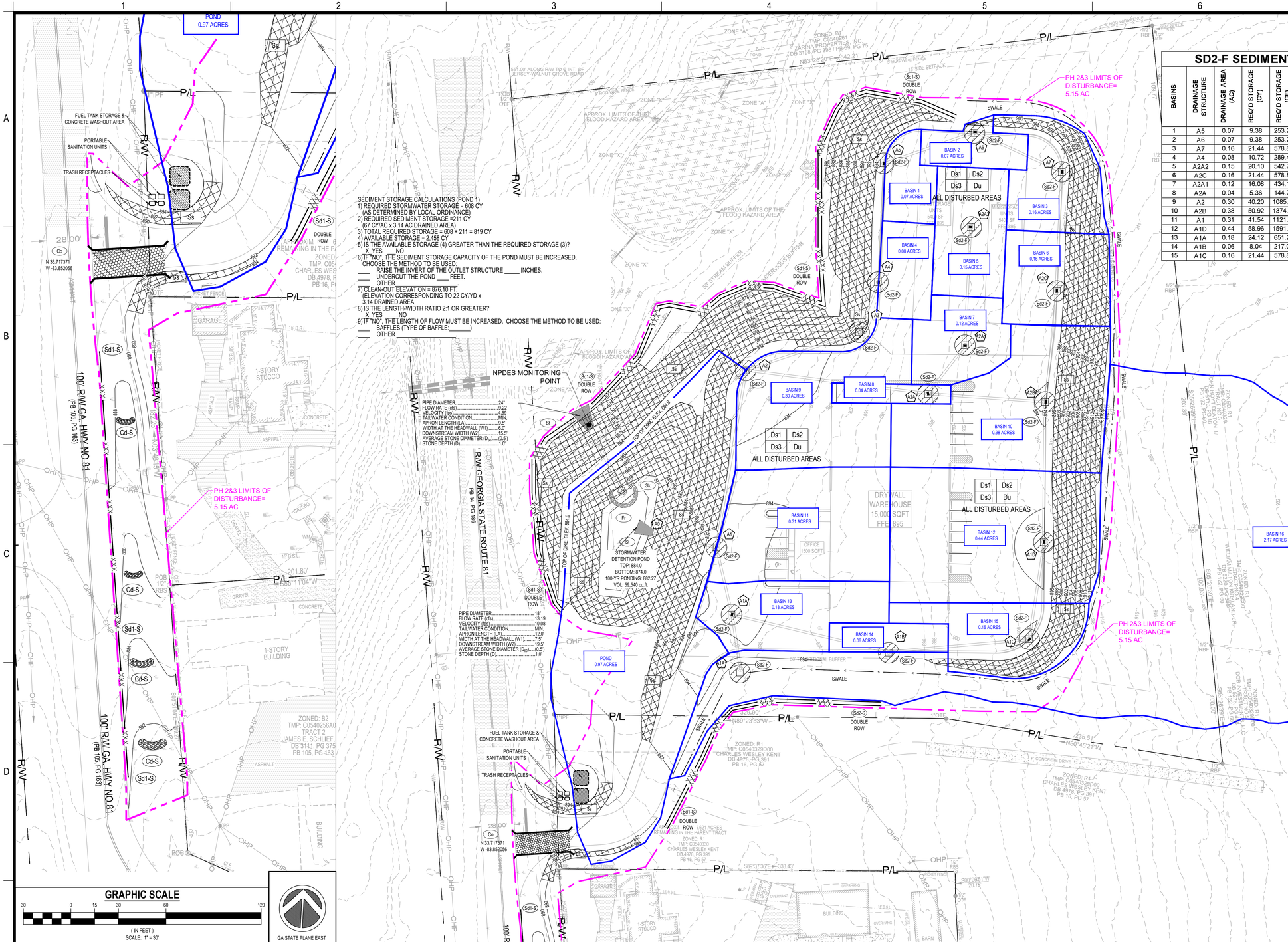

SEDIMENT STORAGE CALCULATIONS (POND 1)
1) REQUIRED STORMWATER STORAGE = 608 CY
(AS DETERMINED BY LOCAL ORDINANCE)
2) REQUIRED SEDIMENT STORAGE =211 CY
(67 CY/AC x 3.14 AC DRAINED AREA)
3) TOTAL REQUIRED STORAGE = 608 + 211 = 819 CY
4) AVAILABLE STORAGE = 2,458 CY
5) IS THE AVAILABLE STORAGE (4) GREATER THAN THE REQUIRED STORAGE (3)?
X YES NO
6) IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED.
CHOOSE THE METHOD TO BE USED:
____ RAISE THE INVERT OF THE OUTLET STRUCTURE _____ INCHES.
____ UNDERCUT THE POND _____ FEET.
____ OTHER
7) CLEAN-OUT ELEVATION = 876.10 FT.
(ELEVATION CORRESPONDING TO 22 CY/YD x 3.14 DRAINED AREA.
8) IS THE LENGTH-WIDTH RATIO 2:1 OR GREATER?
X YES NO
9) IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
____ BAFFLES (TYPE OF BAFFLE:_____)
____ OTHER _____

PIPE DIAMETER	24"
FLOW RATE (cfs)	9.22
VELOCITY (fps)	4.59
TAILWATER CONDITION	MIN.
APRON LENGTH (LA)	9.5'
WIDTH AT THE HEADWALL (W1)	6.0'
DOWNSTREAM WIDTH (W2)	15.5'
AVERAGE STONE DIAMETER (D_{50})	(0.5')
STONE DEPTH (D)	1.0'

PIPE DIAMETER	18"
FLOW RATE (cfs)	13.19
VELOCITY (fps)	10.08
TAILWATER CONDITION	MIN.
APRON LENGTH (LA)	12.0'
WIDTH AT THE HEADWALL (W1)	7.5'
DOWNSTREAM WIDTH (W2)	19.5'
