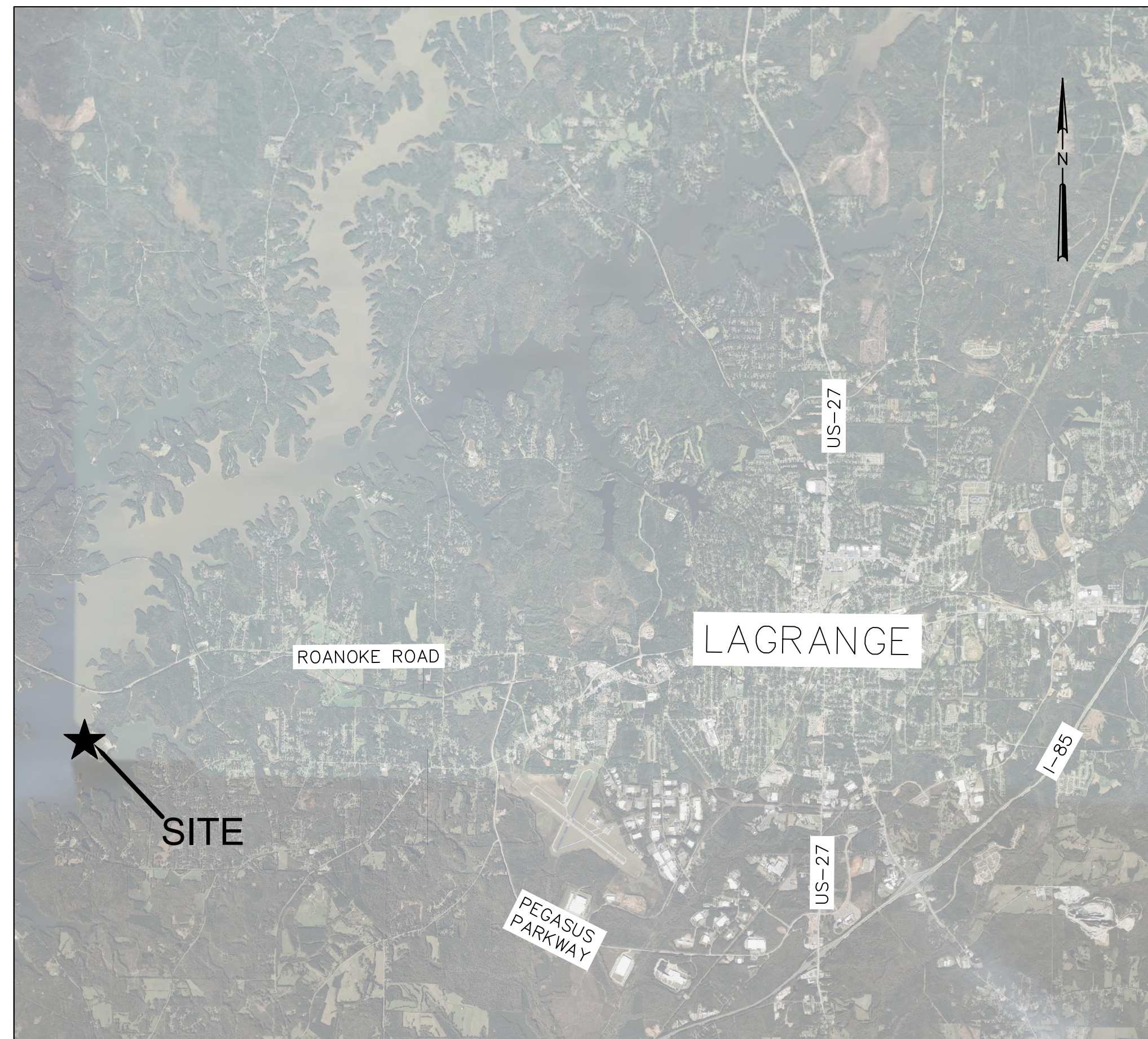


PYNE ROAD PARK WATER MAIN EXTENSION



VICINITY MAP



LAGRANGE, GEORGIA



1201 Front Avenue// Suite F // Columbus, GA 31901
PHONE (706) 321-4590

APRIL 2023

PYNE ROAD PARK
WATER MAIN EXTENSION

BARGE
DESIGN SOLUTIONS

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PHONE (706) 321-4590

PROJ. NO. 3643217

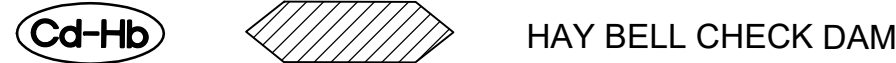
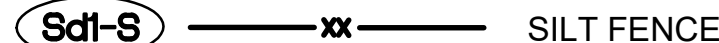
--- COVER SHEET
C-001 INDEX OF DRAWINGS, LEGEND & ABBREVIATIONS

EC001 EROSION CONTROL COVER SHEET, INDEX OF DRAWINGS, CERTIFICATIONS

CONCRETE THRUST COLLAR



— — — LIMITS OF DISTURBANCE



DIAMETER
AFF ABOVE FINISHED FLOOR
ALUM. ALUMINUM
BCB BOTTOM CATCH BASIN
BOC BACK OF CURB
BFP BACKFLOW PREVENTOR
BFV BUTTERFLY VALVE
CB CATCH BASIN
CCTV CLOSED CIRCUIT TELEVISION
CI CAST IRON
CIPP CURED-IN-PLACE PIPE
CMP CORRUGATED METAL PIPE
CO CLEAN OUT
CONC CONCRETE
CONN CONNECT
CONST. CONSTRUCTION
CPLG. COUPLING
CS COMBINED SEWER
CU COPPER
CV CHECK VALVE
DB DEED BOOK
DI DROP INLET
DIP DUCTILE IRON PIPE
DIST. DISTANCE
DWCB DOUBLE WING CATCH BASIN
DW DRIVEWAY
EX. EXISTING
ELEC. ELECTRICAL SERVICE
EOI END OF INFORMATION OR UNKNOWN TERMINATION POINT
EOP EDGE OF PAVEMENT
FIP FEMALE IRON PIPE
FFE FINISHED FLOOR ELEVATION
FH FIRE HYDRANT
FM FORCE MAIN
GSP GALVANIZED STEEL PIPE
GV GATE VALVE
HDPE HIGH DENSITY POLYETHYLENE
HORZ HORIZONTAL
HWY HIGHWAY
ID INSIDE DIAMETER
IE INVERT ELEVATION
INV INVERT
LF LINEAR FEET
MIN MINIMUM
MJ MALE IRON PIPE
MP MECHANICAL JOINT
MH MANHOLE
MNPT NATIONAL PIPE THREAD
NOW OF FORMERLY
NPW NON POTABLE WATER
NTS NOT TO SCALE
OD OUTSIDE DIAMETER
PG PAGE
PP POWER POLE
PR POINT REPAIR
PV PLUG VALVE
PVC POLYVINYL CHLORIDE
PW POTABLE WATER
PWF WATER FAUCET
RCP REINFORCED CONCRETE PIPE
RD ROAD
RET RETAINER
RJ RESTRAINED JOINT
R/W RIGHT-OF-WAY
SD STORM DRAIN
SHT SHEET
SP SIGNAL POLE
SPD STANDARD PROCTOR DENSITY
SR STATE ROUTE
SS SANITARY SEWER
SSMH SANITARY SEWER MANHOLE
SSTL STAINLESS STEEL
STA STATION
SWB SILVER WING CATCH BASIN
SY SQUARE YARD
TELECOM TELECOMMUNICATION CONDUIT
TP TELEPHONE POLE
TSB TRAFFIC SIGNAL BOX
TS&V TAPPING SLEEVE AND VALVE
TRAFCON TRAFFIC SIGNAL COMM WIRE
TYP TYPICAL
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
WM WATER METER
WTR WATER
W/ WITH
' FEET
" INCHES

PYNE ROAD PARK
 WATER MAIN EXTENSION

A circular professional seal for Morgan B. Bell, a Registered Professional Engineer in the State of Georgia. The seal features the text "GEORGIA" at the top, "REGISTERED" on the left, "PROFESSIONAL ENGINEER" on the right, and "MORGAN B. BELL" at the bottom. The center contains the text "No. 044984". Two small stars are positioned at the top and bottom of the seal.

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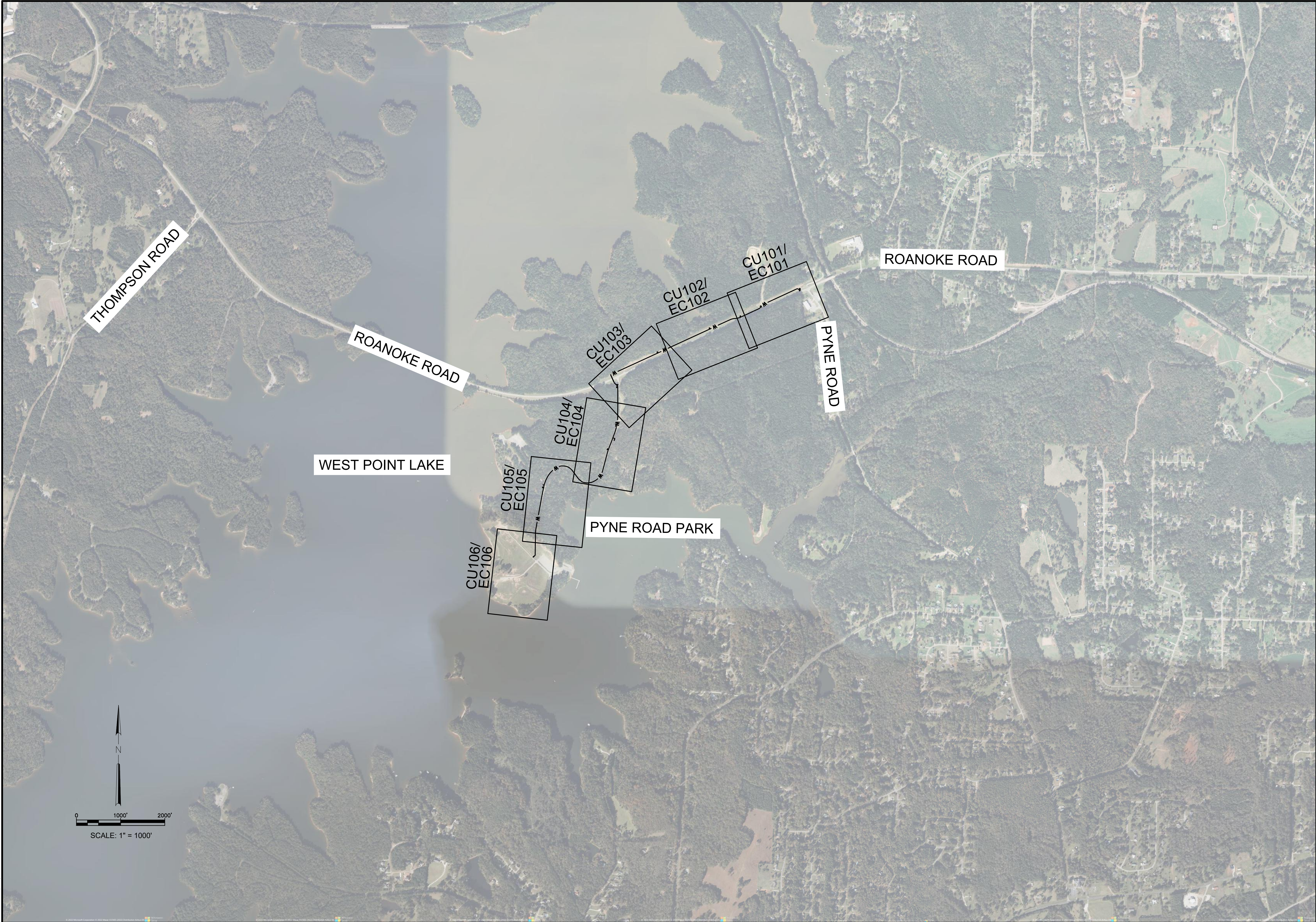
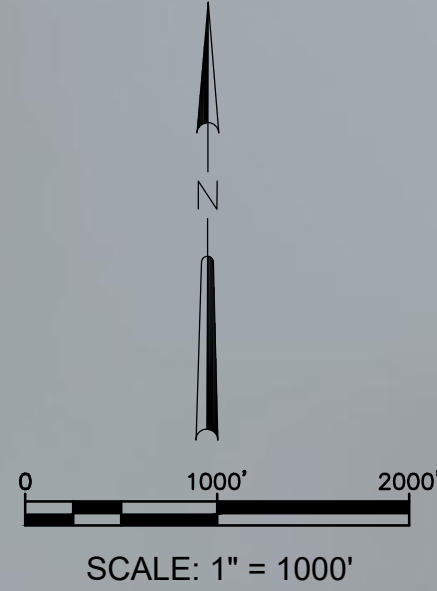


BARGE
DESIGN SOLUTIONS

C-001

PROJ. NO. 3643217

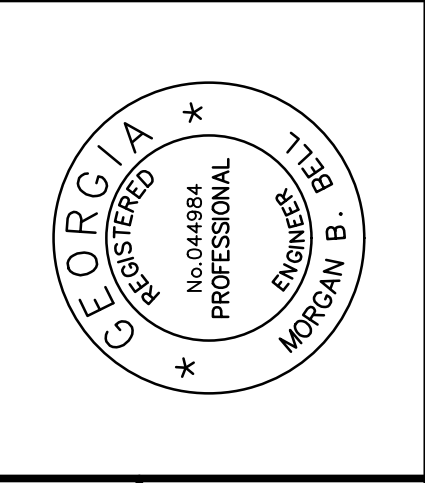
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SAVED:10/25/2022
PLOTTED:10/25/2022



REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

KEY MAP

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA



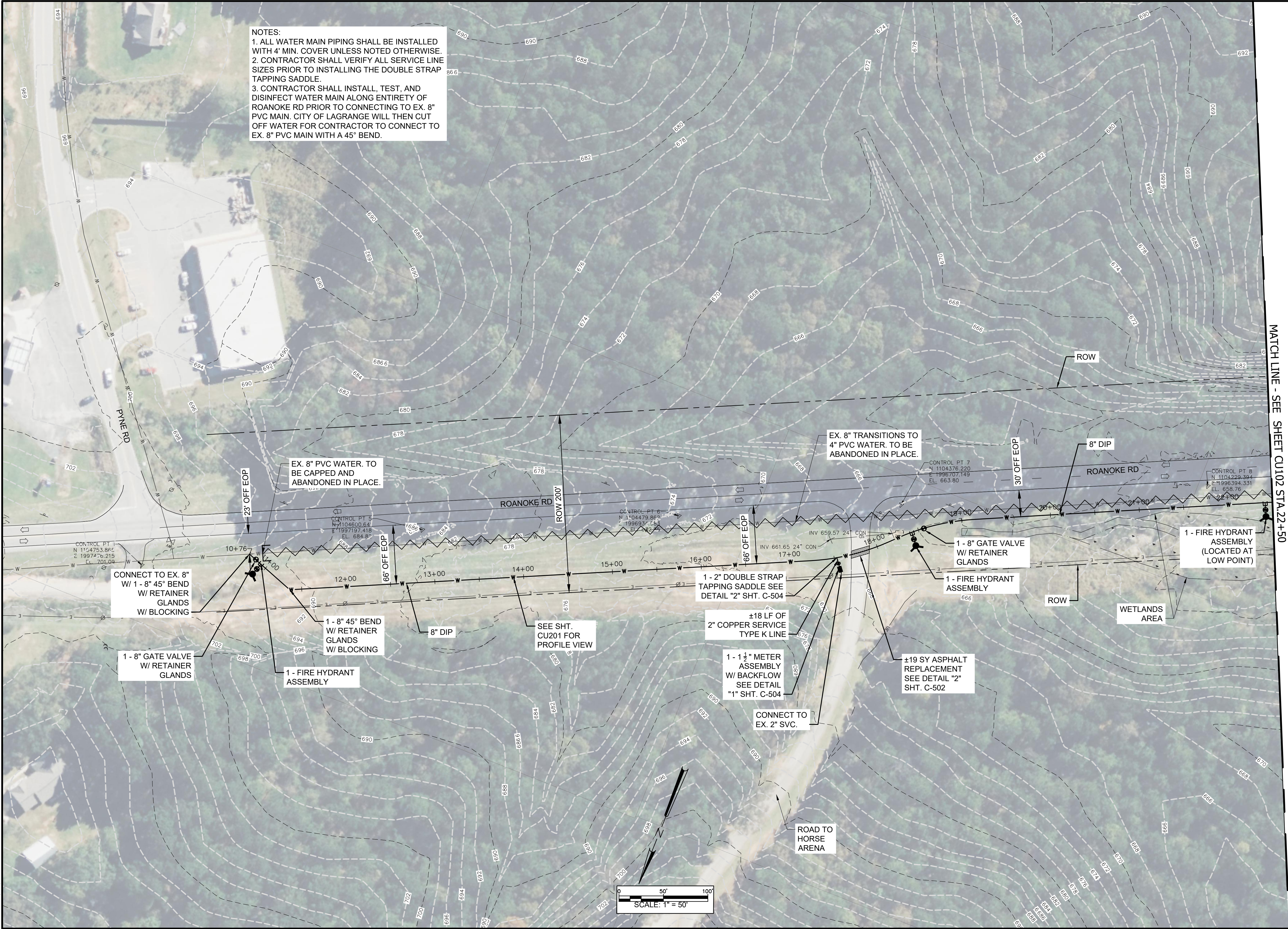
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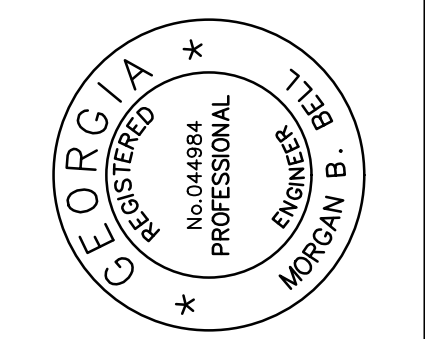
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SAVED:10/25/2022
PLOTTED:10/25/2022



NOTES:
1. ALL WATER MAIN PIPING SHALL BE INSTALLED WITH 4' MIN. COVER UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY ALL SERVICE LINE SIZES PRIOR TO INSTALLING THE DOUBLE STRAP TAPPING SADDLE.
3. CONTRACTOR SHALL INSTALL, TEST, AND DISINFECT WATER MAIN ALONG ENTIRETY OF ROANOKE RD PRIOR TO CONNECTING TO EX. 8" PVC MAIN. CITY OF LAGRANGE WILL THEN CUT OFF WATER FOR CONTRACTOR TO CONNECT TO EX. 8" PVC MAIN WITH A 45° BEND.



WATER MAIN PLANS
STA 10+76 TO 22+50

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

USER:TPMEAGHER
FILE:F:\364\3643217\04_CAD\WATER\3643217 - CU101.dwg
SAVED:10/25/2022
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DESIGN SOLUTIONS

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PHONE (706) 321-4500

GEORGIA

REGISTERED

PROFESSIONAL

ENGINEER

MO'RGAN B.

WATER MAIN PLANS
STA 22+50 TO 36+50

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

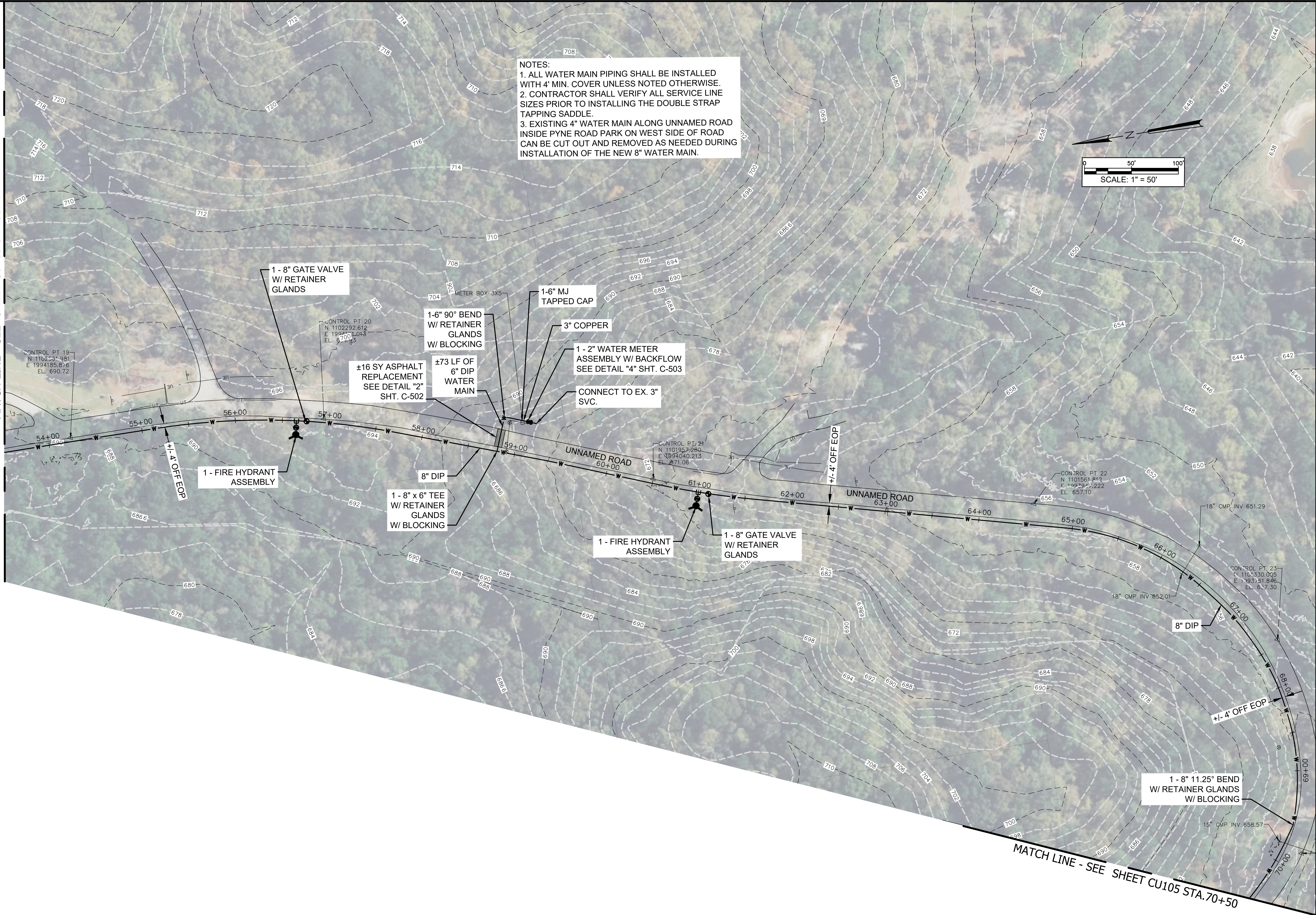
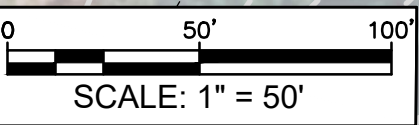
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SAVED:10/25/2022
PLOTTED:10/25/2022

MATCH LINE - SEE SHEET CU103 STA.53+50

- NOTES:
1. ALL WATER MAIN PIPING SHALL BE INSTALLED WITH 4" MIN. COVER UNLESS NOTED OTHERWISE.
 2. CONTRACTOR SHALL VERIFY ALL SERVICE LINE SIZES PRIOR TO INSTALLING THE DOUBLE STRAP TAPPING SADDLE.
 3. EXISTING 4" WATER MAIN ALONG UNNAMED ROAD INSIDE PYNE ROAD PARK ON WEST SIDE OF ROAD CAN BE CUT OUT AND REMOVED AS NEEDED DURING INSTALLATION OF THE NEW 8" WATER MAIN.



