CLEARING & GRADING PLANS FOR

1781 PLUNKETTS ROAD

1781 PLUNKETTS ROAD **CITY OF BUFORD, GWINNETT COUNTY GA 30519**

LAND LOT(S): 218 DISTRICT(S): 7TH PARCEL #7218 003 GWINNETT COUNTY, GEORGIA

CITY OF BUFORD NOTES

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EROSION CONTROL PHASE

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EROSION CONTROL PHASE 2

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TREE CALCULATIONS

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C-606 THRU C-608

C-101

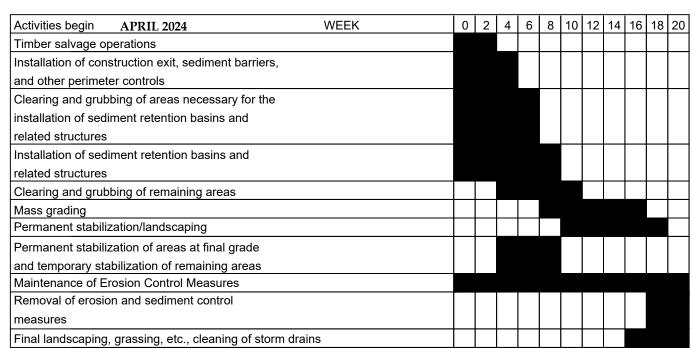
THE DEVELOPER SHOULD BE AWARE THAT ANY UTILITY IMPROVEMENTS (WATER, SANITARY SEWER, NATURAL GAS, AND /OR STORM DRAINAGE) TO BE DEDICATED TO THE CITY AND BECOME CITY RESPONSIBILITY MUST BE INSTALLED BY A CONTRACTOR ON THE CITY'S APPROVED CONTRACTOR LIST, OR OBTAIN APPROVAL BY THE CITY TO BE ADDED TO THE LIST PRIOR TO THE BEGINNING OF INSTALLATION.

THE CITY OF BUFORD ASSUMES NO RESPONSIBILITY FOR OVERFLOW OR EROSION OF NATURAL OR ARTIFICIAL DRAINS BEYOND THE EXTENT OF THE STREET RIGHT -OF-WAY, OR FOR THE EXTENSION OF CULVERTS BEYOND THE POINT SHOWN ON THE APPROVED DEVELOPMENT PLANS. THE CITY OF BUFORD DOES NOT ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF PIPE IN DRAINAGE EASEMENTS BEYOND THE CITY RIGHT-

STREAM BUFFER ARE TO REMAIN IN A NATURAL AND UNDISTURBED CONDITION.

STRUCTURES ARE NOT ALLOWED IN DRAINAGE EASEMENTS.

LAND DISTURBANCE ACTIVITY SCHEDULE



MISCELLANEOUS NOTES

IF THE CONTRACTOR, IN THE COURSE OF WORK FINDS ANY DISCREPANCY BETWEEN THE PLANS. AND THE PHYSICAL CONDITIONS OF THE LOCALITY. OR ANY ERRORS. OMISSIONS. VARYING/CONFLICTING CODE DESCREPANCIES IN THE PLANS OR THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH DISCOVERY, UNTIL AUTHORIZED, WILL BE AT CONTRACTOR'S RISK. THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND ARE NOT TO BE REPRODUCED OR USED FOR THE CONSTRUCTION OF ANOTHER PROJECT WITHOUT SPECIFIC AUTHORIZATION. ALL DIMENSIONS, PROPOSED ITEMS AND EXISTING UTILITIES TO BE VERIFIED PRIOR TO BEGINNING CONSTRUCTION. NOTIFY THE LICENSED PROFESSIONAL OF RECORD IMMEDIATELY IF A DISCREPANCY IS FOUND. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING LIABLE FOR ALL CHANGES. NO COMBUSTIBLE MATERIALS WILL BE ALLOWED ONSITE AND NO BUILDING PERMITS WILL BE ISSUED FOR THIS DEVELOPMENT LINTIL WATER SERVICE IS PROVIDED VIA A WATER MAIN. WHICH IS THE RESPONSIBILITY OF THE DEVELOPER OF THIS SUBDIVISION. WATER AND SEWER WILL BE PROVIDED BY GWINNETT COUNTY. ALL RETAINING WALL PERMITS MUST BE ISSUED PRIOR TO PERMITTING OF THE SDP.

PRIMARY PERMITEE

OWNER/DEVELOPER

BOGAN ENTERPRISES, LLC 11555 MEDLOCK BRIDGE ROAD, SUITE #190 JOHNS CREEK, GA 30097 PAUL KHANSARI 404-429-3621 PAULKHANSARI@GMAIL.COM

24 HR CONTACT

BOGAN ENTERPRISES, LLC 11555 MEDLOCK BRIDGE ROAD, SUITE #190 JOHNS CREEK, GA 30097 PAUL KHANSARI 404-429-3621 PAULKHANSARI@GMAIL.COM

ENGINEER

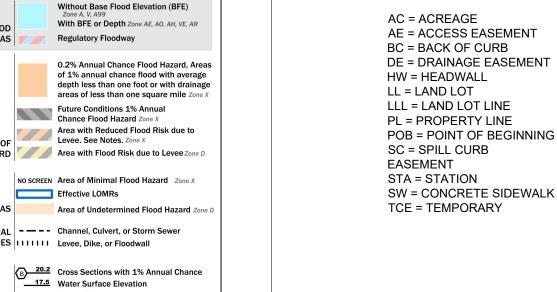
LJA ENGINEERING 299 SOUTH MAIN STREET, SUITE A ALPHARETTA, GEORGIA 30009 TYLER MARCHMAN, PE 770-255-4730 TMARCHMAN@LJA.COM

SURVEYOR

CHRISTOPHER E. MOORE & ASSOCIATES, INC. 320 N CLAYTON ST LAWRENCEVILLE, GA 30046 PHONE: (770) 963-7418 EMAIL: CHRIS@CMALAND.COM

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES

TEXT LEGEND



FIRM panel number, and FIRM effective date. Map images for

regulatory purposes.

LEGEND

==== = STORM LINE

x = FENCE

= BRANCH/CREEK = DRAINAGE FLOW ARROW

RELATIVE TO THE PREPARATION AND SUBMISSION OF A DEVELOPMENT PERMIT APPLICATION HAVING BEEN FULFILLED, AND SAID APPLICATION AND ALL SUPPORTING PLANS AND DATA HAVING BEEN REVIEWED AND APPROVED BY CITY OF BUFORD DEPARTMENTS AS REQUIRED UNDER THEIR RESPECTIVE AND APPLICABLE REGULATIONS, APPROVAL OF THIS SITE PLAN IS HEREBY GRANTED AND ALL OTHER DEVELOPMENT PLANS ASSOCIATED WITH THIS PROJECT SHALL BE SUBJECT TO ALL FURTHER PROVISIONS OF

DIRECTOR

SITE DATA

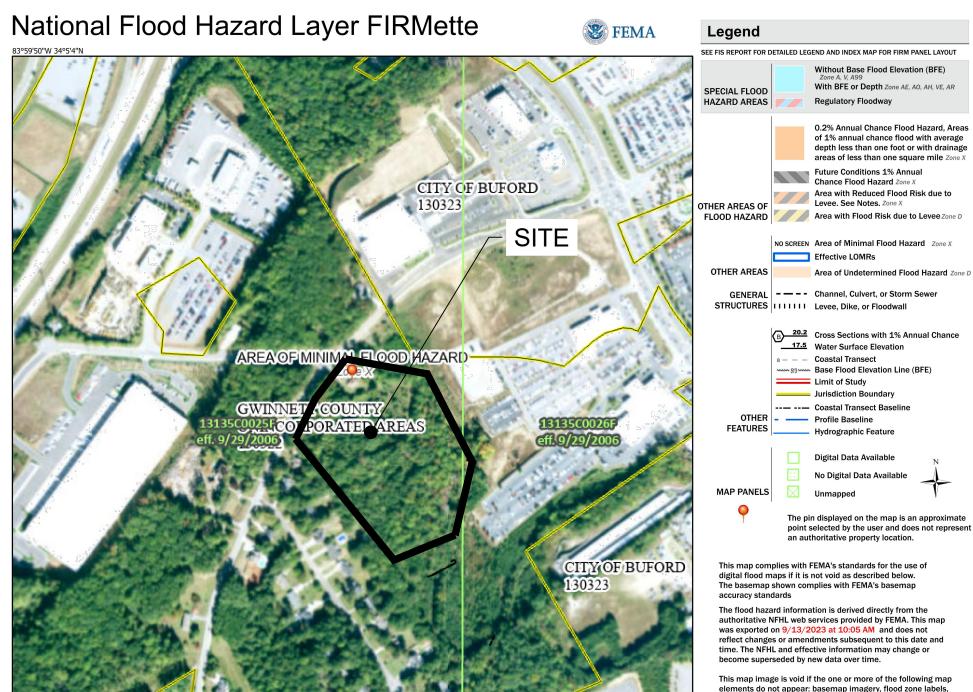
+/- 11.11 AC.