AVERAGE STONE DIAMETER (D_{50})	(0.5')
STONE DEPTH (D)	1.0'

SD2-F SEDIMENT STORAGE CALCULATIONS

BASINS	DRAINAGE STRUCTURE	DRAINAGE AREA (AC)	REQ'D STORAGE (CY)	REQ'D STORAGE (CF)	DEPTH (FT)	SURFACE AREA Min. (SF)	LENGTH (FT)	WIDTH (FT)	PROVIDED SURFACE AREA WIDTH X LENGTH (SF)	PROVIDED STORAGE (2' DEPTH) X WIDTH X LENGTH (CF)
1	A5	0.07	9.38	253.26	2.00	126.63	12.00	11.00	132.00	264.00
2	A6	0.07	9.38	253.26	2.00	126.63	12.00	11.00	132.00	264.00
3	A7	0.16	21.44	578.88	2.00	289.44	18.00	17.00	306.00	612.00
4	A4	0.08	10.72	289.44	2.00	144.72	13.00	12.00	156.00	312.00
5	A2A2	0.15	20.10	542.70	2.00	271.35	17.00	16.00	272.00	544.00
6	A2C	0.16	21.44	578.88	2.00	289.44	18.00	17.00	306.00	612.00
7	A2A1	0.12	16.08	434.16	2.00	217.08	15.00	15.00	225.00	450.00
8	A2A	0.04	5.36	144.72	2.00	72.36	9.00	9.00	81.00	162.00
9	A2	0.30	40.20	1085.40	2.00	542.70	24.00	23.00	552.00	1104.00
10	A2B	0.38	50.92	1374.84	2.00	687.42	27.00	26.00	702.00	1404.00
11	A1	0.31	41.54	1121.58	2.00	560.79	24.00	24.00	576.00	1152.00
12	A1D	0.44	58.96	1591.92	2.00	795.96	29.00	28.00	812.00	1624.00
13	A1A	0.18	24.12	651.24	2.00	325.62	19.00	18.00	342.00	684.00
14	A1B	0.06	8.04	217.08	2.00	108.54	11.00	10.00	110.00	220.00
15	A1C	0.16	21.44	578.88	2.00	289.44	18.00	17.00	306.00	612.00

