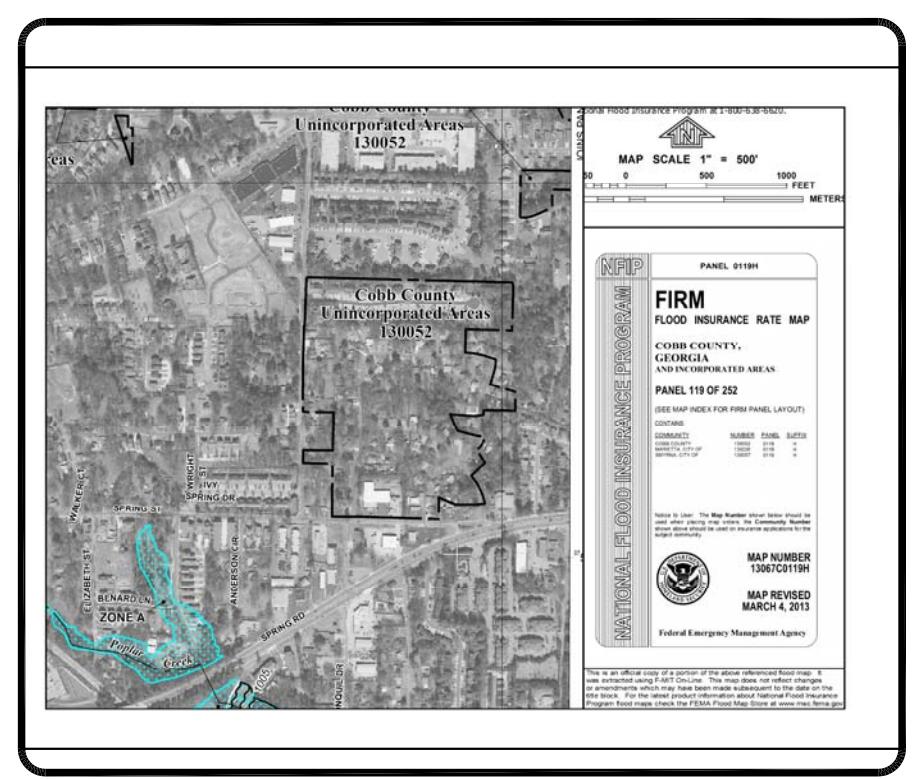


**Location Map**

N.T.S.



**FEMA Map**

N.T.S.

**Site Notes:**

1. THE SITE CONTAINS: .388 ACRES 16,917 SF (FOR BOTH LOTS TOTAL)
2. CURRENT STREET ADDRESS: 2731 MATHews STREET, SMYRNA, GA 30331
3. THE NORTH ARROW AND SCALE ARE SHOWN ON THIS PLAN
4. SURVEY INFORMATION TAKEN FROM SURVEYS PERFORMED BY MCCLUNG SURVEYING DATED JULY 25, 2016.
5. NO PORTIONS OF THIS PROPERTY ARE INSIDE DESIGNATED F.E.M.A. SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13067C0119 H, DATED MARCH 4, 2013.
6. THERE ARE NO WATERS OF THE STATE OF GEORGIA (LAKES OR STREAMS) WITHIN 200 FEET OF THE SITE. ALL APPROPRIATE STATE WATER BUFFERS ARE SHOWN ON THE SITE PLANS. THERE ARE NO PROPOSED IMPACTS TO ANY STATE WATER BUFFERS.
7. TO THE BEST OF OUR KNOWLEDGE, THERE NO CEMETERIES, ARCHITECTURAL, OR ARCHAEOLOGICAL LANDMARKS EXIST ON SITE. IN THE EVENT THAT THESE LANDMARKS ARE DISCOVERED DURING CONSTRUCTION, THE ENGINEER MUST BE CONTACTED IMMEDIATELY FOR REVIEW AND AMENDING THE CONSTRUCTION PLANS
8. ALL KNOWN UTILITY EASEMENTS PER THE SURVEY ARE SHOWN ON THIS PLAN
9. SANITARY SEWER WILL BE PROVIDED TO THE NEW HOUSE THROUGH AN EXISTING CLEANOUT CONNECTION TO COBB COUNTY SEWER SYSTEM. A NEW SEWER LATERAL WILL BE INSTALLED FOR THE SECOND HOUSE. NO ON SITE SEPTIC SYSTEM IS PROPOSED.

**RAD Conditional Zoning:**

CURRENT ZONING: R-20 SINGLE FAMILY ATTACHED OR DETACHED

MINIMUM LOT SIZE: 25,000 SF

MIN LOT WIDTH AT FRONT SETBACK: 75 FT; CUL-DE-SAC 50 FT

MIN PUBLIC ROAD FRONTRAGE: 75 FT; CUL-DE-SAC 50 FT (VARIANCE REQUESTED TO 43.675 FT FOR LOT 1 AND 43.675 FEET FOR LOT 2)

ALL SETBACKS SHALL BE MEASURED FROM FUTURE RIGHT-OF-WAY

FRONT SETBACK: 35 FT (VARIANCE REQUESTED TO 25 FT)

SIDE SETBACK: 10 FT (VARIANCE REQUESTED TO 5 FT)

REAR SETBACK: 35 FT (VARIANCE REQUESTED TO 15 FT)

PROPERTY WITH SHORTER AMOUNT OF ROAD FRONTRAGE WILL BE THE FRONT SETBACK FOR DETERMINING OTHER SETBACKS (MAJOR SIDE, SIDE, REAR).