MATCH LINE - SEE SHEET CU105 STA.70+50

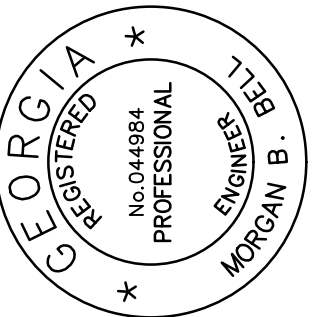
WATER MAIN PLANS
STA 53+50 TO 70+50

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

CU104

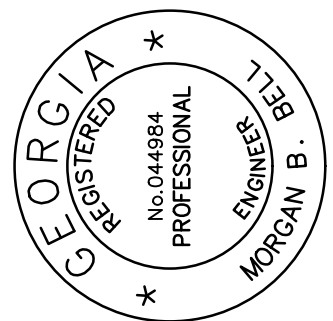
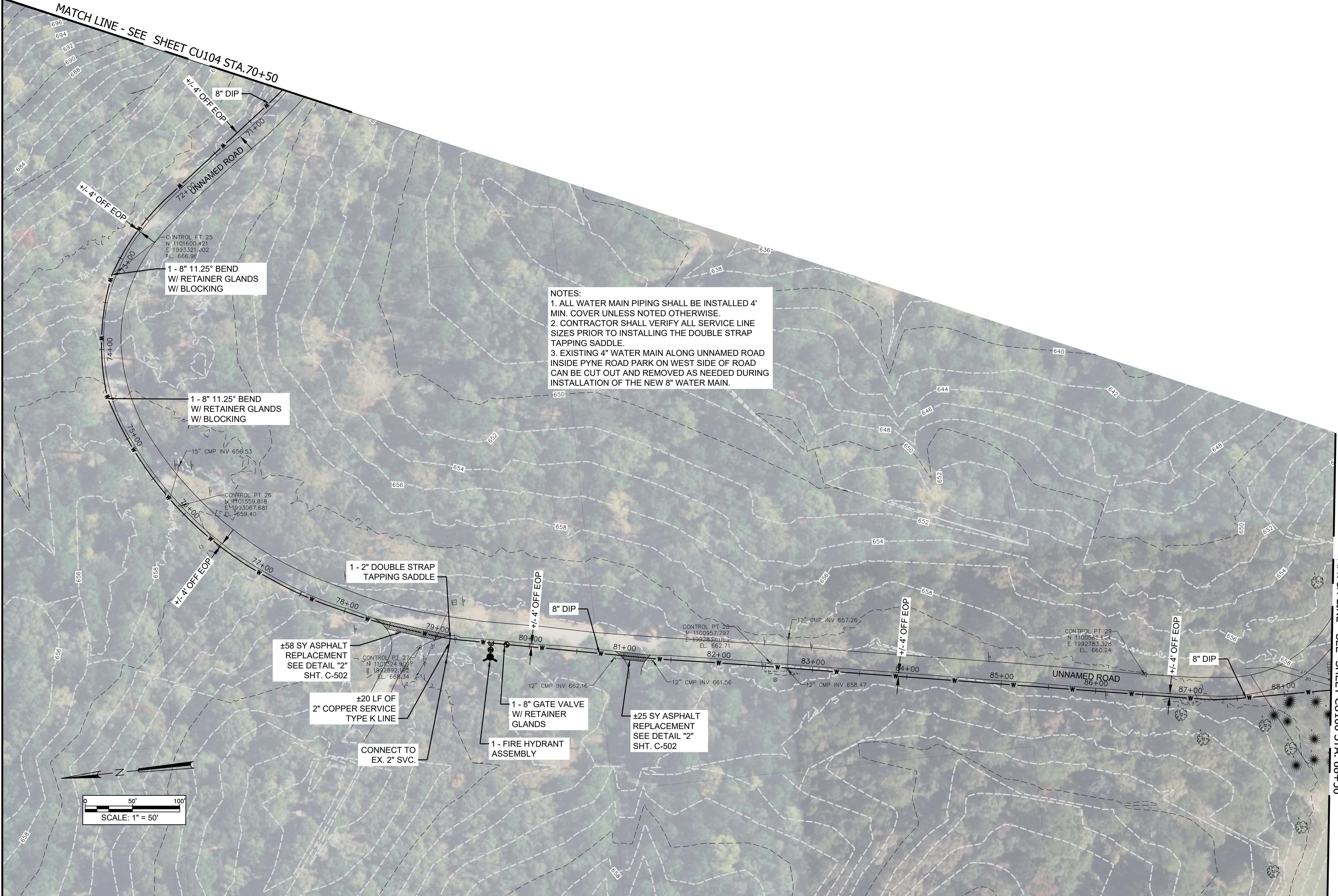
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PLOTTED:10/25/2022



WATER MAIN PLANS
STA 70+50 TO 88+50

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION	INITIAL	ISSUE
0		10/28/22			

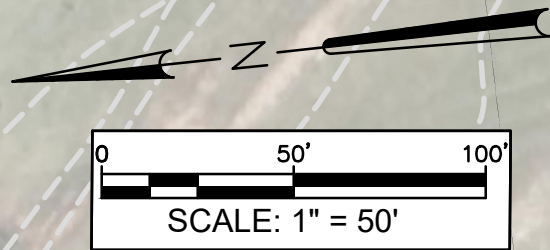
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SAVED:10/25/2022
PLOTTED:10/25/2022



MATCH LINE - SEE SHEET CU105 STA. 88+50



1 - 8" 45° BEND
W/ RETAINER GLANDS
W/ BLOCKING
N:1100068.9939
E:1992741.1193

CONCRETE
THRUST COLLAR

1 - 8" GATE VALVE
W/ RETAINER
GLANDS

DIP TO PVC
ADAPTER

NOTES:
1. ALL WATER MAIN PIPING SHALL BE INSTALLED 4' MIN. COVER UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY ALL SERVICE LINE SIZES PRIOR TO INSTALLING THE DOUBLE STRAP TAPPING SADDLE.
3. EXISTING 4" WATER MAIN ALONG UNNAMED ROAD INSIDE PYNE ROAD PARK ON WEST SIDE OF ROAD CAN BE CUT OUT AND REMOVED AS NEEDED DURING INSTALLATION OF THE NEW 8" WATER MAIN.

PROPOSED
DEVELOPMENT
(CONSTRUCTED
BY OTHERS)

BARGE

DESIGN SOLUTIONS

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PHONE (706) 321-4890

GEORGIA

REGISTERED

PROFESSIONAL

ENGINEER

MORGAN B.

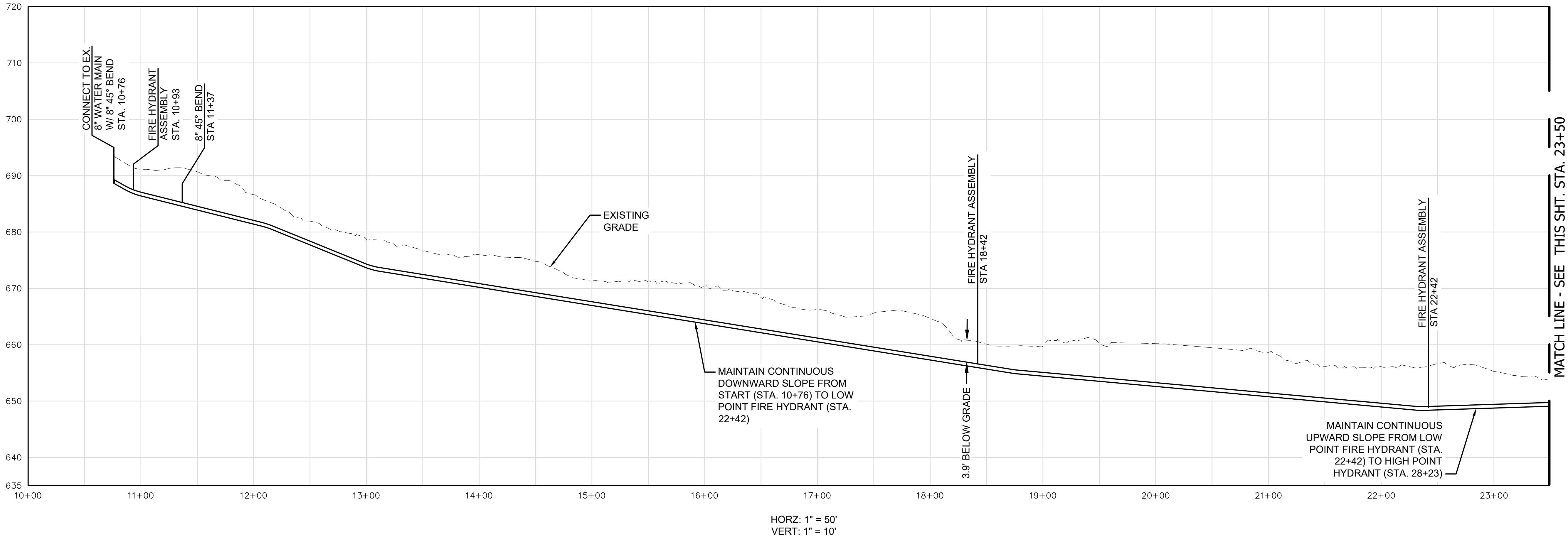
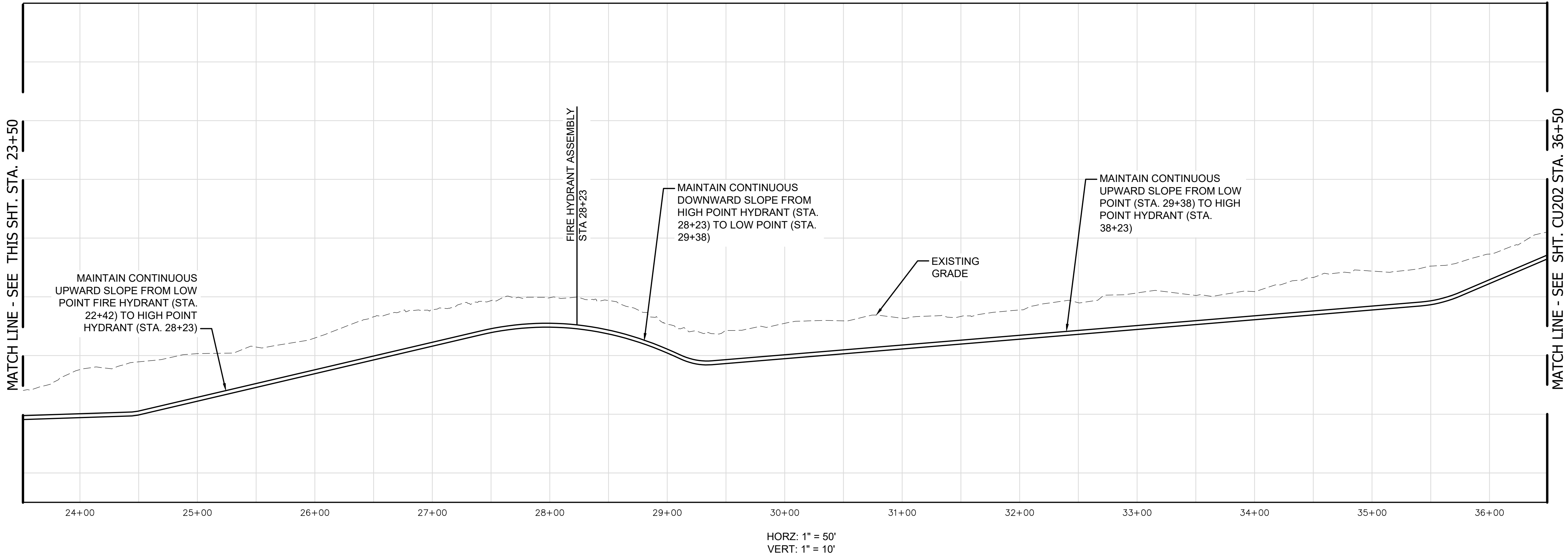
WATER MAIN PLANS
STA 88+50 TO 92+00

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

CU106
PROJ. NO. 3643217

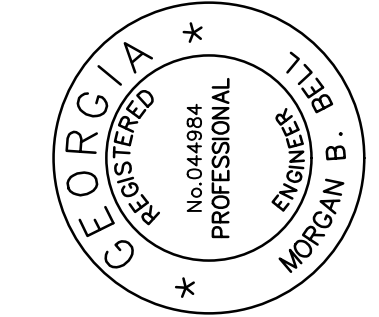
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SAVED:10/25/2022
PLOTTED:10/25/2022



REV	CHK.	DATE	DESCRIPTION
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WATER MAIN PROFILE
STA 10+76 TO 36+50

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

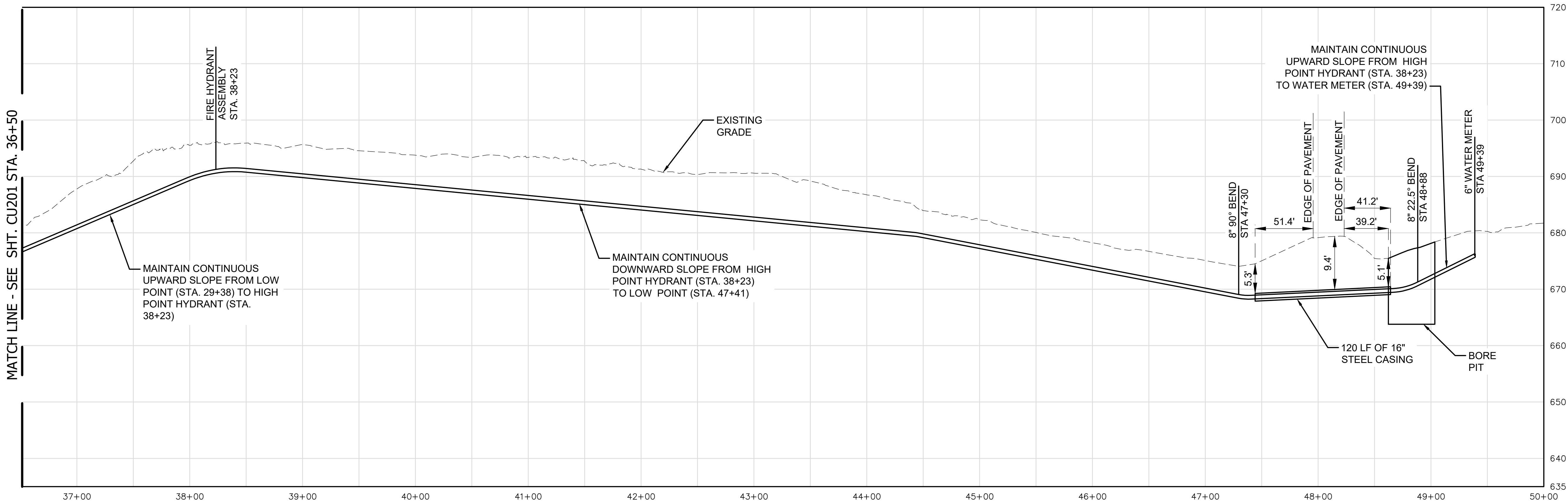


BARGE
DESIGN SOLUTIONS

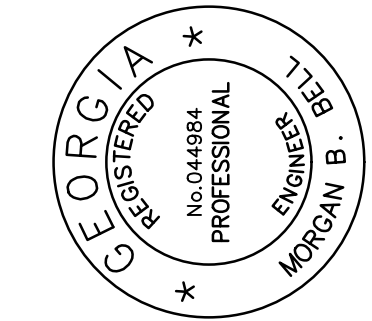
1201 Front Avenue / Suite F / Columbus, GA 31901
PHONE (706) 321-4590

CU201
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SAVED:10/25/2022
PLOTTED:10/25/2022



HORZ: 1" = 50'
VERT: 1" = 10'



WATER MAIN PROFILE
STA 36+50 TO 49+39

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

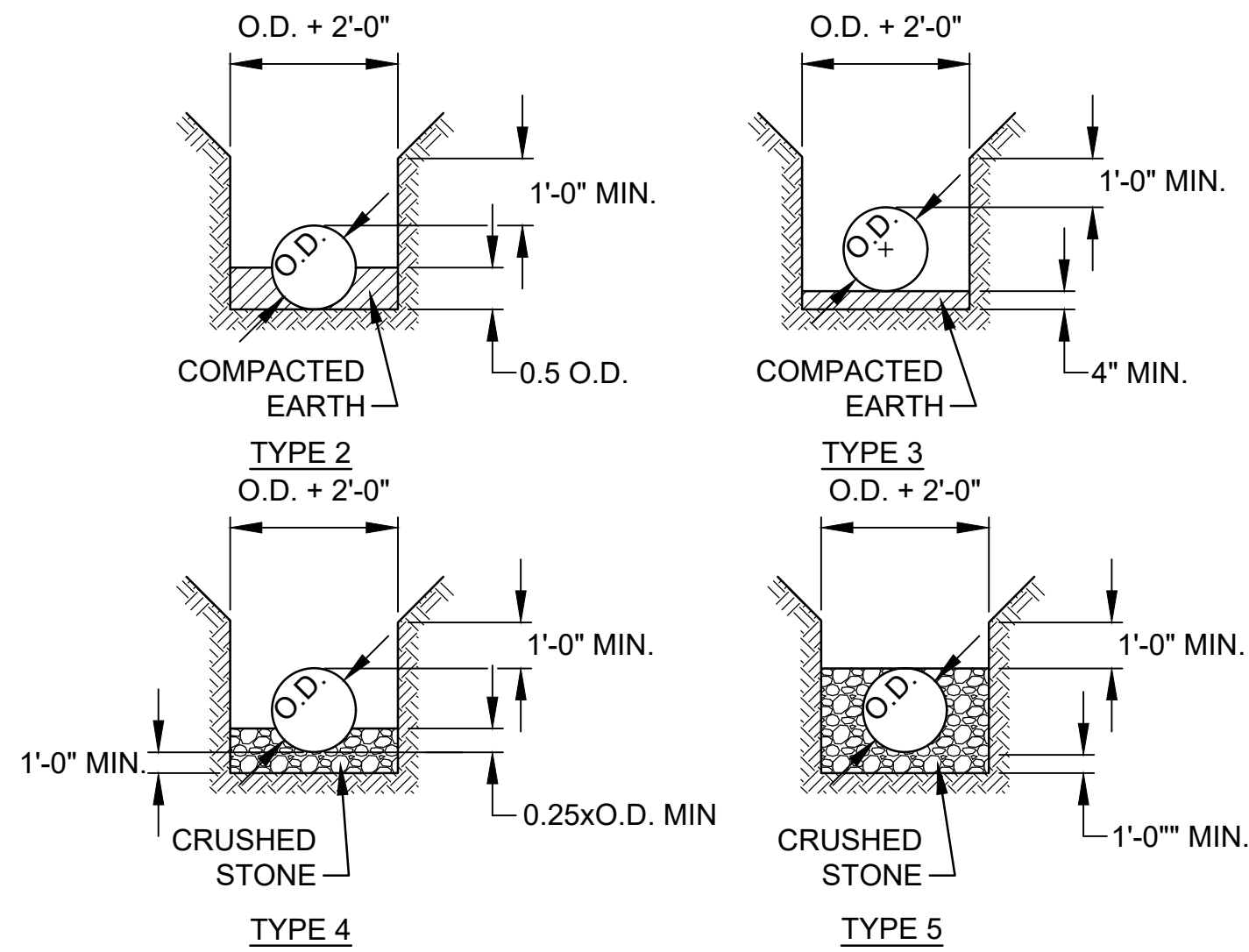
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CU202
PROJ. NO. 3643217



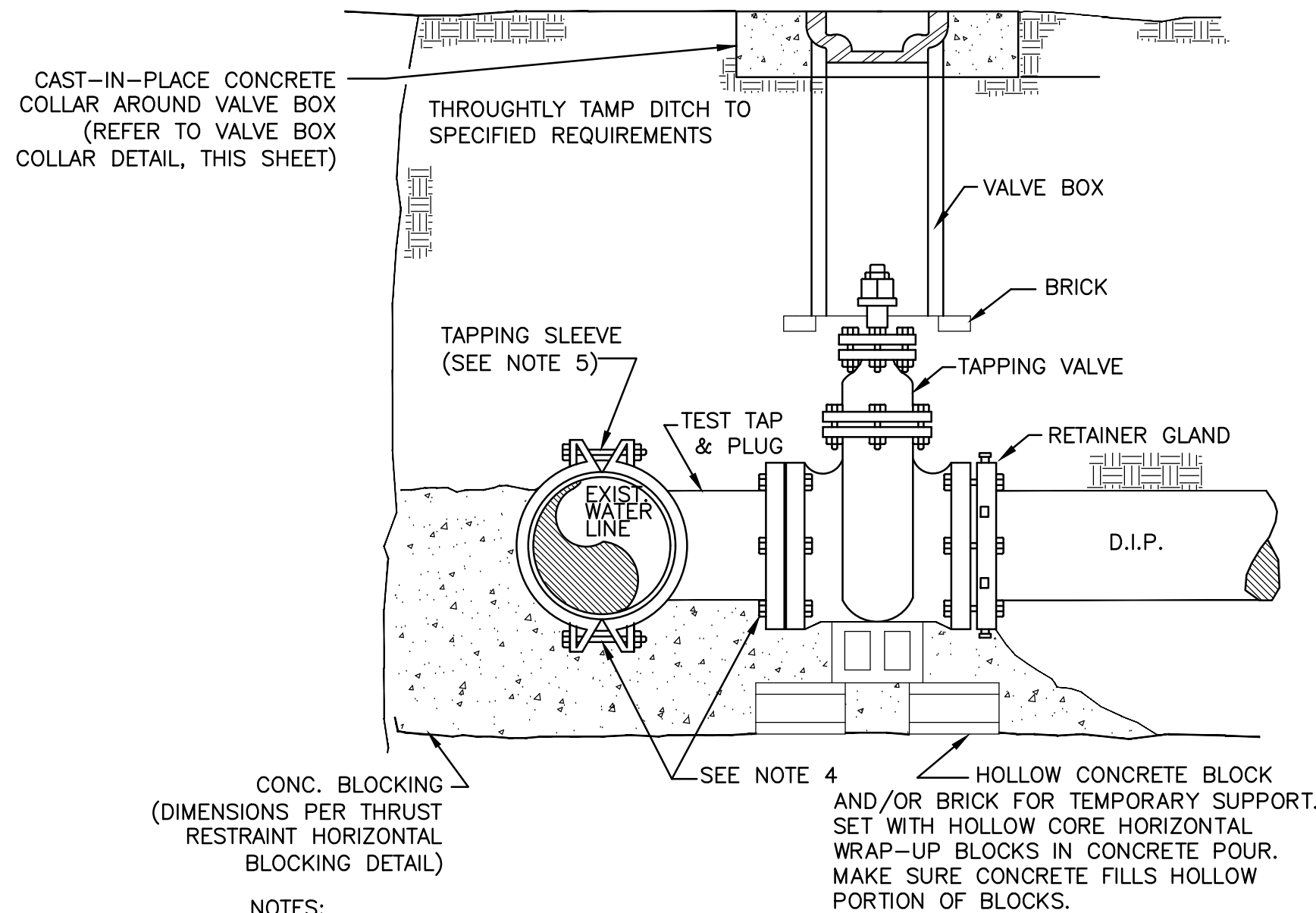
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USER:TPME/CHER
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SAVED:10/25/2022
PLOTTED:10/25/2022



WATER

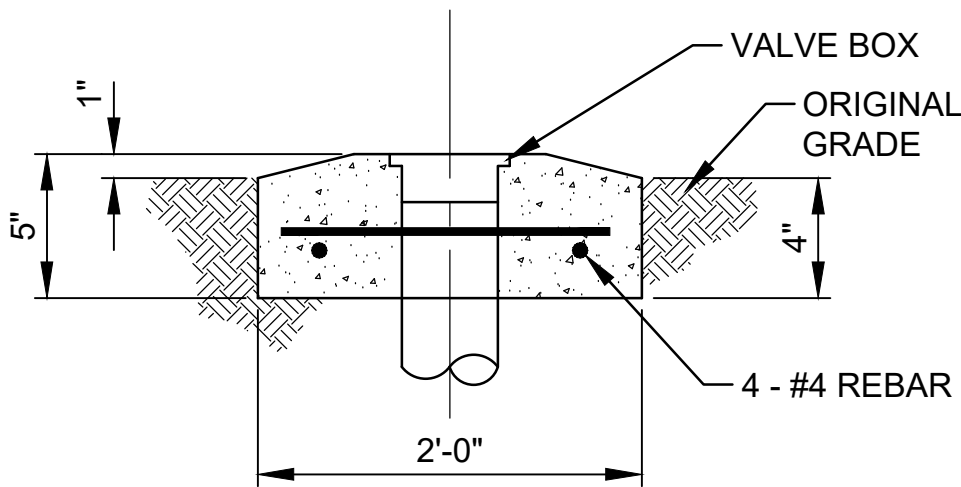
1 C-501 PRESSURE PIPE BEDDING AND HAUNCHING DETAILS NTS



NOTES:

1. TEMPORARILY SUPPORT TAPPING SADDLE AND VALVE, THEN APPLY STANDARD HYDROSTATIC TEST.
2. IF NO LEAKS, POUR INDICATED PERMANENT CONCRETE BLOCK AND SUPPORT PAD.
3. MAKE TAP, LINE EXTENSION AND BACKFILL.
4. COVER GLAND AND BOLTS WITH HEAVY POLYETHYLENE SHEETING TO KEEP CONCRETE FROM BONDING. TYPICAL WHENEVER BOLTS OR GLAND MAY BE "WRAPPED-UP" IN CONCRETE.
5. COAT TAPPING SLEEVE AND BOLTS WITH AN APPROVED BITUMASTIC COATING BEFORE POURING CONCRETE. TYPICAL FOR ALL STEEL INCLUDING RODS, COUPLINGS, STRAPS AND OTHER BURIED STEEL. AFTER INSTALLATION, ITEMS LISTED ABOVE SHALL BE THOROUGHLY COVERED WITH ROYSTON LABS, INC. ROSKOTE MASTIC NO A939, OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.