DISTURBED AREA: +/- 7.97 AC.

DEPARTMENT OF PLANNING AND DEVELOPMENT

NOTE: THIS CERTIFICATE EXPIRES 12 MONTHS FROM THE DATE OF APPROVAL UNLESS A DEVELOPMENT PERMIT IS ISSUED.

NATIONAL FLOOD HAZARD MAP 13135C0016G EFF. 3/4/2013



1:6,000

Basemap Imagery Source: USGS National Map 2023

2,000

1,000

CALL YOU DIG **NOTE: DEVELOPER SHALL** BE RESPONSIBLE FOR

ANY CONFLICTS WITH

EXISTING UTILITIES.

CERTIFICATE OF DEVELOPMENT PLANS APPROVAL

ALL REQUIREMENTS OF THE CITY OF BUFORD UNIFIED DEVELOPMENT ORDINANCE (UDO)

GASWCC LEVEL II CERTIFICATION #59016 EXPIRATION DATE: 11/17/2025 .JA ENGINEERING 299 S. MAIN STREET **ALPHARETTA, GA 30009** 770-225-4730 **BOGAN ENTERPRISES, LLC** 11555 MEDLOCK BRIDGE RD. **SUITE #190 JOHNS CREEK, GA 30097** paulkhansari@gmail.com AND GRADING P PLUNKETTS RC

NG AI 1781

PROJECT NUMBER

3934-2301

SHEET TITLE

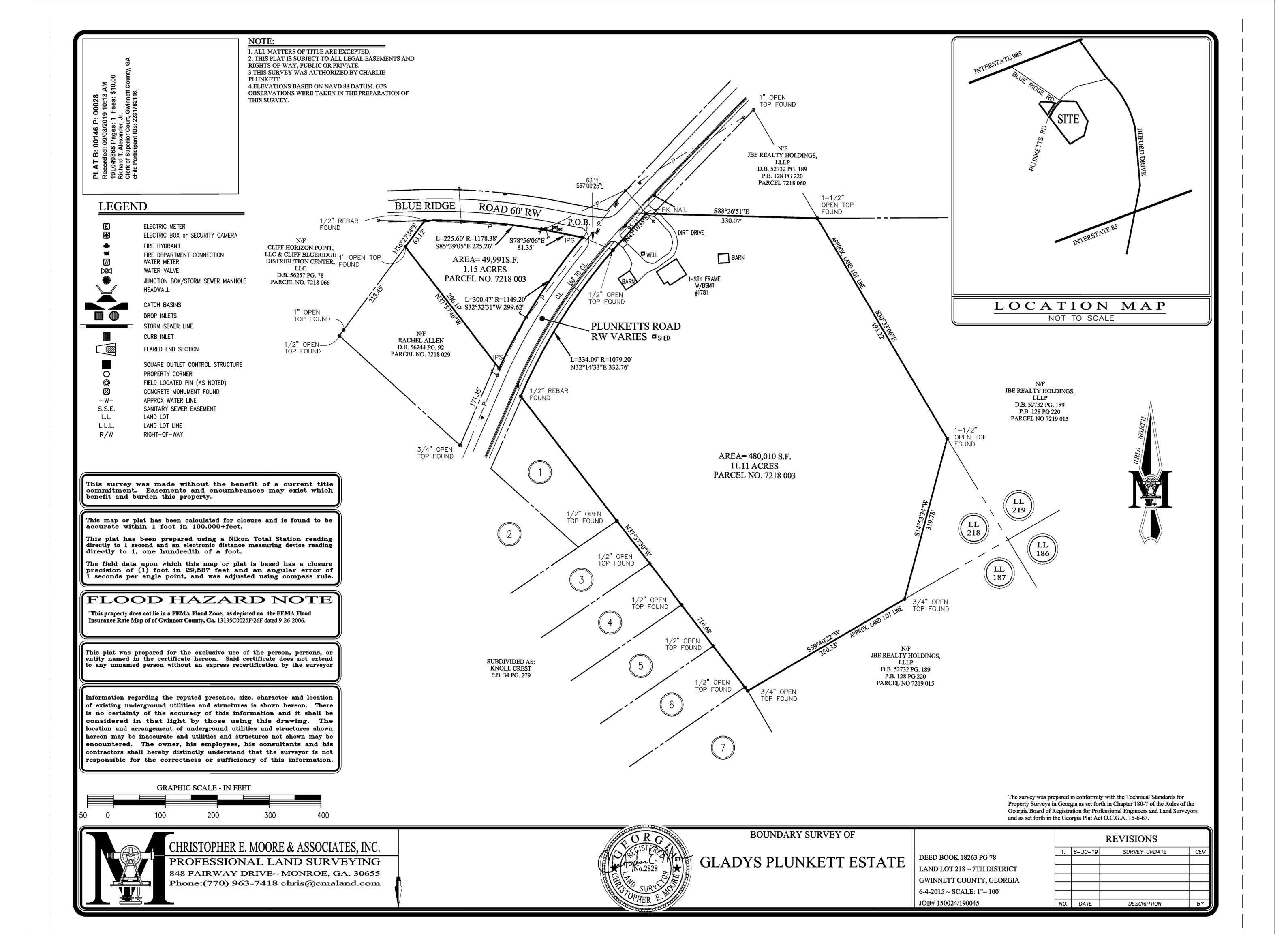
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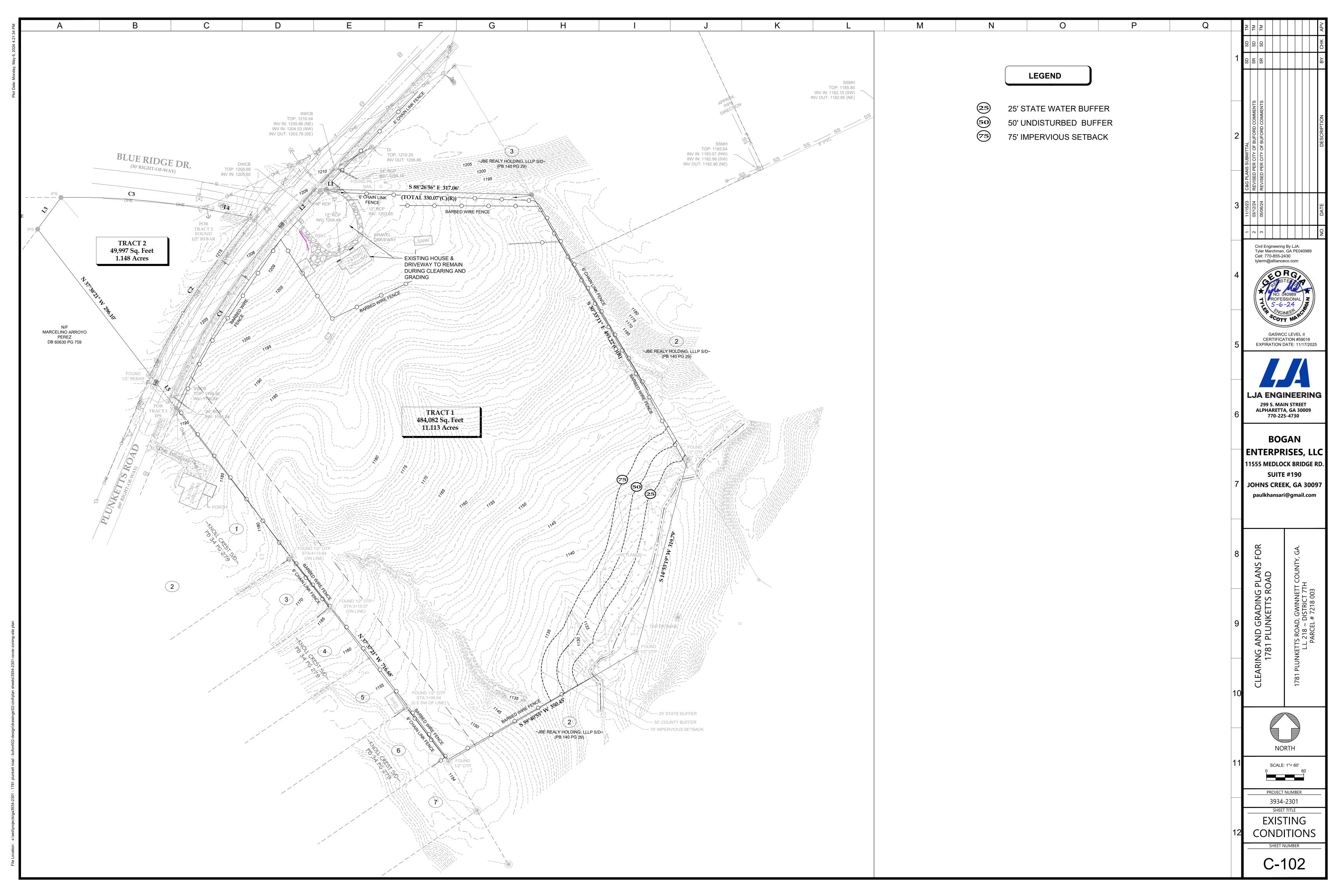
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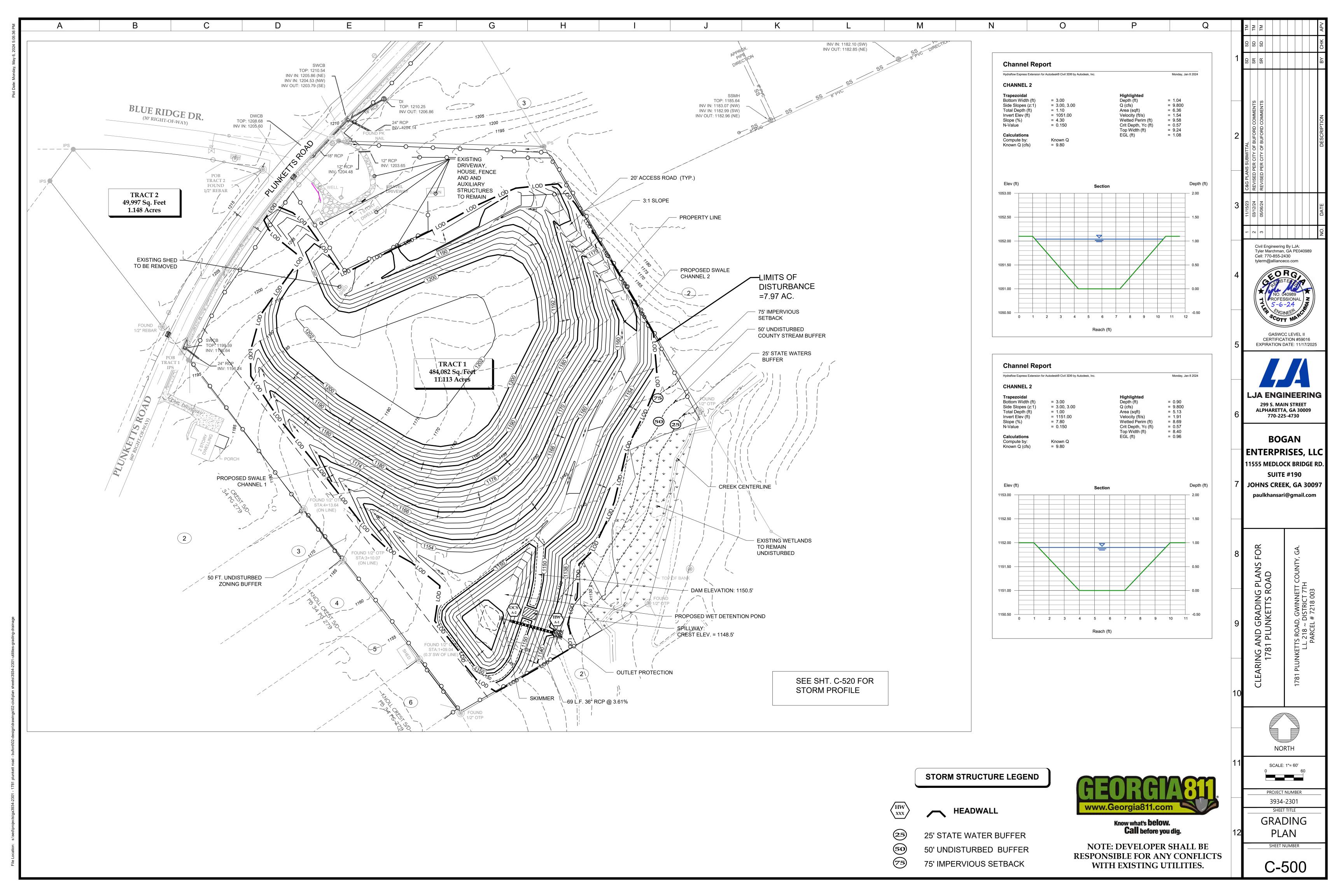
C-100