IF STRUCTURE FRONTS A MAJOR SIDE SETBACK, MAJOR SIDE SETBACK SHALL BE 35 FT.

MAXIMUM BUILDING HEIGHT: 35 FT

PARKING REQUIREMENTS: 2 SPACES PER DWELLING UNIT

**Water Quality/ Detention Pond Summary:**

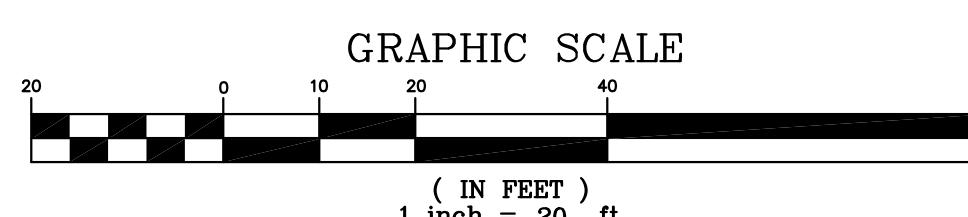
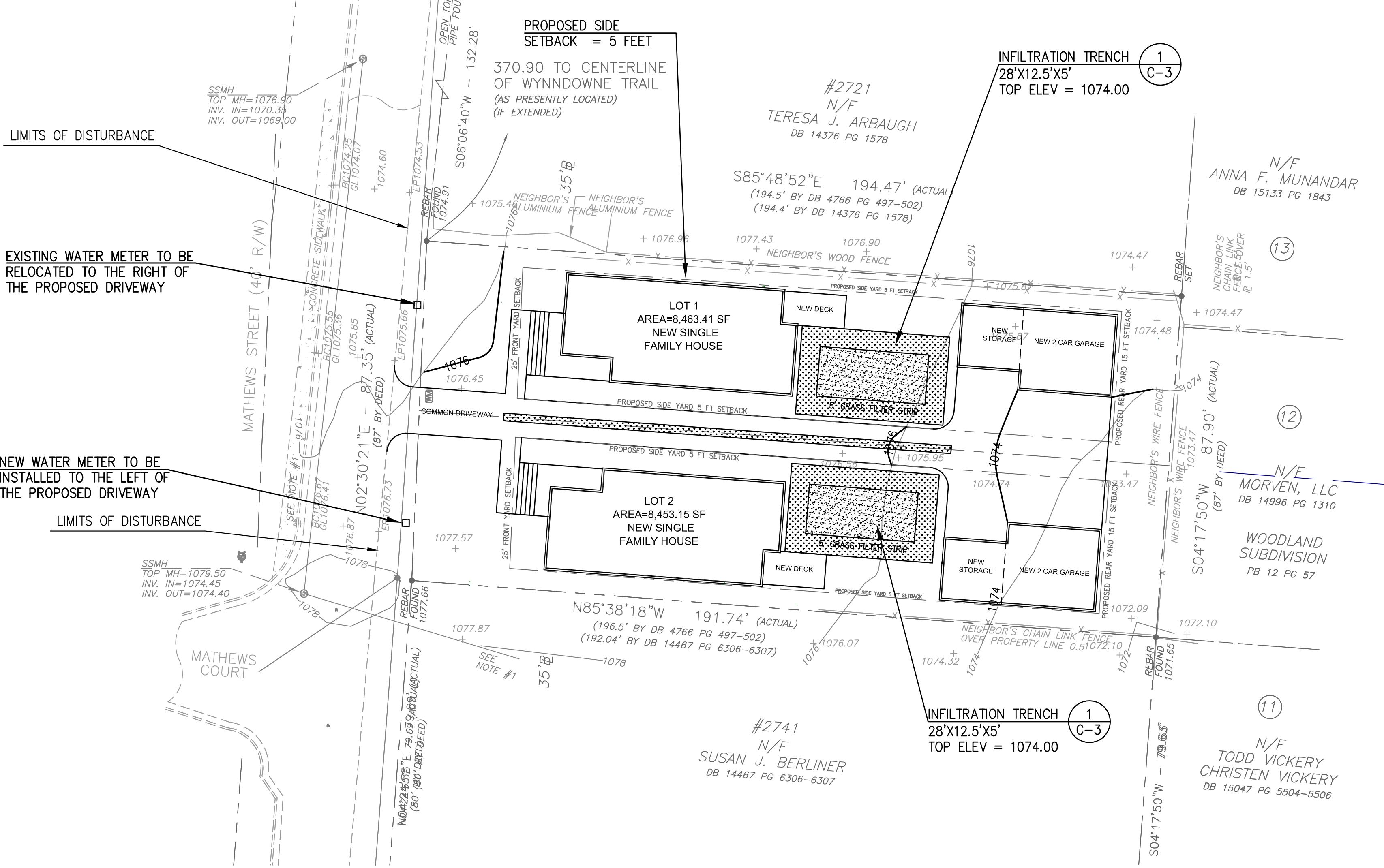
THE SITE CONSISTS 0.40 ACRES FOR BOTH LOTS TOTAL. THE PROPOSED DETENTION FACILITIES ALLOW FOR A BUILD OUT IMPERVIOUS FOR EACH LOT UP TO 0.11 ACRES. THIS CORRESPONDS TO 4792 SQUARE FEET OF NEW OR RECLAIMED IMPERVIOUS AREA ON SITE THAT MUST BE TREATED FOR WATER QUALITY. THE PROVIDED LOT COVERAGE FOR BOTH LOTS IS LESS THAN 4792 SF. THE FIRST 1.2" OF A RAIN EVENT IS USED TO CALCULATE THE REQUIRED WATER QUALITY VOLUME. THE REQUIRED WATER QUALITY VOLUME IS 475 CUBIC FEET FOR EACH LOT.

