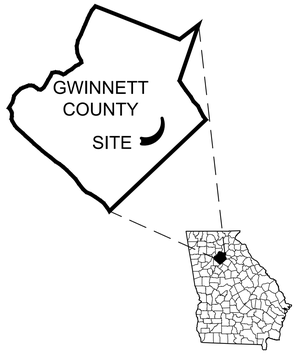
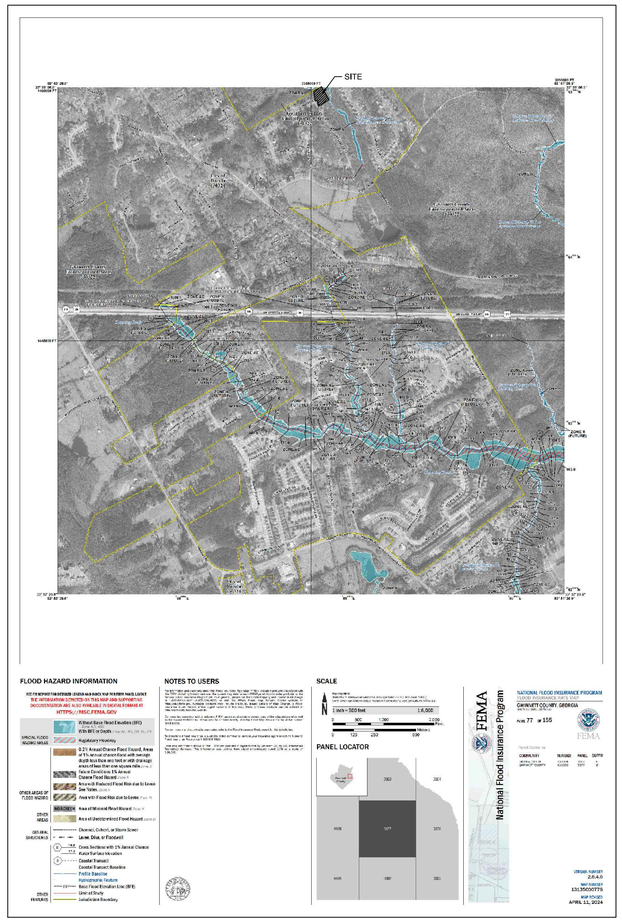
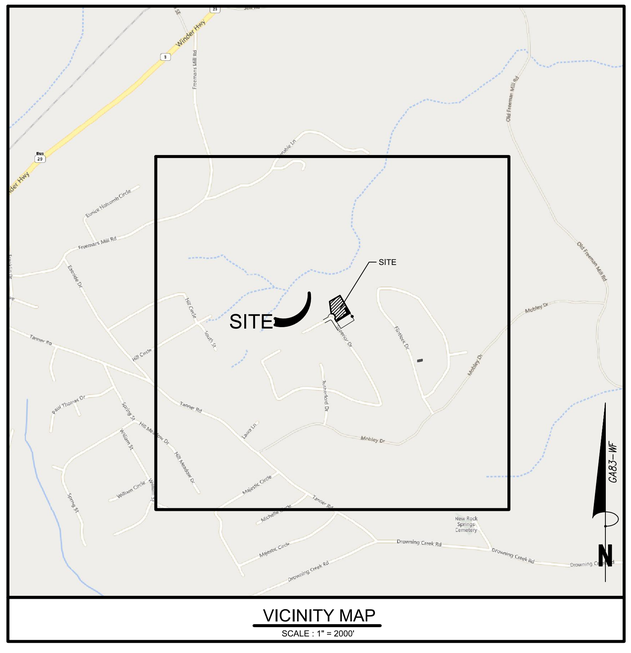
3125 SUPERIOR DRIVE
STORM DRAINAGE
IMPROVEMENTS PROJECT
FOR
CITY OF DACULA







VICINITY MAP

SCALE : 1" = 2000'

FLOOD PLAN NOTE:

PART OF THIS PROJECT DOES NOT LAY WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FEMA FIRM PANEL 13135C0077G DATED 4/11/2024

GEORGIA811 www.Georgia811.com

WETLANDS

THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1)THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET ( ) DOES / (X) DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF REMOVING AND REPLACING EXISTING CMP DRAINAGE PIPE, INSTALL JUNCTION BACK, AND EROSION CONTROL.