3 C-501 TAPPING SLEEVE AND VALVE INSTALLATION NTS



NOTES:

1. CONCRETE COLLAR MAY BE CIRCULAR OR SQUARE.

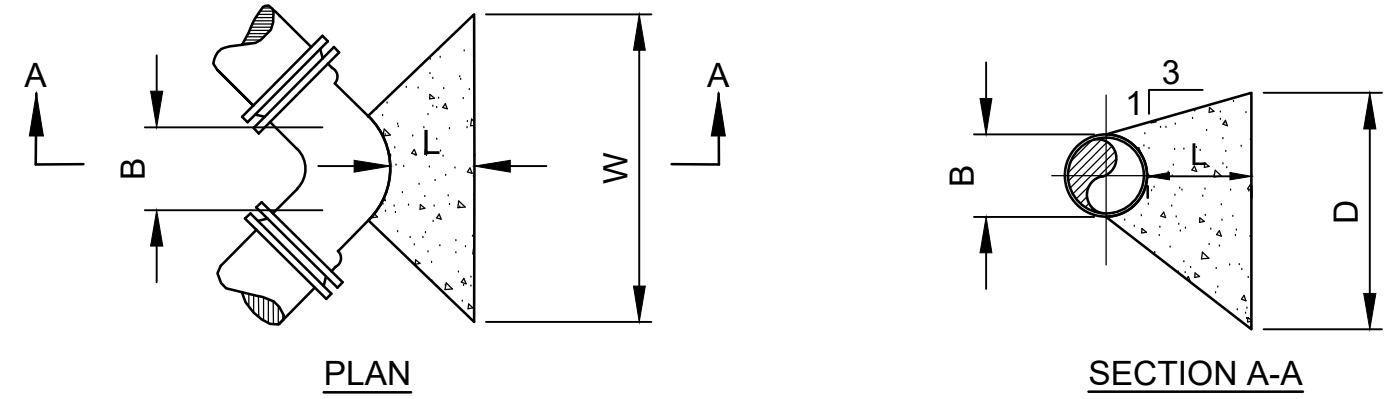
2 C-501 VALVE BOX COLLAR DETAIL NTS

	PIPE SIZE	ROD DIA.	NO. RODS	TOTAL THRUST (lbs)
TEES, PLUGS & VALVES	6"	3/4"	2	5,655
	8"	3/4"	2	10,055
	10"	3/4"	2	15,710
	12"	3/4"	2	22,620
	14"	3/4"	2	30,800
	16"	3/4"	2	40,215
	20"	3/4"	2	62,835
	24"	3/4"	2	90,480
11 1/4° BEND	30"	1"	4	141,375
	36"	1"	4	203,595
22 1/2° BEND	6"	3/4"	2	2,210
	8"	3/4"	2	3,925
	10"	3/4"	2	6,130
	12"	3/4"	2	8,825
	14"	3/4"	2	12,015
	16"	3/4"	2	15,690
	20"	3/4"	2	24,515
	24"	3/4"	2	35,305
45° BEND	30"	1"	2	55,160
	36"	1"	2	79,435
90° BEND	6"	3/4"	2	4,430
	8"	3/4"	2	7,700
	10"	3/4"	2	12,025
	12"	3/4"	2	17,312
	14"	3/4"	2	23,565
	16"	3/4"	2	30,780
	20"	3/4"	2	48,090
11 1/4° BEND	24"	3/4"	2	69,250
	30"	1"	2	108,205
	36"	1"	4	155,810
22 1/2° BEND	6"	3/4"	2	8,000
	8"	3/4"	2	14,220
	10"	3/4"	2	22,214
	12"	3/4"	2	32,000
	14"	3/4"	2	43,540
	16"	3/4"	2	56,870
	20"	3/4"	2	88,860
	24"	3/4"	4	127,960
45° BEND	30"	1"	4	199,930
	36"	1"	4	287,900
90° BEND	6"	3/4"	2	8,000
	8"	3/4"	2	14,220
	10"	3/4"	2	22,214
	12"	3/4"	2	32,000
	14"	3/4"	2	43,540
	16"	3/4"	2	56,870
	20"	3/4"	2	88,860
	24"	3/4"	4	127,960
11 1/4° BEND	30"	1"	4	199,930
	36"	1"	4	287,900

NOTES:

1. BASED UPON ROD & NUT HAVING MIN. YIELD STRENGTH OF 95,000 P.S.I.
2. RODS HAVE 6" OF THREAD ON EACH END.

4 C-501 THRUST RESTRAINT: TIE ROD CHART NTS



NOTES:

1. POUR BLOCKING AGAINST UNDISTURBED EARTH WHEN OVEREXCAVATION OCCURS.

DESIGN DATA:

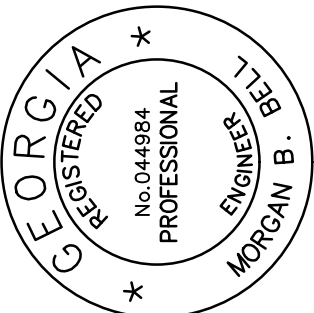
1. DIMENSION OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE, ACTUAL OUTSIDE DIA. OF DIP, 250 PSI TEST PRESSURE.
2. UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.

MINIMUM DIMENSIONS IN FEET FOR CONCRETE BLOCKING						
PIPE SIZE	END AREA OF BLOCK AT FITTING (B x B)	FITTING	L	END DIMENSIONS OF BLOCK AGAINST UNDISTURBED SOIL, IN FEET		CU. YDS.
				D	W	
6"	0.25 (6" x 6")	11.25°	0' - 6"	1.0	1.4	0.02
		22.5°	0' - 9"	1.2	2.3	0.04
		45°	1' - 3"	1.6	3.2	0.13
		90°	1' - 6"	2.2	4.4	0.28
		TEE OR DE	1' - 3"	1.8	3.7	0.16
8"	0.44 (8" x 8")	11.25°	0' - 6"	1.1	2.1	0.02
		22.5°	1' - 0"	1.6	3.1	0.10
		45°	1' - 6"	2.2	4.3	0.27
		90°	2' - 0"	2.9	5.9	0.66
		TEE OR DE	1' - 9"	2.5	4.9	0.40
10"	0.69 (10" x 10")	11.25°	0' - 9"	1.4	2.7	0.06
		22.5°	1' - 3"	1.9	3.8	0.18
		45°	1' - 9"	2.6	5.3	0.47
		90°	2' - 6"	3.6	7.1	1.21
		TEE OR DE	2' - 0"	3.0	6.0	0.69
12"	1.00 (12" x 12")	11.25°	0' - 9"	1.6	3.1	0.08
		22.5°	1' - 3"	2.3	4.5	0.26
		45°	2' - 0"	3.1	6.2	0.76
		90°	3' - 0"	4.3	8.5	2.08
		TEE OR DE	2' - 6"	3.6	7.1	1.23
14"	1.36 (14" x 14")	11.25°	1' - 0"	1.8	3.7	0.15
		22.5°	1' - 6"	2.6	5.2	0.41
		45°	2' - 3"	3.6	7.2	1.15
		90°	3' - 6"	4.9	9.8	3.22
		TEE OR DE	2' - 9"	4.1	8.3	1.81
16"	1.78 (16" x 16")	11.25°	1' - 0"	2.1	4.2	0.19
		22.5°	1' - 9"	2.9	5.9	0.62
		45°	2' - 9"	4.1	8.2	1.81
		90°	4' - 0"	5.6	11.2	4.80
		TEE OR DE	3' - 3"	4.7	9.5	2.79
18"	2.25 (18" x 18")	11.25°	1' - 0"	2.2	4.5	0.23
		22.5°	2' - 0"	3.2	6.4	0.83
		45°	3' - 0"	4.5	9.0	2.35
		90°	4' - 3"	6.1	12.2	5.99
		TEE OR DE	3' - 6"	5.9	11.7	4.59
20"	2.78 (20" x 20")	11.25°	1' - 3"	2.6	5.2	0.38
		22.5°	2' - 0"	3.7	7.4	1.10
		45°	3' - 3"	5.1	10.2	3.33
		90°	4' - 9"	7.0	13.9	8.79
		TEE OR DE	3' - 9"	5.9	11.7	4.96
24"	4.00 (24" x 24")	11.25°	1' - 6"	3.1	6.2	0.64
		22.5°	2' - 6"	4.4	8.8	1.96
		45°	4' - 0"	6.1	12.2	5.81
		90°	5' - 9"	8.3	16.7	15.60
		TEE OR DE	4' - 6"	7.0	14.0	8.48
30"	6.25 (30" x 30")	11.25°	1' - 9"	3.8	7.7	1.16
		22.5°	3' - 0"	5.4	10.8	3.62
		45°	4' - 9"	7.6	15.2	10.71
		90°	7' - 0"	10.3	20.7	28.47
		TEE OR DE	5' - 9"	8.7	17.4	16.72
36"	9.00	11.25°	2' - 0"	4.6	9.2	1.90
		22.5°	3' - 6"	6.5	13.0	6.05
		45°	5' - 9"	9.1	18.2	18.57
		90°	8' - 3"	12.4	24.7	48.36
		TEE OR DE	6' - 9"	10.4	20.8	28.13

5 C-501 THRUST RESTRAINT: HORIZONTAL BLOCKING NTS

BARGE
DESIGN SOLUTIONS

1201 Front Avenue / Suite F / Columbus, GA 31901
PHONE (706) 321-4580



MISCELLANEOUS DETAILS

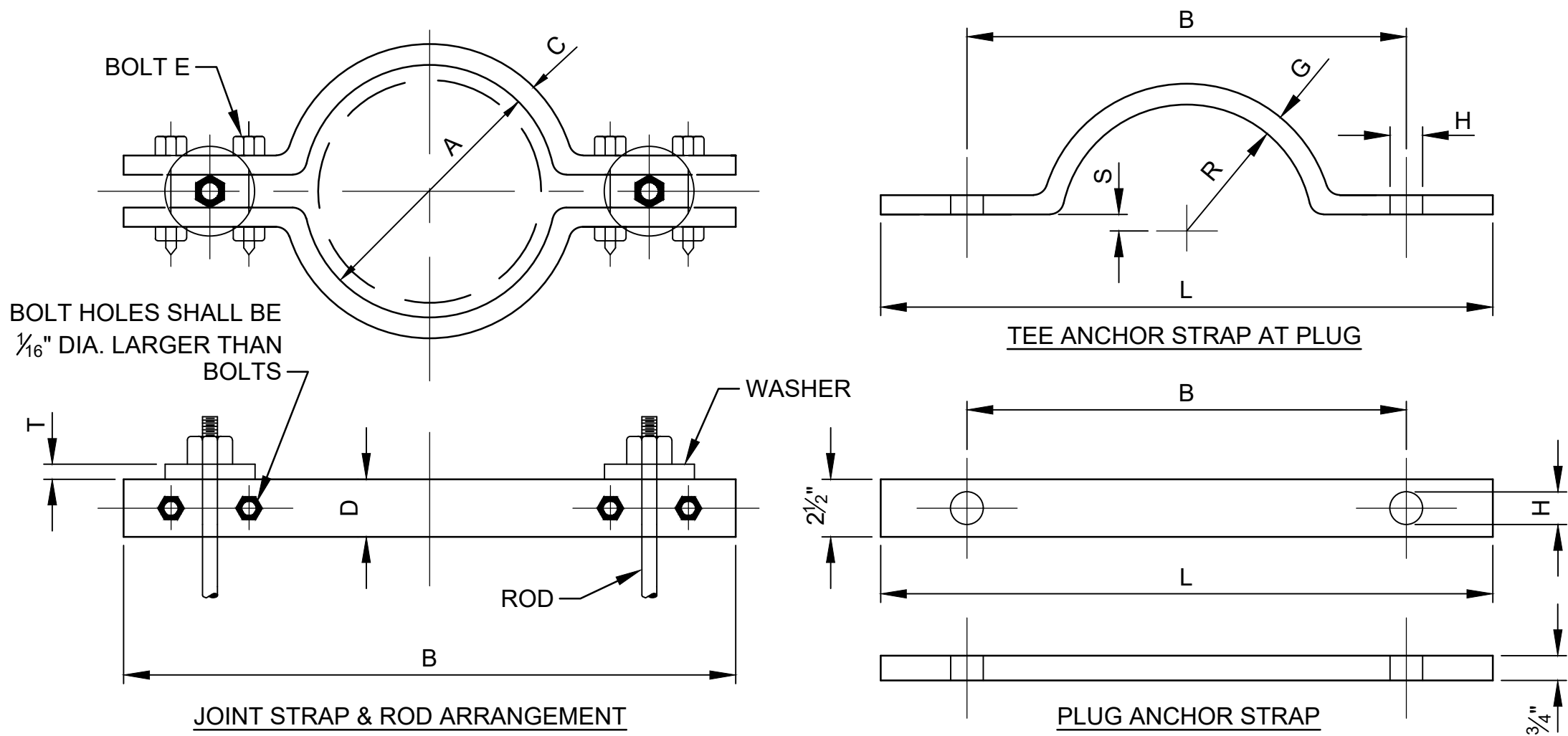
PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION	INITIAL	ISSUE
0		10/28/22			

C-501

PROJ. NO. 3643217

USER:TPM\GHER
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SAVED:10/25/2022
PLOTTED:10/25/2022

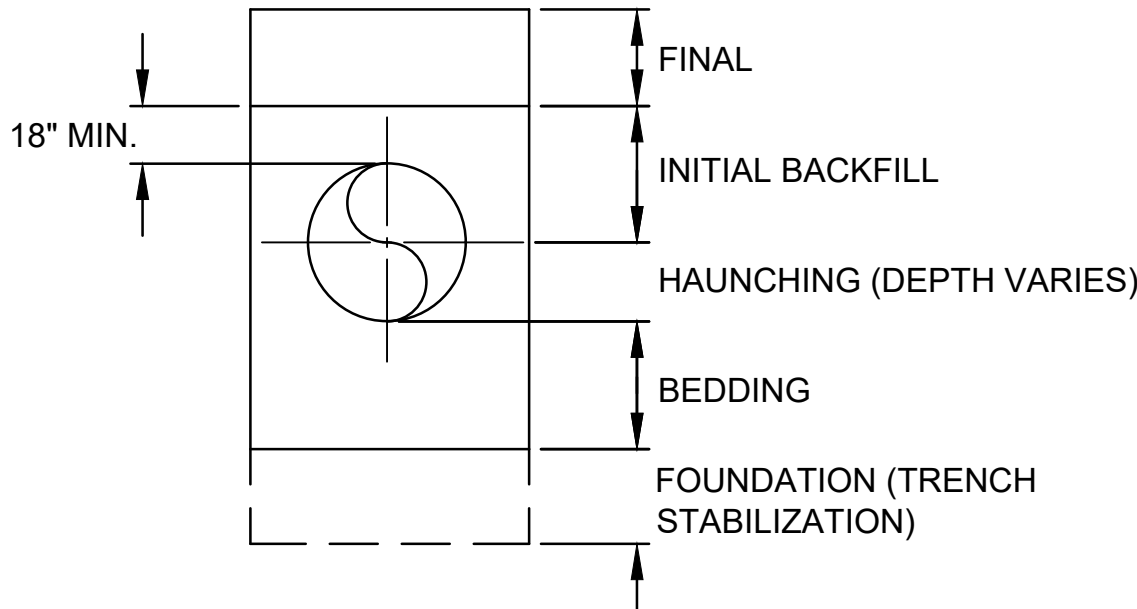


STEEL SOCKET CLAMP DIMENSIONS (INCHES)							
SIZE	A	B	C	D	E	T	ROD, C & WASH. SIZE
6	7 1/8	17 7/8	1/2	2	5/8 X 3 1/2	5/8	3/4
8	9 5/16	19 1/8	5/8	2 1/2	5/8 X 3 3/4	5/8	3/4
10	11 1/2	21 3/8	5/8	2 1/2	3/4 X 3 3/4	3/4	3/4
12	13 1/2	25 1/8	5/8	3	7/8 X 4 1/2	3/4	3/4
14	15 3/4	28 1/4	3/4	3	7/8 X 4 1/2	7/8	3/4
16	17 7/8	31 3/8	3/4	4	1 X 4 1/2	7/8	3/4
20	22 1/8	37 3/4	3/4	4 1/2	1 1/4 X 5	1 1/8	3/4
24	26 3/8	44 1/4	3/4	5	1 1/2 X 5 1/2	1 1/4	3/4

ABOVE ANCHOR STRAP DIMENSIONS (INCHES)						
SIZE	B	G	H	L	R	S
6	12 1/8	5/8 X 2 1/2	13/16	14 1/2	3 9/16	3/4
8	14 3/8	5/8 X 2 1/2	13/16	16 3/4	4 21/32	3/4
10	16 11/16	5/8 X 2 1/2	1 1/16	19 1/16	5 3/4	3/4
12	19 3/16	5/8 X 3	1 1/16	22 5/16	6 3/4	7/8

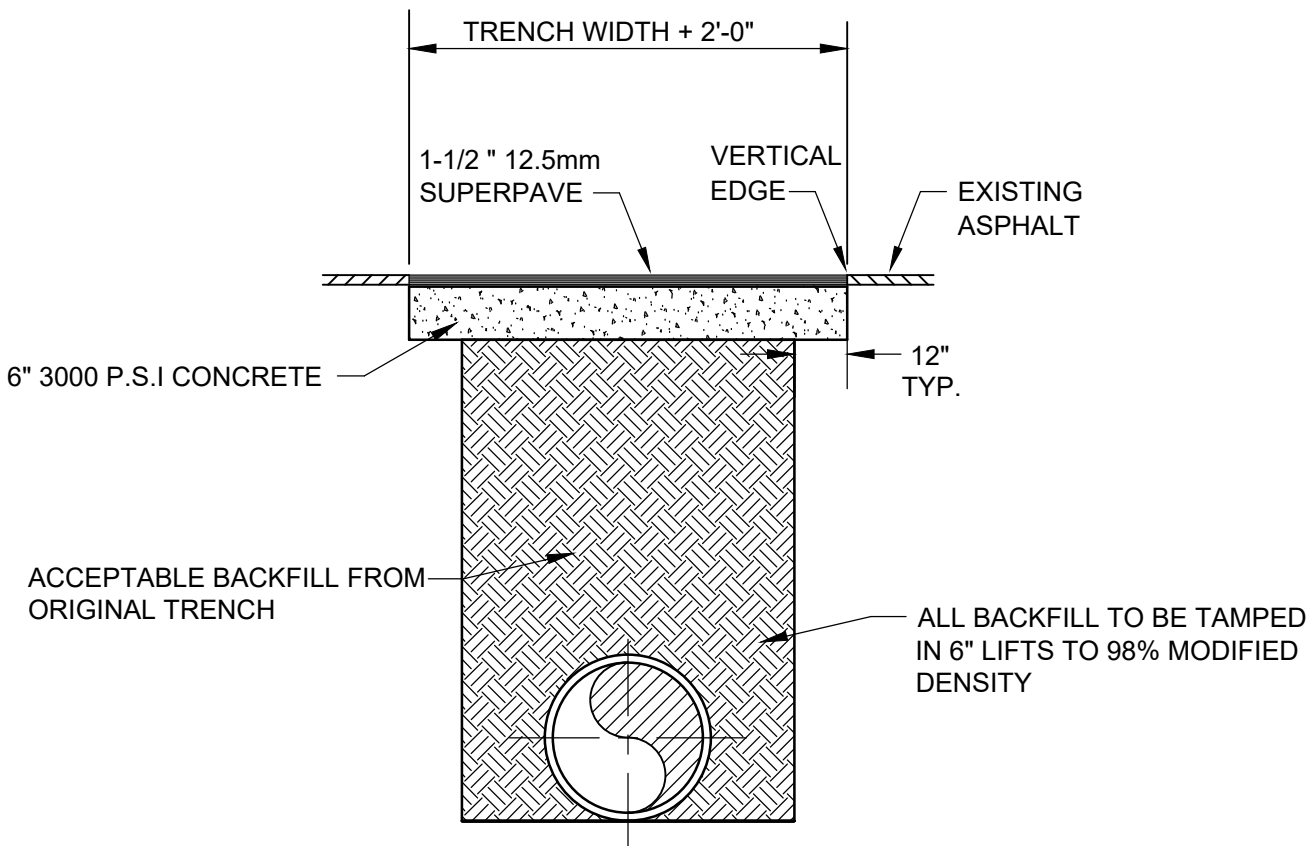
- NOTES:
1. INSTALLATION OF AND MATERIALS FOR RODS, CLAMPS, STRAPS, BOLTS AND WASHERS SHALL CONFORM TO THE NATIONAL FIRE CODES - NFFA NO. 24 LATEST REVISION.
 2. YOKES AND ANCHOR STRAPS FOR FITTINGS LARGER THAN 12" SHALL BE DESIGNED AND APPROVED FOR SPECIFIC INSTALLATION.
 3. RODS TO BE HIGH TENSILE, HOT ROLLED STEEL WITH TENSILE STRENGTH OF 110,000 P.S.I. AND A MIN. OF 22,000 YIELD STRENGTH.
 4. NUTS TO HAVE HEAVY DUTY SEMI-FINISH WITH NATIONAL COURSE THREADS.
 5. AFTER INSTALLATION TIE RODS AND CLAMP ASSEMBLY SHALL BE THOROUGHLY COVERED WITH ROYSTON LABS, INC. ROSKOTE MASTIC NO A939, OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK.