AN INFILTRATION TRENCH WAS SIZED TO TREAT THE NEW IMPERVIOUS AREA FOR WATER QUALITY AND PROVIDE DETENTION FOR THE 2- YR THOUGH 100-YR STORM EVENTS. THE INFILTRATION TRENCH WILL PROMOTE GROUNDWATER RECHARGE AND BY SIZING THE TRENCH FOR THE LARGER RAIN EVENTS, THERE SHOULD BE VERY LITTLE RUNOFF FROM THE SITE IN SMALLER, MORE COMMON RAIN EVENTS. AN ASSUMED INFILTRATION RATE OF 0.5 INCHES PER HOUR WAS USED FOR THIS ZONING PLAN.

THE INFILTRATION TRENCH WILL BE FILLED WITH #57 STONE THAT ALLOWS FOR A 40% VOID RATIO. BECAUSE OF THE STONE VOID RATIO, THE REQUIRED VOLUME FOR WATER QUALITY / STORMWATER DETENTION IN EACH TRENCH IS 1190 CUBIC FEET. THE PROPOSED TRENCH DIMENSIONS ARE 25 FT LONG BY 17 FT WIDE BY 5 FT DEEP. THE TOTAL VOLUME YIELDED BY THE TRENCH WILL BE 1312 CUBIC FEET, WHICH WILL BE ADEQUATE TO ACCOMPANY THE STONE VOIDS. THE TRENCH WILL HAVE A SAND BOTTOM BELOW THE 5 FOOT GRAVEL BASE AND HAVE A 5 FOOT GRASSED STRIP SURROUNDING THE UPSTREAM SIDES TO PROMOTE FILTRATION BEFORE STORMWATER ENTERS THE BASIN.

THE POST DEVELOPED DISTURBED AREA HYDROGRAPHS WERE ROUTED USING THE DEKALB RATIONAL METHOD THROUGH THE INFILTRATION TRENCH. THE INFILTRATION TRENCH ALSO ASSUMES A CONSERVATIVE INFILTRATION RATE OF 0.50 INCHES PER HOUR. AN 6" DRAIN WILL BE PLACED FROM THE TOP OF THE TRENCH AS AN OVERFLOW FOR THE LARGER STORM EVENTS. THE SMALLER STORM EVENTS ARE MODELED TO BE HELD IN THE TRENCH ITSELF AND WILL PERCOLATE THROUGH THE SOIL. THE CHART BELOW SHOWS THE POST BASIN OF 0.20 ACRES ROUTED THROUGH THE INFILTRATION TRENCH AND THE OUTFLOW PIPE. THESE NUMBERS WILL HOLD TRUE FOR EACH LOT. DETAILED INFILTRATION TRENCH DRAWINGS WILL BE PROVIDED AS PART OF THE CONSTRUCTION PLANS.

**24 HOUR EMERGENCY CONTACT: MATT JUNGER - 404-493-1555**



**Peak Flow Summary Chart for Site:**

PEAK FLOW SUMMARY CHART FOR SITE							
Storm Event	Pre-Developed Basin Q (cfs)	Post-Developed Basin Q (cfs)	Allowable Q (cfs)	Infiltration Trench Routed Q (cfs)	% Reduction from Pre Developed	Peak Ponding Elevation (ft)	Total Pond Storage
2-YR	0.28	0.66	0.25	0.00	100.00%	99.11	575
5-YR	0.32	0.76	0.29	0.08	73.91%	99.49	628
10-YR	0.35	0.83	0.32	0.15	59.04%	99.57	640
25-YR	0.40	0.94	0.36	0.22	44.91%	99.70	657
50-YR	0.44	1.03	0.40	0.28	36.73%	99.81	673
100-YR	0.48	1.11	0.43	0.42	12.94%	99.89	684

