No change will occur to the pre and post runoff coefficient.

Non-Storm Water Discharge
Non-storm water discharges associated with construction activity at the site shall include the use of potable water to flush clean the interior of the laid pipe. Silt fence and hay bales shall be utilized to prevent soil erosion.
Part 4.0 Storm Water Pollution Controls

Erosion and Sedimentation
A. Initial Perimeter Control BMPs will consist of installing silt fence prior to construction activities. Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Section III, D.1, of the NPDES Permit.
B. Intermediate Grading and Drainage BMPs.

C. Silt fences, hay bales and blankets shall be utilized as intermediate BMPs where applicable. All disturbed areas shall be permanently stabilized with paving and vegetation where applicable.

Storm Water Management
The majority of the site area will be stabilized as existing using temporary and permanent grassing in accordance with the Construction Drawings. Temporary silt fence, installed during construction, shall be left in-place until grassed areas have gone through final stabilization. Final stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or equivalent permanent stabilization measures have been used.

Other Controls
A. Off-site vehicle tracking of dirt, soils and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical.

B. Petroleum containers shall be double-walled and placed in locations that produce the least opportunity for accidents. No petroleum products will be intentionally drained onto the ground surface. Free-phase petroleum products accidentally spilled onto the ground surface will be immediately removed using an absorbent material. Absorbent material will subsequently be placed in a sealable container for off site disposal.

Part 4.0 Inspections and Maintenance
General
The Contractor shall perform all inspections as indicated in the following schedule using certified Personnel. Certified Personnel means a person who has successfully completed the appropriate certification course approved by the Georgia soil and water conservation commission for continuing education units, or an equivalent course approved by the Georgia Soil and Water Conservation Commission.

Inspection Schedule
A. Each day when any construction activity occurs on the site, the following items shall be inspected:
1. Areas where petroleum products are stored, used or handled to determine whether spills and leaks have occurred from vehicles and equipment; and
2. Construction site entrance/exit to determine whether off-site tracking of soil is occurring.
B. At least once every seven (7) calendar days and within 24 hours of 0.5 inches or greater rainfall event, the following items shall be inspected:
1. Disturbed areas that have not undergone final stabilization to determine whether erosion is occurring;
2. Areas used for storage of materials that are exposed to precipitation that have not undergone final stabilization to determine whether erosion is occurring; and
3. Erosion control and sedimentation measures identified in Contract Documents to ensure that they are functioning properly.

C. Once per month, the following items shall be inspected:
1. The areas that have undergone final stabilization to determine the evidence or the potential for erosion and sedimentation;
2. Erosion control and sedimentation measures identified in Contract Documents to ensure that they are functioning properly; and
3. Discharge/outfall locations to determine whether erosion and sedimentation control measures are being effective.

Rainfall Data
At the time soil disturbance begins (after clearing and grubbing is completed for a particular drainage area), the Contractor shall measure and record rainfall once every 24-hour period until a Notice of Termination is submitted to the Georgia

PART 5.0 Records and Retention

A. The Primary Permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted to EPD. Copy of all Notices of Intent submitted to EPD. Copy of the Erosion, Sedimentation and Pollution Control Plan. The design professional's report of the results of the inspections

Copy of all sampling information, results and reports. Copy of all inspection reports. Copy of all violation summaries and violation summary reports. Daily rainfall information.

B. All records associated with the NPDES permit shall be retained by the Primary Permittee for a period of three (3) years from the date the Notice of Termination is submitted to EPD.

Maintenance
The Contractor shall maintain erosion and sedimentation controls as detailed in the Construction Notes.

Part 6.0 Storm Water Sampling

Sampling Certification
"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water.

Clifford W. Beroset, P.E. Clayton County Water Authority

Sampling Locations
Sampling location is depicted on the Construction Drawings and are located on an outfall ditch leading to Jester's Creek.

The outfall is assumed to represent all discharge points along the project route. Said representation is based on similar soil types depicted on Drawing P1 thru P-3 and topography shown throughout the stationing. Additionally, soil erosion and sedimentation control measures located and depicted on the Construction Drawings are consistent in rationale throughout the stationing. Construction of this project shall not alter existing grades or make significant changes in existing vegetative cover along the route.

Sample Type
A. Storm water grab samples shall be collected by manual or automatic means. Two (2) samples shall be collected from each sample point. Prior to collecting samples, each sample container shall be labeled using a permanent marker and clear taped as follows:

Project Title: Jester's Creek East, Phase one Date: 8-1-2018
Sample Point: Jester's Creek at Station 13+00

B. Samples shall be collected, as practical, from the center and in the middle depth of the stream in clean glass or plastic jars (150 ml or larger) and sealed with appropriate lids. Floating debris shall be kept from entering the sample.