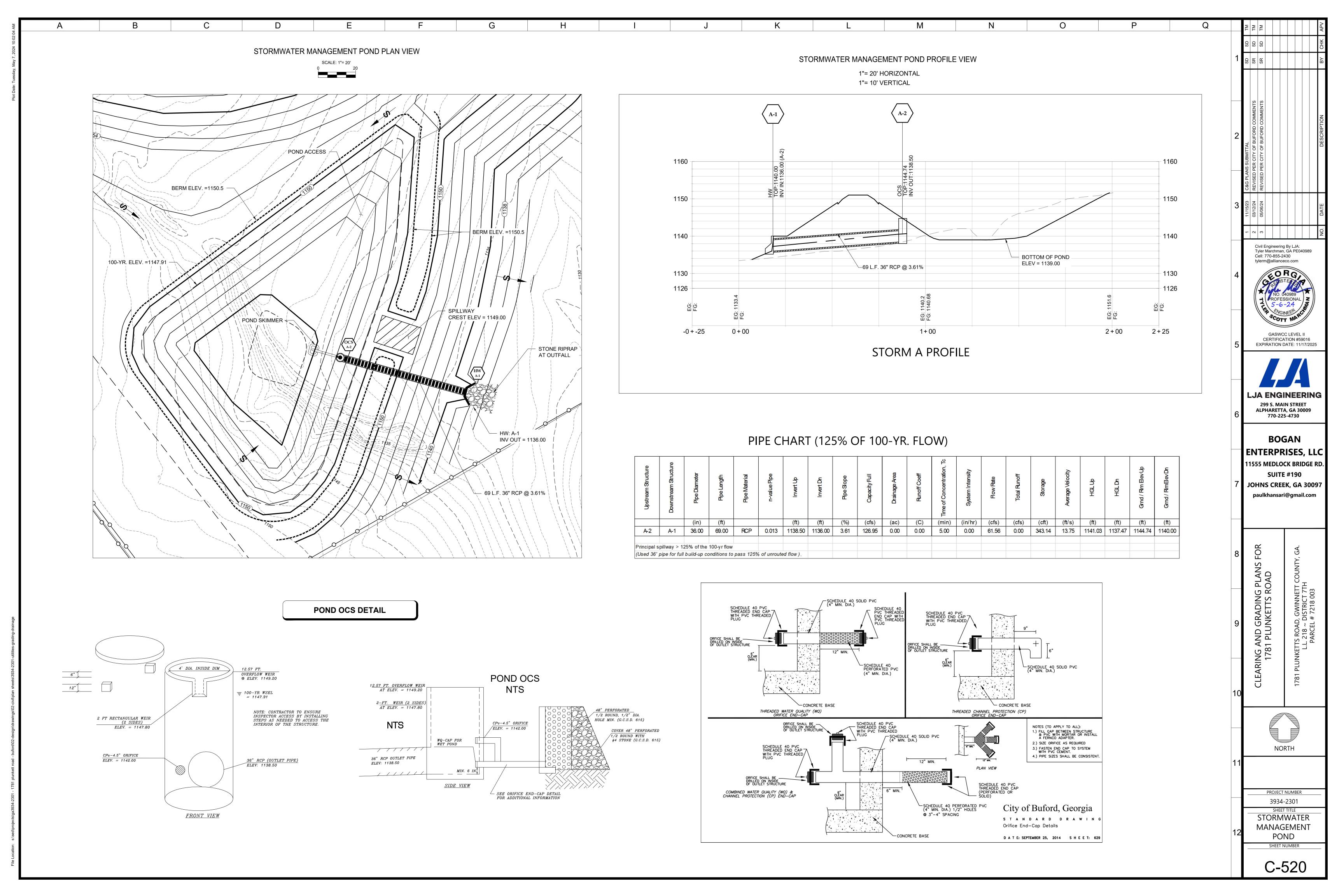
Civil Engineering By LJA: Tyler Marchman, GA PE040989

