

LEGEND:

| | EXISTING | PROPOSED |
|------------------------|----------|----------|
| CONTOURS | --- | -360- |
| EDGE OF PAVEMENT | --- | --- |
| BUILDING | --- | --- |
| WETLANDS | --- | --- |
| LIMITS OF STATE WATERS | --- | --- |
| BUFFER | --- | --- |
| EASEMENT | --- | --- |
| CLEARING | --- | --- |
| MINIMUM BUILDING LINE | --- | --- |
| PROPERTY LINE | --- | --- |
| LOT LINE | --- | --- |
| CENTER LINE | --- | --- |
| SILT FENCE | --- | -X-X- |

- 43 STATE WATERS:
THERE ARE NO STATE WATERS ON OR WITHIN 200 FEET OF THIS SITE.
- 43 IMPAIRED STREAMS:
NO CONSTRUCTION ACTIVITY IS TAKING PLACE WITHIN 1 LINEAR MILE OF AN IMPAIRED STREAM SEGMENT.
- 44 JURISDICTIONAL WATERS:
THERE ARE NO JURISDICTIONAL WATERS PRESENT ON OR WITHIN 200 FEET OF THIS LOT.
- FEMA FLOOD ZONE:
NO PORTION OF PROPERTY IS IN THE FLOOD HAZARD AREA PER FIRM PANEL 13163C0175C, & FIRM PANEL 13163C0135C DATED DECEMBER 17, 2010.

SURVEY DATA:

1. TOPOGRAPHIC SURVEY PREPARED BY JACHENS LAND SURVEYING, INC. P.O. BOX 16 EVANS, GA 30809 PH: (706) 299-8721, DAVID L. JACHENS, REGISTERED PROFESSIONAL LAND SURVEYOR NO. 3170, DATED OCTOBER 10, 2022.

SOILS DATA:

| MAP SYMBOL | DESCRIPTION | SLOPE | REGION |
|------------|-------------------|----------------------|----------|
| FuB | FUQUAY LOAMY SAND | 0% TO 5% | PIEDMONT |
| NaB | NANKIN LOAMY SAND | 2% TO 5% | PIEDMONT |
| Ra | RAINS SANDY LOAM | OCCASIONALLY FLOODED | PIEDMONT |
| DoB | DOTHAN LOAMY SAND | 2% TO 5% | PIEDMONT |

12 SITE VISIT CERTIFICATION

I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

William J. Carter, Jr.
Design Professional

13 CERTIFICATION

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of Best Management Practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GA8 100020.

William J. Carter, Jr.
Design Professional



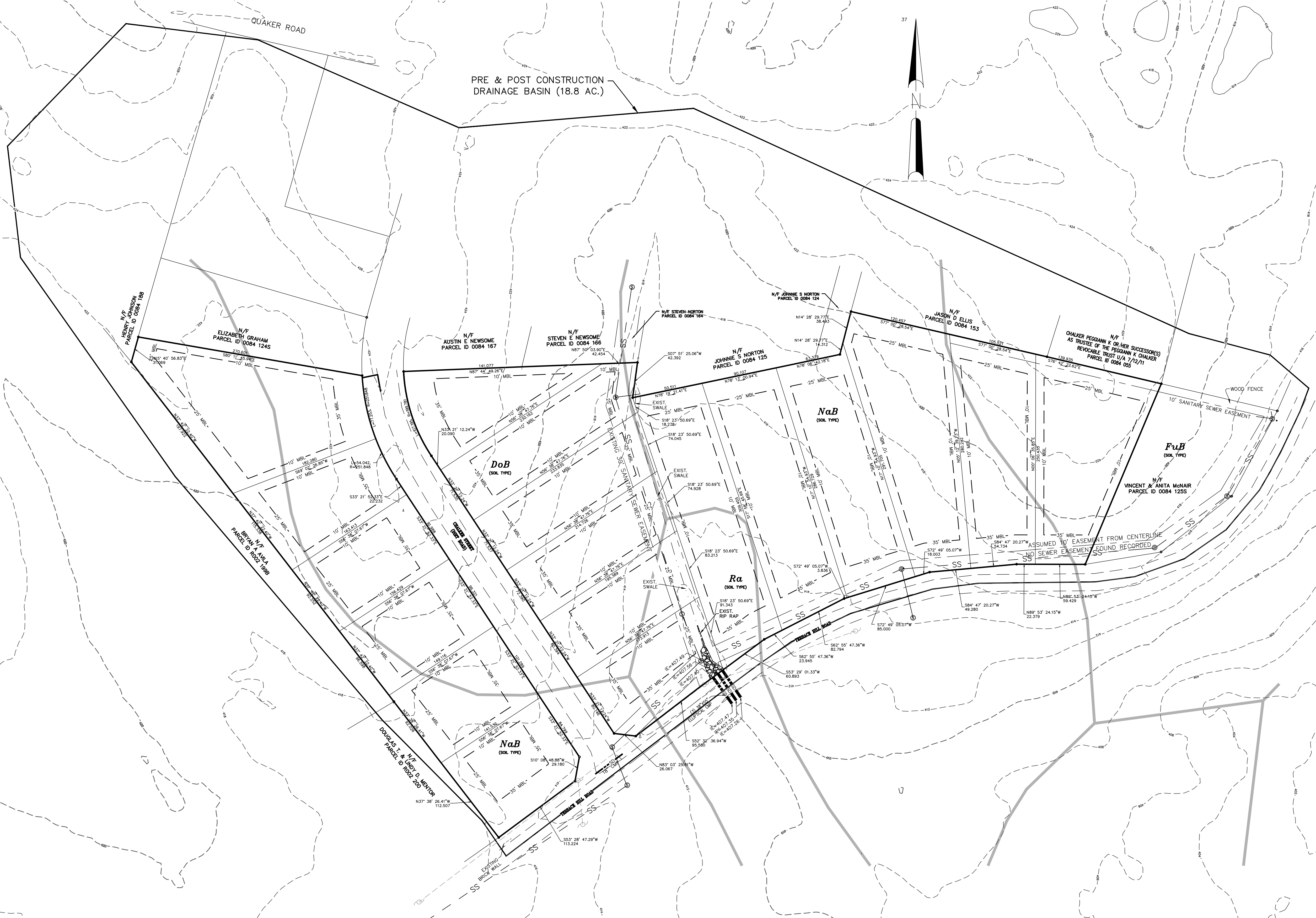
Know what's below. Call before you dig.
Soil erosion control measures must be in place prior to any land disturbing activity.

NARRATIVE:

THE PROPOSED SUBDIVISION IS BEING DEVELOPED OFF OF EXISTING ROADS. THEREFORE NO NEW ROADS WILL BE CONSTRUCTED. CONSTRUCTION WILL CONSIST OF (18) SINGLE FAMILY HOME CONSTRUCTION ONLY. THE PROJECT AREA IS 8.2 ACRES OF LAND IN WRENS, GEORGIA. THE PROJECT SITE IS CURRENTLY UNDEVELOPED. SITE IS IDENTIFIED AS 314 OLD QUAKER ROAD (PARCEL ID: 0084 123S) LOCATED IN JEFFERSON COUNTY, GA. THERE ARE NO CRITICAL AREAS WITHIN THE PROJECT AREA. THE RECEIVING WATERS FOR THIS PROJECT IS HADDEN BRANCH.