C. Manual, automatic or rising stage sampling may be utilized. Samples should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through the automatic analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

Sample Frequency
Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Section IV.D.4.a.(3)(a) ? (c);
Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permits.

2. In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

3. At the time of sampling performed pursuant to (1) and (2) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours" until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained; and

4. Where sampling pursuant to (1), (2) or (3) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (1), (2) or (3) above.

Sample Analysis and Records
A. Each storm water sample shall be analyzed for Nephelometric Turbidity Units (NTUs) using methodologies and procedures established by 40 CFR Part 136; the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" or procedures described in the publication "Standard Methods, Edition

B. Should samples be transported from the job site for analysis, a chain-of-custody record shall be prepared to accompany the samples to the laboratory. Results of each analyses shall be recorded. The Contractor shall provide the CCWA with copies of all documentation pertaining to storm water sampling on a monthly basis.

Reporting to the Georgia EPD
The CCWA shall report storm water monitoring analytical results to the Georgia EPD for only those months when storm water samples are collected. The summary of analytical results shall be submitted to Georgia EPD by the 15th day of each month following a qualifying reporting period via return receipt certified mail. Sampling reports shall be submitted to the Georgia EPD at the address listed below.

Mountain District - Atlanta Satellite
Georgia Environmental Protection Division
4244 International Parkway, Suite 114
Atlanta, GA 30354-3906

Section 3: Erosion and Sedimentation Control Notes

Part 1.0 General
A. A copy of the approved land disturbance plan and permit shall be present on the site.

B. Erosion and Sediment control shall be the Contractor's responsibility for compliance, installation, maintenance, and removal as required by the State of Georgia Manual for Erosion and Sediment Control in Georgia 2015 Edition, as published by the Georgia Soil and Water Conservation Commission. The Contractor shall become familiar with these specifications prior to any construction activities. The installation of the required erosion and sediment control measures shall be installed as a first step in construction.

C. Stormwater associated with construction activity will be discharged into an Impaired Stream Segment that has been listed for the criterion violated of Bio F (Impaired Fish Community) and/or Bio M (Impaired Macroinvertebrate Community) as based on review of Georgia's 2012, 305(b),303(d) List Documents - Approved May 31, 2014. Jester's Creek enters the FLINT RIVER WITHIN ONE MILE. A TMDL Implementation Plan Has Not Been Finalized for Flint River.

Temporary Sediment Storage
Construction Drainage Area: 58 acres.
Temporary sediment storage required: 67 cy/acre x 58 acres = 3,886 cy.
Sd1 is suited to treat sediment from sheet flow.
1' of Sd1 = 2.22 cy storage
15590 L.F. OF SD1 = 34298 Cy of storage
1 check dam = 6.67 cy of storage
3 check dams = 20.01 cy of storage
34,324 cy of storage provided

The temporary storage of sediment using Sd1 is applicable to this project due to stormwater discharge from the site is via sheet flow; The minimum sediment storage requirement is being met, and appropriate BMP's for the site have been designed and should be sufficient to control erosion.

F. Any amendments/revisions to the ES&PC plan which have significant effect on BMPs with a hydraulic component must be certified by the design professional.

G. Failure to install, operate and/or maintain all erosion control measures shall be a justification to stop construction on the job site until such measures are corrected in a accordance with the approved plans or as directed by the Engineer.

Part 2.0 Site Preparation
A. Prior to commencing land disturbance activity, the limits of land disturbance shall be clearly and accurately demarcated with stakes ribbons, or other appropriate means. The location and extent of all authorized and disturbance activity shall be demarcated for the duration of the construction activity. No land disturbance shall occur outside the approve limits indicated on the approved plans.

B. Material staging area shall be encompassed with referenced silt fence. Contractor shall provide cover(e.g. plastic sheeting,temporary roofs) for all loose materials to minimize the exposure of these products tp precipitation and to stormwater, or a similarly effective means(such as designed to minimize the discharge of of pollutants from these areas. Minimization of exposure i's not required in cases where exposure of a specific material or product poses little risk to stormwater contamination (such as final, products and materials intended for outdoor use).

Part 3.0 During Construction

A. Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for the effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

B. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

C. Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wreted vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

D. Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 permit.

E. The location of some erosion control devices may be altered from that shown on plans as approved by a Certified Design Personnel.