1
C-502
THRUST RESTRAINT
STRAP & ROD DETAILS
NTS

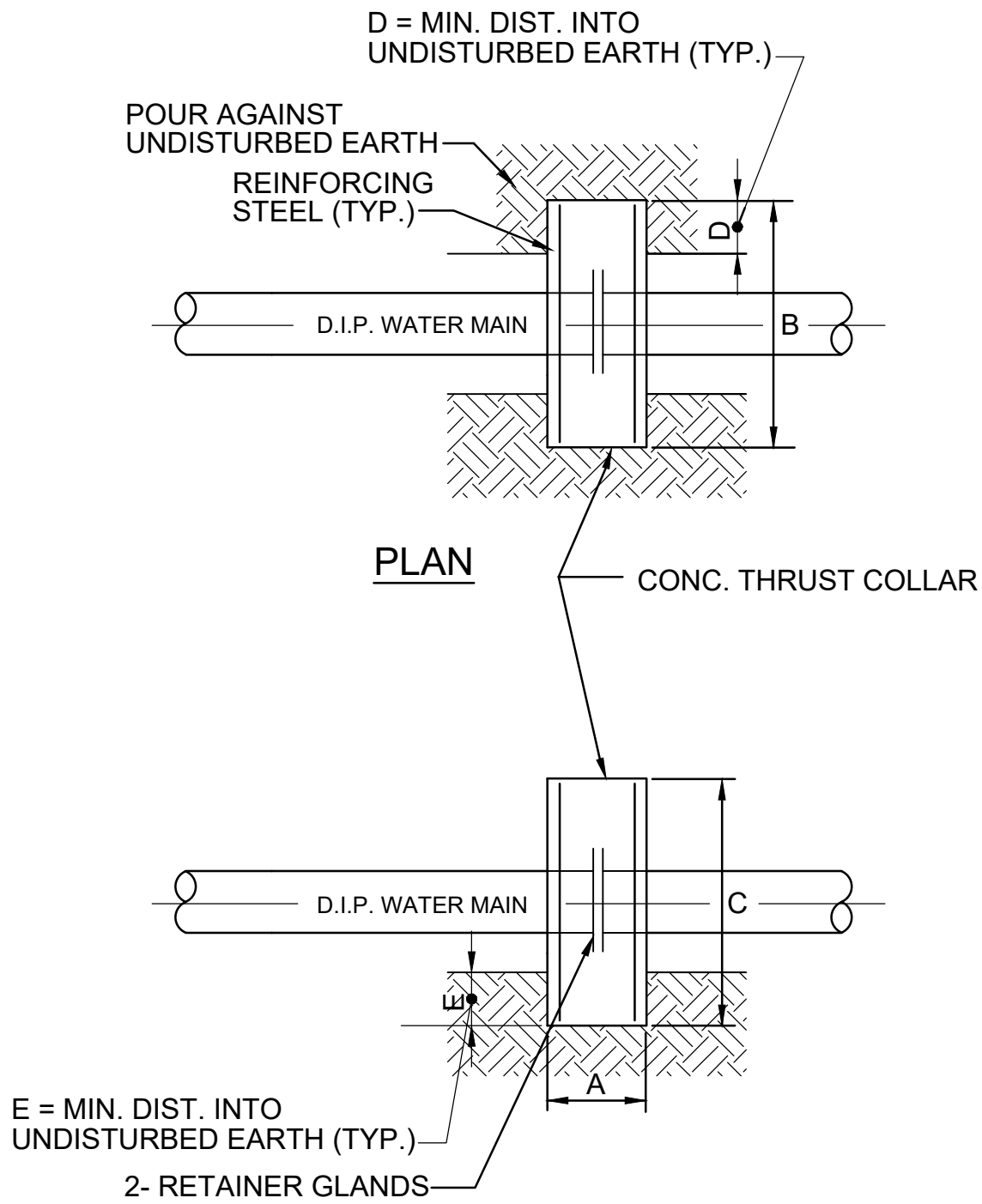


NOTE:
SEE SPECIFICATIONS AND PIPE
BEDDING AND HAUNCHING DETAILS
FOR DIMENSIONS AND MATERIALS

4
C-502
TRENCH TERMINOLOGY DETAIL
NTS



2
C-502
PAVEMENT REPLACEMENT TYPE "A" DETAIL
NTS

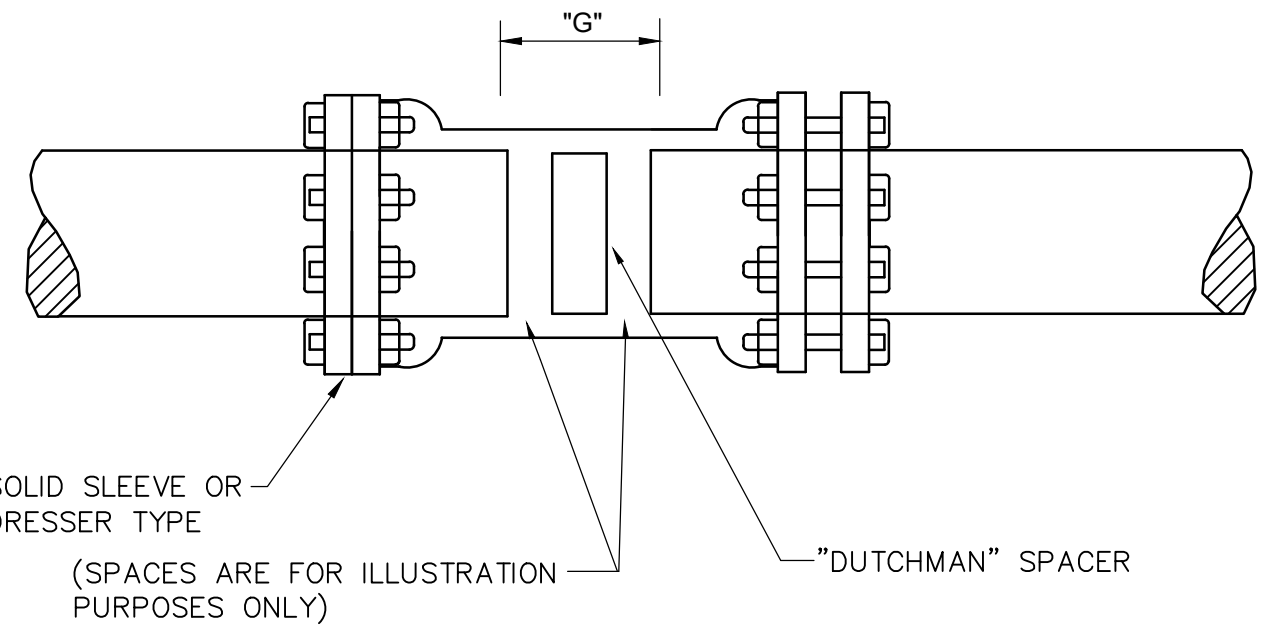


- NOTE:
1. NO INTERMEDIATE JOINTS BETWEEN THRUST COLLAR AND ADJACENT DOWNSTREAM VALVE OR FITTING.
 2. REINFORCEMENT SHALL HAVE 2" COVER AT THE FRONT AND BACK FACES AND 3" COVER AT LEFT, RIGHT AND BOTTOM EDGES. ADDITIONAL REINFORCING AT EACH FACE CONSISTING IN 2 BARS HORIZONTAL AND 2 BARS VERTICAL TO BE PLACED AT THE TOP, BOTTOM, LEFT AND RIGHT OF PIPE OPENING WITH 2" COVER AND 3" SPACING.

MAIN DIA	MINIMUM CONCRETE COLLAR DIM.					STEEL REINFORCING
	A	B	C	D	E	
6" OR 8"	1'-0"	5'-0"	4'-0"	1'-5"	1'-5"	#6 @ 12" O.C. E.W.E.F.

SOIL BEARING PRESSURE: 2000 P.S.F.

5
C-502
THRUST COLLAR DETAIL
NTS



- NOTES:
1. IF "G" IS GREATER THAN 1/2", AT ITS NARROWEST POINT, THEN A FULL CIRCLE SPACER OR "DUTCHMAN" MUST BE CUT AND PLACED IN THE GAP BEFORE THE SLEEVE IS USED TO CLOSE THE JOINT.
 2. THE "DUTCHMAN" SPACER SHALL BE CUT TO A WIDTH NO LESS THAN 1/4" LESS THAN THE NARROWEST WIDTH OF "G".
 3. EACH PIPE SPIGOT SHALL BE MARKED TO INDICATE WHERE THE SLEEVE WILL BE PROPERLY CENTERED OVER THE POINT.
 4. "FULL-CIRCLE" REPAIR CLAMPS ARE NOT APPROVED FOR JOINING PIPE, SUCH CLAMPS ARE SPECIFICALLY DESIGNED FOR REPAIRS ONLY.
 5. IF "STEEL" SLEEVE IS USED, PROPERLY COAT BEFORE BACKFILLING. SEE NOTE 5, DETAIL 1, SHEET C-502 FOR COATING DETAILS.

3
C-502
PIPE JOINING USING SOLID SLEEVE
NTS

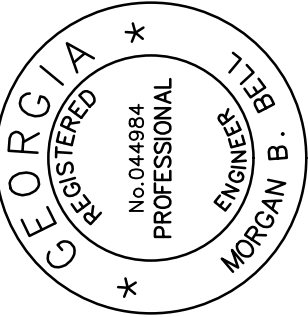
MISCELLANEOUS DETAILS

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

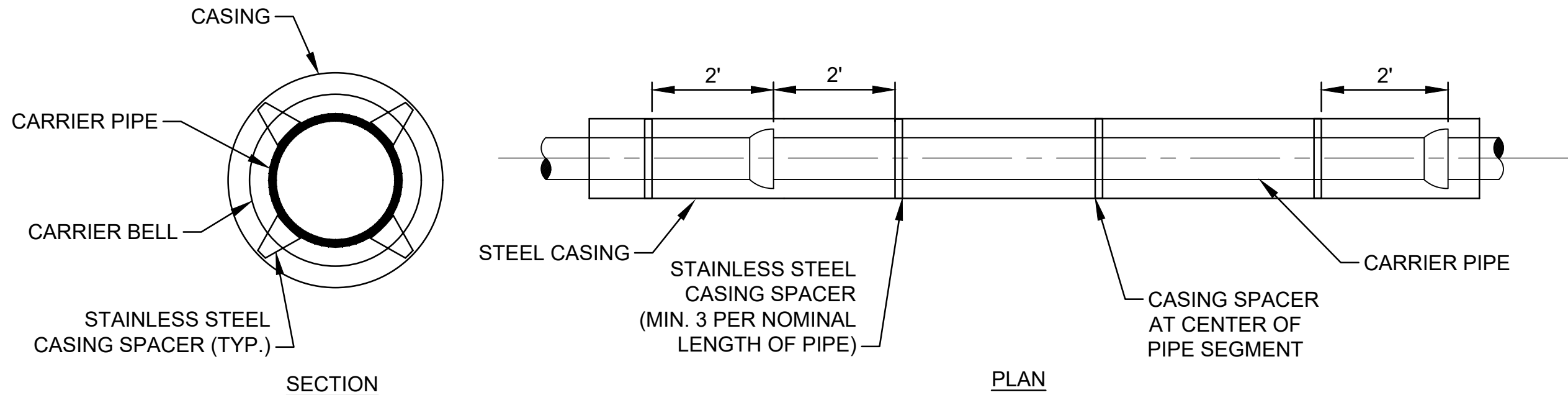
C-502

PROJ. NO. 3643217



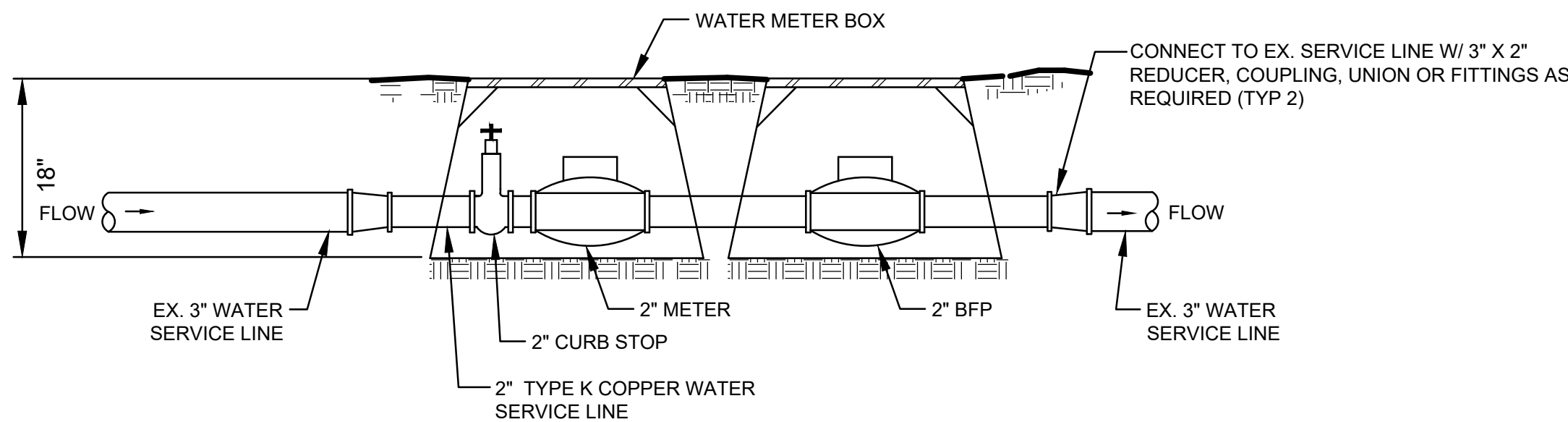
BARGE
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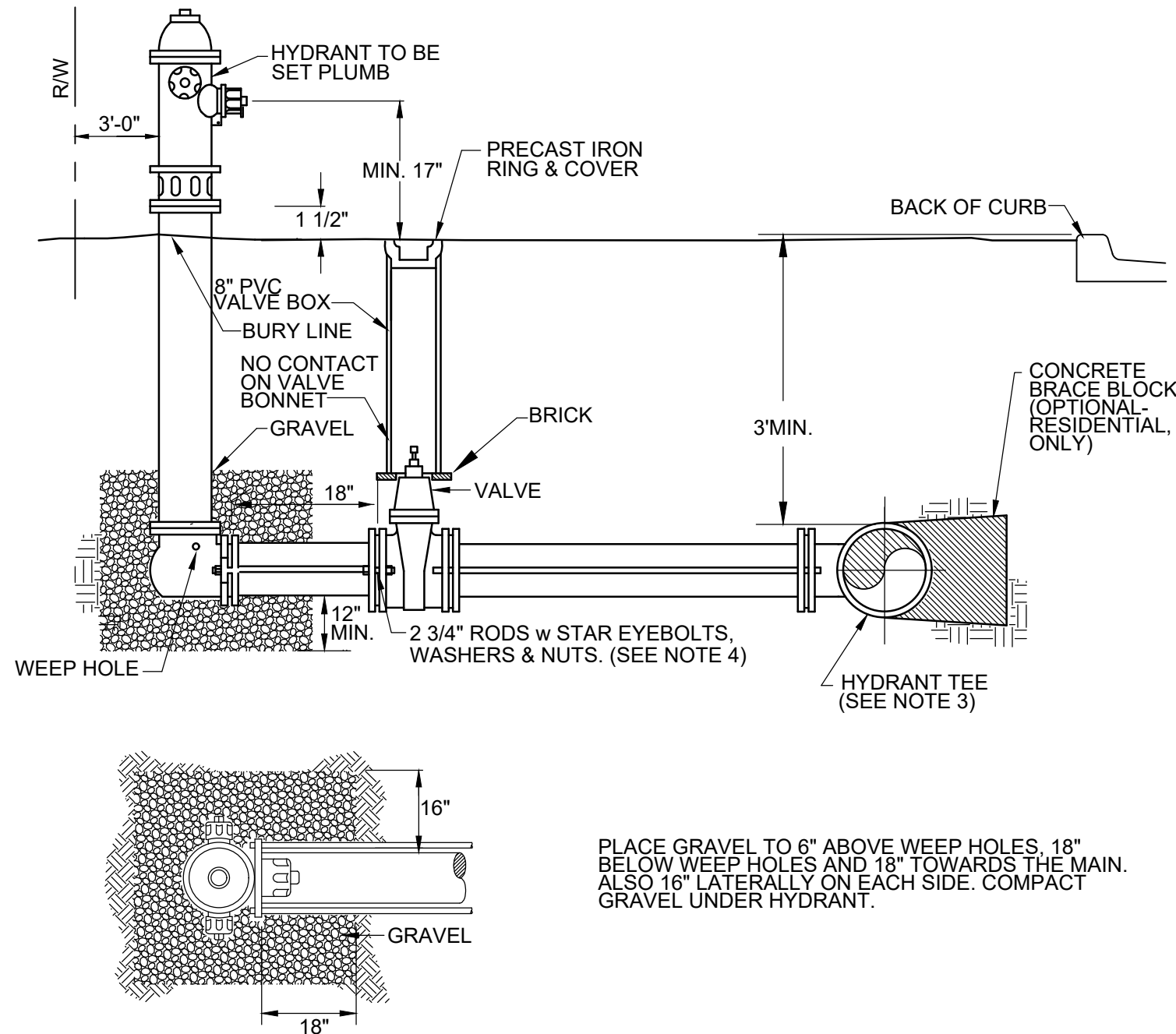
NOTE: CASING SHALL BE SEALED ON BOTH ENDS PER THE SPECIFICATIONS.

1 C-503 CASING SPACER DETAIL
NTS



NOTES: 1. NO UNRESTRAINED JOINTS SHALL BE ALLOWED.

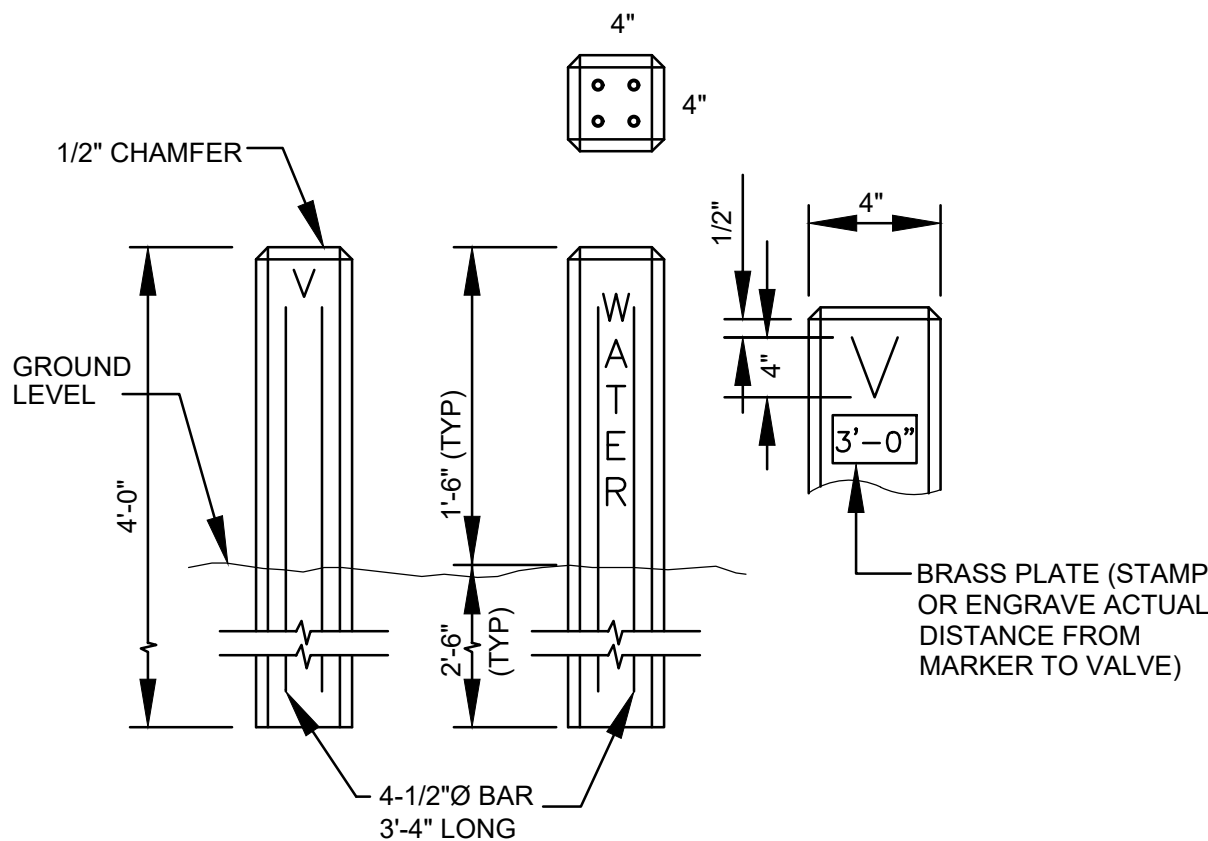
4 C-503 2" METER WITH METER BOX ON 3" SERVICE DETAIL
NTS



PLACE GRAVEL TO 6" ABOVE WEEP HOLES, 18" BELOW WEEP HOLES AND 18" TOWARDS THE MAIN. ALSO 18" Laterally ON EACH SIDE. COMPACT GRAVEL UNDER HYDRANT.

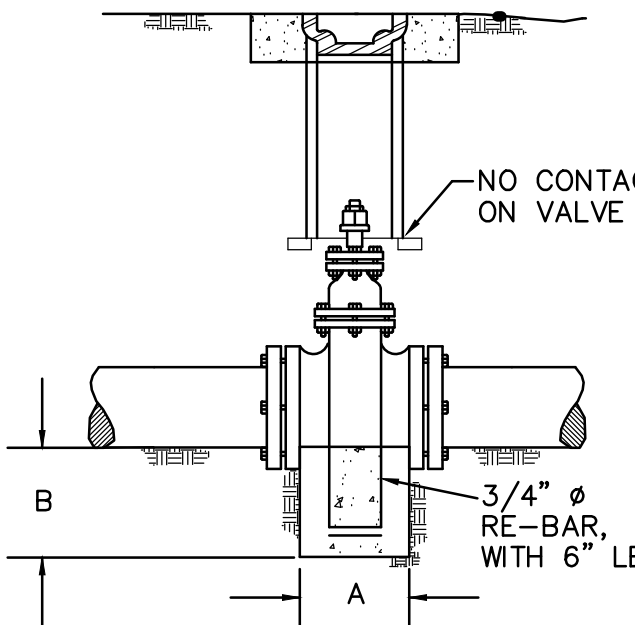
- NOTES:
1. RODS TO BE HIGH TENSILE, HOT ROLLED STEEL WITH TENSILE STRENGTH OF 110,000 P.S.I. AND A MINIMUM YIELD STRENGTH OF 95,000 P.S.I.
 2. FOR ALL WATER MAINS IN COUNTY, STATE, OR FEDERAL R/W'S - MINIMUM TRENCH DEPTH SHALL BE 4'-0" FROM TOP OF CURB.
 3. IF REGULAR TEE USED, MINIMUM NIPPLE LENGTHS SHALL BE 12".
 4. IF SUITABLE LENGTH ANCHOR COUPLINGS ARE USED, RODS MAY BE OMITTED.
 5. SPACE HYDRANTS AS SHOWN ON APPROVED PLAN

5 C-503 FIRE HYDRANT ASSEMBLY
NTS

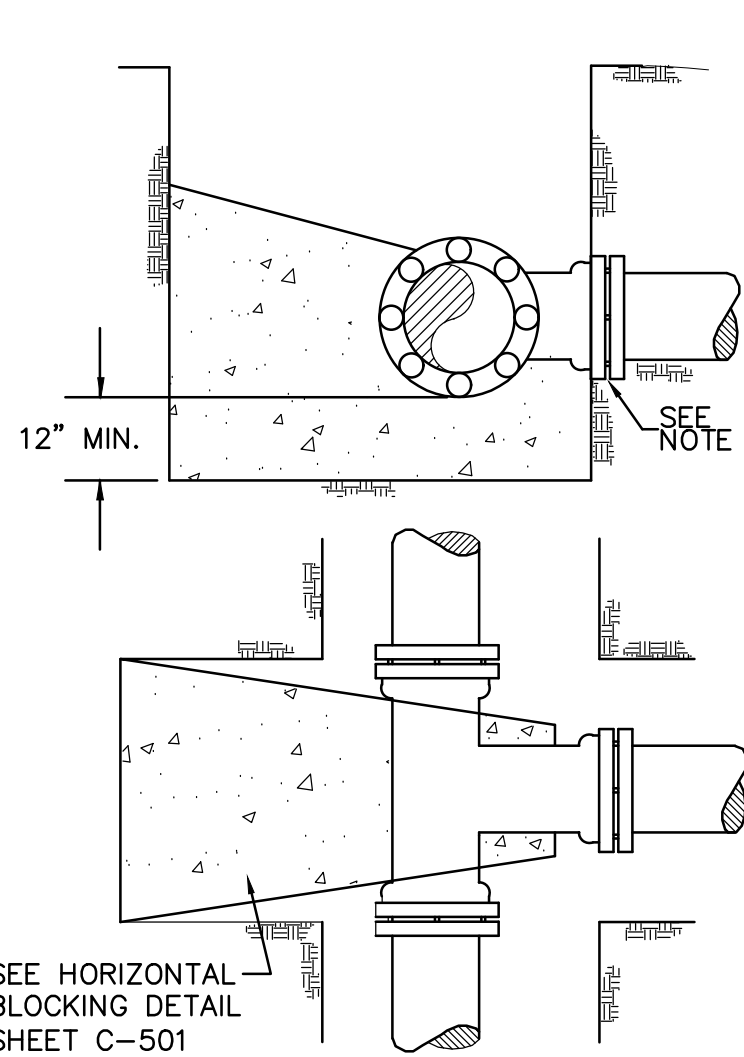


2 C-503 WATER VALVE MARKER
NTS

VALVE BLOCKING/SUPPORT



TEE BLOCKING/SUPPORT

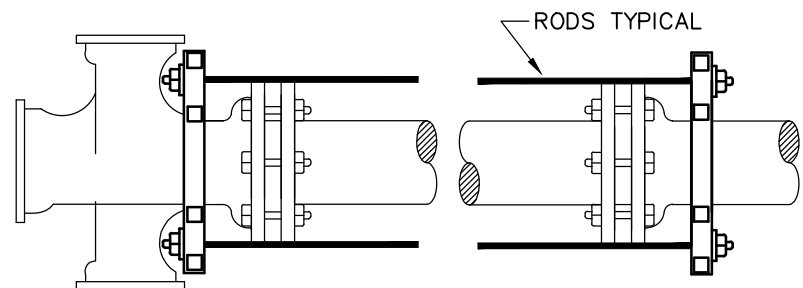


NOTES:

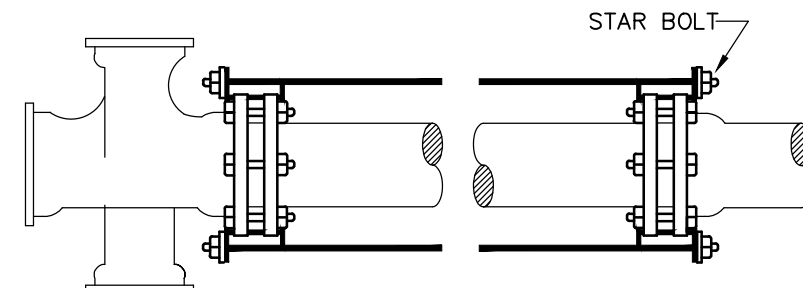
1. COVER GLAND AND BOLTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
2. COAT STRAPS AND RODS WITH AN APPROVED BITUMASTIC COATING BEFORE BACKFILLING. STRAPS AND RODS SHALL BE THOROUGHLY COVERED WITH ROYSTON LABS, INC. ROSKOTE MASTIC NO A939, OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK.
3. ALLOW CONCRETE TO SET UP A MINIMUM OF 6 HOURS BEFORE PLACING BACKFILL.
4. CONCRETE SHALL BE 3000 P.S.I., CLASS A.