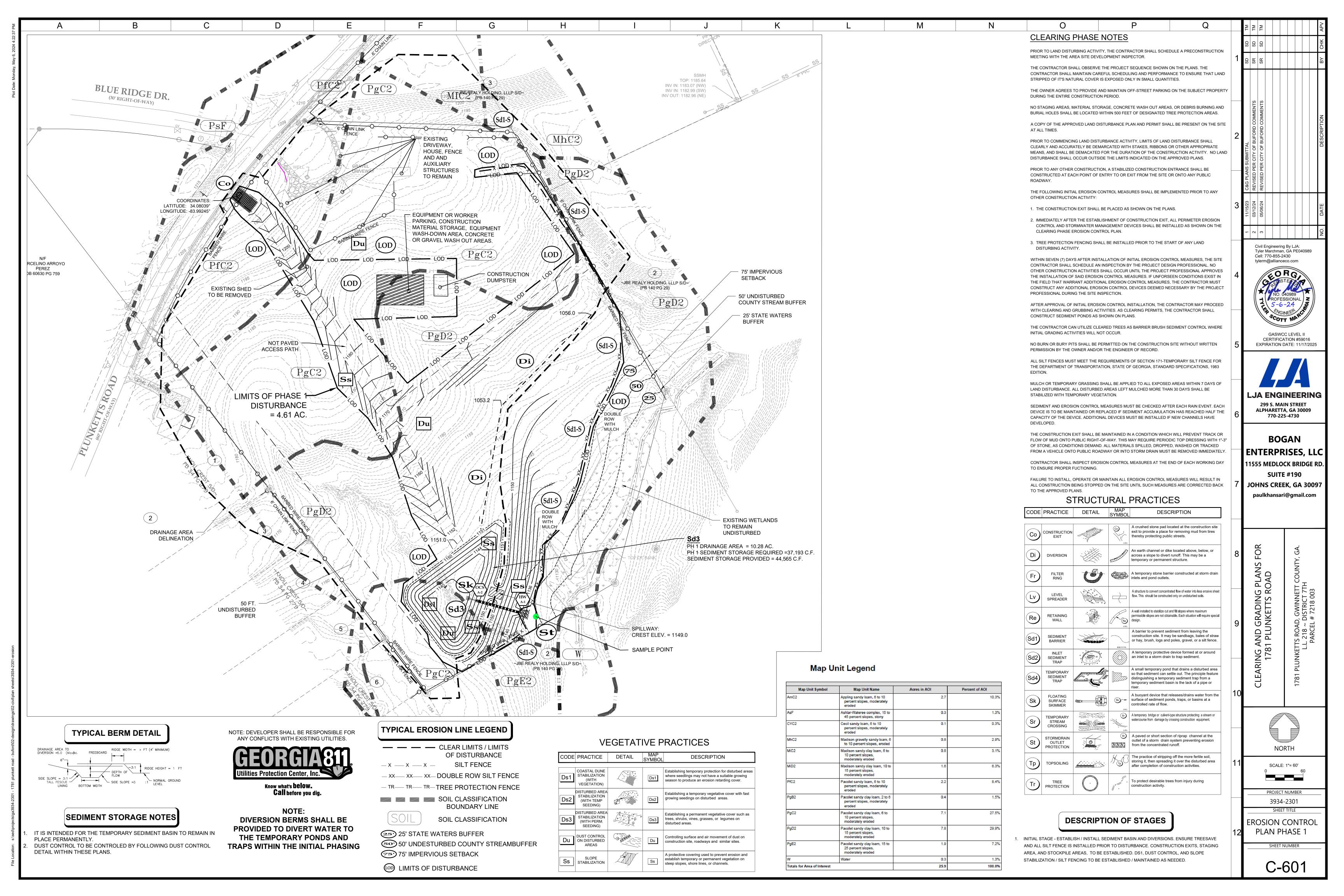
Cell: 770-855-2430 tylerm@allianceco.com