**Lot 1 Coverage:**

PROPOSED HOUSE FOOTPRINT 1443 SQ. FT.  
PROPOSED GARAGE 719 SQ. FT.  
PROPOSED DRIVEWAY 1361 SQ. FT.  
PROPOSED FRONT STEPS/PORCH/WALK 321 SQ. FT.  
PROPOSED BACK DECK 134 SQ. FT.  
TOTAL COVERAGE 3978 SQ. FT.  
LOT AREA 8463 SQ. FT.  
LOT COVERAGE 47.00%

**Lot 2 Coverage:**

PROPOSED HOUSE FOOTPRINT 1445 SQ. FT.  
PROPOSED GARAGE 715 SQ. FT.  
PROPOSED DRIVEWAY 1365 SQ. FT.  
PROPOSED FRONT STEPS/PORCH/WALK 275 SQ. FT.  
PROPOSED BACK DECK 138 SQ. FT.  
TOTAL COVERAGE 3938 SQ. FT.  
LOT AREA 8453 SQ. FT.  
LOT COVERAGE 46.59%

**2731 Mathews Street**

Zoning Plan For  
Land Lot 632 17th District  
City of Smyrna, Georgia

CVE PI # 16-235

Sheet No.

**C-1**

Prepared By:  
CRESCENT VIEW  
ENGINEERING, LLC:  
1003 Kermill Drive  
Marietta, GA 30060  
678-324-8410  
www.crescentvieweng.com

MAGNETIC

## ES&amp;PC Notes:

1. THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BAILE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
4. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
5. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E., CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEARED AS SILT REDUCES THEIR AFFECTIVENESS.
6. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
7. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 14 DAYS.
8. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
9. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS.
10. PERSON RESPONSIBLE FOR EROSION CONTROL MEASURES IS: 24 HOUR EMERGENCY CONTACT: PHILIP JUNGER - 404-909-6912
11. CUT AND FILL SLOPES NOT TO EXCEED 2H:1V.
12. SEDIMENTATION & EROSION CONTROL MEASURES TO BE INSPECTED DAILY.
13. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS. THE EROSION CONTROL MEASURE CAN BE DESIGNED BY A LEVEL 1B (BLUE CARD) GASWCC CERTIFIED CONTRACTOR, UNLESS THE BMP HAS A HYDRAULIC COMPONENT. FOR ALL BMP DESIGN WITH A HYDRAULIC COMPONENT, THE BMP MUST BE DESIGNED BY A LEVEL 2 (GOLD CARD) GASWCC CERTIFIED DESIGNER. A CONSTRUCTION EXIT IS NOT PROPOSED DUE TO THE SMALL SIZE OF THE PROJECT AND THE LEVEL 1B CONTRACTOR MUST PROVIDE ALL MEASURES TO PREVENT ANY SILT FROM ENTERING THE STREAM.

SILT FENCE PROVIDED = 587 LINEAR FEET  
SEDIMENT STORAGE REQUIRED = 26.49 CU YD  
SEDIMENT STORAGE PROVIDED = 29.35 CU YD

## City of Smyrna Landscape Notes:

1. CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT (770-319-5387) TO ARRANGE A PRECONSTRUCTION CONFERENCE PRIOR TO ANY LAND DISTURBANCE. NO PERMIT SHALL BE ISSUED UNTIL PLANS ARE APPROVED AND AN ON-SITE INSPECTION WITH CITY REPRESENTATIVES OCCURS.
2. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO GRADING OR THE REMOVAL OF IMPERVIOUS SURFACES OR STRUCTURES.
3. BUFFERS SHALL BE REPLANTED SUBJECT TO COMMUNITY DEVELOPMENT DEPARTMENT APPROVAL.
4. ALL TREES MUST BE PLANTED AT LEAST 10' FROM ANY UTILITY LINE.
5. THE COMMUNITY DEVELOPMENT DIRECTOR MUST INSPECT AND APPROVE THE SITE BEFORE THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
6. A 3" LAYER OF ORGANIC MULCH WILL BE REQUIRED FOR ALL REPLACEMENT TREES. MULCH MUST BE APPLIED PRIOR TO START OF CONSTRUCTION. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TREE TRUNKS.
7. ALL NEWLY PLANTED TREES SHALL HAVE VISIBLE ROOT FLARES AT FINISHED GRADE. NO CIRCLING ROOTS SHALL BE ALLOWED ON PLANTED TREES. THE UPPER 2/3 OF THE WIRE BASKET, ALL BURLAP, AND STRAPPING SHALL BE CUT AND REMOVED PRIOR TO BACKFILL.
8. TREES LESS THAN THE CALIPER INCH SHOWN WILL NOT BE ACCEPTED. I.E.: 4 INCH CALIPER TREES MUST BE 4 INCHES OR LARGER.
9. PLANT HEIGHT MEASUREMENT IS TAKEN AT THE TOP OF THE MAIN BODY OF THE PLANT AND NOT AT THE TIP OF THE TOPMOST GROWTH.
10. ALL NEWLY PLANTED TREES SHALL BE EQUIVALENT IN QUALITY TO A FLORIDA #1 GRADE OR BETTER. ALL TREES OF LESSER QUALITY SHALL BE REJECTED BY THE COMMUNITY DEVELOPMENT DIRECTOR.
11. WATERING BAGS OR A Drip IRRIGATION SYSTEM WILL BE PROVIDED FOR ALL TREES PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. DURING FIRST YEAR BAGS WILL BE REFILLED WEEKLY BY OWNER AND REFILLED DURING DROUGHTS FOR A MINIMUM OF 2 YEARS AFTER INSTALLATION.
12. NO TRENCHING ALLOWED IN TREE SAVE AREAS-INCLUDING IRRIGATION.
13. ALL TREE GUYING AND STAKES SHALL BE REMOVED FROM TREE ONE YEAR AFTER PLANTING DATE.
14. EVERY NEW COMMERCIAL OR INSTITUTIONAL DEVELOPMENT SHALL PLANT AND MAINTAIN A BED OF JONQUILS OR OTHER APPROPRIATE FLOWERS AT A LOCATION VISIBLE FROM A PUBLIC RIGHT-OF-WAY.