ENGINEER/SURVEYOR:

BOWMAN
4174 SILVER PEAK PARKWAY
SUWANEE, GEORGIA 30024
PH: 770-932-6550 FX: 770-932-6551
ENGINEER CONTACT: KEVIN D WHIGHAM, P.E. EMAIL: KWhigham@bowman.com

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."

KEVIN D WHIGHAM, P.E. - GSWCC LEVEL II CERTIFICATION #945 EXP: 9/27/2026 — DATE: 6/21/2024

FLOODPLAIN:

PART OF THIS PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) PER FEMA FIRM PANEL 13135C0077G DATED 4/11/2024.

STATE WATERS

STATE WATERS ARE NOT ON THIS SITE REQUIRING A 25' STATE UNDISTURBED BUFFER, 50' COUNTY UNDISTURBED BUFFER AND 75' IMPERVIOUS SETBACK MEASURED FROM THE TOP OF BANK.

RECEIVING WATERS UNNAMED TRIBUTARY 1
TO APALACHEE RIVER TRIBUTARY 3

SURVEY:

THE BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN IS FROM A SURVEY PERFORMED BY BOWMAN DATED MAY 8, 2024. DATUM, MEAN SEA LEVEL, NAD83 GA WEST FOOT

DRAWING INDEX

SHEET NUMBER	SHEET NAME	SUBMITTALS 6/21/2024	1	2	3	4
C0.0	COVER SHEET	X				
C1.0	SITE PLAN	X				
C2.0	CONSTRUCTION DETAILS & PROFILE	X				
C3.0	EROSION CONTROL PLAN	X				
C3.1	EROSION CONTROL DETAILS	X				

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Phone: (770) 932-6550
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COVER SHEET
3125 SUPERIOR DR.
STORM DRAINAGE IMPROVEMENTS PROJECT
FOR CITY OF DACULA
P.O. BOX 400, DACULA, GEORGIA 30019