**PROJECT DATA
TERRACE HILL- CHALKER STREET SUBDIVISION**

PROJECT NAME: TERRACE HILL-CHALKER STREET SUBDIVISION
 LOCAL ISSUING AUTHORITY: JEFFERSON COUNTY
 CURRENT LAND USE: UNDEVELOPED
 PROPOSED LAND USE: RESIDENTIAL SUBDIVISION
 OWNER: WHITE OAK BUILDERS, LLC
 509 N MAIN STREET
 WRENS, GA 30833
 PH: (706) 364-7697
 24 HOUR CONTACT: CALEB WILLING (WHITE OAK BUILDERS, LLC)
 (706) 825-5086
 wobuildersllc@gmail.com
 PARCEL ID: 0084 123S
 CURRENT ZONING: R-1A
 TOTAL ACREAGE: 8.2 ACS.
 DISTURBED AREA: 8.0 ACS.
 OVERALL DRAINAGE AREA: 18.8 ACS.

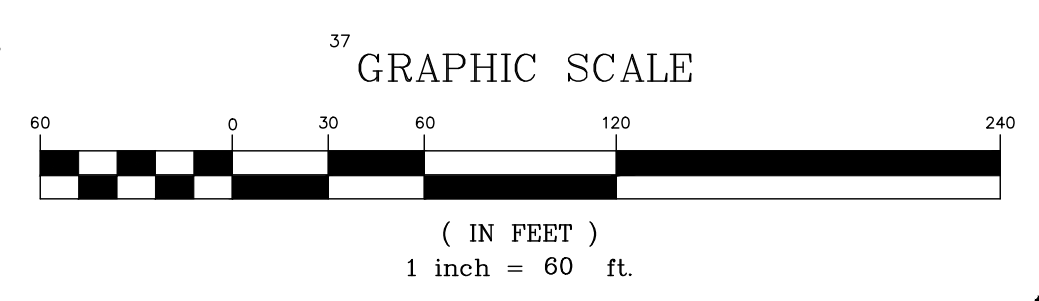


BLUEWATER ENGINEERING SERVICES
 P.O. BOX 617 EVANS, GA 30809
 OFFICE: (706) 364-5220
 FAX: (706) 364-5221

| DATE: | 07/31/2023 |
|--|------------|
| A. RELEASED FOR REVIEW BY JEFFERSON COUNTY | 06/26/2023 |
| B. REVISED PER GSWCC COMMENTS (PR#KRH221) | |

TERRACE HILL- CHALKER STREET SUBDIVISION
 CITY OF WRENS - JEFFERSON COUNTY, GEORGIA
EXISTING CONDITIONS

DRAWN BY: LSF
 JOB NO: 1003.0
 SHEET NUMBER:
1 OF 5





NOTE REGARDING MATERIAL STORAGE:

BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

SPECIAL NOTES:

1. BUILDER SHALL VERIFY PROPERTY LINE, MINIMUM BUILDING LINES AND EASEMENTS PRIOR TO CONSTRUCTION.

DELINEATION OF DRAINAGE BASIN

CONTRIBUTING DRAINAGE BASIN FOR THE LOT IS THE SAME AS THE SITE AREA (5.2 ACRES) THE PRE-DEVELOPMENT C-VALUE IS ESTIMATED TO BE 0.60 FOR RESIDENTIAL, HILLY TERRAIN.
 47. POST-DEVELOPMENT RUNOFF C-VALUE IS ESTIMATED TO BE 0.60 FOR RESIDENTIAL, HILLY TERRAIN.

BMP MEASURES FOR CONSTRUCTION

THE FOLLOWING MEASURES SHALL BE USED TO REDUCE POLLUTANTS IN STORMWATER DISCHARGES:

- CONSTRUCTION EXIT "Cw"
- SILT FENCE "Sd1"
- TEMPORARY / PERMANENT VEGETATION "Da2 & Da3"
- DUST CONTROL (IF REQUIRED) "Du"
- CONCRETE WASTE MANAGEMENT FACILITY "Cw"

BMP MEASURES TO REMAIN PERMANENTLY

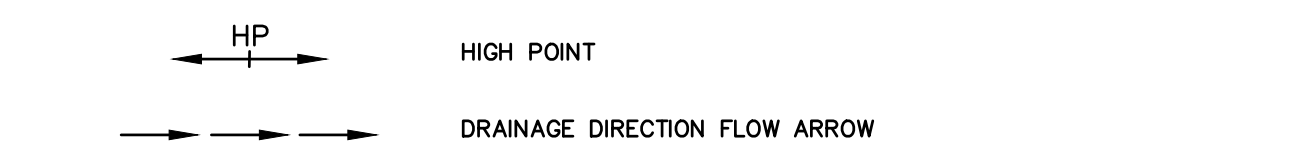
THE FOLLOWING MEASURES SHALL REMAIN ON THE SITE AS PERMANENT FEATURES TO CONTROL POLLUTANTS IN THE STORMWATER:

- PERMANENT VEGETATION

LOT GRADING & DRAINAGE REQUIREMENTS:

1. LOT SHALL BE GRADED TO ENSURE THAT DRAINAGE IS DIRECTED AWAY FROM ADJOINING LOTS.
2. INSTALL SIDE LOT LINE SWALES IF NECESSARY TO ENSURE THAT ALL DRAINAGE FROM THE LOT IS DIRECTED TOWARD THE FLOW ARROWS ON PLAN SHOWS.
3. LOT SHALL BE GRADED TO DIRECT DRAINAGE AWAY FROM THE PROPOSED STRUCTURE. THIS INCLUDES THE BUILDING PAD/FINISHED FLOOR ELEVATION.
4. CONTRACTOR TO INSTALL DRIVEWAY CULVERT ON EACH LOT.

DRAINAGE LEGEND:



SEDIMENT STORAGE CALCULATIONS

OVERALL SITE = 8.2 AC.
 LIMITS OF DISTURBANCE = 8.0 AC.
 REQUIRED SEDIMENT STORAGE = 67 C.Y./AC. X 8.0 AC. = 536 C.Y.
 SEDIMENT STORAGE PROVIDED:
 SILT FENCE (Sd1): 0.25 ACRES * 100 LF Sd1
 0.25 ACRES * 10,260.55 LF Sd1 = 25.65 ACRES * 67 C.Y./AC. = 1,718.6 C.Y.
 TOTAL SEDIMENT STORAGE PROVIDED: 1,718.6 C.Y.

| Sediment Storage - Silt Fence (Sd1) | | | | | | |
|--|-------|-------------|----------|---------------|----------------|--|
| Equation: 0.25 acres / 100 LF Sd1 | | | | | | |
| (0.25 ac / 100 lf) * Length = Acres * 67 cu yd./ac = Volume (cu yd.) | | | | | | |
| Lot | Acres | Length | Equation | Required | Provided | |
| 1 | 0.72 | 738.539 lf | 1.85 ac | 48.24 cu yd. | 123.71 cu yd. | |
| 2 | 0.37 | 516.16 lf | 1.29 ac | 24.79 cu yd. | 86.46 cu yd. | |
| 3 | 0.34 | 484.059 lf | 1.21 ac | 22.78 cu yd. | 81.08 cu yd. | |
| 4 | 0.34 | 478.441 lf | 1.20 ac | 22.78 cu yd. | 80.14 cu yd. | |
| 5 | 0.34 | 473.487 lf | 1.18 ac | 22.78 cu yd. | 79.31 cu yd. | |
| 6 | 0.34 | 461.736 lf | 1.15 ac | 22.78 cu yd. | 77.34 cu yd. | |
| 7 | 0.34 | 384.544 lf | 0.96 ac | 22.78 cu yd. | 64.41 cu yd. | |
| 8 | 0.34 | 444.024 lf | 1.11 ac | 22.78 cu yd. | 74.37 cu yd. | |
| 9 | 0.34 | 468.396 lf | 1.17 ac | 22.78 cu yd. | 78.46 cu yd. | |
| 10 | 0.37 | 504.963 lf | 1.26 ac | 24.79 cu yd. | 84.58 cu yd. | |
| 11 | 0.41 | 572.817 lf | 1.43 ac | 27.47 cu yd. | 95.95 cu yd. | |
| 12 | 0.34 | 566.542 lf | 1.42 ac | 22.78 cu yd. | 94.90 cu yd. | |
| 13 | 0.62 | 749.64 lf | 1.87 ac | 41.54 cu yd. | 125.56 cu yd. | |
| 14 | 0.6 | 721.111 lf | 1.80 ac | 40.2 cu yd. | 120.79 cu yd. | |
| 15 | 0.55 | 692.488 lf | 1.73 ac | 36.85 cu yd. | 115.99 cu yd. | |
| 16 | 0.68 | 746.035 lf | 1.87 ac | 45.56 cu yd. | 124.96 cu yd. | |
| 17 | 0.54 | 638.712 lf | 1.60 ac | 36.18 cu yd. | 106.98 cu yd. | |
| 18 | 0.58 | 618.862 lf | 1.55 ac | 38.86 cu yd. | 103.66 cu yd. | |
| | 8.16 | 10260.55 lf | 25.65 ac | 546.72 cu yd. | 1718.64 cu yd. | |