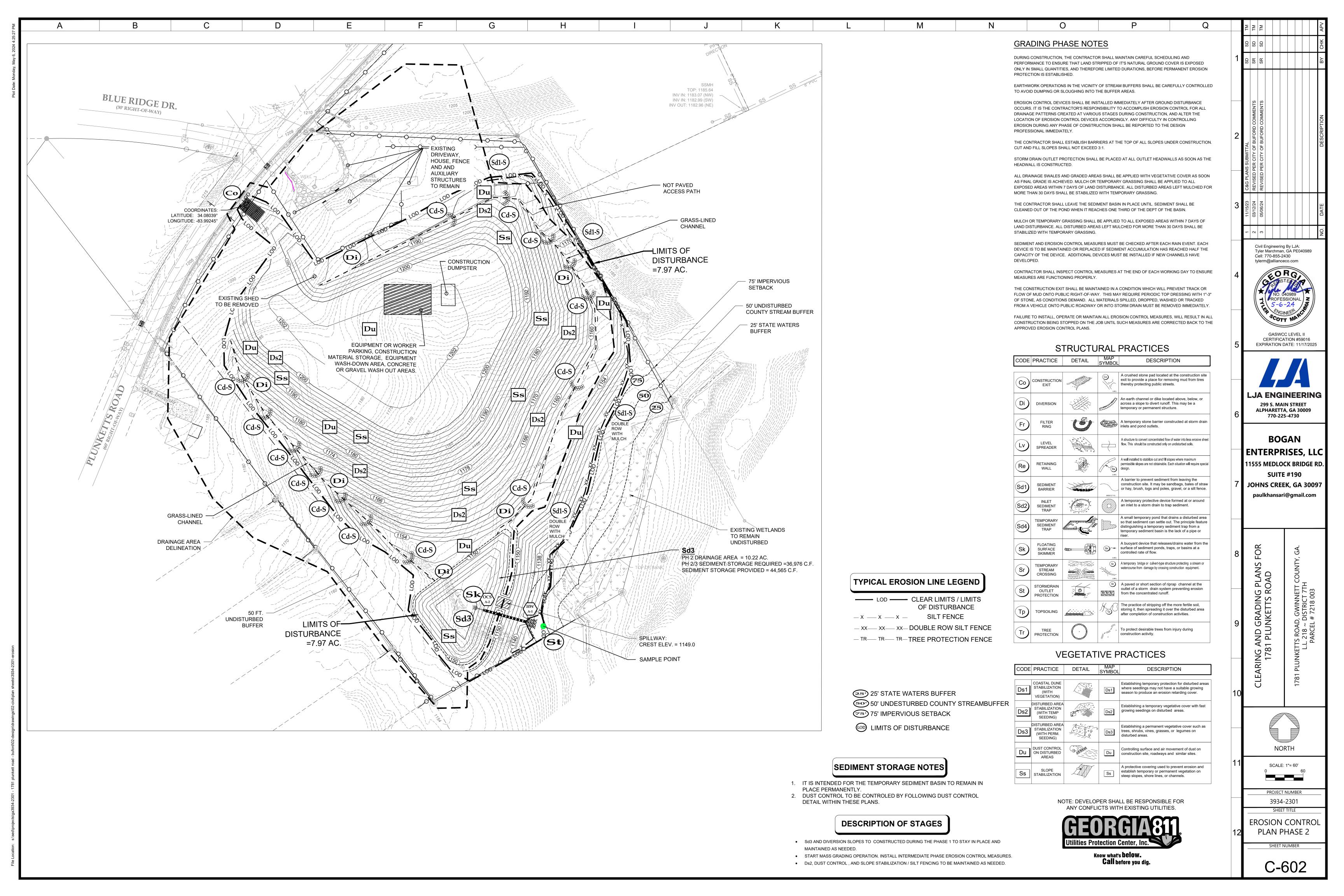


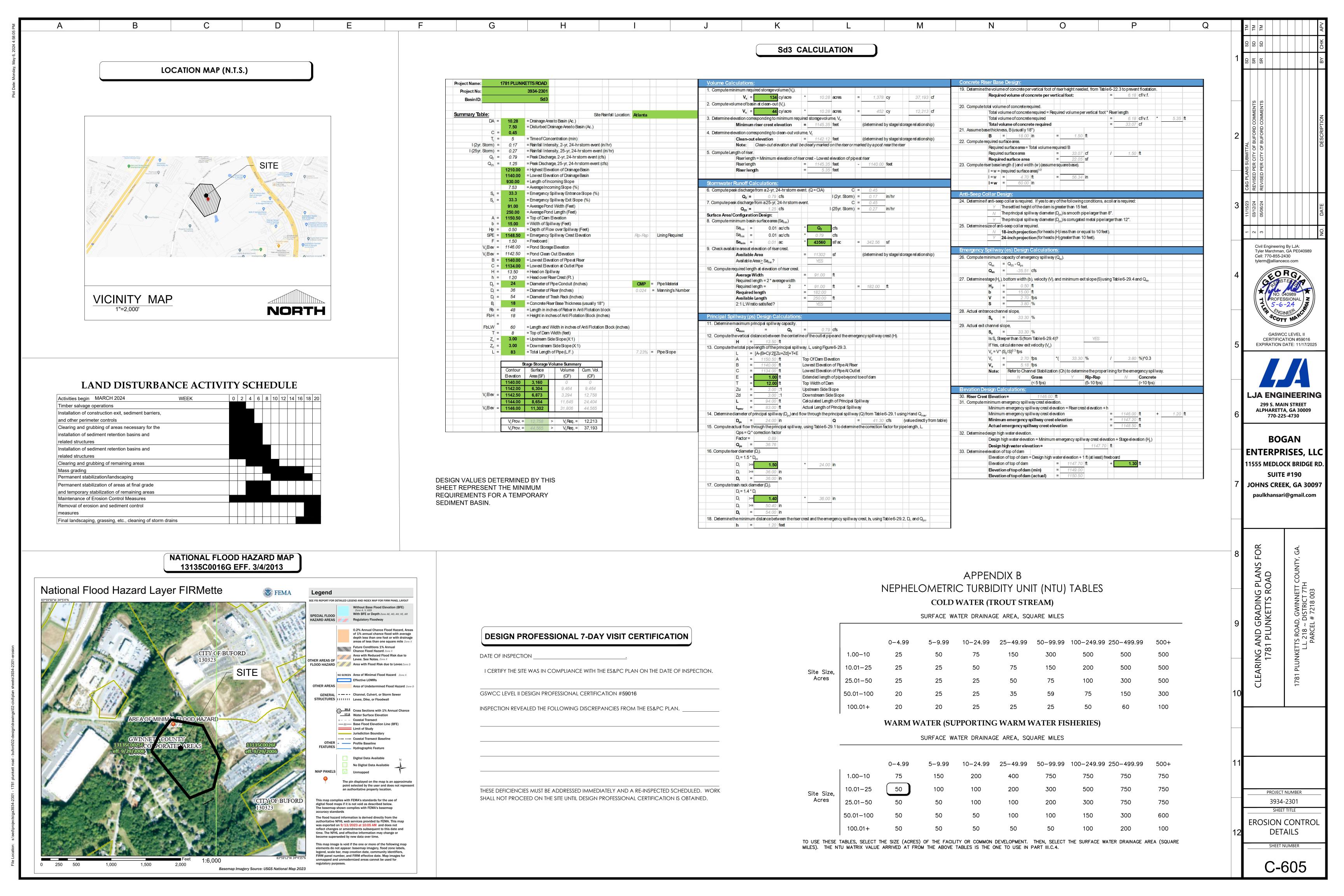












- REDUCE RUNOFF, EROSION, AND SEDIMENTATION

- PREVENT SURFACE COMPACTION AND CRUSTING CONTROL UNDESIRABLE VEGETATION

LESS WHEN SEEDING IS NOT PRACTICAL.

- REDUCE DUST - CONSERVE MOISTURE

- INSTALL ALL OTHER REQUIRED BMPs FIRST - GRADE SITE. IF POSSIBLE. TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. - LOOSEN COMPACTED SOIL, IF POSSIBLE, TO A DEPTH OF THREE INCHES. APPLY STRAW OR HAY UNIFORMLY, AS SHOWN IN TABLE 1, BY HAND OR MECHANICAL EQUIPMENT, AND ANCHOR BY PRESSING INTO SOIL OR USING NETTING. - MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) OR OTHER SUITABLE TACKIFIER. - WOOD WASTE ON SLOPES FLATTER THAN 3:1 DO NOT NEED ANCHORING.

MULCHING APPLICATION REQUIREMENTS

- MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT INACTIVE FOR FOURTEEN DAYS.

MATERIAL	RATE	DEPTH
STRAW OR HAY	-	2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK	-	2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	_
GEOTEXTILES, JUTE MATTING, NETTING, ETC	SEE MANUFACTURE'S RECOMMENDATIONS	_

TABLE 1

- ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH - IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 20-30 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

DISTURBED AREA STABILIZATION Ds1 (WITH MULCHING ONLY)

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION.

- PROTECT THE SOIL SURFACE FROM EROSION - REDUCE DAMAGE FROM SEDIMENT & RUNOFF TO DOWN-STREAM AREAS

INSTALLATION

- IMPROVE AESTHETICS

USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.

- IMPROVE WILDLIFE HABITAT AND VISUAL RESOURCES

FINAL STABILIZATION MEANS THAT 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER. OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED LANDSCAPING MATERIALS IN PLANNED LANSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES.

SELECT PLANTS SPECIES BASED ON SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA, TIME OF YEAR, METHOD OF PLANTING, AND THE NEEDS OF THE LAND USER (REFER TO TABLE 1) APPLY AGRICULTURAL LIMÉ AT A RATE OF 1-2 TONS/ ACRE UNLESS SOIL TESTS INDICATE

OTHERWISE. PLEASE REFER TO TABLE 2 FOR INITIAL FERTILIZATION, NITROGEN, TOP DRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES. APPLY SEED HYDRAULICALLY. IF USING CONVENTIONAL METHODS, USE A CULTI-PACKER SEEDER, DRILL ROTARY SEEDER OR BY HAND

COVER THE SEED LIGHTLY WITH 1/8" -1/4" OF SOIL FOR SMALL SEED AND 1/2"-1" OF SOIL FOR LARGE SEED WHEN USING A CULTIPACKER. CHECK SEED TAGS FOR % GERMINATION & % PURITY IN ORDER TO CALCULATE PURE LIVE SEED (PLS), WHICH IS THE PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE.

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. PLEASE REFER TO DS1 FOR APPLICATION RATES AND ANCHORING METHODS FOR DIFFERENT MATERIALS. IRRIGATE WHEN THE SOIL IS DRY AND AT A RATE THAT WILL NOT CAUSE RUNOFF.

RE-SEED AREAS WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR

Ridge width = 4 ft minimum

Ridge width = 4 ft minimum

STAND EXISTS. MAINTAIN AT LEAST 6" OF TOP GROWTH UNDER ANY USE AND MANAGEMENT EXCLUDE TRAFFIC UNTIL THE PLANTS ARE WELL ESTABLISHED.