CONSULTANT PROJECT # 24-0406

GEORGIA REGISTERED 027158 PROFESSIONAL ENGINEER KEVIN D. WHIGHAM 6/21/24

PLAN STATUS	
06/21/2024	BID SET

DATE	DESCRIPTION	
--	RWH	KDW
DESIGN	DRAWN	CHKD

SCALE	1" = 20'
JOB No.	200564-01-001
DATE :	June 21, 2024
FILE No.	
SHEET No.	C0.0

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June 21, 2024
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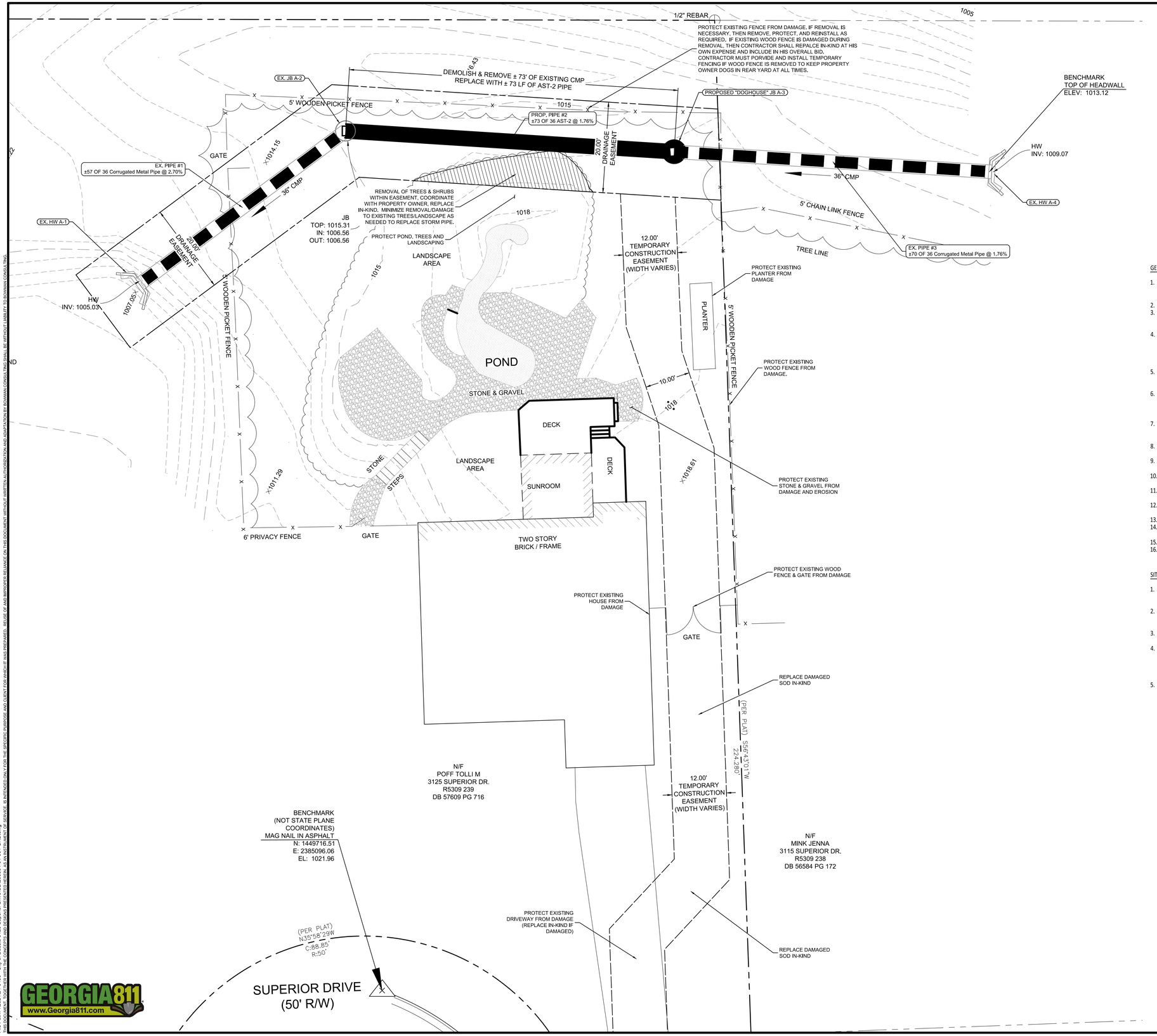

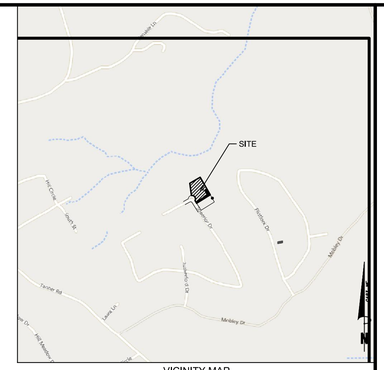

VICINITY MAP
SCALE: 1" = 1,000 FT

GENERAL SITE NOTES:

1. BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AT THE PROJECT SITE BY ON-SITE VISITATION AND INSPECTION, REVIEW ALL PLANS, SPECIFICATIONS, FEDERAL, STATE AND COUNTY REGULATIONS AND ORDINANCES TO FULLY ASCERTAIN THE SCOPE OF THE WORK ILLUSTRATED AND/OR IMPLIED WITHIN THESE PLANS.
2. COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. (SEE #4 BELOW)
3. SURVEY AND ESTABLISH ALL TOPOGRAPHIC BENCHMARKS, BOUNDARY MONUMENTATION, BUILT ITEMS AND EXISTING UTILITIES PERTAINING TO THE WORK SHOWN OR IMPLIED WITHIN THESE PLANS AND MAINTAIN SAID LOCATIONS THROUGHOUT THE DURATION OF THE PROJECT.
4. THE PROJECT EXISTING UTILITIES SHOWN HERE HAVE BEEN LOCATED IN AN APPROXIMATE WAY.
   - MARK ALL UTILITIES SHALL CONTACT THE UTILITY PROTECTION CENTER AT (1-800-282-7411);
   - VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES;
   - PROTECT ALL UTILITIES FROM DAMAGE OR INTERRUPTION;
   - REPAIR ANY AND ALL DAMAGES THAT OCCUR DUE TO FAILURE TO VERIFY THE LOCATION OR PROTECT UTILITIES.
5. THE OWNER & DESIGN PROFESSIONAL / LAND SURVEYOR DO NOT GUARANTEE THAT ALL EXISTING UTILITIES ARE ILLUSTRATED ON THESE PLANS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES.
6. PROTECT ALL UTILITIES FROM DAMAGE THROUGHOUT THE DURATION OF THE PROJECT AND REPAIR ANY AND ALL DAMAGE TO EXISTING UTILITIES CAUSED BY CONSTRUCTION OPERATIONS. REROUTE, RELOCATE AND/OR MODIFY ANY EXISTING UTILITIES THAT APPEAR ON THE REFERENCE SURVEY (ROADS, ACCESSWAYS, DRAINAGE WAYS, ETC.) IN ORDER TO MAINTAIN THE FUNCTION OF SAID FACILITIES.
7. PROVIDE ALL TEMPORARY TRAFFIC SAFETY DEVICES INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNAGE, SIGNAL LIGHTS OR FLAGMEN TO PROTECT THE PUBLIC AT LARGE, AND CONSTRUCTION PERSONNEL WHILE OPERATING WITHIN PUBLIC STREETS AND / OR RIGHTS-OF-WAY.
8. ERECT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES PRIOR TO DEMOLITION OPERATIONS AND PROTECT ALL ADJACENT PROPERTIES REGARDLESS OF OWNERSHIP.
9. ALL EXISTING PIPING THAT IS TO BE DEMOLISHED WILL BE DEMOLISHED AND REMOVED TO EARTH SUB-GRADE. MATERIAL IS TO BE DISPOSED OF LEGALLY OFF-SITE.
10. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND / OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
11. REMOVE ALL MISCELLANEOUS DEBRIS FROM THE SITE. THAT ARE DESIGNATED TO BE REMOVED BY THE CITY OF DACULA AND THE DESIGN ENGINEER OR AS DIRECTED IN THE CONSTRUCTION DOCUMENTS.
12. SAW-CUT SMOOTH LINE BETWEEN PORTIONS OF CURB AND GUTTER TO BE DEMOLISHED AND REMOVED AND REMAINING PORTIONS.
13. DO NOT PUT ANY EQUIPMENT, MATERIALS, OR DEBRIS ON ANY ADJACENT PROPERTY.
14. CLEAR AND GRUB EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE EXCEPT THE AREAS WITHIN A DESIGNATED TREE SAVE AREA. SEE SHEET C1.0 DEMOLITION PLAN FOR TREE FENCE LOCATION.
15. DO NOT BURY ANY CLEARING AND GRUBBING DEBRIS AND / OR DEMOLITION DEBRIS ON-SITE.
16. BURNING ON-SITE IS NOT PERMITTED.