25. ONSITE WASHDOWN OF CONCRETE PRODUCTS IS NOT ANTICIPATED FOR THIS LOTS. IF WASHOUT IS PERFORMED ON SITE, BUILDER SHALL ERECT A WASHOUT FACILITY IN ACCORDANCE WITH THE DETAIL ON SHEET #4

DUE TO THE FACT THAT THIS PLAN COVERS INDIVIDUAL LOT BUILDING, A PHASED PLAN IS NOT NEEDED.

NOTE REGARDING FILING OF THE N.O.T. COLUMBIA COUNTY WILL REQUIRE PROOF THAT THE N.O.T. HAS BEEN FILED PRIOR TO RELEASING A CERTIFICATE OF OCCUPANCY. BUILDER MAY ELECT TO INSTALL SOD (Ds4) IN LIEU OF SEED & STRAW IF NECESSARY TO STABILIZE THE LOT.

NOTE: ALTERNATIVE TYPE "C" FENCE PRODUCTS AS IDENTIFIED IN THE GDOT QUALIFIED PRODUCTS LIST #36 (QPL#36) MAY BE USED ON THIS PROJECT.

NOTE: THIS PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL AND SANITARY SEWER REGULATIONS THROUGH THE TEMPORARY USE OF PORTABLE FACILITIES AND A PERMANENT CONNECTION TO A SANITARY SEWER SYSTEM.

STREAM BUFFER ENCROACHMENTS & PROTECTION OF STATE WATERS:

41. THERE ARE NO STATE WATERS PRESENT ON OR WITHIN 200 FEET OF THIS LOT.
15. ONLY ACTIVITIES WHICH ARE EXEMPT FROM THE STREAM BUFFER REQUIREMENTS MAY BE CONDUCTED ON THIS SITE. 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 COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
16. THE BUFFER REQUIREMENTS FOR THIS PROJECT SHALL BE 25 FEET FROM THE POINT OF WRESTED VEGETATION. THERE ARE NO BUFFERS ON THIS LOT. NO BUFFER VARIANCE REQUIRED.
15. THERE ARE NO NON-EXEMPT ACTIVITIES PROPOSED FOR THESE LOTS.
18. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
18. NO 404 PERMIT HAS BEEN AUTHORIZED FOR THESE LOTS, THEREFORE NO WASTE MATERIALS SHALL BE DISCHARGED INTO STATE WATERS.

19. 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.

20. 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.

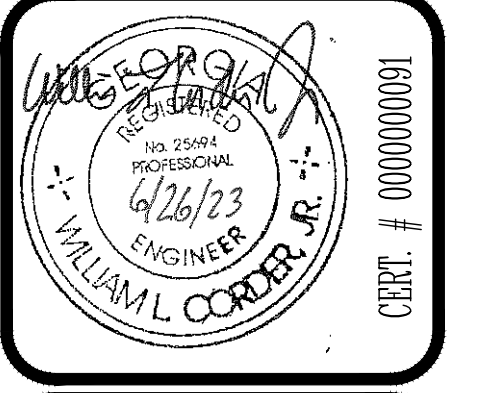
21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED ON SITE FOR EVERY 10 WORKERS. A LICENSED FACILITY PROVIDER SHALL DISPOSE OF SANITARY WASTE, AT LEAST ONE TIME PER WEEK, IN ACCORDANCE WITH LOCAL/STATE REGULATIONS.

SANITARY WASTE FACILITIES SHALL BE LOCATED SO AS TO MINIMIZE THE POSSIBILITY OF WASTE ENTERING THE STORM WATER SYSTEM, WATERS OF THE STATE OR WETLAND AREAS.

THE SITE CONTRACTOR SHALL DETERMINE THE APPROPRIATE LOCATION OF THE PORTABLE WASTE FACILITIES ON THE SITE AND MARK THE LOCATION(S) ON THE SITE COPY OF THE APPROVED SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

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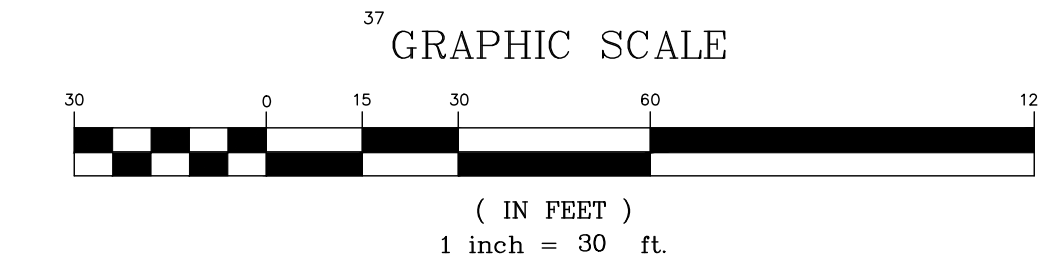


| DATE: | 07/31/2023 |
|--|------------|
| A. RELEASED FOR REVIEW BY JEFFERSON COUNTY | 06/26/2023 |
| B. REVISED PER GSWCC COMMENTS (DPK/RH/221) | |

TERRACE HILL- CHALKER STREET SUBDIVISION
 CITY OF WELLS - JEFFERSON COUNTY, GEORGIA
ES&PCP (1 OF 2)