3 C-503 THRUST RESTRAINT: HORIZONTAL BLOCKING SUPPORT
NTS

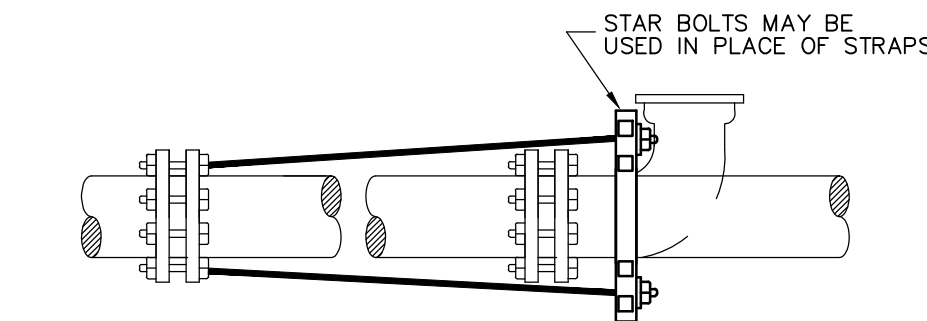
I. FITTING RESTRAINT STRAPS & RODS



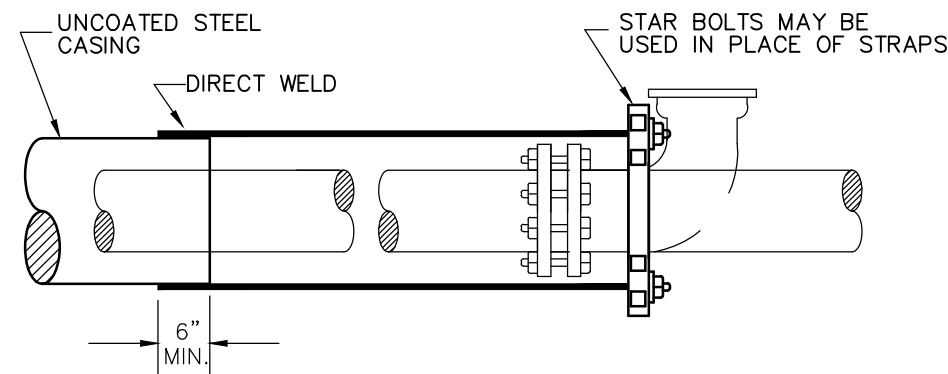
II. FITTING RESTRAINT STAR BOLTS AND RODS



III. FITTING RESTRAINT FLANGE-MJ



IV. FITTING RESTRAINT DIRECT WELD TO STEEL CASING (10" OR LESS MAINS, ONLY)

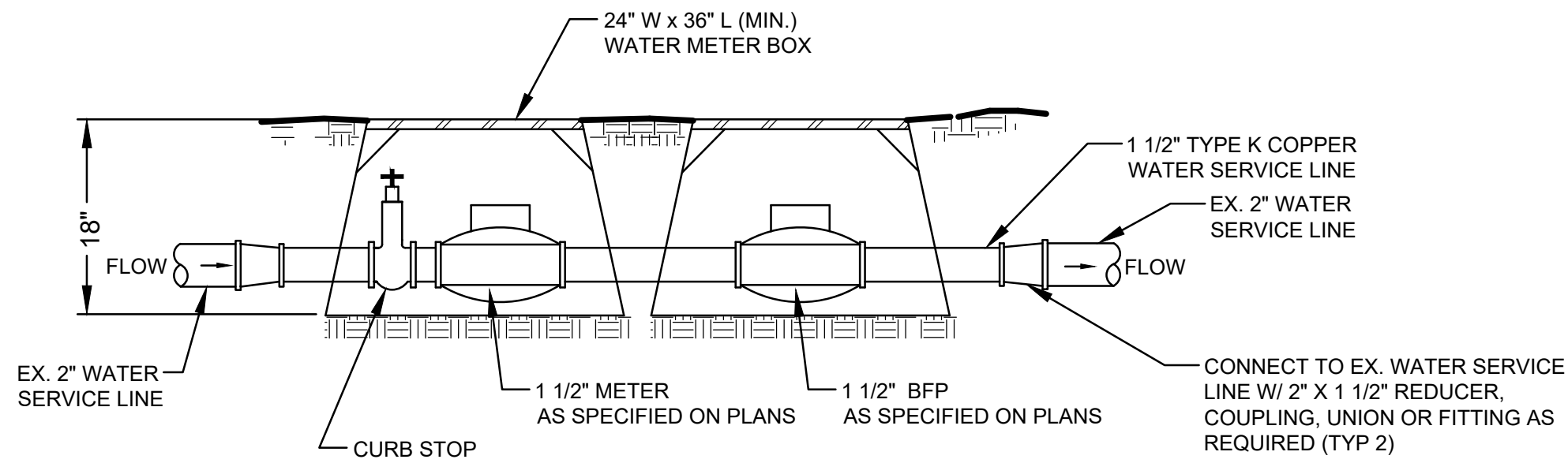


NOTES:

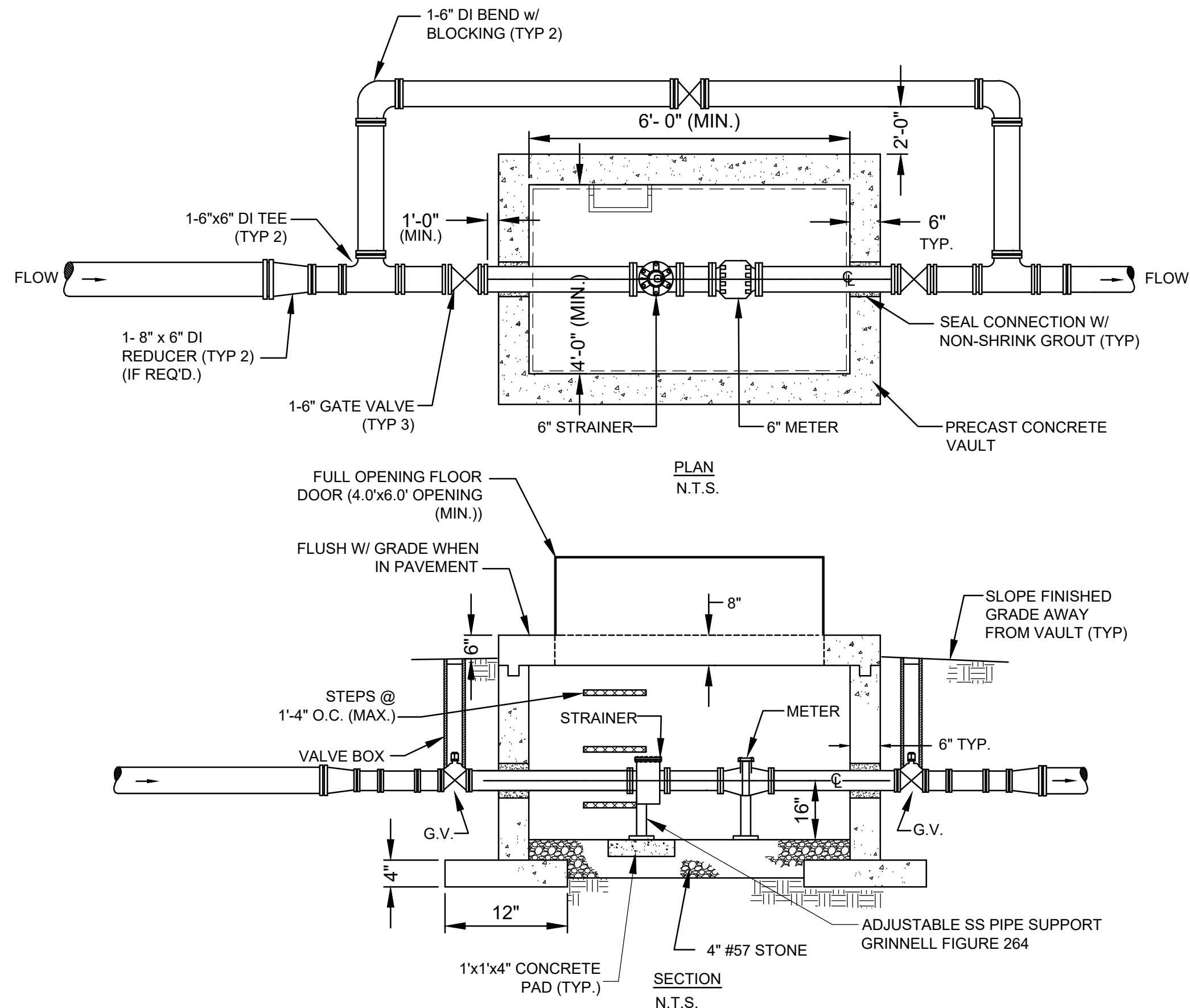
1. SEE DETAIL "4" SHT.C-501 FOR NUMBER AND DIAMETER OF RODS REQUIRED.
2. NO FLANGED JOINTS ARE TO BE BURIED.
3. AFTER INSTALLATION, TIE-RODS AND CLAMP ASSEMBLIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ROYSTON LABORATORIES, INC. ROSKOTE PLASTIC NO. A939 OR KOPPERS CO. INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.
4. WHEN RESTRAINING FITTINGS TO STEEL CASING PIPE, THE TIE-RODS MUST BE DIRECT WELDED TO THE CASING. USE OF STAR BOLTS PROHIBITED. CASING MUST BE FULLY WELDED THROUGHOUT ITS LENGTH AND BE A MINIMUM OF 30" IN LENGTH. AREA TO BE WELDED MUST BE COMPLETELY BARE AND FREE OF ANY COATING MATERIAL.

6 C-503 THRUST RESTRAINT: TIE-ROD INSTALLATION
NTS

REV	CHK	DATE	DESCRIPTION	INITIAL	ISSUE
0		10/28/22			

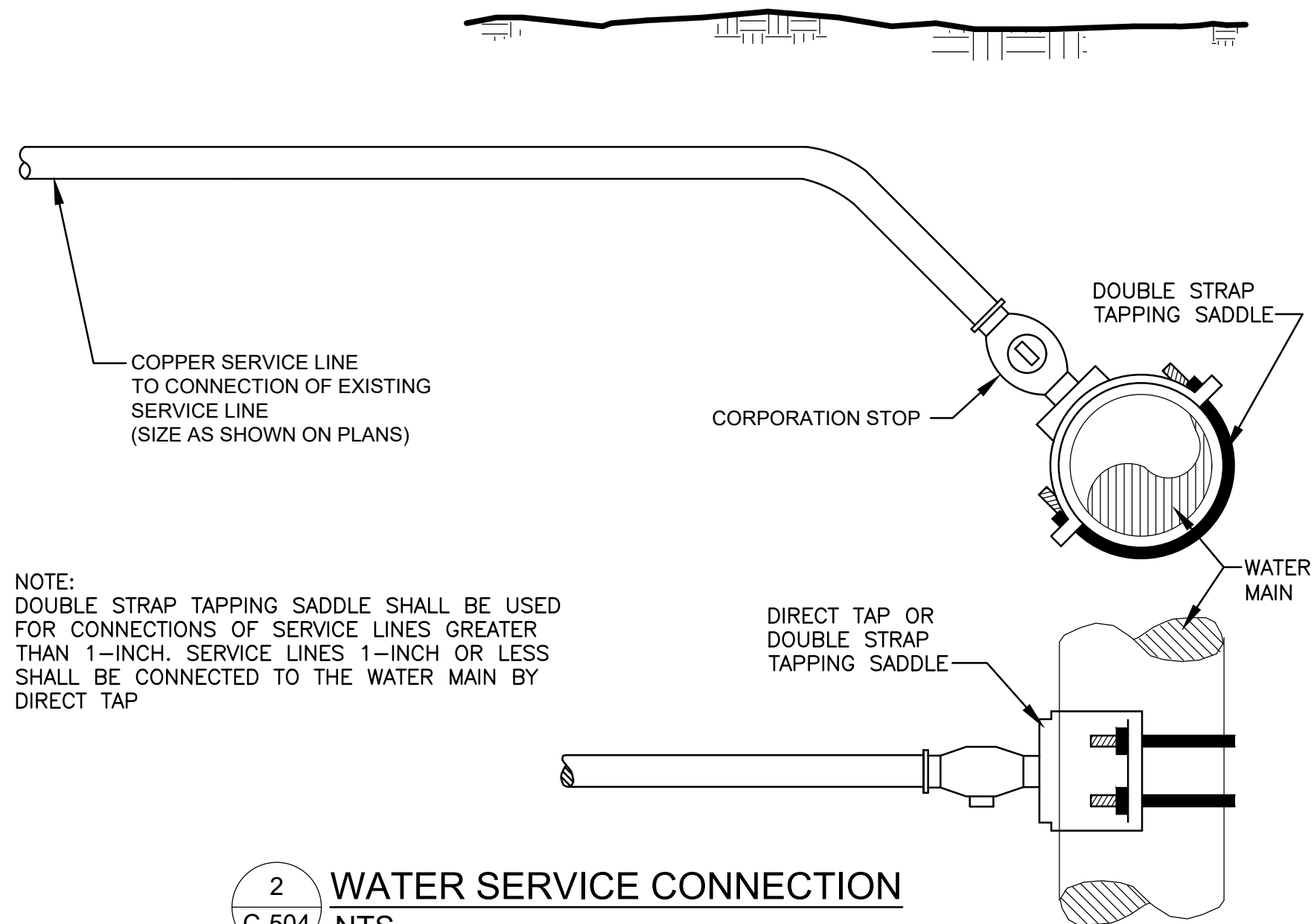


1
C-504 1 1/2" METER WITH METER BOX ON 2" SERVICE DETAIL
NTS



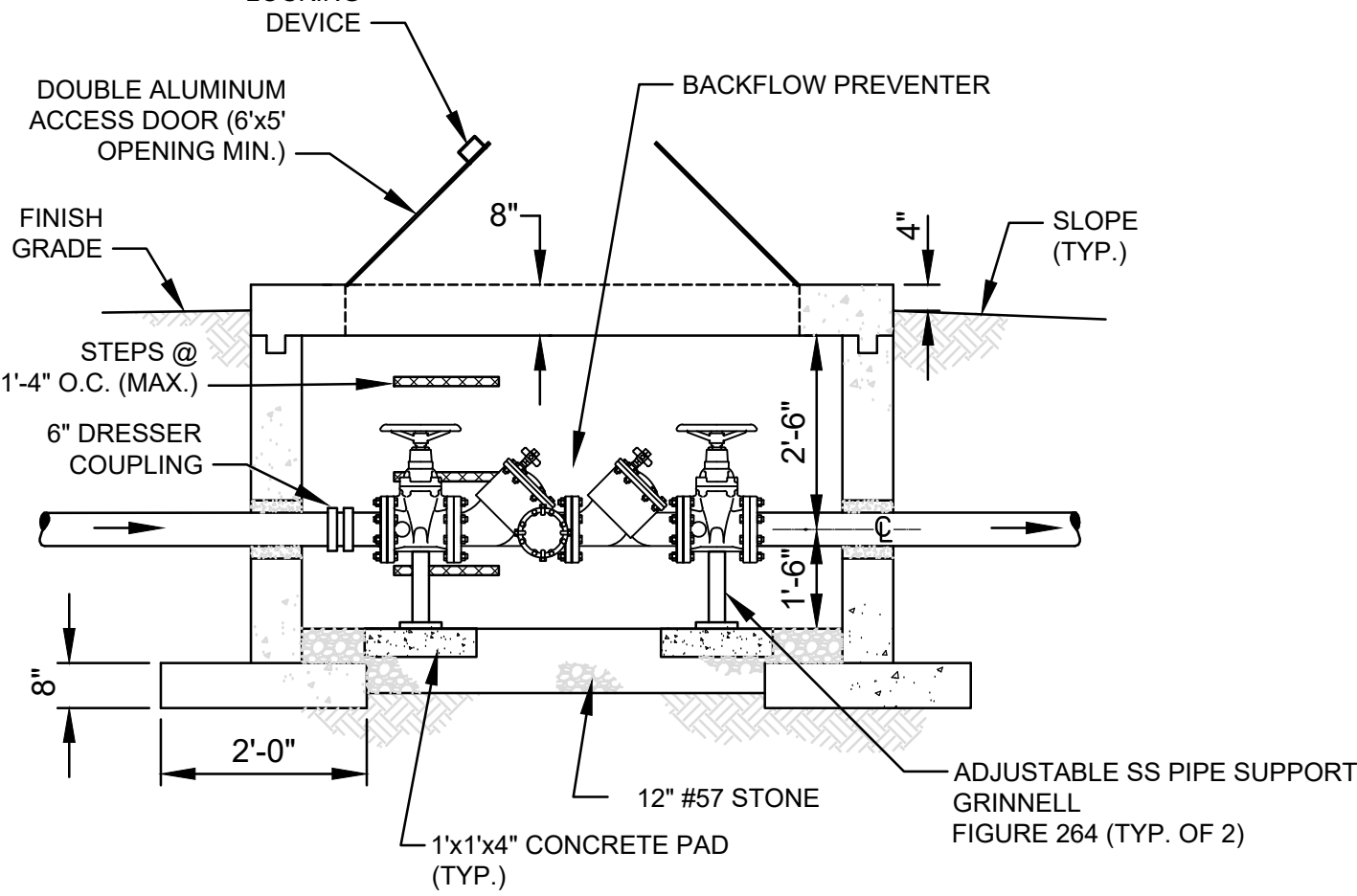
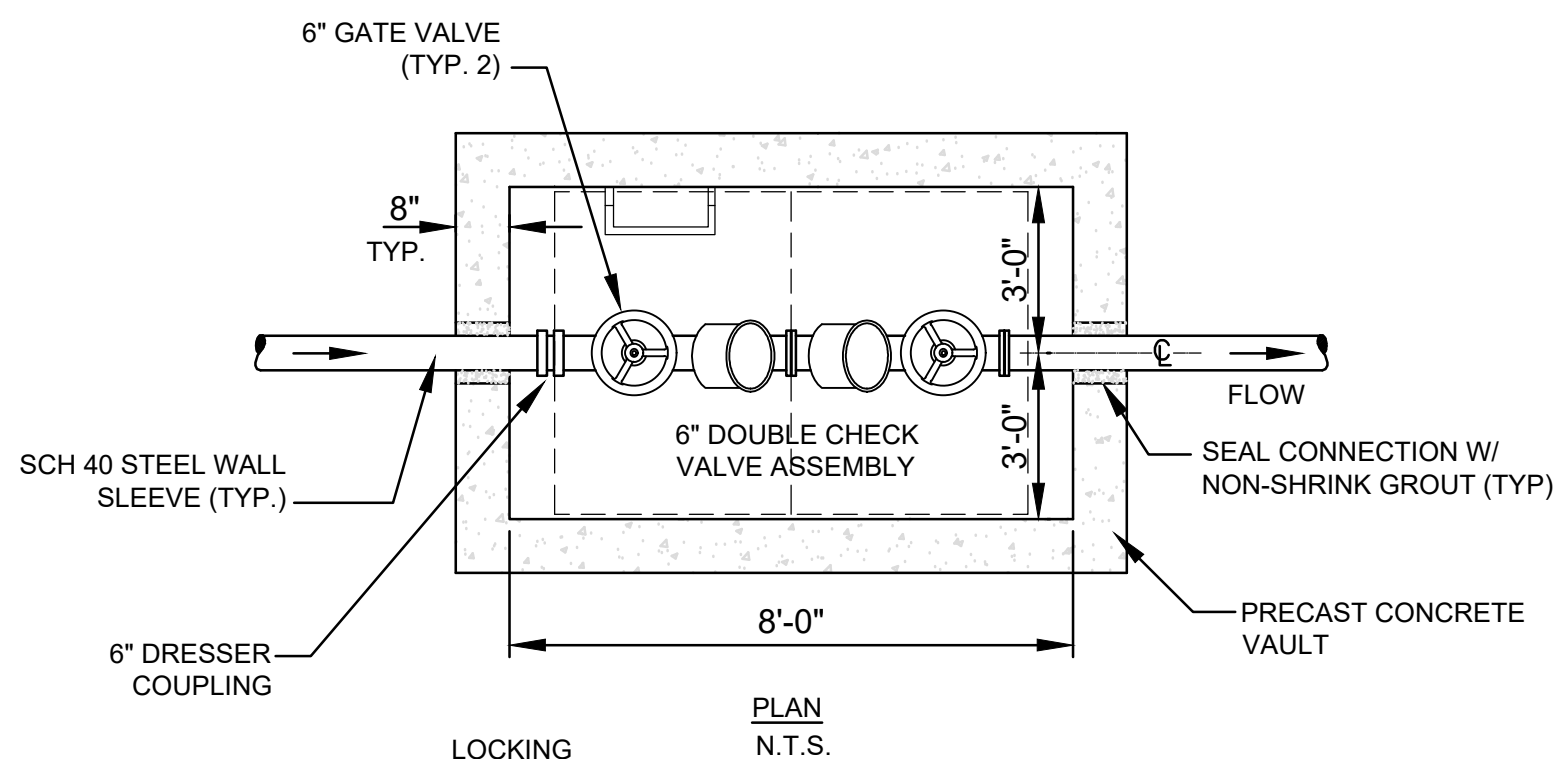
- NOTES:
1. PROVIDE POURED SOLID BOTTOM W/ DRAIN TO GRADE WHEN GROUNDWATER IS PRESENT.
 2. VAULT DOOR SHALL BE COMPLIANT WITH H-20 LOAD RATING WHEN LOCATED IN PAVEMENT.
 3. ALL FITTINGS AND VALVES SHALL BE INSTALLED WITH RETAINER GLANDS.
 4. NO UNRESTRAINED JOINTS SHALL BE ALLOWED.

3
C-504 6" METER ASSEMBLY WITH NEW VAULT DETAIL
NTS



NOTE:
DOUBLE STRAP TAPPING SADDLE SHALL BE USED FOR CONNECTIONS OF SERVICE LINES GREATER THAN 1-INCH. SERVICE LINES 1-INCH OR LESS SHALL BE CONNECTED TO THE WATER MAIN BY DIRECT TAP

2
C-504 WATER SERVICE CONNECTION
NTS



NOTE: DOUBLE LEAF ACCESS DOOR SHALL BE 1/4" DIAMOND PLATE ALUMINUM REINFORCED FOR 300 PSF PEDESTRIAN LOADS AND HINGED ON SHORT SIDE OF VAULT.

SECTION
N.T.S.

4
C-504 6" BACKFLOW PREVENTER ASSEMBLY WITH NEW VAULT DETAIL
NTS

REV	CHK.	DATE	DESCRIPTION	INITIAL	ISSUE
0		10/28/22			

A map of Troup County, Georgia, showing the location of the study site. The map includes labels for Troup County, I-85, I-185, the Georgia/Alabama line, and West Point Lake. A black square marks the 'SITE'.