PLEASE REFER TO TABLE 2 FOR SECOND YEAR AND MAINTENANCE FERTILIZER RATES APPLY ONE TON OF AGRICULTURAL LIME EVERY 4-6 YEARS OR AS INDICATED BY SOIL TESTS.

MOW BERMUDA GRASS, BAHIA GRASS, AND TALL FESCUE AS DESIRED MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE THAT THE SEEDS ARE MATURE.

DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

G

- REDUCE RUNOFE & SEDIMENT DAMAGE OF DOWN STREAM RESOURCES - PROTECT THE SOIL SURFACE FROM EROSION - IMPROVE AESTHETICS

INSTALLATION

APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. APPLICABLE TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS. COORDINATE WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE STABILIZATION

- IMPROVE TILTH, INFILTRATION, AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS.

TAKE NOTE OF WHICH SPECIES ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS. WHEN THE SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, SCARIFY THE SOIL IN ORDER TO PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE. APPLY AGRICULTURAL LIME AT THE RATE DETERMINED BY SOIL TEST PH.

APPLY LIME BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL ON STEEP SLOPES, APPLY FERTILIZER HYDRAULICALLY. SELECT GRASS OR GRASS-LEGUME MIXTURES BASED ON THE AREA AND SEASON OF THE YEAR. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC

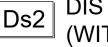
THE APPROPRIATE DEPTH OF PLANTING IS 10X THE SEED DIAMETER. APPLY IRRIGATION AT A RATE THAT WILL NOT CAUSE RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO INSURE GERMINATION OF THE SEED.

MAINTENANCE

RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE. IF OPTIMUM CONDITIONS FOR TEMPORARY VEGETATION IS LACKING, MULCH CAN BE USED A SINGULAR EROSION CONTROL DEVICE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY PH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT. FERTILIZER SHALL BE HYDRAULICALLY APPLIED. PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.



BAHIA, PENSACOLA ALONE

TEMPORARY COVER

BAHIA. WILMINGTON

ALONE OR WITH

BERMUDA, COMMON

(HULLED SEED)

COMMON LAWN AND

FORAGE HYBRIDS

WITH WINTER ANNUALS

OR COOL SEASON

FESCUE, TALL

WITH OTHER PERENNIALS

LESPEDEZA, SERICEA

SCARIFIED

TEMPORARY COVER

WITH OTHER PERENNIALS 30 LBS.

WITH OTHER PERENNIALS 30 LBS.

ALONE 10 LBS. WITH OTHER PERENNIALS 6 LBS.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

PER ACRE 1,000 SQ. FT

1.4 LBS.

0.7 LB.

1.4 LBS.

0.7 LB.

0.2 LB.

0.1 LB.

0.9 CU. F1

SOD ONLY

1.1 LBS.

0.7 LB.

1.4 LBS.

SOD PLUGS 3'X3'

60 LBS.

60 LBS.

40 CU. FT.

BLOCK

15 LBS.

30 LBS.

SOME PERMANENT PLANT SPECIES, SEEDING RATES, AND

PLANTING DATES

RATES | RATES PER PLANTING DATES BY REGION

3/15-5/31

0.3 LB. 9/1-10/15 9/1-10/15

8/15-

4/1-5/31

3/1-5/31

4/15-6/15 4/1-6/15 4/1-5/31

11/1-5/31

4/1-5/31 3/15-5/31 4/1-5/15

4/1-5/31 3/15-5/31

3/1-5/31

11/1-5/31

SOME TEMPORARY PLANT SPECIES, SEEDING RATES AND PLANTING DATES

ODEOLEO	RATES PER	RATES PER	PLATING DATES BY REGION				
SPECIES	1000 SQ. FT.	ACRE	M-L	Р	С		
BARLEY ALONE BARLEY IN MIXTURES	3.3 LBS. 0.6 LBS.	3 BU. 0.5 BU.	9/1-10/31	9/15-11/15	10/1-12/31		
LESPEDEZA, ANNUAL LESPEDEZA IN MIXTURES	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	3/1-3/31	3/1-3/31	2/1-2/28		
LOVEGRASS, WEEPING LOVEGRASS IN MIXTURES	0.1 LBS. 0.05 LBS.	4 LBS. 2 LBS.	4/1-5/31	4/1-5/31	3/1-5/31		
MILLET, BROWNTOP MILLET IN MIXTURES	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	4/15-6/15	4/15-6/30	4/15-6/15		
MILLET, PEARL	1.1 LBS.	50 LBS.	5/15-7/15	5/15-7/31	4/15-8/15		
OATS ALONE OATS IN MIXTURES	2.99 LBS. 0.7 LBS.	4 BU. 1 BU.	9/15-11/15	9/15-11/15	9/15-11/15		
RYE (GRAIN) ALONE RYE IN MIXTURES	3.9 LBS. 0.6 LBS.	3 BU. 0.5 BU.	8/15-10/31	9/15-11/30	10/1-12/31		
RYEGRASS	0.9 LBS.	40 LBS.	8/15-11/15	9/1-12/15	9/15-12/31		
SUDANGRASS	1.4 LBS.	60 LBS.	5/1-7/31	5/1-7/31	4/1-7/31		
TRITICALE ALONE TRITICALE WITH MIXTURES	3.3 LBS. 0.6 LBS.	3 BU. 0.5 BU.	N/A	N/A	10/15-11/30		
WHEAT ALONE WHEAT WITH MIXTURES	4.1 LBS. 0.7 LBS.	3 BU. 0.5 BU.	9/15-11/30	10/1-12/15	10/15-12/31		

TABLE 1 . UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.

SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS. FOR MAJOR LAND RESOURCE AREAS (MLRAs), SEE INSTRUCTIONS FOR TACKIFIERS AND BINDERS. 4. SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS)

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

SPECIES	CIES PLANTING YEAR		RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 30
COOL SEASON GRASSES & LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500	30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

TABLE 2

SOME PERMANENT PLANT SPECIES, SEEDING RATES, AND

PLANTING DATES

FT.

1.7 LBS.

138 LBS.

1.4 LBS.

1.7 LBS.

SPACING

SPACING

0.05 LB.

ACRE

70 LBS.

3 TONS

60 LBS.

75 LBS.

2 LBS.

RATES PER PLANTING DATES BY REGION

9/1-2/28 9/1-2/28

10/1-1/31 10/1-1/31

4/1-5/31 | 3/15-5/31 | 3/1-5/15

9/1-2/28 9/1-2/28

10/1-3/31 11/1-3/15

4/1-5/31

2/1-3/31

TABLE 1 (CONT.)

2/1-3/31 2/1-3/31

REMARKS

IIX WITH TALL FESCU

CUT WHEN SEED IS

MATURE BUT BEFORE

TALL FESCUE OR

WINTER ANNUALS

SPREADING GROWT

18"-24": GOOD IN

TO DEVELOP GOOD

STANDS; MIX WITH

COMMON BERMUDA,

BAHIA TALL FESCUE

OR WINTER ANNUALS:

DO NOT MIX WITH

SERICEA LESPEDEZA;

INOCULATE SEED WITH

EL INOCULATE

PLANT IN SMALL

FOOD AND COVER

QUICK COVER: ROUGHT TOLERAN

GROWS WELL WITH

SERICEA LESPEDEZA

ON ROAD-BANKS AND

THER STEEP SLOPE

SHORT LIVED

OR VERY WET SITES

SUCH AS RIVERBANKS

SPRIGS LOCALLY

AND SHORELINES; DIG

CLUMPS FOR WILDLIF

WITH HEIGHT OF

JRBAN AREAS: SLOW

IT SHATTERS; ADD

OR WINTER ANNUALS

10/15-

9/1-2/28

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE FOLLOWING AND APPLY AS

- 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED
- AT THE RATE OF 2 1/2 TONS PER ACRE. 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC
- SEEDING, IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE, DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- 3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER.

4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF

- 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR
- 6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT
- 7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT FROSION BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

FOR MULCH APPLICATION AND OTHER INFORMATION, REFER TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

SOME PERMANENT PLANT SPECIES, SEEDING RATES, AND

TABLE 1 (CONT.)