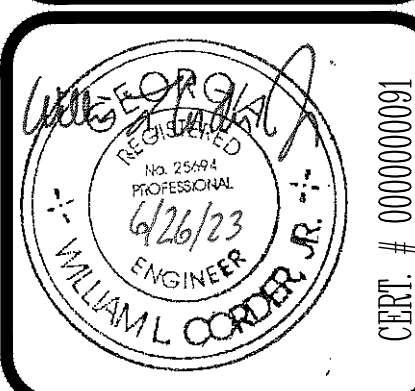
DRAWN BY: LSF
 JOB NO: 1003.0

SHEET NUMBER:
2 OF 5



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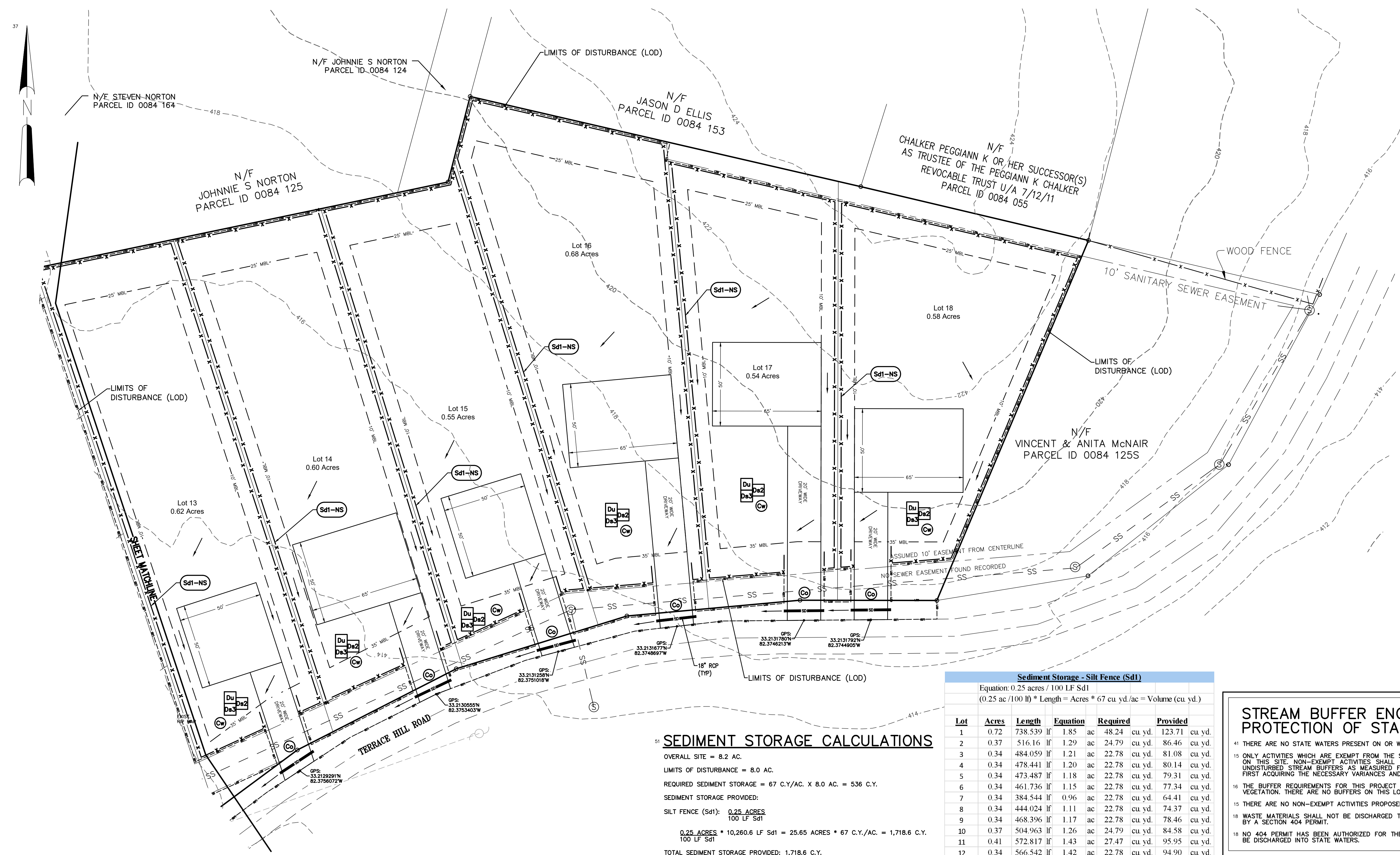


DATE: 07/31/2023
06/26/2023

A. RELEASED FOR REVIEW BY JEFFERSON COUNTY
B. REVISED PER GSWCC COMMENTS (PR#RHR221)

TERRACE HILL- CHALKER STREET SUBDIVISION
CITY OF WRENS - JEFFERSON COUNTY, GEORGIA
ES&PCP (2 OF 2)

DRAWN BY: LSF
JOB NO: 1003.0
SHEET NUMBER: 3 OF 5



51 SEDIMENT STORAGE CALCULATIONS

OVERALL SITE = 8.2 AC.
LIMITS OF DISTURBANCE = 8.0 AC.
REQUIRED SEDIMENT STORAGE = 67 C.Y./AC. X 8.0 AC. = 536 C.Y.
SEDIMENT STORAGE PROVIDED:
SILT FENCE (Sd1): 0.25 ACRES
100 LF Sd1
0.25 ACRES * 10,260.6 LF Sd1 = 25.65 ACRES * 67 C.Y./AC. = 1,718.6 C.Y.
TOTAL SEDIMENT STORAGE PROVIDED: 1,718.6 C.Y.

| Sediment Storage - Silt Fence (Sd1) | | | | | | |
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| Equation: 0.25 acres / 100 LF Sd1 | | | | | | |
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STREAM BUFFER ENCROACHMENTS & PROTECTION OF STATE WATERS:

- 41 THERE ARE NO STATE WATERS PRESENT ON OR WITHIN 200 FEET OF THIS LOT.
- 15 ONLY ACTIVITIES WHICH ARE EXEMPT FROM THE STREAM BUFFER REQUIREMENTS MAY BE CONDUCTED ON THIS SITE. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
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- 18 WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
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THE SITE CONTRACTOR SHALL DETERMINE THE APPROPRIATE LOCATION OF THE PORTABLE WASTE FACILITIES ON THE SITE AND MARK THE LOCATION(S) ON THE SITE COPY OF THE APPROVED SOIL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

NOTE REGARDING MATERIAL STORAGE:

BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC SHEETING OR TEMPORARY ROOFS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

SPECIAL NOTES:

- 1. BUILDER SHALL VERIFY PROPERTY LINE, MINIMUM BUILDING LINES AND EASEMENTS PRIOR TO CONSTRUCTION.

45 DELINEATION OF DRAINAGE BASIN

CONTRIBUTING DRAINAGE BASIN TO THE CULVERTS AT TERRACE HILL ROAD IS 18.2 ACRES. HOWEVER, THE MAJORITY OF THE OVERALL DRAINAGE BASIN IS CONVEYED ALONG A ROADWAY AND A SEWER EASEMENT AND DOES NOT PASS THROUGH THE DISTURBED PORTION OF THE PROJECT. THE PRE-DEVELOPMENT AND POST-DEVELOPMENT DRAINAGE AREA IS THE SAME. THE PRE-DEVELOPMENT C-VALUE IS ESTIMATED TO BE 0.60 FOR RESIDENTIAL, HILLY TERRAIN. POST-DEVELOPMENT RUNOFF C-VALUE IS ESTIMATED TO BE 0.60 FOR RESIDENTIAL, HILLY TERRAIN.

28/724 BMP MEASURES FOR CONSTRUCTION

- THE FOLLOWING MEASURES SHALL BE USED TO REDUCE POLLUTANTS IN STORMWATER DISCHARGES:
- CONSTRUCTION EXIT "Co"
 - SILT FENCE "Sd1"
 - TEMPORARY / PERMANENT VEGETATION "Ds2 & Ds3"
 - DUST CONTROL (IF REQUIRED) "Du"
 - CONCRETE WASTE MANAGEMENT FACILITY "Cw"

28/724 BMP MEASURES TO REMAIN PERMANENTLY

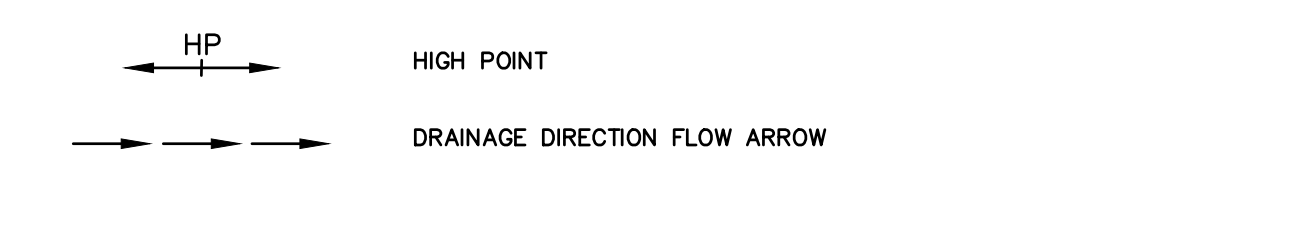
THE FOLLOWING MEASURES SHALL REMAIN ON THE SITE AS PERMANENT FEATURES TO CONTROL POLLUTANTS IN THE STORMWATER:

- PERMANENT VEGETATION

LOT GRADING & DRAINAGE REQUIREMENTS:

1. LOT SHALL BE GRADED TO ENSURE THAT DRAINAGE IS DIRECTED AWAY FROM ADJOINING LOTS.
2. INSTALL SIDE LOT LINE SWALES IF NECESSARY TO ENSURE THAT ALL DRAINAGE FROM THE LOT IS DIRECTED TOWARD THE FLOW ARROWS ON PLAN SHOWS.
3. LOT SHALL BE GRADED TO DIRECT DRAINAGE AWAY FROM THE PROPOSED STRUCTURE. THIS INCLUDES THE BUILDING PAD/FINISHED FLOOR ELEVATION.
4. CONTRACTOR TO INSTALL DRIVEWAY CULVERT ON EACH LOT.