CHECKLIST # 9



CHECKLIST # 6 :

- [Supplement GAR 100002 - Part II, B, 1.a]: GPS LOCATION OF CONSTRUCTION EXIT, OR BEGINNING AND END OF LINEAR PROJECT:

Begin: Lat. 33.0333° Long. -85.1427° End: Lat. 33.0202° Long. -85.1581°

OWNER/DEVELOPER	OPERATOR	DESIGN PROFESSIONAL
OWNER: (Private Co.) CITY OF LAGRANGE 200 RIDLEY AVE LAGRANGE, GA 30240	CONTRACTOR # INFO _____ _____ _____ _____	PROJECT ENGINEER MORGAN BELL, P.E. BARGE DESIGN SOLUTIONS, INC. 1201 FRONT AVENUE, SUITE F COLUMBUS, GA 31901 PHONE: (706) 321-4587

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USER:TPNE\GHER
FILE:F:\361_364321\364321_7\04_CAD\WATR\3643217_EC002.dwg
SAVED:10/25/2022
PLOTTED:10/25/2022

CHECKLIST #1

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
GAR 100002

PLAN/PAGE	Y/N/NA	ITEM	PLAN/PAGE	Y/N/NA	ITEM				
EC002	Y	1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED. (THE COMPLETED CHECKLIST MUST BE SUBMITTED WITH THE ES&PC PLAN OR THE PLAN WILL NOT BE REVIEWED.)	EC002/EC004	Y	28. DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES. *				
ALL	Y	2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL. (SIGNATURE, SEAL AND LEVEL II NUMBER MUST BE ON EACH SHEET PERTAINING TO ES&PC PLAN OR THE PLAN WILL NOT BE REVIEWED)	EC001	Y	29. DESCRIPTION AND CHART OR TIMELINE OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR THE MAJOR PORTIONS OF THE SITE (I.E. INITIAL PERIMETER AND SEDIMENT STORAGE BMP'S, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, TEMPORARY AND FINAL STABILIZATION).				
EC001	Y	3. THE NAME AND PHONE NUMBER OF THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDEMENTATION AND POLLUTION CONTROLS.	EC005	Y	30. PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE. *				
EC001	Y	4. PROVIDE NAME, ADDRESS, EMAIL ADDRESS, AND PHONE NUMBER OF THE PRIMARY PERMITTEE.	EC005	Y	31. PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS. *				
EC001	Y	5. NOTE TOTAL AND DISTURBED ACREAGE OF THE PROJECT OR PHASE UNDER CONSTRUCTION.	EC005	Y	32. PROVIDE COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF THE PERMIT. *				
EC001	Y	6. PROVIDE GPS LOCATIONS OF THE BEGINNING AND END OF THE INFRASTRUCTURE PROJECT. GIVE LATITUDE AND LONGITUDE IN DECIMAL DEGREES.	EC002/EC005	Y	33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION. *				
ALL	Y	7. INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.	EC002/EC003	Y	34. APPENDIX B RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE. *				
EC001	Y	8. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS.	EC003	Y	35. DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED. ALSO PROVIDE A SUMMARY CHART OF THE JUSTIFICATION AND ANALYSIS FOR THE REPRESENTATIVE SAMPLING AS APPLICABLE. *				
EC001	Y	9. PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS. INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY.	EC101-EC106/ EC502	Y	36. A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING: (1) INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S, (2) INTERMEDIATE GRADING AND DRAINAGE BMP'S, AND (3) FINAL BMP'S. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING AND THE INITIAL PERIMETER CONTROL BMP'S, INTERMEDIATE GRADING AND DRAINAGE BMP'S, AND FINAL BMP'S ARE THE SAME, THE PLAN MAY COMBINE ALL OF THE BMP'S INTO A SINGLE PHASE. *				
EC001/EC003	Y	10. IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, ETC. WHICH MAY BE AFFECTED.	EC101-EC106	Y	37. GRAPHIC SCALE AND NORTH ARROW.				
EC001	Y	11. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF ES&PC PLAN AS STATED ON PART IV PAGE 21 OF THE PERMIT.	EC101-EC106	Y	38. EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING: <table><tr><td>EXISTING CONTOURS</td><td>USGS 1": 2000' TOPOGRAPHICAL SHEETS</td></tr><tr><td>PROPOSED CONTOURS</td><td>1": 400' CENTERLINE PROFILE</td></tr></table>	EXISTING CONTOURS	USGS 1": 2000' TOPOGRAPHICAL SHEETS	PROPOSED CONTOURS	1": 400' CENTERLINE PROFILE
EXISTING CONTOURS	USGS 1": 2000' TOPOGRAPHICAL SHEETS								
PROPOSED CONTOURS	1": 400' CENTERLINE PROFILE								
EC001	Y	12. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMP'S AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PART IV PAGE 20 OF THE PERMIT. *	EC001	Y	39. USE OF ALTERNATIVE BMP'S WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMP'S AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG				
EC001	Y	13. DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR REPRESENTATIVE SAMPLING AS STATED ON PART IV.D.6.(3) PAGE 37 OF THE PERMIT AS APPLICABLE. *	EC001	Y	40. USE OF ALTERNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA 2016 EDITION. *				
EC001	Y	14. CLEARLY NOTE THE STATEMENT THAT "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMP'S, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION." IN ACCORDANCE WITH PART IV.A.5 PAGE 26 OF THE PERMIT. *	EC101-EC106	Y	41. DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT.				
EC003	Y	15. CLEARLY NOTE THE STATEMENT THAT "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COSTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."	EC101-EC106	Y	42. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE.				
EC003	Y	16. PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED.	EC003	Y	43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE.				
EC001	Y	17. CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. "	EC003	Y	44. DELINEATE ON-SITE DRAINAGE AND OFF-SITE WATERSHEDS USING USGS 1": 2000' TOPOGRAPHICAL SHEETS.				
EC004	Y	18. CLEARLY NOTE THE STATEMENT THAT "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. "	EC003	Y	45. AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED.				
EC003	Y	19. CLEARLY NOTE THE STATEMENT THAT "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."	EC003	Y	46. STORM-DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION. IDENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS.				
EC003/EC004	Y	20. CLEARLY NOTE STATEMENT THAT "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."	EC003	Y	47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION.				
EC003	Y	21. CLEARLY NOTE THE STATEMENT THAT "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."	EC101-EC106	Y	48. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION.				
EC003	Y	22. ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETE APPENDIX 1 LISTING ALL THE BMP'S THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. *	EC502	Y	49. PROVIDE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED. A WRITTEN RATIONALE EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. WORKSHEETS FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMP'S AND ALL CALCULATIONS USED BY THE DESIGN PROFESSIONAL TO OBTAIN THE REQUIRED SEDIMENT STORAGE WHEN USING EQUIVALENT CONTROLS. WHEN DISCHARGING FROM SEDIMENT BASINS AND IMPOUNDMENTS, PERMITTEES ARE REQUIRED TO UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE, UNLESS UNFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASIBLE, A WRITTEN JUSTIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN.				
EC003	Y	23. IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 21 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN. *	EC101-EC106 EC501	Y	50. LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH LEGEND.				
EC004	Y	24. BMP'S FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. *	EC502	Y	51. PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.				
EC002/EC004	Y	25. PROVIDE BMP'S FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.	EC501	Y	52. PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES. INCLUDE SPECIES, PLANTING DATES AND SEEDING, FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.				
EC004	Y	26. DESCRIPTION OF THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. *	*IF USING THIS CHECKLIST FOR A PROJECT THAT IS LESS THAN 1 ACRE AND NOT PART OF A COMMON DEVELOPMENT, BUT WITHIN 200 FT. OF A PERENNIAL STREAM, THE * CHECKLIST ITEMS WOULD BE N/A. EFFECTIVE JANUARY 1, 2022						
EC002/EC004	Y	27. DESCRIPTION OF PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND BUILDING PRODUCTS ON SITE. *							
APPENDIX 1GAR 100002 ___ APPLICABLE X_ NOT APPLICABLE									
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMP'S FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME. [SUPPLEMENT CHECKLIST #22]:									
PLAN/PAGE	Y/N/NA	ITEM	PLAN/PAGE	Y/N/NA	ITEM				
		A. DURING CONSTRUCTION ACTIVITIES, DOUBLE THE WIDTH OF THE 25 FOOT UNDISTURBED VEGETATED BUFFER ALONG ALL STATE WATERS REQUIRING A BUFFER AND THE 50 FOOT UNDISTURBED VEGETATED BUFFER ALONG ALL STATE WATERS CLASSIFIED AS "TROUT STREAMS" REQUIRING A BUFFER. DURING CONSTRUCTION ACTIVITIES, EPD WILL NOT GRANT VARIANCES TO ANY SUCH BUFFERS THAT ARE INCREASED IN WIDTH.			M. USE APPROPRIATE EROSION CONTROL SLOPE STABILIZATION INSTEAD OF CONCRETE IN ALL CONSTRUCTION STORM WATER DITCHES AND STORM DRAINAGES DESIGNED FOR A 25 YEAR, 24 HOUR RAINFALL EVENT.				
		B. INCREASE ALL TEMPORARY SEDIMENT BASINS AND RETROFITTED STORM WATER MANAGEMENT BASINS TO PROVIDE SEDIMENT STORAGE OF AT LEAST 3600 CUBIC FEET (134 CUBIC YARDS) PER ACRE DRAINED.			N. USE FLOCCULANTS OR COAGULANTS UNDER A PASSIVE DOSAGE METHOD (E.G., FLOCCULANT BLOCKS) WITHIN CONSTRUCTION STORM WATER DITCHES AND STORM DRAINAGES THAT FEED INTO TEMPORARY SEDIMENT BASINS AND RETROFITTED MANAGEMENT BASINS.				
		C. USE BAFFLES IN ALL TEMPORARY SEDIMENT BASINS AND RETROFITTED STORM WATER MANAGEMENT BASINS TO AT LEAST DOUBLE THE CONVENTIONAL FLOW PATH LENGTH TO THE OUTLET STRUCTURE.			O. INSTALL SOD FOR A MINIMUM 20 FOOT WIDTH (IN LIEU OF SEEDING), AFTER FINAL GRADE HAS BEEN ACHIEVED, ALONG THE SITE PERIMETER WHEREVER STORM WATER (INCLUDING SHEET FLOW) MAY BE DISCHARGED.				
		D. A LARGE SIGN (MINIMUM 4 FEET X 8 FEET) MUST BE POSTED ON SITE BY THE ACTUAL START DATE OF CONSTRUCTION. THE SIGN MUST BE VISIBLE FROM A ROADWAY. THE SIGN MUST IDENTIFY THE FOLLOWING: (1) CONSTRUCTION SITE, (2) THE PERMITTEE(S), (3) THE CONTACT PERSON(S) AND TELEPHONE NUMBER(S), AND (4) THE PERMITTEE-HOSTED WEBSITE WHERE THE PLAN CAN BE VIEWED MUST BE PROVIDED ON THE SUBMITTED NOI. THE SIGN MUST REMAIN ON SITE AND THE PLAN MUST BE AVAILABLE ON THE PROVIDED WEBSITE UNTIL A NOI HAS BEEN SUBMITTED.			P. CONDUCT SOILS TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS.				
		E. 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.			Q. CERTIFIED PERSONNEL FOR PRIMARY PERMITTEES SHALL CONDUCT INSPECTIONS AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHED RAINFALL OR GREATER IN ACCORDANCE WITH SECTION IV.D.4.a.(3)(a) - (c), SECONDARY PERMITTEES, SECTION IV.D.4.b.(3)(a) - (c), AND TERTIARY PERMITTEES SECTION IV.D.4.c.(3)(a) - (c).				
		F. CONDUCT TURBIDITY AND TOTAL SUSPENDED SOLIDS (TSS) SAMPLING AFTER EVERY RAIN EVENT OF 0.5 INCH OR GREATER WITHIN ANY 24 HOUR PERIOD, RECOGNIZING THE EXCEPTIONS SPECIFIED IN PART IV.D.6.D. OF THE NPDES PERMIT GAR 100003.			R. APPLY THE APPROPRIATE COMPOST BLANKETS (MINIMUM DEPTH 1.5 INCHES) TO PROTECT SOIL SURFACES UNTIL VEGETATION IS ESTABLISHED DURING THE FINAL STABILIZATION PHASE OF THE CONSTRUCTION ACTIVITY.				
		G. COMPLY WITH THE APPLICABLE END-OF-PIPE TURBIDITY EFFLUENT LIMIT, WITHOUT THE "BMP DEFENSE" AS PROVIDED FOR IN O.C.G.A. 12-7-6 (A)(1).			S. USE ALTERNATIVE BMP'S WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE SUPERIOR TO CONVENTIONAL BMP'S AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE STATE SOIL AND WATER CONSERVATION COMMISSION). (IF USING THIS ITEM PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.GEORGIA.GOV)				
		H. LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES EXCLUDING ANY STATE-MANDATED BUFFER AREAS FROM SUCH CALCULATIONS).			T. LIMIT THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 15% IMPERVIOUS SURFACES (EXCLUDING ANY STATE MANDATED BUFFER AREAS FROM SUCH CALCULATIONS). ALL CALCULATIONS MUST BE INCLUDED IN THE PLAN.				
		I. LIMIT THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME TO NO GREATER THAN 25 ACRES OR 50% OF THE TOTAL PLANNED SITE, WHICHEVER IS LESS.			U. CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE OF THE PROJECT BY THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN IN ACCORDANCE WITH SECTION IV.A.5 OF THE PERMIT. THE PLAN MUST INCLUDE A STATEMENT THAT THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN TO CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE.				
		J. USE "DIRT II" TECHNIQUES AVAILABLE ON THE EPD WEBSITE TO MODEL AND MANAGE CONSTRUCTION STORM WATER RUNOFF (INCLUDING SHEET FLOW). ALL CALCULATIONS MUST BE INCLUDED ON THE PLAN (https://epd.georgia.gov/erosion-and-sedimentation)			T. INSTALL POST CONSTRUCTION BMP'S E.G., RUNOFF REDUCTION BMP'S WHICH REMOVE 80% TSS AS OUTLINED IN THE GEORGIA STORMWATER MANAGEMENT MANUAL KNOWN AS THE BLUE BOOK OR AN EQUIVALENT OR MORE STRINGENT DESIGN MANUAL.				
		K. ADD APPROPRIATE ORGANIC SOIL AMENDMENTS (E.G., COMPOST) AND CONDUCT PRE- AND POST-CONSTRUCTION SOIL SAMPLING TO A DEPTH OF SIX (6) INCHES TO DOCUMENT IMPROVED LEVELS OF SOIL CARBON AFTER FINAL STABILIZATION OF THE CONSTRUCTION SITE.							
		L. USE MULCH FILTER BERMS, IN ADDITION TO A SILT FENCE, ON THE SITE PERIMETER WHEREVER STORM WATER MAY BE DISCHARGED. MULCH FILTER BEAMS CANNOT BE PLACED IN WATERWAYS OR AREAS OF CONCENTRATED FLOW.							

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EROSION, SEDIMENTATION & POLLUTION CONTROL
PLAN CHECKLIST

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

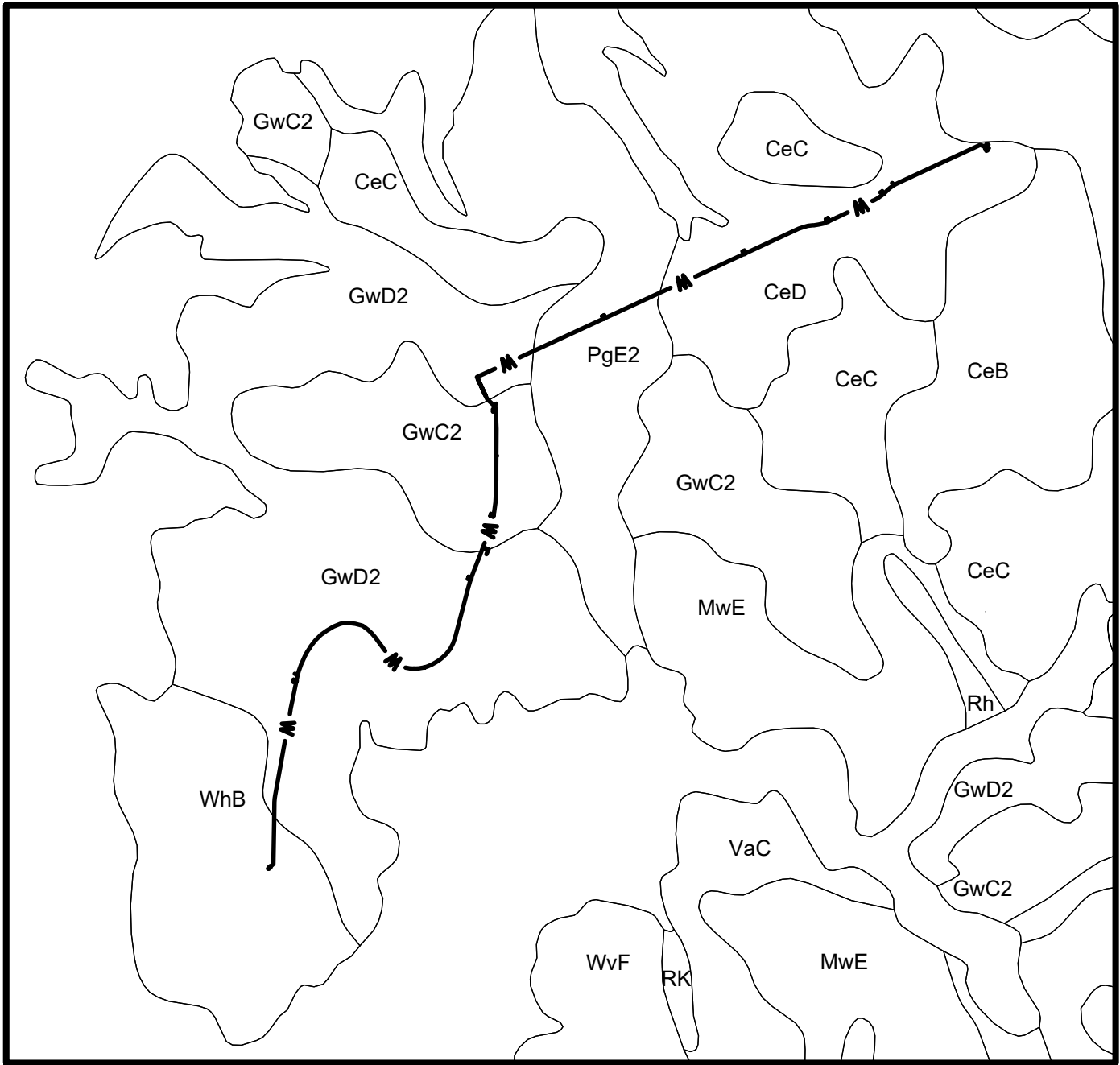
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EC002

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SAVED:10/25/2022
PLOTTED:10/25/2022



SOILS MAP
SCALE: 1" = 1000'

CHECKLIST #47

SOIL TYPE	K-FACTOR	T-FACTOR	HYDROLOGIC GROUP
CeB	0.20	5	B
CeC	0.20	5	B
CeD	0.20	5	B
GwC2	0.10	4	B
GwD2	0.10	4	B
MwE	0.15	2	D
PgE2	0.15	5	B
Rh	0.32	5	B
RK	0.32	5	B
VaC	0.24	5	C
WhB	0.28	5	B
WvF	0.15	2	D

SOIL INFORMATION AND DELINEATION OBTAINED FROM THE NRCS WEBSITE.

RUN-OFF COEFFICIENT OR PEAK DISCHARGE FLOW DATA PRIOR AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:
PRE-DEVELOPMENT = 0.35
POST-DEVELOPMENT = 0.35

CHECKLIST ITEM #45

CHECKLIST ITEM #46

NO NEW OUTFALLS HAVE BEEN DESIGNED FOR THIS PROJECT.
PRE-DEVELOPMENT AND POST-DEVELOPMENT DRAINAGE BASINS ARE EQUAL

SAMPLING

CHECKLIST #34 & #35

A TOTAL OF 1 SAMPLING POINT HAS BEEN IDENTIFIED FOR THIS CONSTRUCTION ACTIVITY. SAMPLE POINT LOCATIONS ARE IDENTIFIED AS FOLLOWS:

SAMPLE POINT #1A: EC103 EPHEMERAL STREAM
NTU VALUE = NO LIMIT

SAMPLE POINT #1B: EC103 EPHEMERAL STREAM
NTU VALUE = 25 NTU INCREASE FROM SAMPLE POINT #1A

IN STREAM SAMPLING:

A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.J.

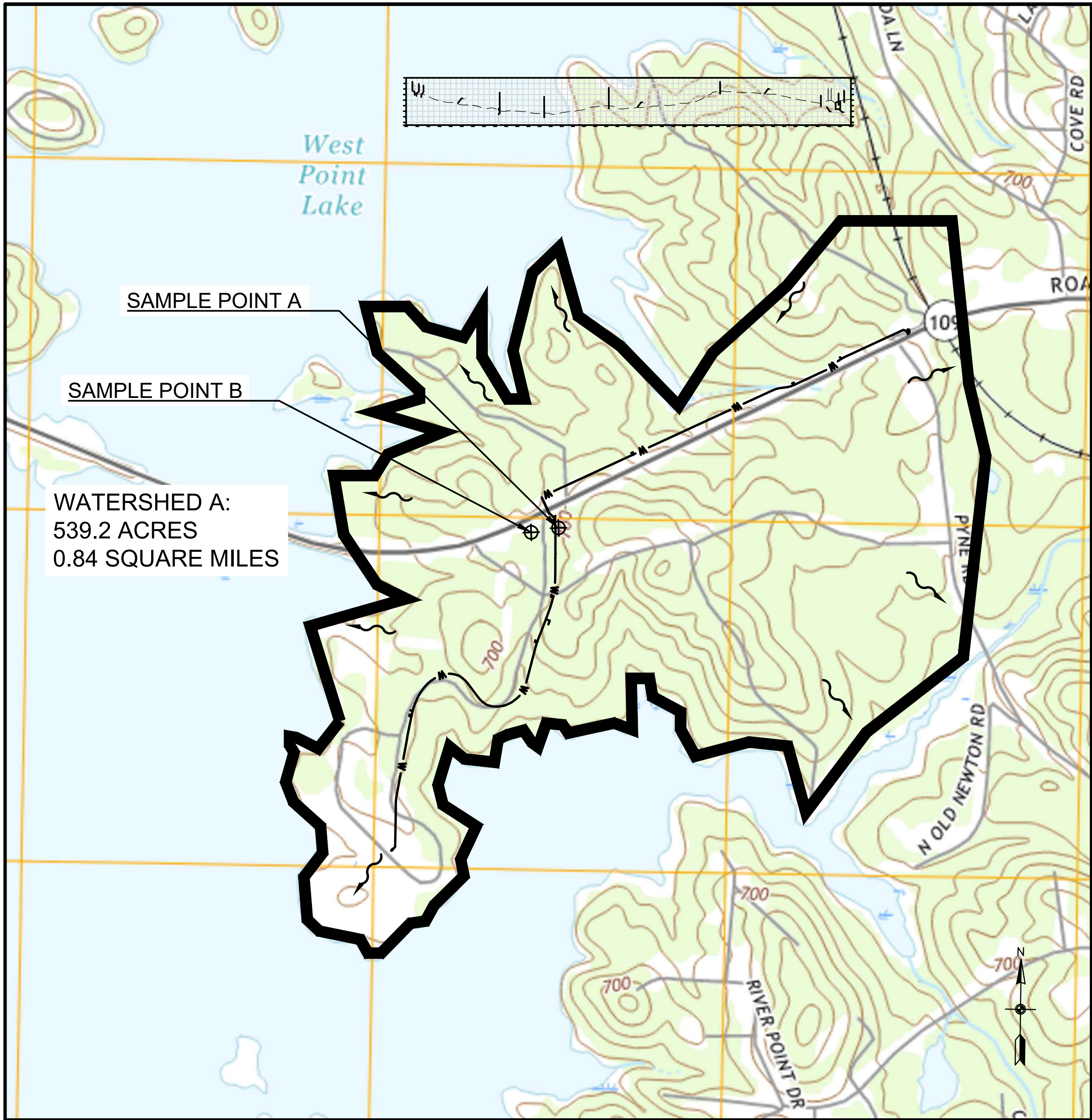
UPSTREAM SAMPLING POINTS DO NOT HAVE A NTU LIMIT.
DOWNSTREAM POINTS = 25 NTU INCREASE FROM THE UPSTREAM NTU VALUE.

SAMPLING POINT LOCATIONS ARE SHOWN ON SHEET EC103. SEE SHEET EC005 FOR SAMPLING REQUIREMENTS AND RECORD KEEPING.

RATIONAL FOR NO SAMPLING: SAMPLING IS REQUIRED

APPENDIX B RATIONALE FOR OUTFALL SAMPLING POINTS WHERE APPLICABLE:
UPSTREAM AND DOWNSTREAM SAMPLES, APPENDIX B RATIONALE NOT USED, THE RECEIVING WATERS (SUPPORTING WARM WATER FISHERIES) FOR THIS SITE IS PANTHER CREEK, MUD CREEK, FLAT SHOAL CREEK, LONG CANE CREEK

CHECKLIST #43, #44



DRAINAGE BASINS

SCALE: 1" = 750'

= FLOW ARROW

EROSION CONTROL - GENERAL NOTES

CHECKLIST #19, #20, #21 & #22

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH AND/OR TEMPORARY SEEDING AND/OR PERMANENT SEEDING.
4. ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
5. EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE SILT FENCE.
6. ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
7. ALL CATCH BASINS AND DROP INLETS ARE TO HAVE SD2 TEMPORARY TOPS UNTIL THE FINAL GRADE IS ESTABLISHED.
8. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 - TEMPORARY SILT FENCE, OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.
9. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
10. ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CURRENT PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
11. MAXIMUM CUT OR FILL SLOPES IS 2H:1V.
12. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
13. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
14. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
15. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
16. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
17. NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.