PLS IS AN ABBREVIATION FOR PURE LIVE SEED. REFER TO GLOSSARY FOR AN EXPLANATION OF THIS TERM. THE RESOURCE AREAS ARE DEFINED IN THE GLOSSARY. SEE PAGE 60 FOR RESOURCE AREA.

TYPES OF SPECIES	PLANTING	FERTILIZER	RATE	N TOP DRESSING
	YEAR	(N-P-K)	(LBS./ACRE)	RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	50

PLANTING DATES

SPECIES	RATES PER ACRE	RATES PER 1,000 SQ.	PLANTING	DATES B	REMARKS		
	PER ACRE	FT.	M-L	Р	С		
PANICGRASS, ATLANTIC COASTAL	20 LBS.	0.5 LB.		3/1-4/30	3/1-4/30	GROWS WELL ON COASTAL SAND DUNES; MIX WITH SERICEA LESPEDEZA BUT NOT ON SAND DUNES	
REED CANARY GRASS WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	8/15- 10/15	9/1-10/15		GROWS SIMILAR TO TALL FESCUE; FOR WET SITES	
SUNFLOWER, AZTEC MAXIMILLIAN	10 LBS.	0.2 LB.	4/15-5/31	4/15-5/31	4/1-5/31	MIX WITH WEEPING LOVEGRASS OR OTHER LOW GROWING GRASSES OR LEGUMES	

RATES ARE FOR BROADCASTED SEED. IF A SEED DRILL IS USED, REDUCE THE RATES BY ONE-HALF. 4. SEEDING RATES ARE BASED ON PURE LIVE SEEDS (PLS).

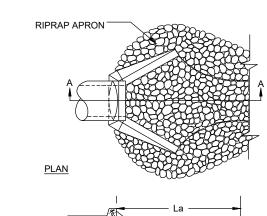
FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

PERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION									
TYPES OF SPECIES	PLANTING	FERTILIZER	RATE	N TOP DRESSING					
	YEAR	(N-P-K)	(LBS./ACRE)	RATE (LBS./ACRE)					
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100					
	SECOND	6-12-12	1000						
	MAINTENANCE	10-10-10	400	30					
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50 					
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100					
	SECOND	6-12-12	800	50-100					
	MAINTENANCE	10-10-10	400	30					
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	50 					

TABLE 2

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

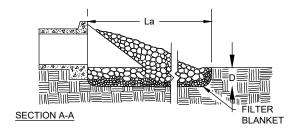
PIPE OUTLET TO WELL **DEFINED CHANNEL**



1. La IS THE LENGTH OF THE RIPRAP APRON.

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6". 3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).

4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.



RIPRAP OUTLET PROTECTION

ST - Outlet Protection													
tructure Name	Pipe Size, D	Pipe Material	Design Flow Rate, Q₂₅	Design Velocity, V ₂₅	Tailwater Depth, TW	Tallwater Condition	Apron Length, L _a	Apron Width at HW, W ₁	Apron Width Downstream, W ₂	Avg. Stone Diameter, പ്ല	Maximum Stone Diameter	Minimum Depth of Stone, D	

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS AND DEMOLITION SITES.

PREVENT THE MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL TO HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DMAGE AMY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS

DEFINITION

A. <u>TEMPORARY METHODS</u>

MULCHES - SEE STANDARD DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO SPECIFICATION TAC - TACKIFIERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S

<u>VEGETATIVE COVER</u> - SEE SPECIFICATION DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING). SPRAY-ON ADHESIVES - THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO SPECIFICATION TAC - TACKIFIERS

TILLAGE - THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

<u>IRRIGATION</u> - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET REPEAT AS NEEDED

BARRIERS - SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING

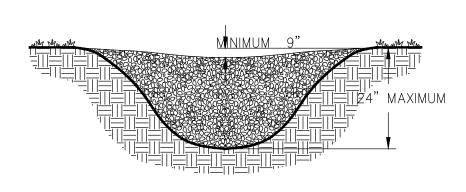
CALCIUM CHLORIDE - APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

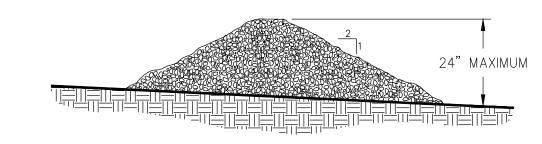
PERMANENT VEGETATION - SEE SPECIFICATION DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. TOPSOILING - THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE SPECIFICATION TP - TOPSOILING.

STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE SPECIFICATION CR -CONSTRUCTION

STONE CHECK DAM

CROSS SECTION





. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.

THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE 4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.

GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

ST Outlet Brotestien in REA cfs fps ft A-1 36.0 RCP 43.00 6.08 0.50 Minimum 20 9 23 0.60 0.90 1

Know what's **below. Call** before you dig.

3934-2301 EROSION CONTROL

DETAILS SHEET NUMBER

PROJECT NUMBER

Civil Engineering By LJA

tylerm@allianceco.com

Cell: 770-855-2430

Tyler Marchman, GA PE040989

GASWCC LEVEL II

CERTIFICATION #59016

EXPIRATION DATE: 11/17/2025

299 S. MAIN STREET

ALPHARETTA, GA 30009

770-225-4730

BOGAN

ENTERPRISES, LLC

11555 MEDLOCK BRIDGE RD

SUITE #190

JOHNS CREEK, GA 30097

paulkhansari@gmail.com

(J)

AND GRADING PLUNKETTS F

NG AI 1781

Normal Ground Level

DEFINITION A ridge of compacted soil, constructed above, across or

TABLE 1

below a slope. CONDITIONS

Diversions are applicable when: 1. Runoff from higher areas is or has potential for damaging property, causing erosion, contributing to pollution, flooding, interfering with or preventing the establishment of vegetation on lower areas. 2. Surface and/or shallow subsurface flow is damaging sloping upland. 3. The length of slope needs to be reduced so that soil loss

will be reduced to a minimum. This standard applies to

temporary and permanent diversions in developments

SPECIFICATIONS

involving land-disturbing activities.

1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the

2. The diversion shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and free of irregularities which will impede normal flow.

3. All fills shall be machine compacted as needed to prevent unequal settlement that would cause damage in the completed diversion. 4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the

functioning of the diversion. 5. Diversion channel shall be stabilized in accordance with **specification** Ch — Channel Stabilization.

TEMPORARY SEDIMENT POND SUPPLEMENT

SPECIES

LESPEDEZA, SERICEA

(CONT.)

UNSCARIFIED

SEED-BEARING HAY

LESPEDEZA AMBRO

VIRGATA OR APPALOW

SCARIFIED

UNSCARIFIED

LESPEDEZA. SHRUB

(LESPEDEZA, BICOLOR OR

LESPEDEZA THUMBERGII)

LOVEGRASS, WEEPING

ALONE

WITH OTHER PERENNIALS

MAIDENCANE SPRIGS

REMARKS

LOW GROWING: SOI

PRODUCING; WILL

SPREAD INTO

BERMUDA LAWNS

SAME AS ABOVE

QUICK COVER: LOV

GROWING: SOD

FORMING; NEEDS FUL

1 CU. FT.=650 SPRIGS

1 BU.=1.25 CU. FT. OF

800 SPRIGS

ULL SUN OR PARTIA

MIX WITH 30 LBS TAI

RYE; INOCULATE SEEI

FESCUE OR 15 LBS.