DRAINAGE LEGEND:



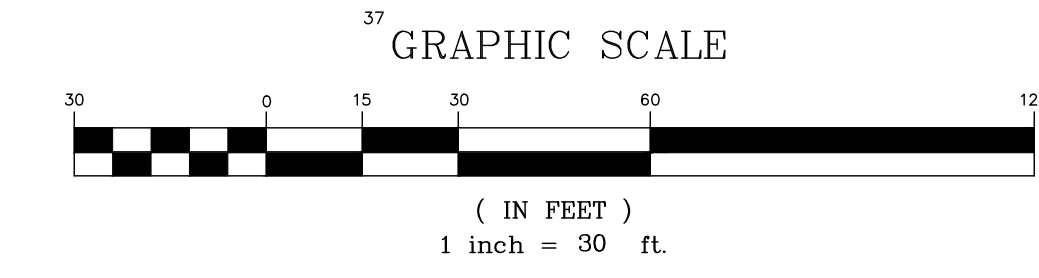
25 ONSITE WASHDOWN OF CONCRETE PRODUCTS IS NOT ANTICIPATED FOR THIS LOTS. IF WASHOUT IS PERFORMED ON SITE, BUILDER SHALL ERRECT A WASHOUT FACILITY IN ACCORDANCE WITH THE DETAIL ON SHEET #4

DUE TO THE FACT THAT THIS PLAN COVERS INDIVIDUAL LOT BUILDING, A PHASED PLAN IS NOT NEEDED.

NOTE REGARDING FILING OF THE N.O.T. COLUMBIA COUNTY WILL REQUIRE PROOF THAT THE N.O.T. HAS BEEN FILED PRIOR TO RELEASING A CERTIFICATE OF OCCUPANCY. BUILDER MAY ELECT TO INSTALL SOD (Ds4) IN LIEU OF SEED & STRAW IF NECESSARY TO STABILIZE THE LOT.

NOTE: ALTERNATIVE TYPE "C" FENCE PRODUCTS AS IDENTIFIED IN THE GDOT QUALIFIED PRODUCTS LIST #36 (QPL#36) MAY BE USED ON THIS PROJECT.

NOTE: THIS PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL AND SANITARY SEWER REGULATIONS THROUGH THE TEMPORARY USE OF PORTABLE FACILITIES AND A PERMANENT CONNECTION TO A SANITARY SEWER SYSTEM.



50 GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

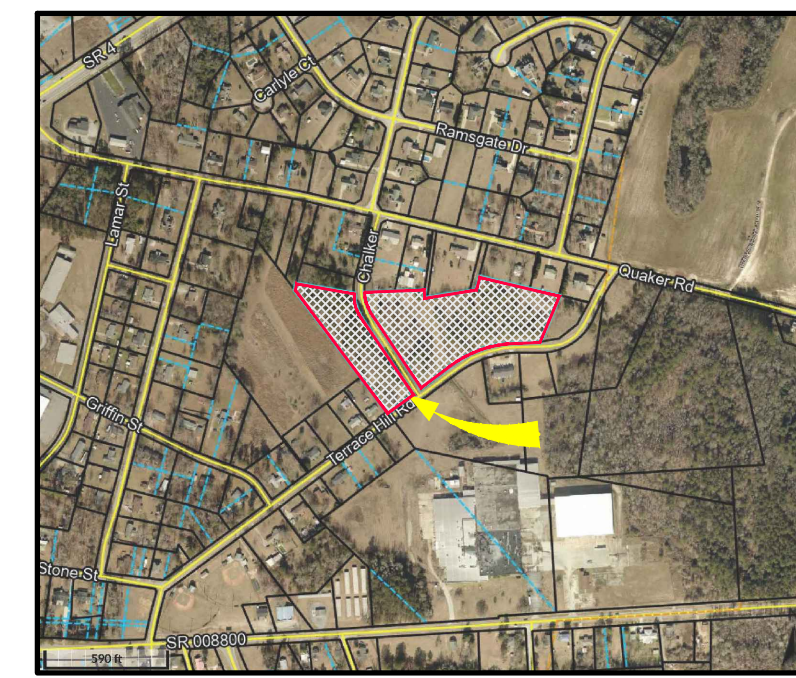
| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|-------------------|--------|------------|--|
| Co | CONSTRUCTION EXIT | | | A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS. |
| Sd1 | SEDIMENT BARRIER | | | 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 SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE. |
| Tr | TREE PROTECTION | | | TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY. |

POLLUTION CONTROL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|------------------------------------|--------|------------|--|
| Cw | CONCRETE WASTE MANAGEMENT FACILITY | | | A TEMPORARY FACILITY ESTABLISHED FOR THE CLEANING OF TOOLS AND EQUIPMENT USED IN POURING CONCRETE. |

VEGETATIVE PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|--|--------|------------|--|
| Ds2 | DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) | | | ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS. |
| Ds3 | DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) | | | ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS. |
| Du | DUST CONTROL ON DISTURBED AREAS | | | CONTROLLING SURFACE AND AIR MOVEMENT DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES. |



10 LOCATION MAP

NO SCALE
INITIAL RECEIVING WATER:
UNNAMED TRIBUTARY TO HADDEN BRANCH

NARRATIVE:

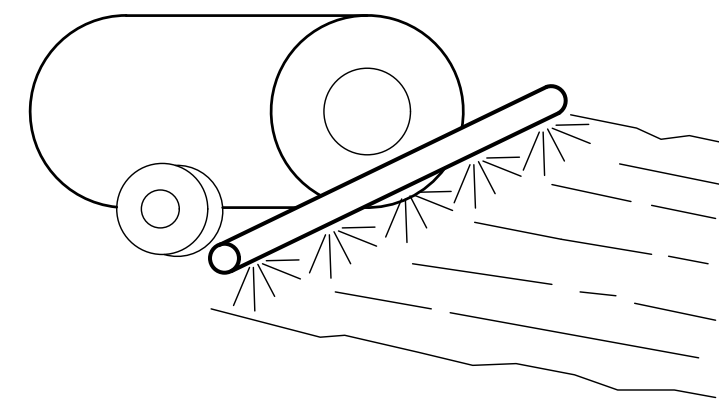
- THE PROPOSED SUBDIVISION SHALL BE DEVELOPED OFF OF EXISTING ROADS. THEREFORE, NO NEW ROADS WILL BE CONSTRUCTED. CONSTRUCTION WILL CONSIST OF 18 SINGLE FAMILY HOMES ON RECENTLY SUBDIVIDED LOTS. THE PROJECT AREA INCLUDES 8.2 ACRES OF LAND IN WRENS, GEORGIA. THE PROJECT SITE IS CURRENTLY UNDEVELOPED. SITE IS IDENTIFIED AS 314 OLD QUAKER ROAD (PARCEL ID: 0084 123S) LOCATED IN JEFFERSON COUNTY, GA.
- THERE ARE NO CRITICAL AREAS WITHIN THE PROJECT AREA. THE RECEIVING WATERS FOR THIS PROJECT IS HADDEN BRANCH.