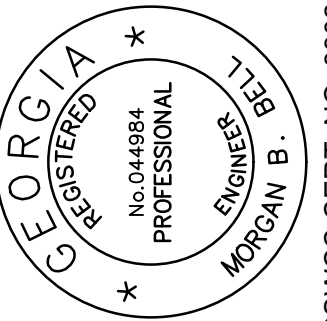
HYDROLOGY & SOIL MAP, PROJECT SPECIFIC NOTES,
TOPOGRAPHIC MAP AND DRAINAGE BASINS

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

REV	CHK	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

EC003

PROJ. NO. 3643217



GSWCC CERT. NO. 89024

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SPILL PREVENTION	
<u>MATERIAL MANAGEMENT PRACTICES</u>	
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.	
<u>GOOD HOUSEKEEPING:</u>	
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.	
<div>- AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</div> <div>- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</div> <div>- PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</div> <div>- SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</div> <div>- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</div> <div>- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</div> <div>- THE JOB SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.</div>	
<u>HAZARDOUS PRODUCTS:</u>	
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.	
<div>- PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</div> <div>- ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</div> <div>- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WOULD BE FOLLOWED.</div>	
<u>PRODUCT SPECIFIC PRACTICES</u>	
THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:	
<u>PETROLEUM PRODUCTS</u> - ALL ONSITE SHALL BE MONITORED FOR LEAKS AND WILL BE ASK TO PROVIDE PREVENTIVE MAINTENANCE RECORDS IF NEEDED. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.	
<u>FERTILIZERS</u> - FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. ANY UNUSED MATERIALS SHOULD BE REMOVED FROM THE SITE.	

PAINTS - ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS OF STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS- CONCRETE TRUCKS SHALL HAVE TO WASH DOWN TOOLS, CHUTES, HOPPERS, AND REAR OF VEHICLE AT THE DESIGNATED CONCRETE WASHOUT AREA AND DO SO UNTIL JOB IS COMPLETE. ONCE JOB IS COMPLETED THE DRIED CONCRETE SHALL BE REMOVED FROM THE SITE.

SPILL CONTROL PRACTICES [CHECKLIST # 26]

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE AVAILABLE ON THE JOB SITE AND PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES, LOCATION OF INFORMATION, AND CLEANUP SUPPLIES.

- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE STORAGE TRAILER OF THE SUPERINTENDENT. THE MATERIALS AND EQUIPMENT SHALL INCLUDE THE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, FLOOR ABSORBENT, SAND, SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

- THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FOR CONTACT WITH HAZARDOUS SUBSTANCE.

- SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE AND LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

- THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES SHALL ALSO BE INCLUDED.

- THE JOB SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE SHALL HAVE OTHER CONTRACTORS ON SITE WOULD SHALL HELP WITH THE PREVENTION AND CLEANUP. THE PERSONNEL NAMES SHALL BE POSTED IN THE OFFICE JOB TRAILER ONSITE. (NOTE PERTAINING TO CLEANUP, TRADE THAT HAS A SPILL SHALL BE RESPONSIBLE FOR HELPING WITH THE CLEANUP ALONG WITH THE JOB SITE SUPERINTENDENT).

SOIL CLEANUP AND CONTROL PRACTICES

- LOCAL STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.

- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

- SPILL PREVENTER PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

SANITARY WASTE

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY (10) WORKERS ON THE SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP's MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINER AROUND THE BASE, TO PREVENT WASTE FROM CONTRIBUTING TO STORMWATER DISCHARGE. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE. SANITARY SEWER SHALL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

WASTE MATERIALS

ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ONSITE.

ALL PERSONNEL SHALL BE INSTRUCTED ON PROPER PROCEDURE FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES SHALL BE POSTED AT THE JOBSITE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURE ARE FOLLOWED.

HAZARDOUS MATERIALS

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO SHALL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, SHALL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS's) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES SHALL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR SHALL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND SHALL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPECIFIC MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGE. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE SHALL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF SPCC PLAN.

CHECKLIST # 27

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMPLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

GEORGIA

REGISTERED

PROFESSIONAL

ENGINEER

MORGAN B.

NO.044684

GSWCC CERT. NO. 89024

POLLUTION PREVENTION

NOTES & REQUIREMENTS

PYNE ROAD PARK

WATER MAIN EXTENSION

LAGRANGE, GEORGIA

REV	CHK	DATE	DESCRIPTION	INITIAL	ISSUE
0		10/28/22			

EC004

PROJ. NO. 3643217

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SAVED:10/25/2022
PLOTTED:10/25/2022

NPDES INSPECTION REQUIREMENTS ** <div>CHECKLIST #30</div>		RETENTION OF RECORDS ** <div>CHECKLIST #32</div>		NPDES SAMPLING REQUIREMENTS ** <div>CHECKLIST #31 & #32</div>		(4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER.	
A. PERMITTEE REQUIREMENTS. (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT; (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. (2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. (4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). (5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT		1. 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 IN ACCORDANCE WITH PART VI: A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD; B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; D. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT; F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT. 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.		SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY. a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING: 1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP; (2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION; (3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS SHALL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND (4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD SHALL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL. C. SAMPLING POINTS: (1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE 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 ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2). OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES: (A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE. (B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. (C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S). (D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL. (E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. (F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. (G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 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 WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPE AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURE OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. (H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4..., WHICHEVER IS APPLICABLE. (2). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL, IF APPLICABLE) IF THE DESIGN PROFESSIONAL PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED RECEIVING WATER TO BE SAMPLED SHALL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER. A WRITTEN RATIONALE AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. THE RATIONALE AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED SAMPLED AND UN-SAMPLED RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS: (A). SITE LAND DISTURBANCES AND CHARACTERISTICS; (B). RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND (C). SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE'S TR-55, URBAN HYDROLOGY FOR SMALL WATERSHEDS) OF THE MOST RECENT VERSION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA" FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER SHALL BE REPRESENTATIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATERS. (3). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATER(S) SHALL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING, THE DESIGN PROFESSIONAL MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE IN THE PLAN AND SIGN IN ACCORDANCE WITH PART V.G. OF THIS PERMIT THE FOLLOWING 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 SHALL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."		(4). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHOSE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C(1).(G).	
SAMPLING: ANALYTICAL METHODS ** <div>CHECKLIST #33</div>		SAMPLING: ANALYTICAL METHODS ** <div>CHECKLIST #33</div>		SAMPLING: ANALYTICAL METHODS ** <div>CHECKLIST #33</div>		SAMPLING: ANALYTICAL METHODS ** <div>CHECKLIST #33</div>	
SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. (1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT 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 AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.		SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. (1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT 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 AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.		SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. (1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT 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 AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.		SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. (1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT 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 AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.	
SAMPLING FREQUENCY ** <div>CHECKLIST #31</div>		SAMPLING FREQUENCY ** <div>CHECKLIST #31</div>		SAMPLING FREQUENCY ** <div>CHECKLIST #31</div>		SAMPLING FREQUENCY ** <div>CHECKLIST #31</div>	
(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE. (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (A). 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 STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; (B). 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 STORMWATER 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; (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) 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; (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) 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 (A), (B) OR (C) ABOVE; AND (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.		(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE. (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (A). 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PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.		(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. 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PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.	
NPDES RECORD KEEPING REQUIREMENTS ** <div>CHECKLIST #30</div>		NPDES RECORD KEEPING REQUIREMENTS ** <div>CHECKLIST #30</div>		NPDES RECORD KEEPING REQUIREMENTS ** <div>CHECKLIST #30</div>		NPDES RECORD KEEPING REQUIREMENTS ** <div>CHECKLIST #30</div>	
RECORD KEEPING: COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN REPORTING: 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. 2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. 3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION: A. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS; B. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS; C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED; E. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS. H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."		THE PRIMARY PERMITTEE (OPERATOR/CONTRACTOR) MUST COMPLY AND ADHERE TO THE REQUIREMENTS IDENTIFIED IN GAR 100002 PART VI WHEN SUBMITTING A NOTICE OF TERMINATION (NOT). A NOTICE OF TERMINATION (NOT), SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT, MUST BE SUBMITTED BY THE PERMITTEE WHERE THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT HAVE CEASED. FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOIS FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOT SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOI AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT SHALL HAVE CEASED. A. NOTICE OF TERMINATION ELIGIBILITY. NOTICE OF TERMINATION (NOT), SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT, MUST BE SUBMITTED: 1. FOR CONSTRUCTION ACTIVITIES, BY THE PERMITTEE WHERE THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT HAVE CEASED. FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOIS FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOT SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOI AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THIS PERMIT SHALL HAVE CEASED. 2. BY THE OWNER OR OPERATOR WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES. WHERE STORM WATER DISCHARGES SHALL CONTINUE AFTER THE IDENTITY OF THE OWNER OR OPERATOR CHANGES, THE PERMITTEE MUST, PRIOR TO FILING THE NOTICE OF TERMINATION, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THIS PERMIT. NOTE FOR NOTICE OF TERMINATION AND FINAL PHASE BMPS: IN COMPLIANCE WITH NPDES PERMIT GAR 100001, 100002, 100003, WHICH EVER PERMIT THIS PROJECT FALL, IT SHOULD BE UNDERSTOOD THAT A NOTICE OF TERMINATION (NOT) SHALL NOT BE PROCESSED BY THE DPW-EMD OFFICE UNTIL A SITE INSPECTION IS CONDUCTED AND THE FOLLOWING STANDARDS HAS BEEN MET: A. 100% OF THE SOIL SURFACE (DISTURBED AREAS) IS UNIFORMLY COVERAGE IN PERMANENT VEGETATION; B. PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER; C. OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHOULD CONSIST OF: PLANTED TRESS, SHRUBS, PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF THE YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. C. NOTICE OF TERMINATION SUBMITTAL. ALL NOTICES OF TERMINATION (NOT) REQUIRED BY THIS PERMIT SHALL BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD AND A COPY TO THE LOCAL ISSUING AUTHORITY IN JURISDICTIONS AUTHORIZED TO ISSUE A LAND DISTURBANCE ACTIVITY PERMIT FOR THE PERMITTEE'S CONSTRUCTION SITE PURSUANT TO O.C.G.A. 12-7-1, ET SEQ. ALL NOTES MUST BE REVIEWED BY EMD AND SIGNED BY BOTH, THE OWNER AND OPERATOR PRIOR TO SUBMITTAL TO THE DISTRICT OFFICE OF THE EP					

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1. SEE SHEET EC502 FOR SEDIMENT STORAGE CALCULATIONS.
2. SEE SHEET EC501-EC502 FOR DETAILS OF EROSION CONTROL BMPs.
3. ALL UTILITY WORK TO OCCUR WITHIN LIMITS OF DISTURBANCE.
4. UNLESS OTHERWISE APPROVED BY ENGINEER, ALL LINEAR EXCAVATIONS SHALL BE BACKFILLED PRIOR TO ENDING WORK EACH DAY.
5. FOR WORK LOCATED IN GRASS AREAS, TEMPORARY SEEDING AND MULCHING SHALL BE PERFORMED ON A DAILY BASIS FOR AREAS DISTURBED ON THAT DAY.

PHASE 1 - INITIAL
1. ALL CONSTRUCTION EXITS AND SEDIMENT BARRIERS SHALL BE
INSTALLED PRIOR TO ANY DISTURBANCE.

PHASE 2 - INTERMEDIATE

1. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED, CLEANED AND KEPT IN GOOD REPAIR.
2. IN NON-PAVED AREAS, SEEDING AND MULCHING Ds1, Ds2 & Ds3 (WHEN APPLICABLE) SHALL BE APPLIED IMMEDIATELY UPON BACKFILLING ANY TRENCH.

PHASE 3 - FINAL

1. PERMANENT SEEDING (Ds3) SHALL BE IN PLACE ONCE ALL WORK IS INSTALLED AND COMPLETED.
2. ALL CONSTRUCTION EXITS AND SEDIMENT BARRIERS SHALL BE REMOVED ONCE PERMANENT STABILIZATION OR PAVING HAS BEEN ESTABLISHED.



PYNE ROAD PARK
 WATER MAIN EXTENSION
 LAGRANGE, GEORGIA

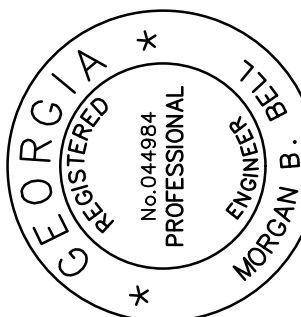
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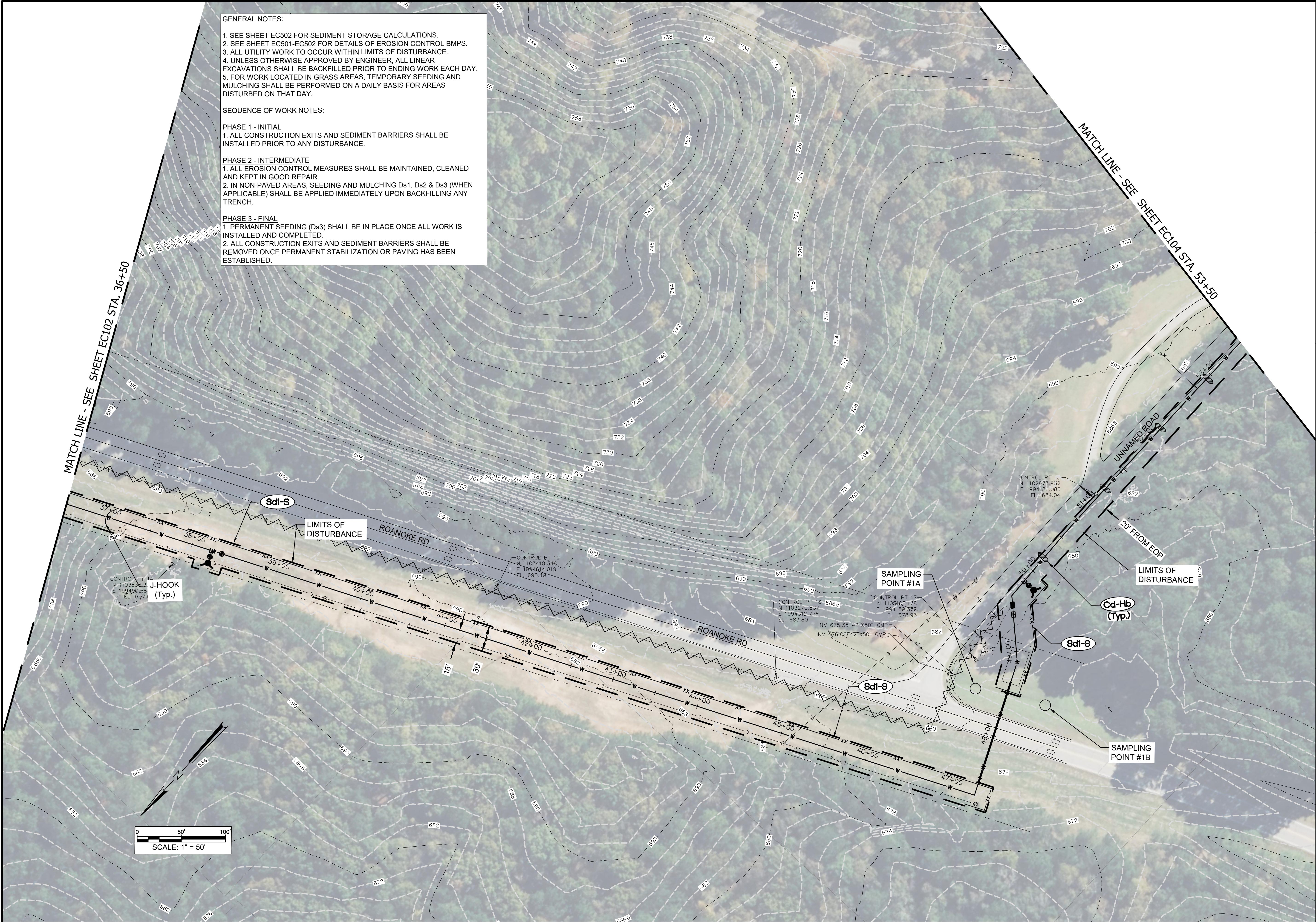


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- GENERAL NOTES:
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GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
MORGAN B. JTB

GSWCC CERT. NO. 89024

EROSION, SEDIMENTATION & POLLUTION
CONTROL PLANS

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

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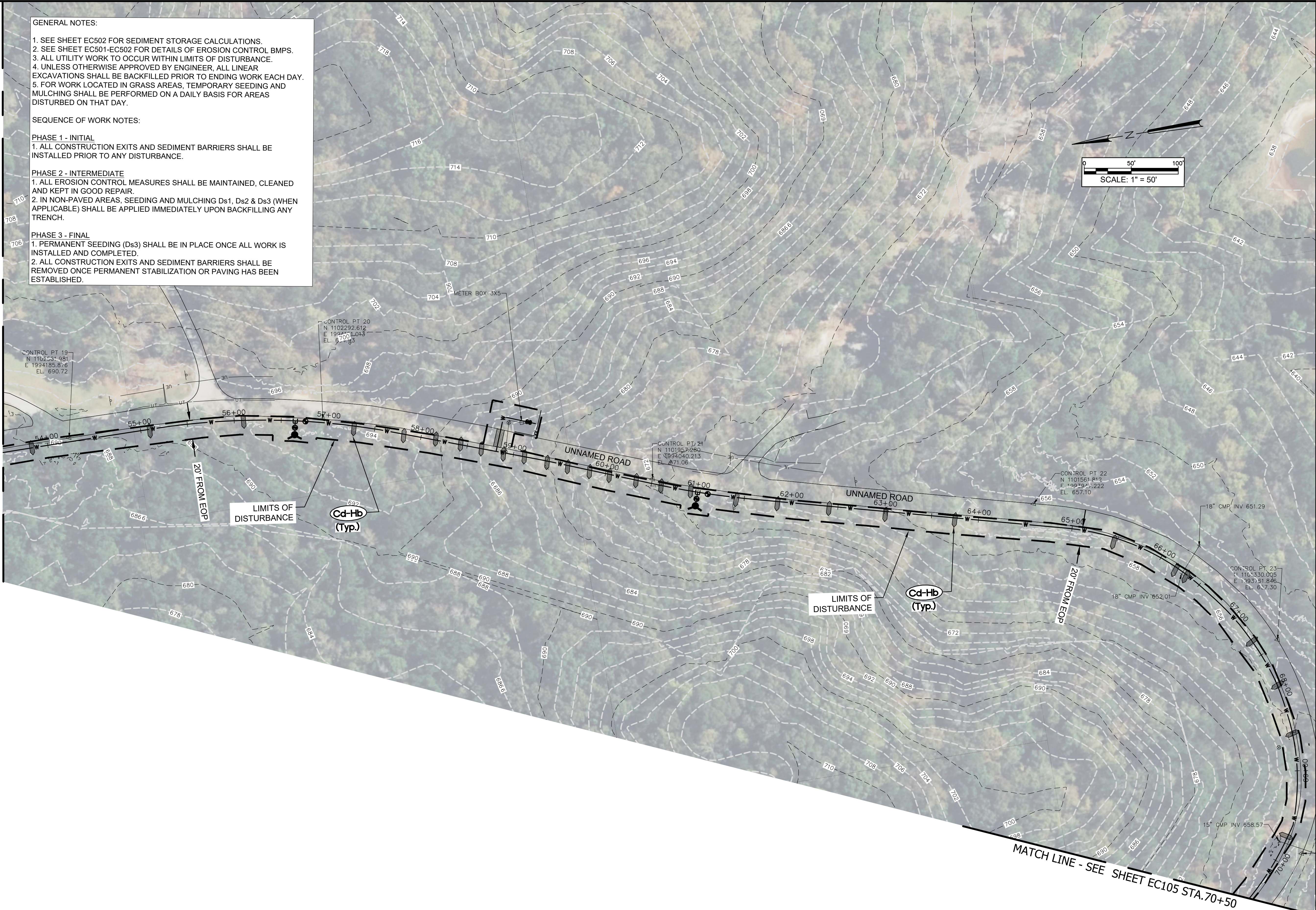
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MATCH LINE - SEE SHEET EC103 STA.53+50

- GENERAL NOTES:
1. SEE SHEET EC502 FOR SEDIMENT STORAGE CALCULATIONS.
 2. SEE SHEET EC501-EC502 FOR DETAILS OF EROSION CONTROL BMPS.
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MATCH LINE - SEE SHEET EC105 STA.70+50

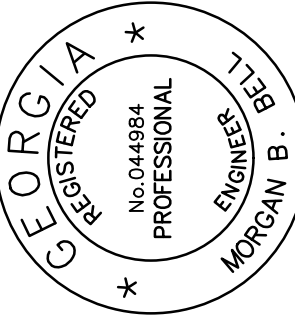
EROSION, SEDIMENTATION & POLLUTION
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PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

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EC104

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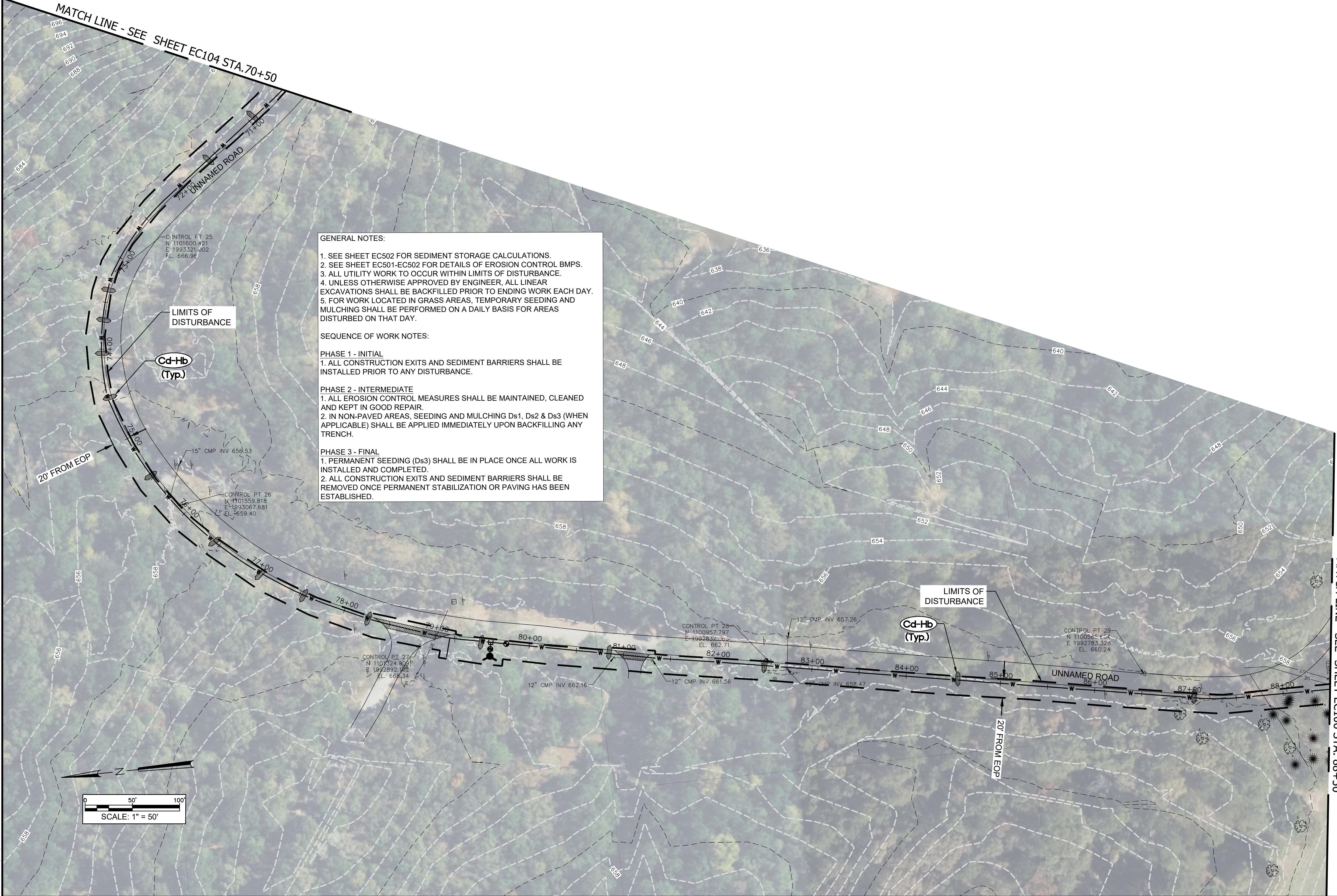


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EROSION, SEDIMENTATION & POLLUTION
CONTROL PLANS

PYNE ROAD PARK
WATER MAIN EXTENSION
LAGRANGE, GEORGIA

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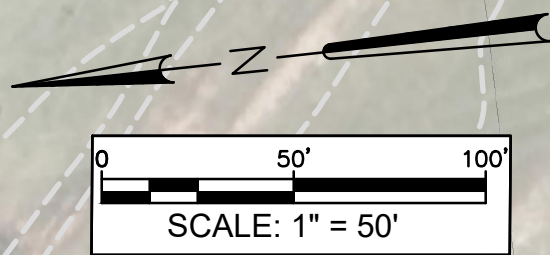
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WEST POINT LAKE

WEST POINT
LAKE

EROSION, SEDIMENTATION & POLLUTION CONTROL PLANS

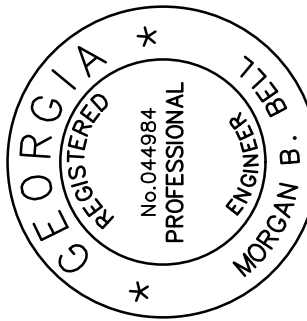
**PYNE ROAD PARK
WATER MAIN EXTENSION**

LAGRANGE, GEORGIA

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EC106

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VEGETATIVE PLAN

Ds2 Ds3

SPECIES	RATES PER ACRE	PLANTING DATES
AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MULCH, STRAW, HAY	4,000LBS. 1,500LBS. 5,000LBS.	
HULLED COMMON BERMUDAGRASS	10LBS.	3/1 - 6/15
HAY MULCH FOR TEMPORARY COVER	5,000LBS.	6/15 - 8/31
TOPDRESSING 33.5% AMMONIUM NITRATE	300LBS.	WHEN PLANTS ARE 2" - 4" TALL
SECOND YEAR FERTILIZER 5-10-15(OR EQUAL)	800LBS.	