PLANT ONLY NORTH

LESPEDEZAS OR

WIDELY ADAPTED AN

TAKES 2-3 YEARS TO

INOCULATE SEED WITH

WITH WEEPING

LOVEGRASS, COMMON

BERMUDA, BAHIA, OR

TALL FESCUE

LOW MAINTENANCE

ESTABLISH;

EL INOCULANT; MIX

CROWN VETCH: NO FOR DROUGHTY SOILS OR HEAVY USE AREAS

> SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

 PCV PIPE WITH HOLES IN UNDERSIDE

Skimmer Calculations DRAINAGE Basin Volume Required for Storage (cu-vd) Volume Provided (cu-yd) Clean Out Volume

SKIMMER OUTLET DETAIL

2.4" Faircloth

10.75

38,894

67,558

21,292

1134.0

Orifice Dia. =

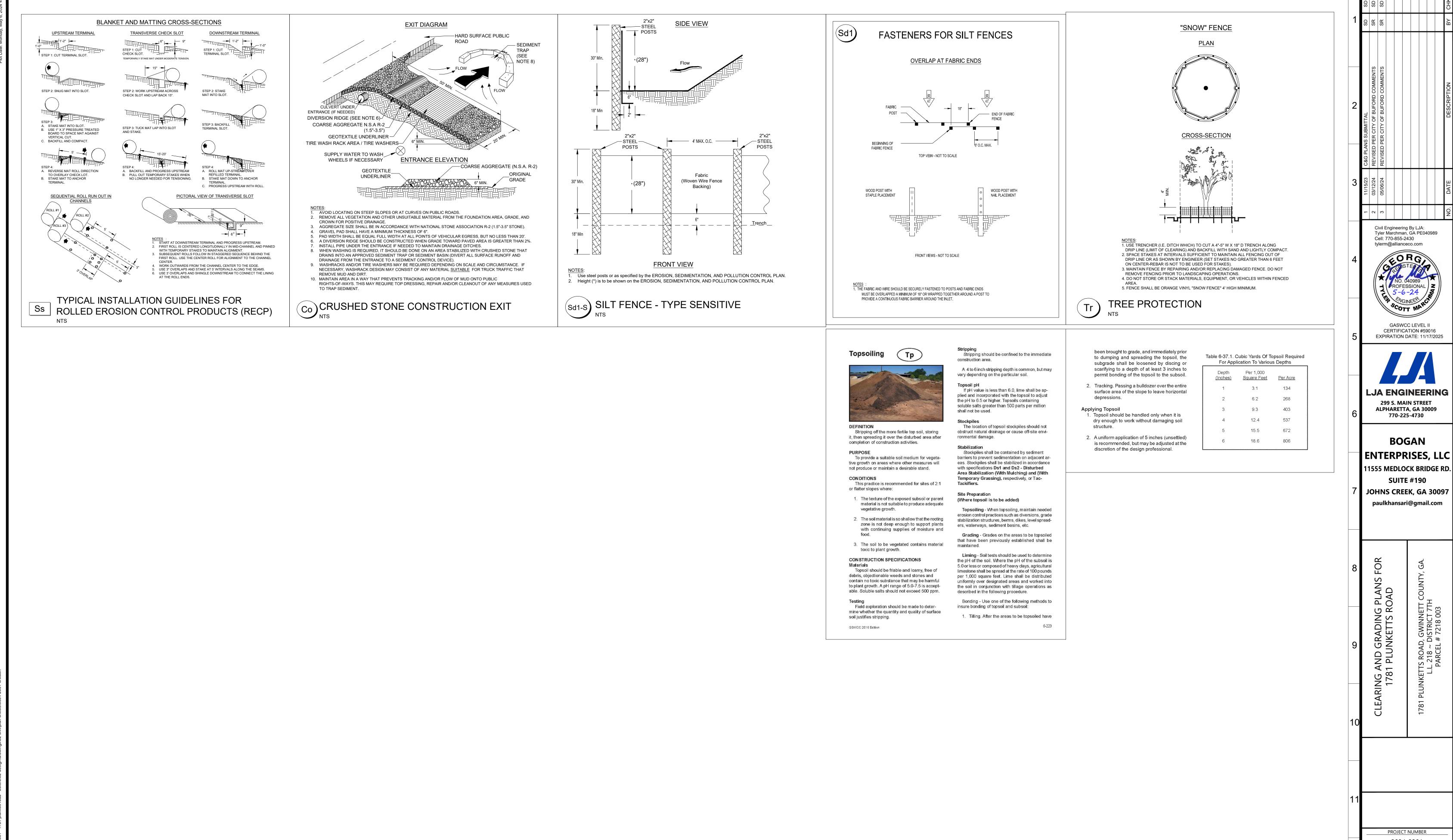
(cu-yd)

Time to Drain (hrs)

Skimmer Size (in)

Manufacturer Name

Clean Out Elevation



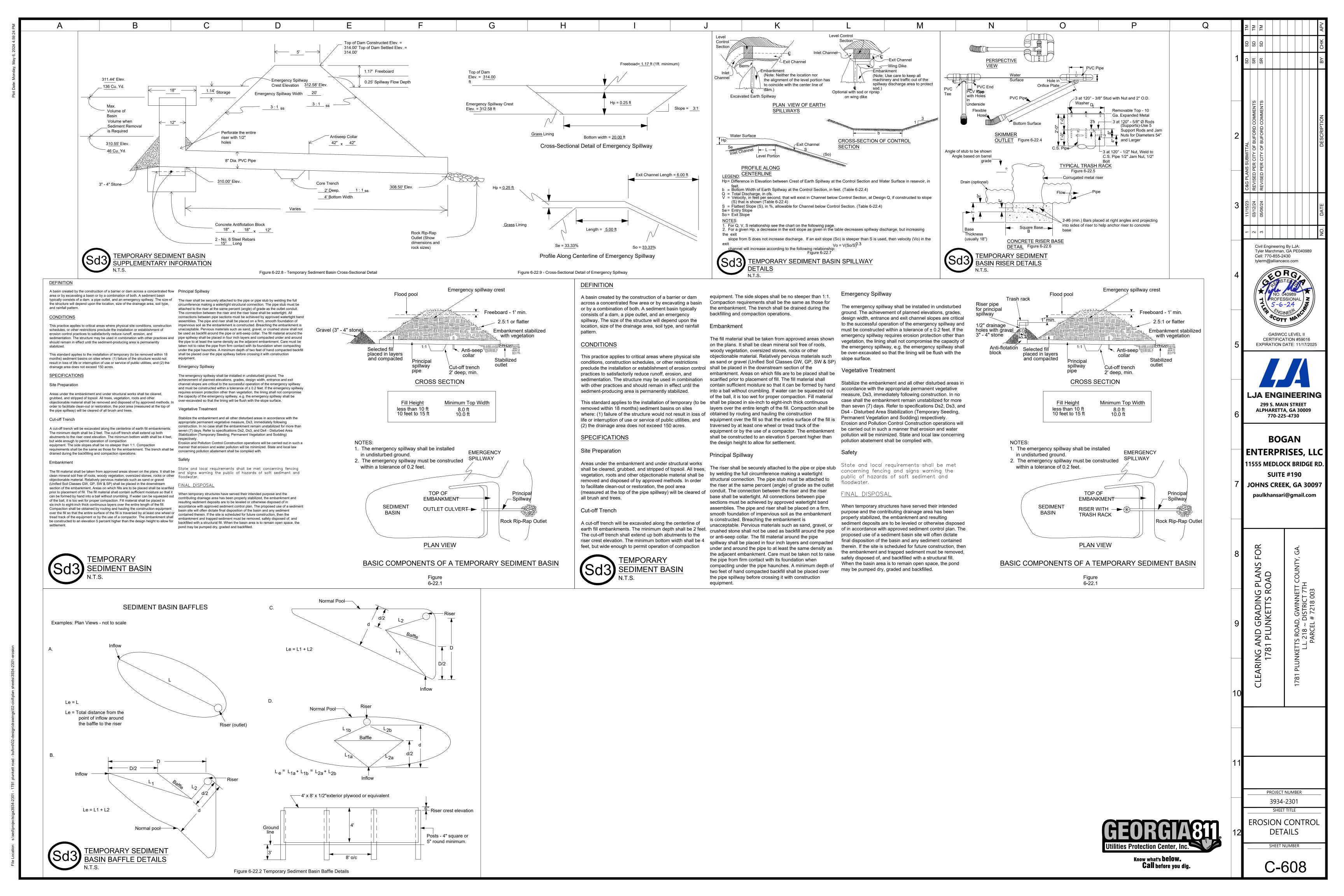
Utilities Protection Center, I Know what's **below.** Call before you dig.

3934-2301 SHEET TITLE

EROSION CONTROL DETAILS

SHEET NUMBER

C-607



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C-701

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