PETROLEUM PRODUCTS:

- NO PROVISION HAS BEEN MADE FOR FUEL OR OIL STORAGE FACILITIES ON THE PROJECT SITE. UNLESS A PLAN REVISION IS AUTHORIZED AND APPROVED, NO FUEL OR OIL STORAGE FACILITY SHALL BE LOCATED ON THE SITE AT ANY TIME.
- ANY SPILLS OR LEAKS SHALL BE REMEDIATED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- A DESIGNATED REFUELING AREA SHALL BE ESTABLISHED BY THE CONTRACTOR. THE AREA SHALL BE LOCATED AS FAR AS POSSIBLE FROM WATERS OF THE STATE AND/OR WATERS OF THE U.S. LOCATIONS ADJACENT TO DRAINAGE DITCHES AND OTHER SENSITIVE AREAS SHALL BE AVOIDED. AREA SHALL BE SELECTED SO AS TO PROVIDE LOCALIZED CONTAINMENT OF ANY SPILLS.
- ALL REFUELING SHALL TAKE PLACE AT THE DESIGNATED REFUELING AREA. OFFSITE EQUIPMENT USED FOR REFUELING SHALL NOT REMAIN ON THE SITE AFTER REFUELING IS COMPLETE.
- DAILY INSPECTIONS SHALL TAKE PLACE TO EVALUATE THE PRESENCE OF, OR POTENTIAL FOR, FUEL AND/OR OIL SPILLS AND LEAKS. AT A MINIMUM, THE FOLLOWING MUST BE PERFORMED:
 - INSPECT REFUELING AREA FOR EVIDENCE OF SPILLS AND/OR LEAKS
 - INSPECT ALL EQUIPMENT FOR FUEL/OIL LEAKS
 - INSPECT AREAS OF THE SITE WHERE EQUIPMENT HAS OPERATED FOR SPILLS AND/OR LEAKS
 - IF SPILLS OR LEAKS ARE FOUND, TAKE IMMEDIATE ACTIONS TO REMEDIATE
 - PREPARE A DETAILED REPORT OF THE INSPECTION, FINDINGS AND REMEDIAL ACTIONS, IF ANY.
- REPORTS SHALL BE RETAINED IN ACCORDANCE WITH THE "RETENTION OF RECORDS" SECTION HEREIN.
- IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER (NRC) AT 1-800-424-8802.

NOTES:

- BROADCAST RATE IS FOR 100% PURE LIVE SEED (PLS). ADJUST RATE BASED ON PLS FOR SEED USED.
- REDUCE SEEDING RATES 50% WHEN DRILLED.
- DO NOT USE RYE GRASS IN MIXTURES W/ PERENNIAL SEED. IT WILL OUT-COMPETE DESIRED SPECIES FOR PERMANENT COVER.
- UNLESS HYDROSEEDING, APPLY LIME BEFORE LAND PREPARATION.
- APPLY FERTILIZER APPROXIMATELY SIX WEEKS AFTER PERMANENT SEEDING.
- APPLY DRY STRAW MULCH TO TEMPORARY AND PERMANENT SEEDING. APPLICATION RATE = 2.5 TON/AC.
- CONSTRUCT TEMPORARY DIVERSIONS OR OTHER MEASURES AS NEEDED TO PROTECT NEWLY SEEDBED AREAS.
- PERMANENT SEEDBED AREAS SHALL BE PREPARED BY RIPPING AND SPREADING A MINIMUM OF 3 INCHES TOPSOIL. PERMANENT SEEDBED AREAS SHALL BE SMOOTH, UNIFORM AND FREE OF ANY ROCKS, ROOTS, OR OTHER MATTER WHICH WILL INHIBIT MAINTENANCE.
- WHERE NO SOIL TEST HAS BEEN TAKEN, APPLY LIME AND FERTILIZER ACCORDING TO THE SCHEDULE. WHEN SOIL TEST RESULTS ARE AVAILABLE, APPLY LIME AND FERTILIZER ACCORDING TO TEST RESULTS.
- ALL DISTURBED AREAS SHALL BE SEEDBED WITH PERMANENT VEGETATION IN ACCORDANCE WITH THE SEEDING SCHEDULE.
- BARE AREAS AND RILLS SHALL BE RESEEDED UNTIL PERMANENT VEGETATION IS ESTABLISHED. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS NEEDED TO ESTABLISH STABILIZATION.

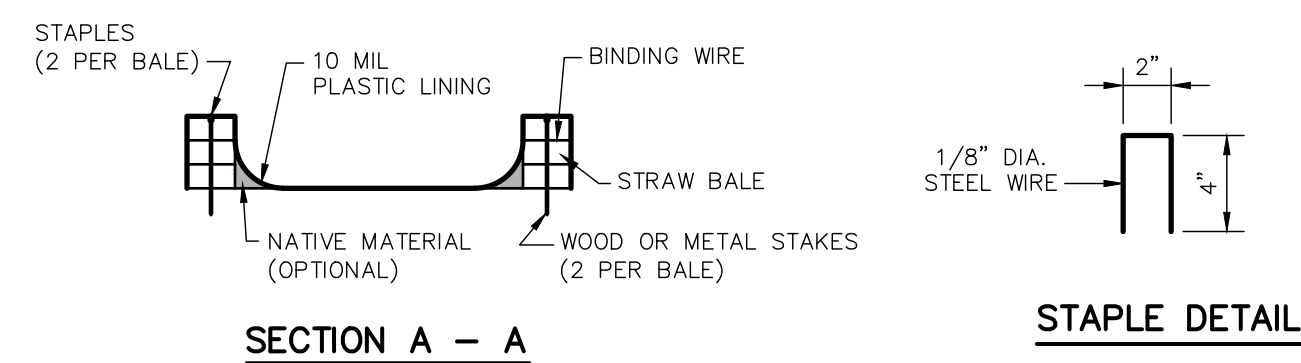


NOTES:

- DUST SHALL BE CONTROLLED ON THE JOB SITE BY MEANS OF A WATERTRUCK. CONTRACTOR SHALL ENSURE THAT AN ADEQUATE WATER SOURCE EXISTS.