SEEDING SCHEDULE

SPECIES	RATES PER ACRE	PLANTING DATES
SEEDING:		
RYE GRAIN	168 LBS.	15 JULY-30 NOVEMBER
RYE GRAIN W/MIXTURE	1/2 BU.	
COMMON BERMUDA (HULLED)	30 LBS.	1 MARCH-30 JUNE
COMMON BERMUDA (UNHULLED)		1 OCTOBER-28 FEBRUARY
FERTILIZER:		
5-10-10	1,800 LBS.	
MULCH:		
HAY	2 1/2 TONS	
STRAW	2 TONS	

PLANTING:
PLANTING TO BE ACCOMPLISHED BY HYDRAULIC SEEDING

LIME RATE:
WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED AGRICULTURE LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT A RATE OF 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

CHECKLIST #49

SEEDING

CONSTRUCTION SPECIFICATIONS:

TIMING:

APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST.
APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED.

SEED MIXES:

USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIX. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST RATES ACCORDINGLY.

SITE PREPARATION:

BRING THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDED AREA. CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE SOIL BY HARROWING, TRACKING, GROOVING OR FURROWING. APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE AMENDMENTS INTO THE SOIL.

PREPARE A 3-5 INCH (76-127 MM) DEEP SEEDBED, WITH THE TOP 3-4 INCHES (76-102 MM) CONSISTING OF TOPSOIL.

THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLODS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN REASONABLE CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

PLANTING:

SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITIONS THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE OF THE SLOPE. SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER SO THE SEED IS APPLIED UNIFORMLY ON THE SITE.

BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT. APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDED AREAS.

INSPECTION AND MAINTENANCE:

NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING. IF THE SEEDED AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORM WATER MEASURES MAY BE NEEDED. SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY.

NOTE: DURING "HIGH FAILURE" MONTHS, SEEDING CONTRACTOR TO SPREAD MULCH AND TEMPORARY SEEDING FOR STABILIZATION, OR USE SOD.

- *USE A MINIMUM OF 40 LBS. SCARIFIED SEED, REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.
- ALL AREAS TO BE SEEDED SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 S.F.. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
- ALL AREAS SEEDED SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
- FERTILIZER: AGRICULTURAL LIME 1 TON PER ACRE
- 8-12-12 OR 5-10-15 1000 LB. PER ACRE

Ds2 — TEMPORARY SEEDING

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST Rates per Acre	PLS per 1000 S.F.	RESOURCE (Darker shades indicate optimum dates, and lighter shades indicate permissible but marginal dates.)	REMARKS
MILLET, BROWNTOP (Panicum fasciculatum)				
ALONE	40 lbs.	0.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES
IN MIXTURES	10 lbs.	0.2 lb.		
RYE (Secale cereale)				
ALONE	3 bu. (168 lbs.)	3.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	16,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
IN MIXTURES	1/2 bu. (28 lbs.)	0.6 lb.		
RYEGRASS, ANNUAL (Lolium temulentum)				
ALONE	40 lbs.	0.9 lb.	MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES

Ds3 — PERMANENT SEEDING/SODDING

PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

SPECIES	BROADCAST Rates per Acre	PLS per 1000 S.F.	RESOURCE (Darker shades indicate optimum dates, and lighter shades indicate permissible but marginal dates.)	REMARKS
BERMUDA, COMMON (Cynodon dactylon)				
Hulled Seed				
ALONE	10 lbs.	0.2 lb.	SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	1,787,000 SEED PER POUND QUICK COVER LOW GROWING AND SOD FORMING FULL SUN GOOD FOR ATHLETIC FIELDS
WITH OTHER PERENNIALS	6 lbs.	0.1 lb.		
BERMUDA, COMMON (Cynodon dactylon)				
Unhulled Seed				
WITH TEMPORARY COVER	10 lbs.	0.2 lb.	SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE
WITH OTHER PERENNIALS	6 lbs.	0.1 lb.		
BAHIA, PENSACOLA (Paspalum notatum)				
alone or with temporary cover with other PERENNIALS	60 lbs. 30 lbs.	1.4 lb. 0.7 lb.	SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	160,000 SEED PER POUND LOW GROWING AND SOD FORMING SLOW TO ESTABLISH PLANT WITH COMPANION CROP WILL SPREAD INTO BERMUDA MIX W/ BERGESSIA LEGRUEZEA OR WEEPING LOVEGRASS

Ds1 — TEMPORARY MULCHING AND

Ds1a — PERMANENT MULCHING

MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
Straw or hay	2 1/2 Ton/Acre	6" TO 10"
Wood waste, chips, sawdust, bark	6 to 9 Ton/Acre	2" TO 3"

INSTALLATION:

1. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.

MAINTENANCE:

1. PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
2. SUPPLEMENT SURFACE COVERING AS NEEDED.

Du DUST CONTROL ON DISTURBED AREAS
N.T.S.

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site used to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A gravelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNSTREAM STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNSTREAM STRUCTURE			A paved chute, pipe, sectioned conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainage ways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT BASIN			An impounding area created by excavating around a storm drain, drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE DRAINER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			A linear control device constructed as a diversion perpendicular to the direction of the runoff to enhance dissipation and infiltration of runoff while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Si	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel of the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROCKENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR WATERWAY CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (EROSION)			A permanent vegetative cover using seeds on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKPERS AND BINDER			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GSWCC (Amended - 2013)

EROSION, SEDIMENTATION & POLLUTION

CONTROL DETAILS

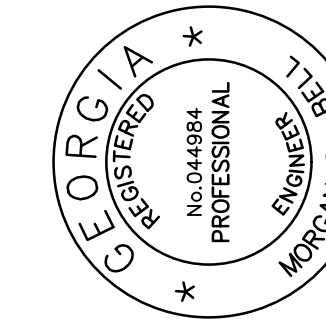
PYNE ROAD PARK WATER MAIN EXTENSION

LAGRANGE, GEORGIA

REV	CHK.	DATE	DESCRIPTION
0		10/28/22	INITIAL ISSUE

EC501

PROJ. NO. 3643217



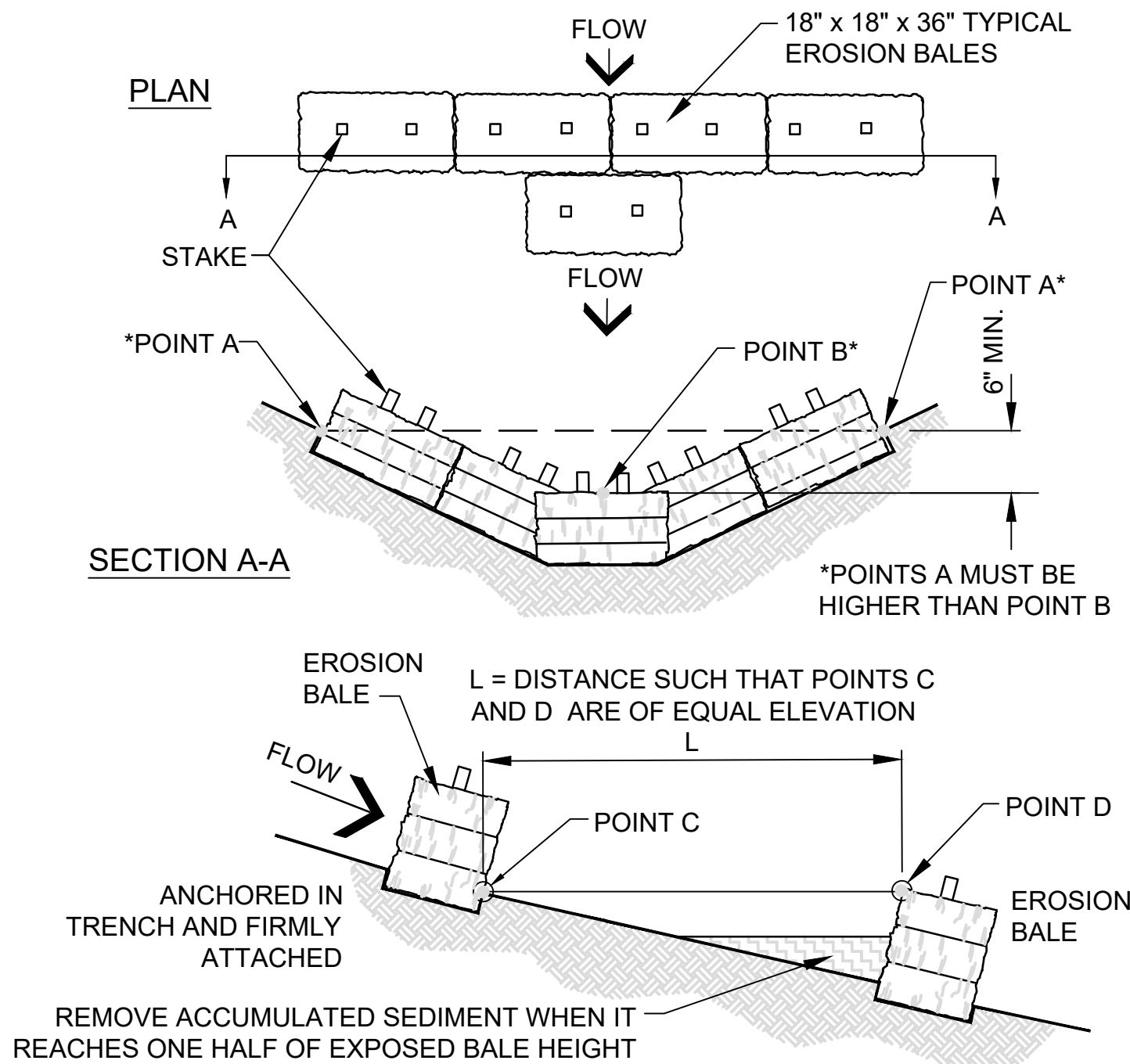
GSWCC CERT. NO. 89024

BARGE

DESIGN SOLUTIONS

1201 Front Avenue / Suite F // Columbus, GA 31901

PHONE (706) 321-4580

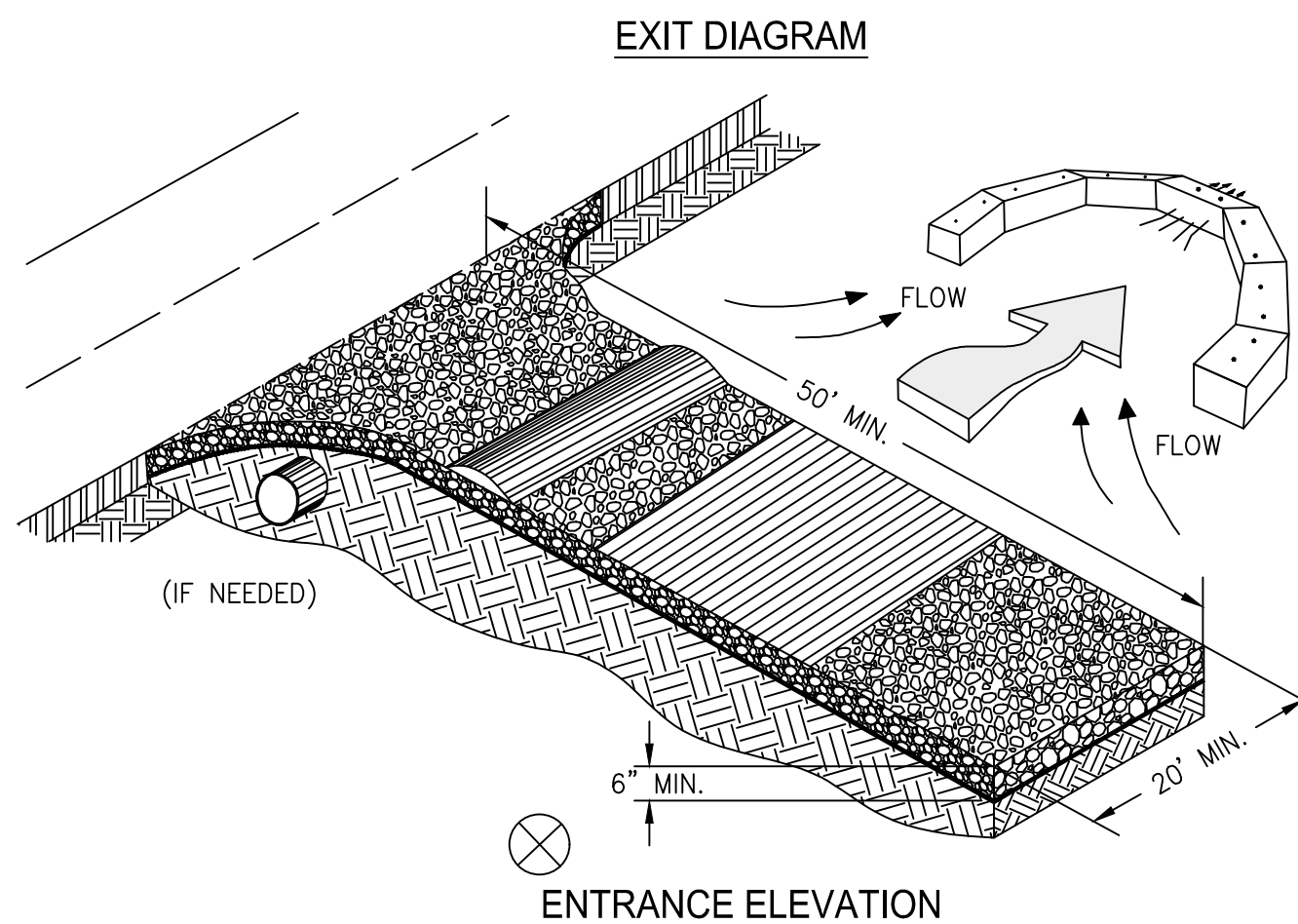


CHANNEL PROFILE SPACING BETWEEN EROSION BALES

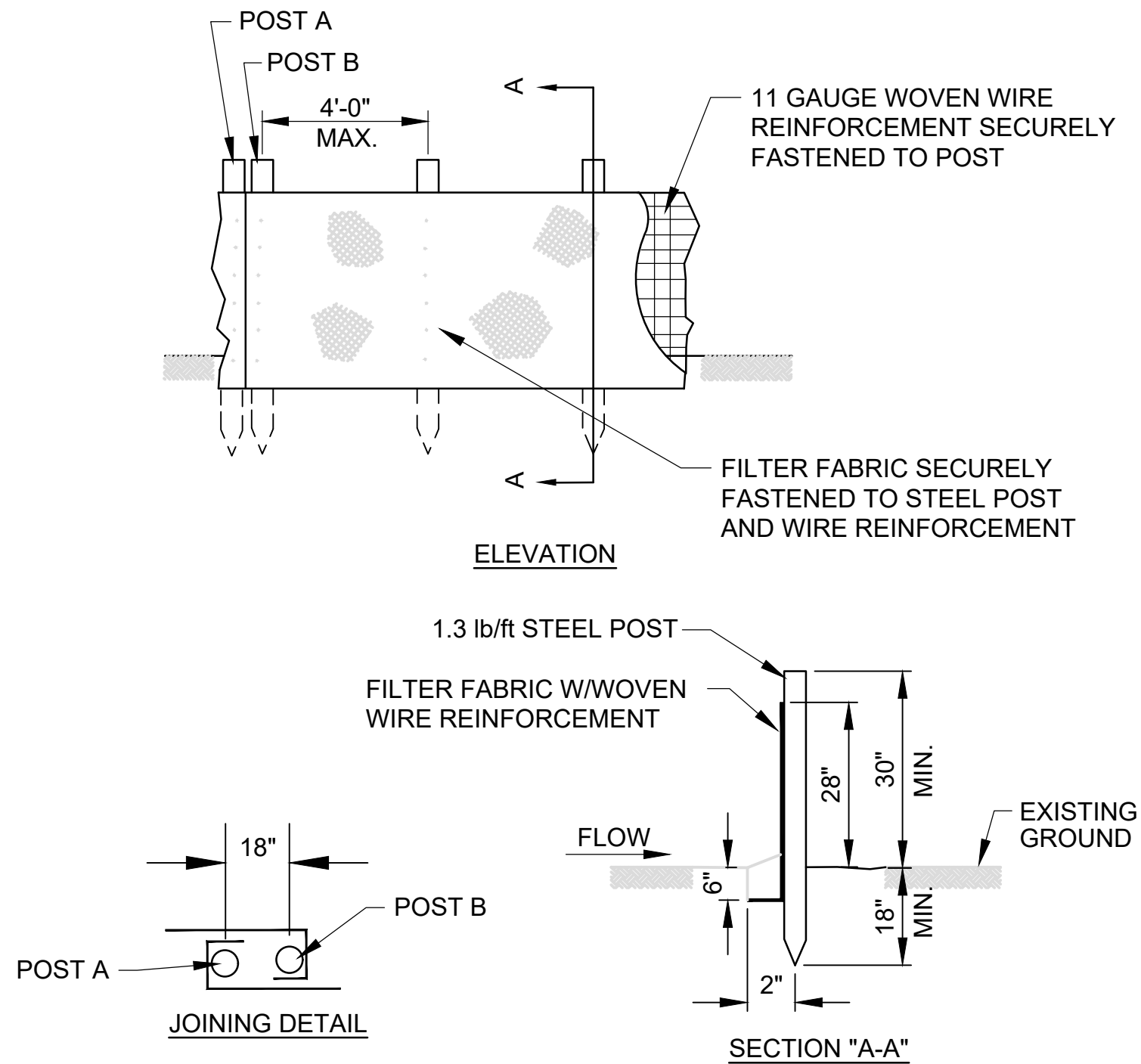
MAINTENANCE:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE-HALF THE ORIGINAL DAM HEIGHT OR BEFORE. CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

Cd-Hb **HAY BALE CHECK DAM** **1**
N.T.S. **EC502**

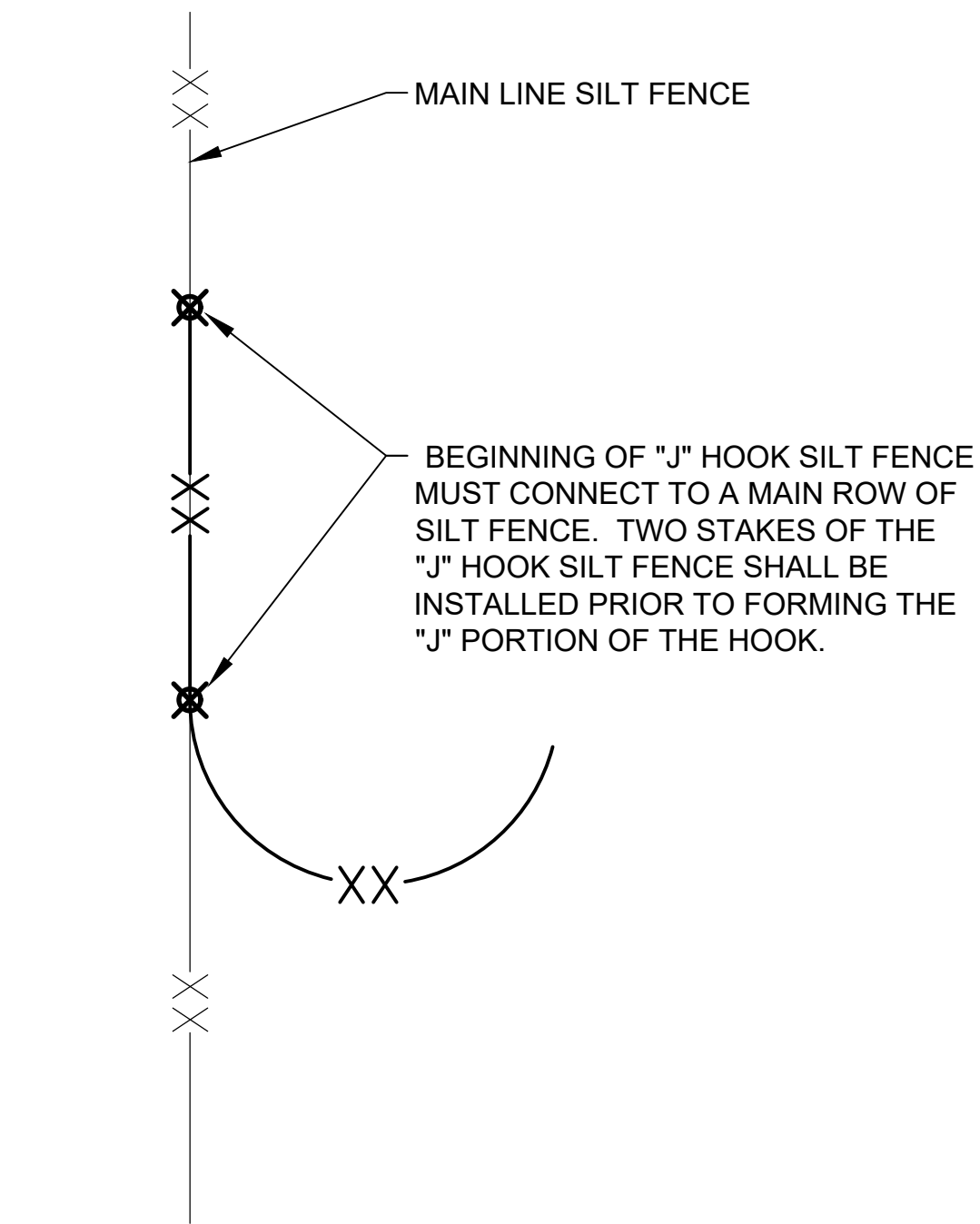


Co **CRUSHED STONE CONSTRUCTION EXIT DETAIL**
N.T.S.



Sd1 MAINTENANCE
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Sd1-S **SILT FENCE (TYPE S) - SENSITIVE AREAS** **2**
N.T.S. **EC502**



3
EC502

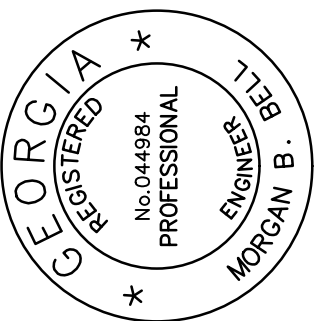
Sd1 SEDIMENT STORAGE:
Silt Fence Height = 2'-0"
3629 L.F. @ 5% Slope:
10 L.F. Sd1 = 314 cu. ft. x 362.9 = 113,960 cu.ft.
113,960 cu. ft. / 27 = 4,220 cu. yds.
Total Silt Fence Storage = 4,220 cu.yds.
See this sheet for Sd1 detail.
See sheets EC101-EC106 for Sd1 placement.

TOTAL SEDIMENT STORAGE:
TOTAL REQUIRED = 321.6 c.y.
(67 c.y./ac x 4.8 ac disturbed area)
SEDIMENT STORAGE PROVIDED:
Sd1 = 4,220 c.y.
TOTAL PROVIDED = 4,220 c.y.

SEDIMENT BASINS WERE NOT USED FOR THIS PARTICULAR LINEAR PROJECT AS THERE ARE NO COMMON DRAINAGE LOCATIONS WHERE SUCH BASINS WOULD BE APPROPRIATE. THE FOLLOWING SEDIMENT CONTROL MEASURES ARE USED IN PLACE OF SEDIMENT BASINS AND WILL, IF PROPERLY INSTALLED AND MAINTAINED, PREVENT SEDIMENT FROM LEAVING DISTURBED AREAS:
SILT FENCE, INLET SEDIMENT FILTERS/WATTLES, CONSTRUCTION EXITS, TEMPORARY VEGETATION, AND PERMANENT VEGETATION.

BARGE
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**EROSION, SEDIMENTATION & POLLUTION
CONTROL DETAILS**

**PYNE ROAD PARK
WATER MAIN EXTENSION**

LAGRANGE, GEORGIA

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