F. Mud and silt are strictly prohibited from leaving the site and depositing on the public thoroughfare.
G. Construction exits shall be maintained in a condition which will prevent tracking or flow of mud onto public right of way. This may require periodic dressing with stone, as conditions demand, and repair and/or clean out of any structures used to trap sediment. All materials spilled, dropped, washed, or tracked from vehicle or site onto public roadway or into storm drain shall be removed immediately.

H. Control dust using water or other methods as required to prevent dust from being a nuisance to the public and concurrent with on site work.

I. Disturbed soil shall be stabilized with erosion and sediment control measures each day and prior to any rain event as follows: (A) Disturbed soil shall be returned to final grade, (B) Erosion and Sediment Control devices shall be installed, (C) Graded soil shall be treated with lime and fertilizer, (D) Apply temporary and/or permanent vegetation as required.

J. Straw mulching shall be used with temporary and permanent vegetation applications and shall be free of weed seeds and spread at a rate of 90 pounds per 1,000 square feet. Where matting and blankets symbols are shown along with temporary seeding and permanent vegetation symbol, matting and blankets shall be installed in place of straw mulching.
K.The Contractor shall install matting and blankets within all drainage ditches unless noted otherwise.

L The Contractor shall be responsible for the repair and/or replacement of any failed or inadequately installed sediment control device. The Contractor shall be responsible for all maintenance of erosion and sediment control devices.

M.The Contractor shall remove accumulated silt when the silt has accumulated to one-half the original height of the barrier.

N. All silts and/or sediment removed from the erosion/sediment control devices shall be disposed of onsite in such a manner as to prevent said silts and/or sediments from reentering the control devices and/or exiting the site through the storm drainage systems and/or surface drainage.

O.Concrete truck washout location shall be in a temporary truck wash area located at the site entrance. Washdown of Tools, Mixer chutes Hopper and Rear of Vehicle shall be contained within a pit or trench with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the breaking of material into small amounts for trash disposal or removal from site to an appropriate landfill.Washout of the drum at the construction site is prohibited

P. Paint and/or other chemicals shall be stored in secured facilities with restricted access to employees only. Cleanup and disposal of this material shall be in accordance with all recognized local and federal requirements. All disposal shall be approved to off-site waste facilities classified to accept that material.

Q. All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site.

R. Erosion Control measures will be maintained until all disturbed soil within the construction area has been completely stabilized with permanent vegetation and all roads/driveways have been paved.

S. The following measures will be installed during construction to control pollutants in stormwater that will occur after construction operations have been completed.

Permanent grassing will be established in areas where sheet flow runoff has been disturbed.
Rip rap and fabric will be provided in areas where concentrated flow runoff will occur from outlet structures.
Rip rap and fabric will be provided in permanent easement areas to stabilize channels, stream banks of stream crossings.
Rip rap and fabric and vegetative practices will be provided to stabilize stream banks of stream crossings outside the areas of permanent grassing.

Part 4.0 Site Completion

A. Final stabilization means that 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the plan (uniformly covered landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

B. The Contractor shall remove silt fence in areas that have undergone final stabilization as determined by CCWA inspector. Contractor shall dispose said silt fence in accordance with local regulations.

C. The Contractor shall be responsible for repairing and/or maintaining all job site work areas that are being stabilized or have undergone final stabilization until CCWA has issued a letter of final acceptance.

PLANS PREPARED BY:CCWA
CLAYTON COUNTY WATER AUTHORITY
1600 BATTLE CREEK ROAD
MORROW, GEORGIA 30260
Providing Quality Water and Quality Service To Our Community

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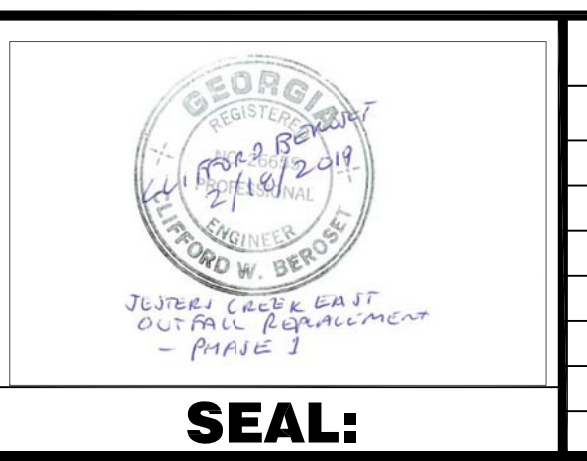


Table with columns: DATE, NO., REQUESTED BY, DESCRIPTION. Includes a REVISIONS section.

Table with columns: SHEET TITLE: EROSION CONTROL NPDES NOTES, DESIGN BY: CCWA, DRAWN BY: JRM, CHECKED BY: SHEET NUMBER 21 OF 21