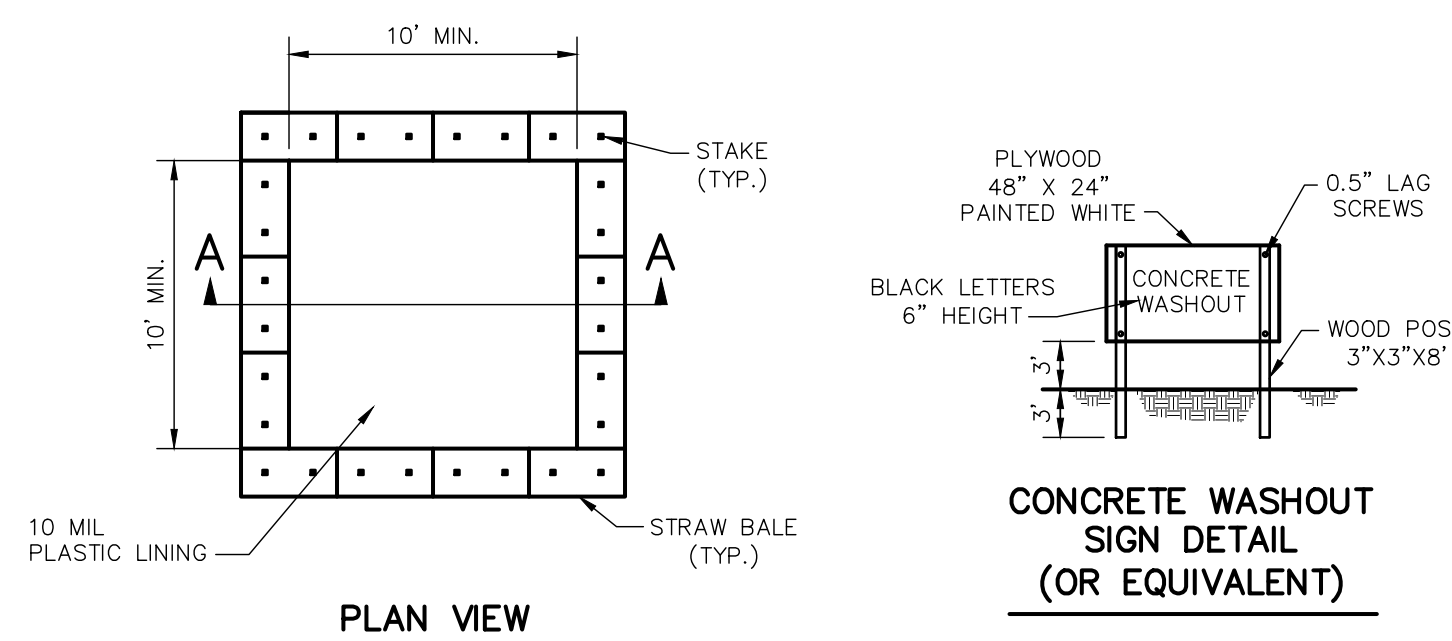
Du DUST CONTROL

NO SCALE



SECTION A - A

STAPLE DETAIL



PLAN VIEW

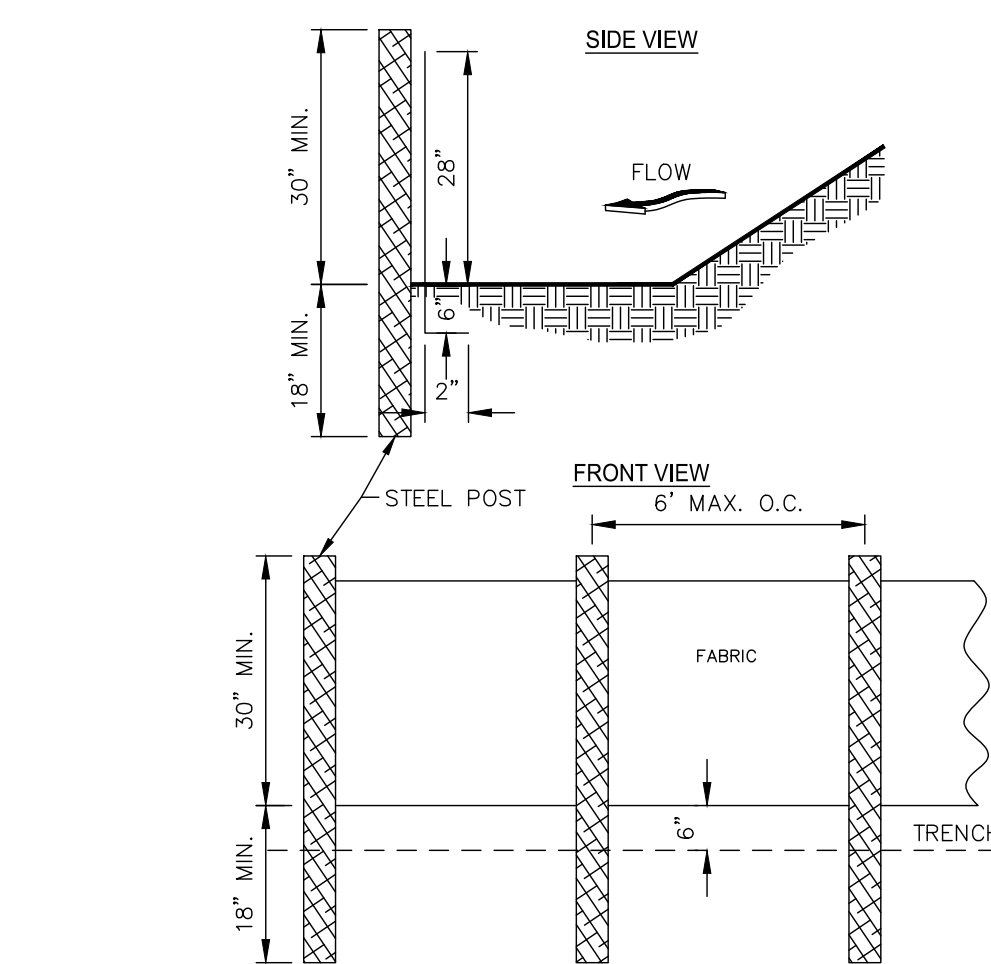
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASTE MANAGEMENT FACILITY.
- CONCRETE TRUCKS SHALL NOT WASH OUT DRUMS OR DISCHARGE SURPLUS CONCRETE ON-SITE.
- WASHOUT OF CHUTES, HOPPERS, TOOLS, CONCRETE PUMPS, ETC., SHALL BE PERMITTED PROVIDED ALL WASHING IS CONDUCTED AT THE CONCRETE WASTE MANAGEMENT AREA ONLY.
- CONCRETE WASTE MANAGEMENT FACILITIES SHALL BE LOCATED AS SHOWN ON THE SITE PLAN AND SHALL BE AT LEAST 50 FEET AWAY FROM STORMDRAINS, OPEN DITCHES, WETLANDS, OR WATER BODIES. APPROPRIATE GRAVEL/ROCK DRIVE PATHS SHOULD BE PROVIDED FOR ACCESS TO THE FACILITIES, WHEN NECESSARY.
- CONCRETE WASTE MANAGEMENT FACILITIES SHOULD BE INSPECTED DAILY AND CLEANED OUT WHEN THEY HAVE BEEN FILLED TO 75% CAPACITY.
- HARDENED SOLID MATERIALS CAN BE REUSED ON-SITE AS DEEMED APPROPRIATE OR HAULED OFF AND DISPOSED OF AT AN APPROPRIATE CONCRETE DISPOSAL/RECYCLING FACILITY.