## Tree Save/Density And Recompense Requirements

DENSITY REQUIREMENT:  
REQUIRED DENSITY IS 100" PER ACRE)

LOT 1:  
REQUIRED DENSITY (100" X 0.194) = 19.4" (20") REQUIRED  
PROVIDED DENSITY = 20" TOTAL REPLACEMENT DBH  
REPLACEMENT TREES:

- 1 QTY - OVERCUP OAK, 4" DBH
- 2 QTY - CREPEMYRTLE MULTI-TRUNK, 6" DBH
- 1 QTY - KOUSA DOGWOOD, 4' DBH

TOTAL REPLACEMENT DBH = 20"

SAVED TREES: NONE

REQUIRED DENSITY MET THROUGH REPLACEMENT TREES

SPECIMEN RECOMPENSE:  
38" OAK - LOST/DESTROYED = 38" REQUIRED RECOMPENSE  
PROVIDED RECOMPENSE = 0.00  
REQUIRED RECOMPENSE NOT MET

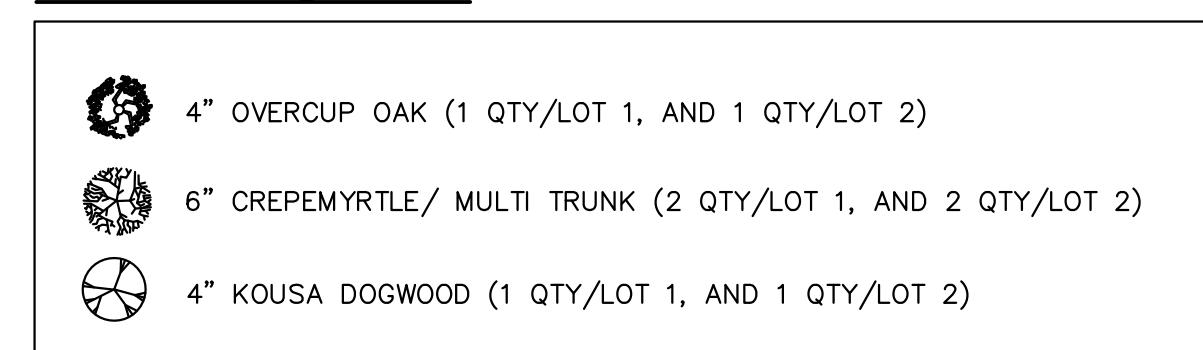
LOT 2:  
REQUIRED DENSITY (100" X 0.194) = 19.4" (20") REQUIRED  
PROVIDED DENSITY = 20" TOTAL REPLACEMENT DBH  
REPLACEMENT TREES:

- 1 QTY - OVERCUP OAK, 4" DBH
- 2 QTY - CREPEMYRTLE MULTI-TRUNK, 6" DBH
- 1 QTY - KOUSA DOGWOOD, 4' DBH

TOTAL REPLACEMENT DBH = 20" SAVED TREES: NONE

SPECIMEN RECOMPENSE:  
0.00" - LOST/DESTROYED = 0.00" REQUIRED RECOMPENSE  
NO SPECIMEN RECOMPENSE REQUIRED

## Tree Legend:



## Specimen/ Boundary Tree Inventory:

SPECIMEN/ BOUNDARY TREES - LOT 1:  
- 38" OAK - SPECIMEN AND BOUNDARY TREE - LOST/DESTROYED

SPECIMEN/ BOUNDARY TREES - LOT 2:  
- 40" OAK - SPECIMEN AND BOUNDARY TREE - SAVED

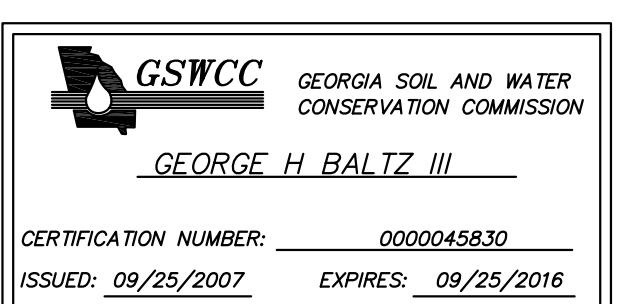
## Soil Legend:

MgB2 - MADISON SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED

## State Waters Notes:

NO PORTIONS OF THIS PROPERTY ARE INSIDE DESIGNATED F.E.M.A. SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13067C0119 H, DATED MARCH 4, 2013.