SITE CONSTRUCTION NOTES:

1. CONTRACTOR SHALL MEET WITH PROPERTY OWNER PRIOR TO CONSTRUCTION TO EXPLAIN THE SEQUENCE AND TIMING OF CONSTRUCTION. CONTRACTOR WILL NEED TO COORDINATE WITH PROPERTY OWNER DAILY TO OBTAIN ACCESS TO MAKE SURE DOG'S ARE LET INSIDE BEFORE OPENING GATES FOR CONSTRUCTION ACCESS.
2. CONTRACTOR SHALL PROTECT THE HOUSE, FENCE, AND DRIVEWAY FROM DAMAGE AT ALL COSTS. IF DAMAGE OCCURS DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR ALL DAMAGE AND REPLACE IN KIND AT CONTRACTOR'S OWN EXPENSE.
3. ALL LANDSCAPING, ROCK & GRAVEL AREAS, POND AREAS, AND PLANTERS SHALL BE PROTECTED FROM DAMAGE. IF DAMAGE OCCURS CONTRACTOR SHALL REPLACE IN KIND AT NO ADDITONAL COST TO OWNER AND/OT CITY.
4. IF WOOD FENCE NEEDS TO BE TEMPORARILY REMOVED, THEN CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER FOR APPROVAL AND PROVIDE TEMPORARY FENCING SINCE PROPERTY OWNER HAS DOGS WHICH UTILIZE THE REAR YARD. TEMPORARY FENCING MUST BE INSTALLED PRIOR TO REMOVAL OF EXISTING FENCE. IF EXSITING WOOD FENCE IS DAMAGED OR DAMAGED IF REMOVED, THEN CONTRACTOR SHALL PROVIDE NEW WODD FENCE TO MATCH EXISTING IN KIND AT CONTRACTOR'S OWN EXPENSE.
5. ALL DAMAGE TO SOD IN PROPERTY OWNER'S YARD SHALL BE REPLACED IN KIND AS PART OF THE CONTRACTOR'S OVERALL BID.

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Suwanee, GA 30024
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GRADING AND DRAINAGE PLAN
3125 SUPERIOR DR.
STORM DRAINAGE IMPROVEMENTS PROJECT
FOR CITY OF DACULA
P.O. BOX 400, DACULA, GEORGIA 30019

CONSULTANT PROJECT #
24-0406

GEORGIA
REGISTERED
271120
PROFESSIONAL
ENGINEER
KEVIN D. WHIGHAM
06/21/24

PLAN STATUS	
06/21/2024	BID SET

DATE	DESCRIPTION

--	RWH	KDW
DESIGN	DRAWN	CHKD

SCALE	1" = 20'
JOB No.	200564-01-001
DATE :	June 21, 2024
FILE No.	
SHEET No.	C1.0

June 21, 2024
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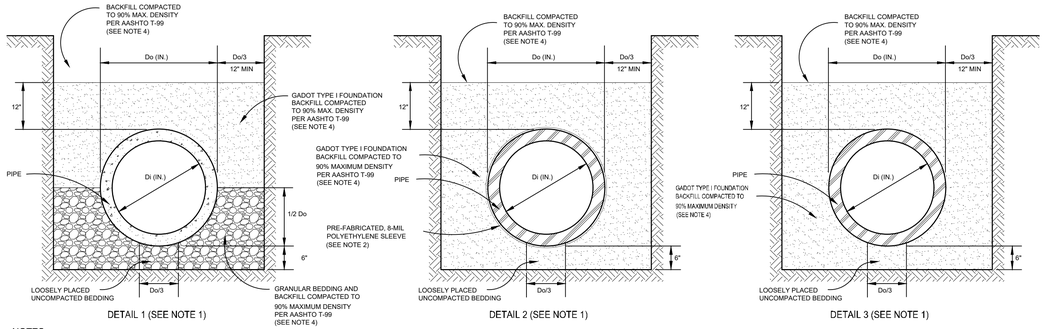