GEORGIA UNIFORM CODING SYSTEM
SOIL EROSION & SEDIMENT CONTROL

STRUCTURAL PRACTICES

Code	Practice	Symbol
Cs-Fs	Compost Filter Sock	Cs-Fs
Cs-Hb	Straw-Bale Check Dams	Cs-Hb
Cs-S	Stone Check Dams	Cs-S
Ch-1	Channel Stabilization Category 1 (Vegetative/Sod)	Ch-1
Ch-2	Channel Stabilization Category 2 (Rip-Rap, TRM)	Ch-2
Ch-3	Channel Stabilization Category 3 (Concrete)	Ch-3
Cr	Construction Road Stabilization	Cr
Di	Diversion	Di
Do-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene film)	Do-A
Do-B	Stream Diversion Channel (Geotextile alone)	Do-B
Do-C	Stream Diversion Channel Class I Rip-Rap (and Geotextile)	Do-C
Dn-1	Temporary Downdrain Structure	Dn-1
Dn-2	Permanent Downdrain Structure	Dn-2
Fr	Filter Ring	Fr
Ga	Gabion	Ga
Gr	Grade Stabilization Structure	Gr
Lv	Level Spreader	Lv
Rd	Rock Filter Dam	Rd
Rn	Retaining Wall	Rn
Rs-B	Retrofit (Slotted Board Dam w/ Stone or Filter Fabric)	Rs-B
Rs-P	Retrofit (Perforated Riser - Round Pipe w/ Stone Filter)	Rs-P
Rs-Sp	Retrofit (Silt Control Gate)	Rs-Sp
Sf-1B	Sediment Barrier (Type I Bruish Barrier)	Sf-1B
Sf-1A	Sediment Barrier (Type I Non-Sensitive Areas)	Sf-1A
Sf-1S	Sediment Barrier (Type I Sensitive Areas)	Sf-1S
Sf-2C	Sediment Barrier (Type II Compost Filter Media Sock)	Sf-2C
Sf-2A	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	Sf-2A
Sf-2G	Inlet Sediment Trap (Gravel Drop Inlet Protection)	Sf-2G
Sf-2P	Inlet Sediment Trap (Excavated Inlet Sediment Trap)	Sf-2P
Sf-2B	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sf-2B
Sf-2F	Inlet Sediment Trap (Block & Gravel Drop Inlet Protection)	Sf-2F
Sf-2S	Inlet Sediment Trap (Curb Inlet Protection)	Sf-2S
Sd-1	Temporary Sediment Basin	Sd-1
Sd-4	Temporary Sediment Trap	Sd-4
Sf-2D	Inlet Sediment Trap (Sod Inlet Protection)	Sf-2D
Sk	Floating Filter Surface Skimmer	Sk
Sb	Seep Berm	Sb
Sr-B	Temporary Stream Crossing (Bridge)	Sr-B

STRUCTURAL PRACTICES

Code	Practice	Symbol
Sr-C	Temporary Stream Crossing (Culvert)	Sr-C
St	Storm Drain Outlet Protection	St
Su	Surface Roughening	Su
Tc-P	Turbidity Curtain (Floating)	Tc-P
Tc-S	Turbidity Curtain (Stalked)	Tc-S
Tp	Topsoiling	Tp
Wr	Vegetated Waterway or Stormwater Conveyance Channel	Wr

VEGETATIVE MEASURES

Code	Practice	Symbol
Bf	Buffer Zone	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	Cs
Ds-1	Disturbed Area Stabilization (w/ Mulching Only)	Ds-1
Ds-2	Disturbed Area Stabilization (w/ Temporary Seeding)	Ds-2
Ds-3	Disturbed Area Stabilization (w/ Permanent Vegetation)	Ds-3
Ds-4	Disturbed Area Stabilization (w/ Sodding)	Ds-4
Du	Dust Control on Disturbed Areas	Du
Fl-Co	Flocculants Coagulants	Fl-Co
Sb	Streambank Stabilization (Using Permanent Vegetation)	Sb
Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	Ss
Tac-1	Tackifiers: Type I (Synthetic Polymers)	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	Tac-2
Tac-3	Tackifiers: Type III (Synthetic/ Organic Blends)	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers w/ Synthetic Fibers)	Tac-4
Tac-5	Tackifiers: Type V (Synthetic/Organic Blends w/ Synthetic Fibers)	Tac-5

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

GRAPHIC SCALE
(IN FEET)
SCALE: 1" = 40'

GA STATE PLANE EAST

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

GSWCC EROSION CONTROL NOTES:

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.

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.

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

Any amendments/revisions to the ESAPC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

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JASON P. BROWN
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#53274 - EXP. 05.01.2026

24-HOUR CONTACT
MIKE MCCRORE
404.644.2939

GEORGIA811
www.Georgia811.com
Contact 811 before you dig

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

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ZONING: R1

DRAWING DATE:	5/27/2026
DRAWN BY:	DLD
CHECKED BY:	JPB

REVISIONS

DATE:	DESCRIPTION:

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Sheet Title

INTERMEDIATE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN

Sheet Number

C-6.4