THERE ARE NO WATERS OF THE STATE OF GEORGIA (LAKES OR STREAMS) WITHIN 200 FEET OF THE SITE. ALL APPROPRIATE STATE WATER BUFFERS ARE SHOWN ON THE SITE PLANS. THERE ARE NO PROPOSED IMPACTS TO ANY STATE WATER BUFFERS.



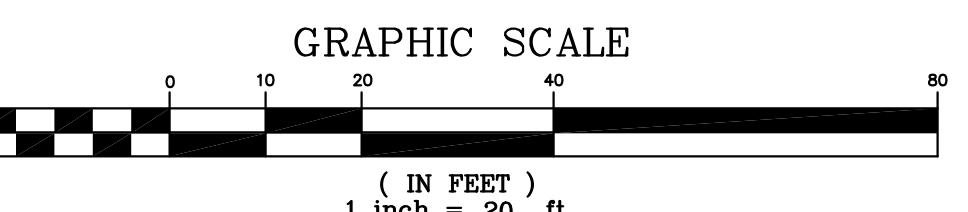
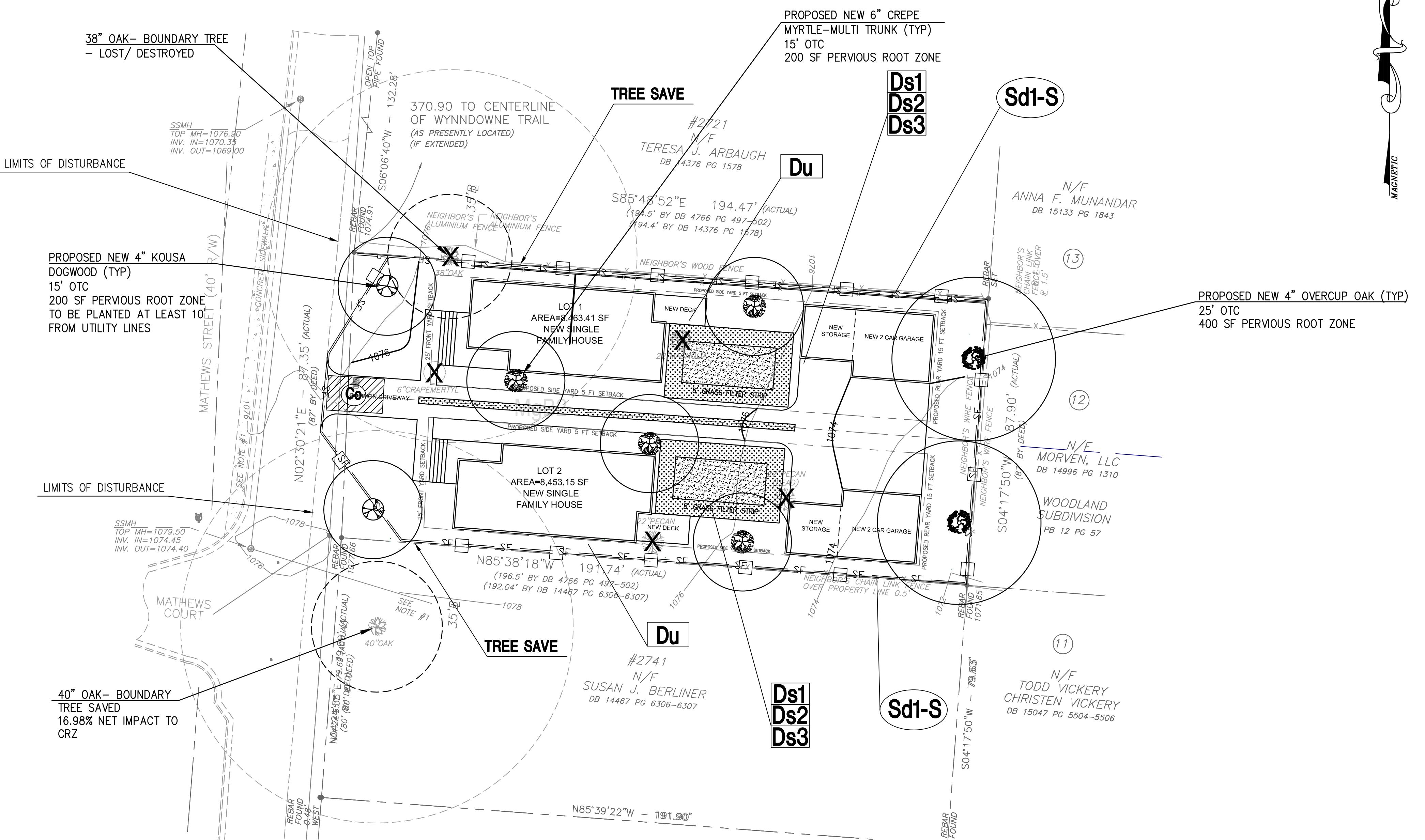
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.  
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR FOR EFFECTIVE EROSION IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.  
ANY DISTURBED AREAS LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.  
ANY DISTURBED AREAS REMAINING IDLE FOR 30 DAYS SHALL BE STABILIZED WITH PERMANENT VEGETATION.