DETAIL 1 (SEE NOTE 1) DETAIL 2 (SEE NOTE 1) DETAIL 3 (SEE NOTE 1)

NOTES

1.) REPRESENTATIVE SOIL pH RESULTS SHALL BE PROVIDED FOR ALUMINIZED TYPE 2 STEEL OR REINFORCED CONCRETE PIPE WHERE THE SOIL TYPE, AS INDICATED IN THE GWINNETT COUNTY SOIL SURVEY, HAS A pH RANGE WITH pH VALUES LESS THAN 5. DETAIL 1 OR DETAIL 2 SHALL BE USED WHEN THE SOIL pH < 5. DETAIL 1 OR DETAIL 2 MAY BE USED IN LIEU OF SOIL pH TESTING FOR ALUMINIZED TYPE 2 STEEL OR REINFORCED CONCRETE PIPE. NO pH TESTING SHALL BE REQUIRED FOR HDPE, ALUMINUM PIPE, OR POLYMER PRECOAT CSP.

2.) PRE-FABRICATED, 8-MIL POLYETHYLENE SLEEVE SHALL BE SLIPPED OVER THE PIPE DURING INSTALLATION, OVERLAPPED WHERE NECESSARY, AND SECURED WITH POLYETHYLENE TAPE TO COMPLETELY PREVENT THE ENTRANCE OF SOILS.

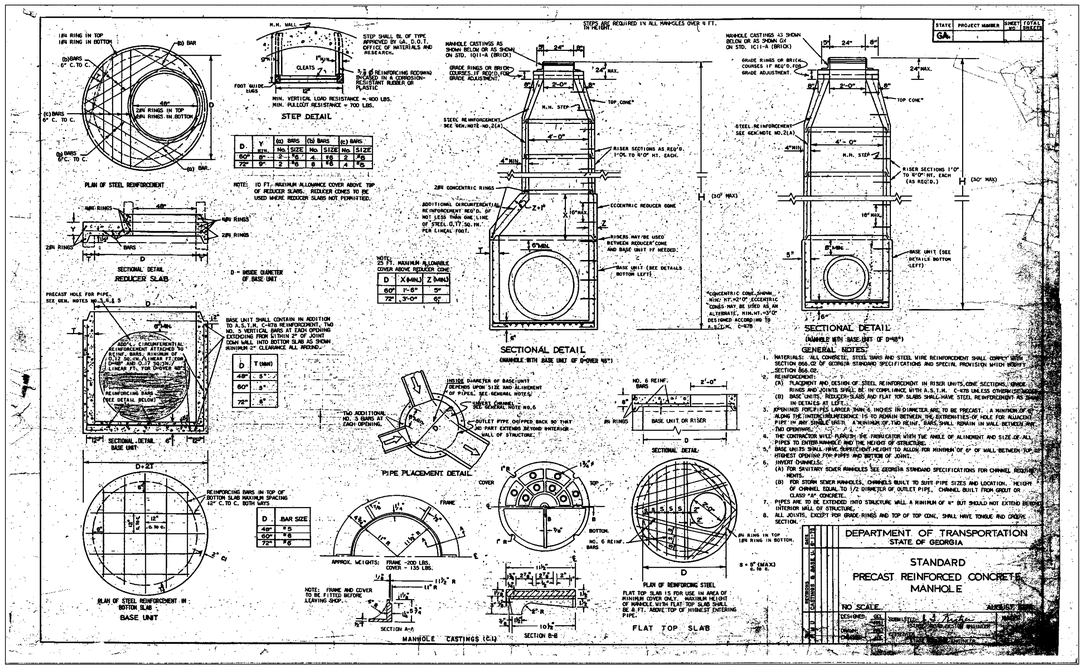
3.) ALLOWABLE GRANULAR MATERIALS SHALL BE GRADED AGGREGATE BASE, CRUSHER RUN, GADOT FOUNDATION BACKFILL MATERIAL TYPE II, OR GADOT MECHANICALLY STABILIZED EMBANKMENT BACKFILL.

