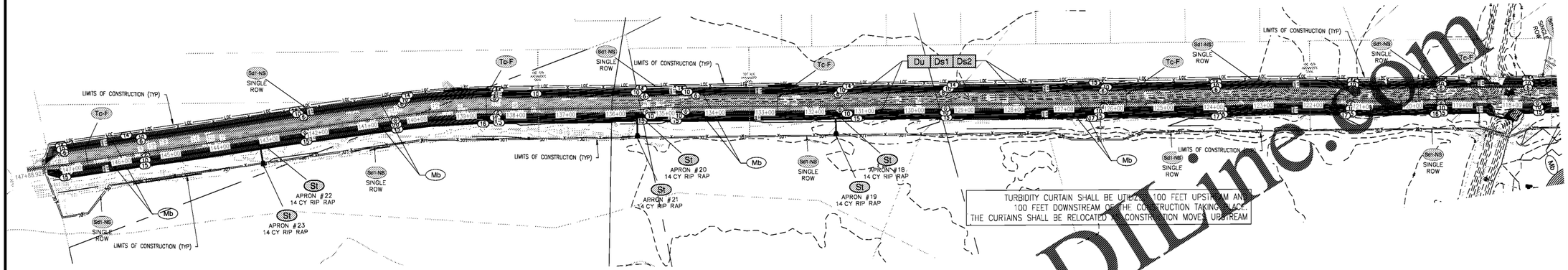

Order Plans @ WWW.LDTline.com

RIPRAP APRON DESIGN — Date: 1/06/2020
PIPEMAKER'S CANAL — **CCI#: 20-265.000**

	Outlet Pipe Diameter	Velocity	Total Outflow	La and Do from figure 6-24.1 in green book		W=Do+La	Depth of Apron=1.5*D 50 (6"min)
APRON	D ft.	V fps	Q cfs	L ft.	D in.	W ft.	H in.
FES#13	2.00	7.95	73.04	21.00	10.00	24.50	15.00
FES#14	2.00	7.95	73.04	21.00	10.00	24.50	15.00
FES#15	2.50	8.81	247.20	21.00	12.00	24.50	18.00
FES#16	2.50	8.81	247.20	21.00	12.00	24.50	18.00
FES#17	1.50	3.26	21.90	21.00	6.00	24.50	9.00
FES#18	1.50	4.94	38.28	21.00	9.00	24.50	13.50
FES#19	1.50	4.94	38.28	21.00	9.00	24.50	13.50
FES#20	1.50	3.05	10.42	21.00	6.00	24.50	9.00
FES#21	1.50	3.05	10.42	21.00	6.00	24.50	9.00
FES#22	1.50	4.84	35.18	21.00	9.00	24.50	13.50
FES#23	1.50	4.84	35.18	21.00	9.00	24.50	13.50

TEMPORARY SEDIMENT STORAGE REQUIREMENTS – DS 1
DISTURBED AREA: 18.31 AC.
REQUIRED STORAGE: 18.31 AC. X 67 C.Y./AC. = 1,227 C.Y. = 33,123 C.F.

SEDIMENT STORAGE AGAINST SILT FENCE
1/2(3.5')(1.5') = 2.63 S.F. X 23,638 L.F. = 62,168 C.F.

THE ADDITIONAL STORAGE SHALL BE PROVIDED BY THE TURBIDITY CURTAIN INSTALLED IN THE CHANNEL.

62,168 C.F. > 33,123 C.F. THEREFORE ADEQUATE STORAGE IS PROVIDED WITH THE USE OF SILT FENCE & TURBIDITY CURTAIN.

SEQUENCE OF CONSTRUCTION

INITIAL PHASE:
1. INSTALL PERIMETER CONTROLS TO INCLUDE SILT FENCING AND CONSTRUCTION EXIT.
2. REMOVE DESIGNATED TREES AND CLEAR, GRUB AND GRADE SITE.
3. LIMIT CLEARING AND GRUBBING OF SITE TO ONLY AREAS NECESSARY FOR CONSTRUCTION AS SHOWN.

INTERMEDIATE PHASE:
1. INSTALL TURBIDITY CURTAINS UPSTREAM AND DOWNSTREAM PRIOR TO CONSTRUCTION.
2. GRADE SITE TO FINAL ELEVATIONS AND INSTALL SLOPE STABILIZATION MATTING.
3. INSTALL STORM STRUCTURES AND PIPING.
4. INSTALL STONE RIP-RAP AT STORM PIPE FLARED END SECTIONS.

FINAL PHASE:
1. STABILIZE ALL REMAINING DISTURBED AREAS.
2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE DISTURBED AREAS ACCORDINGLY.

NRCS ORIGINAL SUBMITTAL: 10/1/2020

DESIGN PROFESSIONAL'S CREDENTIALS:
ENGINEER'S NAME (PRINTED): TRAVIS BURKE, PE
GEORGIA PE NUMBER: 31215
GSWCC LEVEL II CERTIFICATION NUMBER: 8134

SCALE: 1"=100'
0' 50' 100' 200'

Know what's below. Call before you dig.

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RELEASED FOR CONSTRUCTION

GEORGIA REGISTERED No. 031215 PROFESSIONAL ENGINEER TRAVIS G. BURKE

REVISIONS:

CIVIL CONSTRUCTION PLANS FOR
PIPE MAKER'S CANAL IMPROVEMENTS
LOCATED IN POOLER, GA
PREPARED FOR CITY OF POOLER

JOB NUMBER:	20-265
DATE:	06/05/20
DRAWN BY:	RAR
CHECKED BY:	TGB
SCALE:	AS NOTED

INTERMEDIATE EROSION CONTROL

SHEET:
ES7.3

© 2018 COLEMAN COMPANY INC DATE PLOTTED: 12/9/2020 10:46 AM BY: Stacey Richter DRAWING PATH: G:\2020\20-265.000\DWG\CA\20-265 C Pipemakers Canal POOLER PKWY-DS 1 20 20.dwg