## 2731 Mathews Street

Zoning Plan For  
Land Lot 032 17th District  
City of Smyrna, Georgia

CVE PI # 16-235  
Sheet No. C-2



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Prepared For  
Matt Junger

ESPC And Trees Plan

DATE	8/10/16	REVISIONS
SCALE	AS SHOWN	10-2-16
DRAWN	P2	CITY COMMENTS
CHECKED	GHB	



## APPLICATION OF MULCH

DRY STRAW OR HAY APPLIED TO DEPTH OF 2 - 4 INCHES  
WOOD CHIPS, BARK, SAWDUST APPLIED TO DEPTH OF 2 - 3 INCHES

Ds1

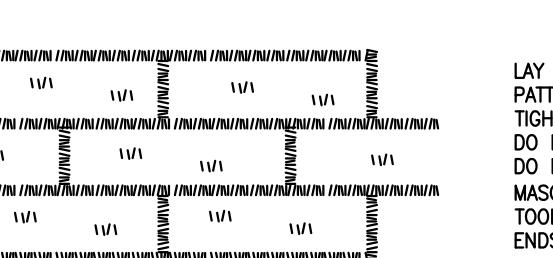
## DUST CONTROL ON DISTURBED AREAS

SITE MUST BE CONTROLLED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION AREAS.  
CONTRACTOR SHALL UTILIZE AN APPROPRIATE METHOD TO CONTROL DUST AS REQUIRED -  
TEMPORARY METHODS: Ds1-MULCHING, Ds2-VEGETATION, AND Ds3-SPRAYS  
PERMANENT METHODS: Ds4-VEGETATION, Ds5-SODDING

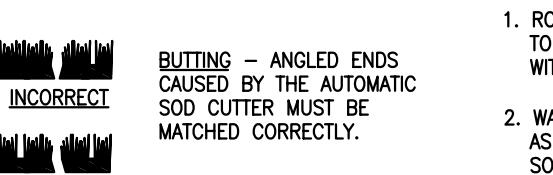
24 HOUR EMERGENCY CONTACT: MATT JUNGER - 404-493-1555

SPECIES	BROADCAST RATES / PLS. 1/2 ACRE	RESOURCE AREA 4/	PLANTING DATES BY RESOURCE AREAS												REMARKS
			TEMPORARY COVER OR COMPANION CROPS			PLANTING DATES BY RESOURCE AREAS			PLANTING DATES BY RESOURCE AREAS			PLANTING DATES BY RESOURCE AREAS			
			J	F	M	A	M	J	J	A	S	O	N	D	
CHAYOTE (CUCURBITA VULGARE)	3 bu. (144 lb.)	3.3 lb. (144 lb.)	M-L P C												14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.
ALONE	3 bu.	3.3 lb.													
IN MIXTURES	1/2 bu. (24 lbs.)	0.6 lb. (24 lbs.)													
LESPEDEZA, ANNUAL (LESPEDEZA STRATIA)	40 lbs.	0.9 lb.	M-L P C												200,000 SEED PER POUND. MAY VOLUNTEER FOR SEEDBEDS. USE INOCULANT EL.
ALONE	10 lbs.	0.2 lb.													
IN MIXTURES															
LOVEGRASS, WEEPING (ERAGROSIS CURVATA)	4 lbs.	0.1 lb.	M-L P C												1,500,000 SEED PER POUND. MAY VOLUNTEER IN YARD. MIX WITH SERICEA LESPEDEZA
ALONE	2 lbs.	0.05 lb.													
MILLET, BROWNTOP (PANICUM PASCIFOLIUM)	40 lbs.	0.9 lb.	M-L P C												137,000 SEED PER POUND. QUICK DROUGHT TOLERANT. PROVIDE TOO MUCH COMPETITION IN MIXTURES. IF USED AT HIGH RATES.
ALONE	10 lbs.	0.2 lb.													