Cw CONCRETE WASTE MANAGEMENT FACILITY

NO SCALE

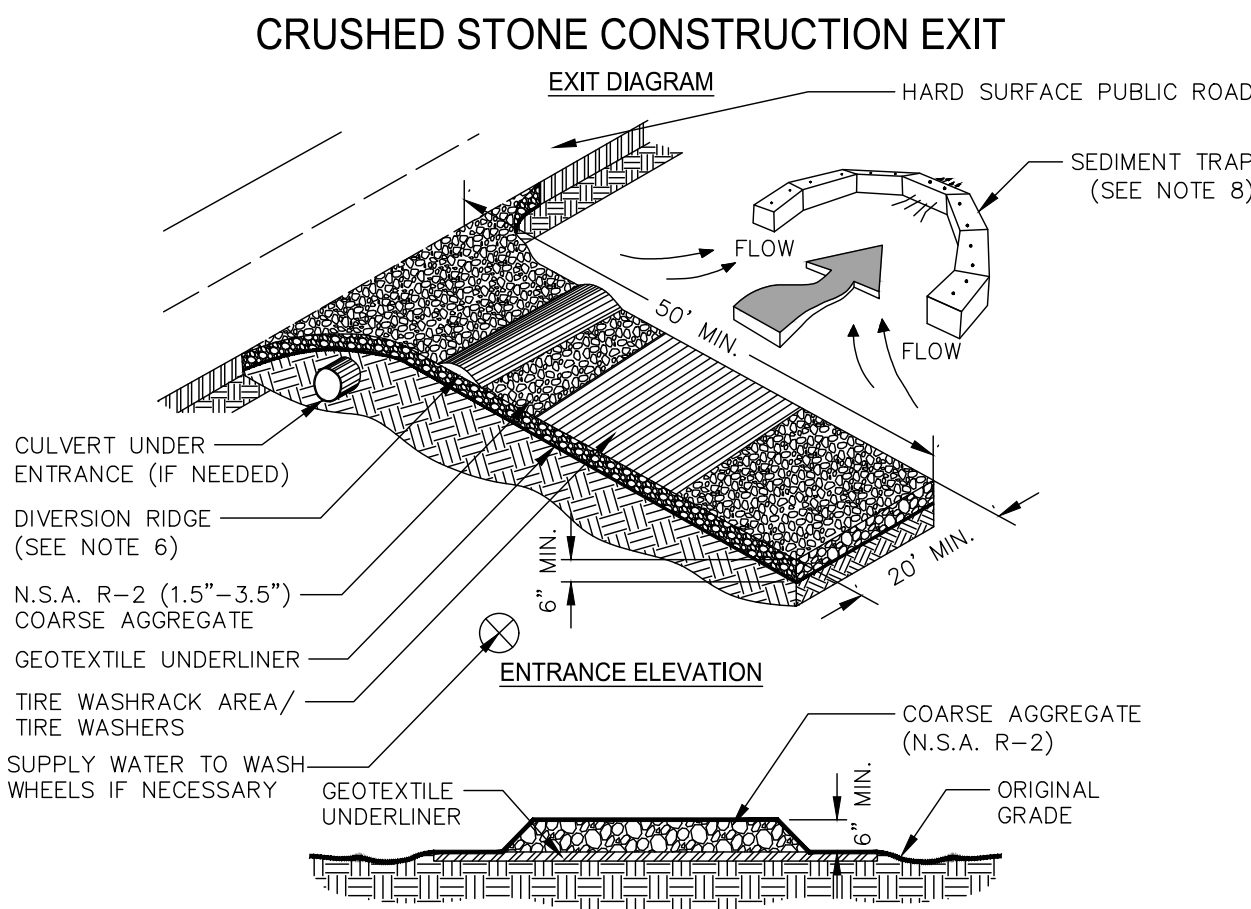


NOTES:

- DO NOT INSTALL SILT FENCE IN CONCENTRATED FLOW AREAS.
- REMOVE ALL SEDIMENT ONCE IT HAS REACHED HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE (14").
- REPLACE FILTER FABRIC WHEN IT HAS DETERIORATED BEYOND ITS EFFECTIVE LIFE (APPROX. 6 MONTHS).
- SILT FENCE MAY BE REMOVED WHEN THE UPSTREAM AREA IS STABLE WITH PERMANENT MEASURES. REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SEDIMENT PRIOR TO REMOVING THE SILT FENCE.
- USE 36 INCH GASWC APPROVED FABRIC.

Sd1-NS SILT FENCE - TYPE NON-SENSITIVE

NO SCALE



NOTES:

- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
- REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
- AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
- GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
- PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
- A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
- INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
- WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
- MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co TYPICAL CONSTRUCTION EXIT

NO SCALE

30 CONSTRUCTION SCHEDULE

| DESCRIPTION | MONTHS OF CONSTRUCTION ACTIVITY | | | |
|--|---------------------------------|---------|----------|----------|
| | APRIL '23 | MAY '23 | JUNE '23 | JULY '23 |
| INSTALL CONSTRUCTION EXIT AND PERIMETER SILT FENCE | | | | |
| LOT CLEARING | | | | |
| INSTALL E/C FOR GRADING | | | | |
| ROUGH GRADING | | | | |
| BUILDING CONSTRUCTION | | | | |
| FINE GRADING | | | | |
| LANDSCAPING | | | | |
| REMOVE TEMP E/C MEASURES | | | | |
| MAINTAIN EROSION CONTROL DEVICES | | | | |

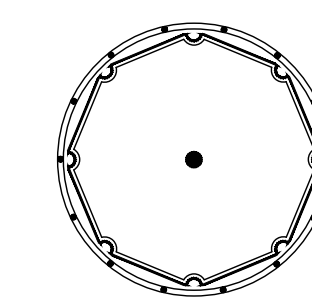
ANTICIPATED START DATE - APRIL 1, 2023
ANTICIPATED ENDING DATE - JULY 1, 2023

54 GRASSING SCHEDULE/SOUTHERN PIEDMONT

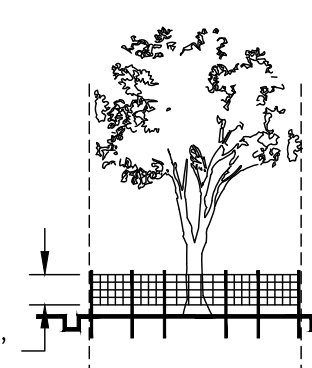
| SPECIES | BROADCAST RATE (ALONE) | BROADCAST RATE (MIXED) | DATES | FERTILIZER (6-12-12) | LIME |
|---------------------------|------------------------|------------------------|--------------|----------------------|------------|
| | | | | | |
| BROWNTOP MILLET | 40 lb./ACRE | 10 lb./ACRE | APR. - JULY | 1500 lb./ACRE | 2 TON/ACRE |
| RYE GRASS (ANNUAL) | 40 lb./ACRE | N/A | AUG. - MARCH | 1500 lb./ACRE | 2 TON/ACRE |
| PERMANENT GRASSING | | | | | |
| COMMON BERMUDA (HULLED) | 10 lb./ACRE | 6 lb./ACRE | MARCH - JUNE | 1500 lb./ACRE | 2 TON/ACRE |
| COMMON BERMUDA (UNHULLED) | 10 lb./ACRE | 6 lb./ACRE | OCT. - FEB. | 1500 lb./ACRE | 2 TON/ACRE |
| TALL FESCUE | 50 lb./ACRE | 30 lb./ACRE | SEPT. - OCT. | 1500 lb./ACRE | 2 TON/ACRE |

"SNOW" FENCE

PLAN



CROSS-SECTION



NOTES:

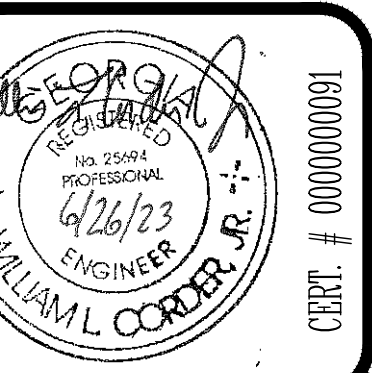
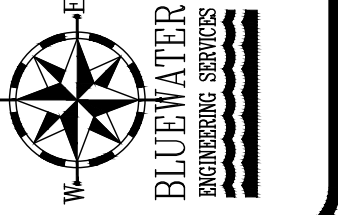
- USE TRENCH (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
- SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
- MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
- DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
- FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.
- ALL TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE.

Tr TREE PROTECTION DETAIL

NO SCALE

BLUEWATER ENGINEERING SERVICES

P.O. BOX 617 EVANS, GA 30809
OFFICE: (706) 364-5320
FAX: (706) 364-5321



| DATE | DESCRIPTION |
|------------|-------------|
| 07/31/2023 | |
| 06/26/2023 | |

| REV | DESCRIPTION |
|-----|--|
| A | RELEASED FOR REVIEW BY COLUMBIA COUNTY |
| B | REVISED PER GASWC COMMENTS (DPR/KRH/221) |

TERRACE HILL- CHALKER STREET SUBDIVISION
CITY OF WRENS - JEFFERSON COUNTY, GEORGIA

MISCELLANEOUS DETAILS

DRAWN BY: LSF
JOB NO: 1003.0

SHEET NUMBER:

4 OF 5