SPECIES	BROADCAST RATES 1/2 PLS. 1/2 ACRE	RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS												REMARKS
			PLANTING DATES BY RESOURCE AREAS			PLANTING DATES BY RESOURCE AREAS			PLANTING DATES BY RESOURCE AREAS			PLANTING DATES BY RESOURCE AREAS			
			J	F	M	A	M	J	J	A	S	O	N	D	
MILLET, PEARL (PENNISETUM GLAUCUM)	50 lbs.	1.1 lb.	M-L P C												8,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. RECOMMENDED FOR MIXTURES.
AVENA SATIVA	30 lbs.	0.7 lb.	M-L P C												13,000 SEED PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
RYE (SECALE CEREALE)	30 lbs.	0.7 lb.	M-L P C												18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL (LACTUCA TEMULIFOLIA)	40 lbs.	0.9 lb.	M-L P C												227,000 SEED PER POUND. QUICK COVER. LOW GROWING & SOD FORMING. COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS (SORGHUM SUDANENSE)	60 lbs.	1.4 lb.	M-L P C												1,787,000 SEED PER POUND. GOOD ON DROUGHT SITES. PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA, COMMON (CYDONIA DACTYLON)	10 lbs.	0.2 lb.	M-L P C												1,787,000 SEED PER POUND. QUICK COVER. ADJACENT TO CONCRETE AND IN CONCRETE PLANTING. REROLLING IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT ON SOILS WITH DISEASES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
BERMUDA, COMMON (CYDONIA DACTYLON) UNROLLED SEED	30 lbs.	0.1 lb.	M-L P C												GOOD FOR ATHLETIC FIELDS.
FESCUE, TALL (FESTUCA ARUNDINACEA)	50 lbs.	1.1 lb.	M-L P C												227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR SOILS WITH DISEASES. MIX WITH PERENNIAL LESPEDEZA OR RYEGRASS. TAPERESSING IS SPRING FOLLOWING FALL PLANTING. PLANT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
BERMUDA, COMMON (CYDONIA DACTYLON) PLANTED SEED	10 lbs.	0.2 lb.	M-L P C												SHOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY. MOVED AT A 2"-3" CUTTING HEIGHT.
WITH OTHER PERENNIALS	6 lbs.	0.1 lb.	M-L P C												THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK. ROOT ZONE - SOIL AND ROOTS SHOULD BE 1/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE GAPS AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.



INCORRECT  
CORRECT

BUTTING - ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.



INCORRECT  
CORRECT

1. ROLL SOD IMMEDIATELY TO GET A FIRM CONTACT WITH THE SOIL.



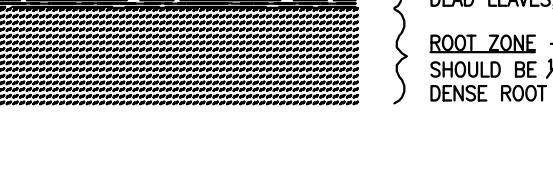
INCORRECT  
CORRECT

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS Laid.



INCORRECT  
CORRECT

3. MOW WHEN THE SOD IS ESTABLISHED 2 TO 3 WEEKS. SET THE MOWER HIGH (2"-3").



INCORRECT  
CORRECT

SHOTS OR GRASS BLADES. GRASS SHOULD BE GREEN AND HEALTHY. MOVED AT A 2"-3" CUTTING HEIGHT.



INCORRECT  
CORRECT

THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK. ROOT ZONE - SOIL AND ROOTS SHOULD BE 1/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.

## SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFGREEN P.C. P.C.	W	WARM WEATHER
BAHIGRASS	PENSACOLA	P.C.	WARM WEATHER
CENTIPEDE	-	P.C.	WARM WEATHER
ST. AUGUSTINE	COMMON RALEIGH	C	WARM WEATHER
ZOYSIA	EMERALD MYER	P.C.	WARM WEATHER
TALL FESCUE	KENTUCKY	M-LP	COOL WEATHER

FERTILIZER REQUIREMENTS FOR SOD			
TYPE OF SPECIES	PLANTING YEAR	FERTILIZER RATE (N-P-K)	RATE (lbs/acre)
COOL SEASON GRASSES	FIRST SECOND	6-12-12 10-10-10	1500 400
WARM SEASON GRASSES	FIRST SECOND	6-12-12 6-12-12	1500 800

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER RATE (N-P-K)	RATE (lbs/acre)
COOL SEASON GRASSES	FIRST SECOND	6-12-12 10-10-10	1500 400
WARM SEASON GRASSES	FIRST SECOND	6-12-12 6-12-12	1500 800
WARM SEASON GRASSES AND LEGUMES	FIRST SECOND	6-12-12 6-12-12	50-100 30

TYPE OF SPECIES	PLANTING YEAR	FERTILIZER RATE (N-P-K)	RATE (lbs/acre)
COOL SEASON GRASSES AND LEGUMES	FIRST SECOND	6-12-12 10-10-10	1500 400
GROUND COVERS	FIRST SECOND	10-10-10 10-10-10	1300 1100
PINE SEEDING	FIRST	20-10-5	ONE 21-GRAM PELLET PLACED IN THE DRAIN HOLE
SHRUB LESPEDEZA	FIRST	0-10-10	700 700