4.) BACKFILL SHALL BE COMPACTED TO 95% MAX DENSITY PER AASHTO T-99 WITHIN STREET RIGHT-OF-WAY.

PIPE TYPE	BEDDING DETAIL			
	DETAIL 1	DETAIL 2	DETAIL 3	
	ALL pH RANGES	ALL pH RANGES	ALL pH RANGES	pH≥5
AL TYPE 2 CSP	X	X		X
POLYMER PRECOAT CSP	X	X	X	
ALUMINUM	X	X	X	
RCP	X	X		X
HDPE	X			

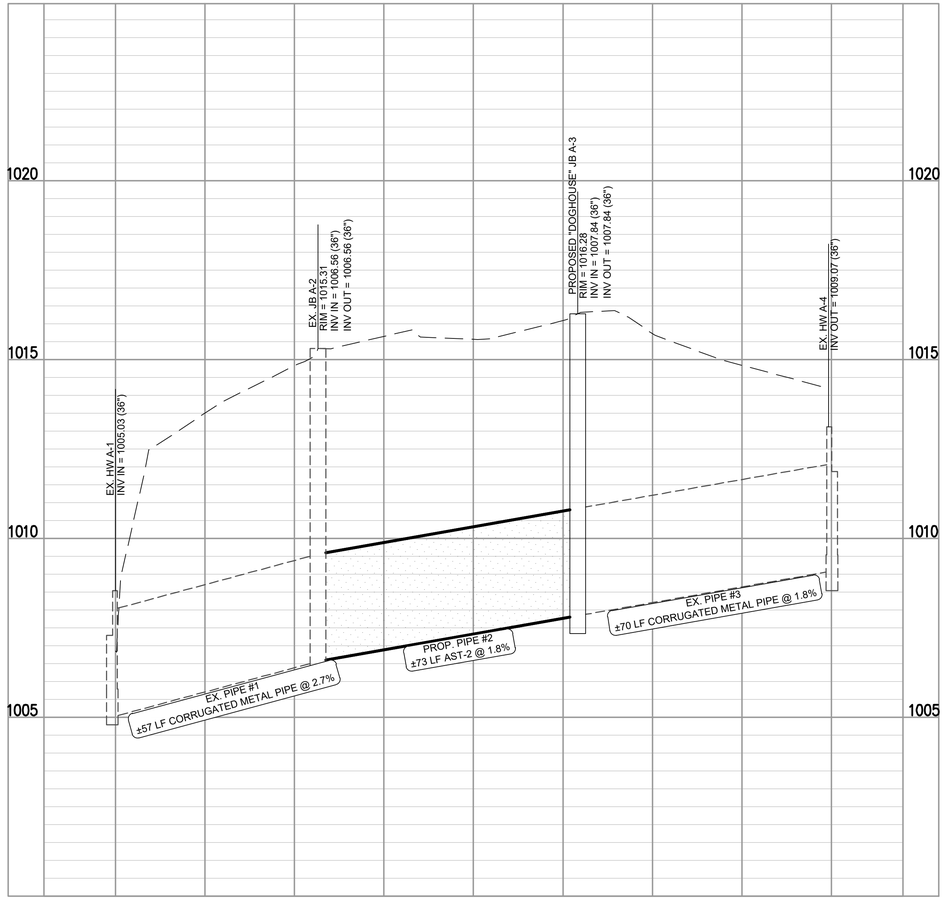
1 PIPE BEDDING

N.T.S.



2 JUNCTION BOX (JB) GADOT STD. 1011A

N.T.S.



STORM LINE PROFILE VIEW
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

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CONSTRUCTION DETAILS
3125 SUPERIOR DR.
STORM DRAINAGE IMPROVEMENTS PROJECT
FOR CITY OF DACULA
P.O. BOX 400, DACULA, GEORGIA 30019

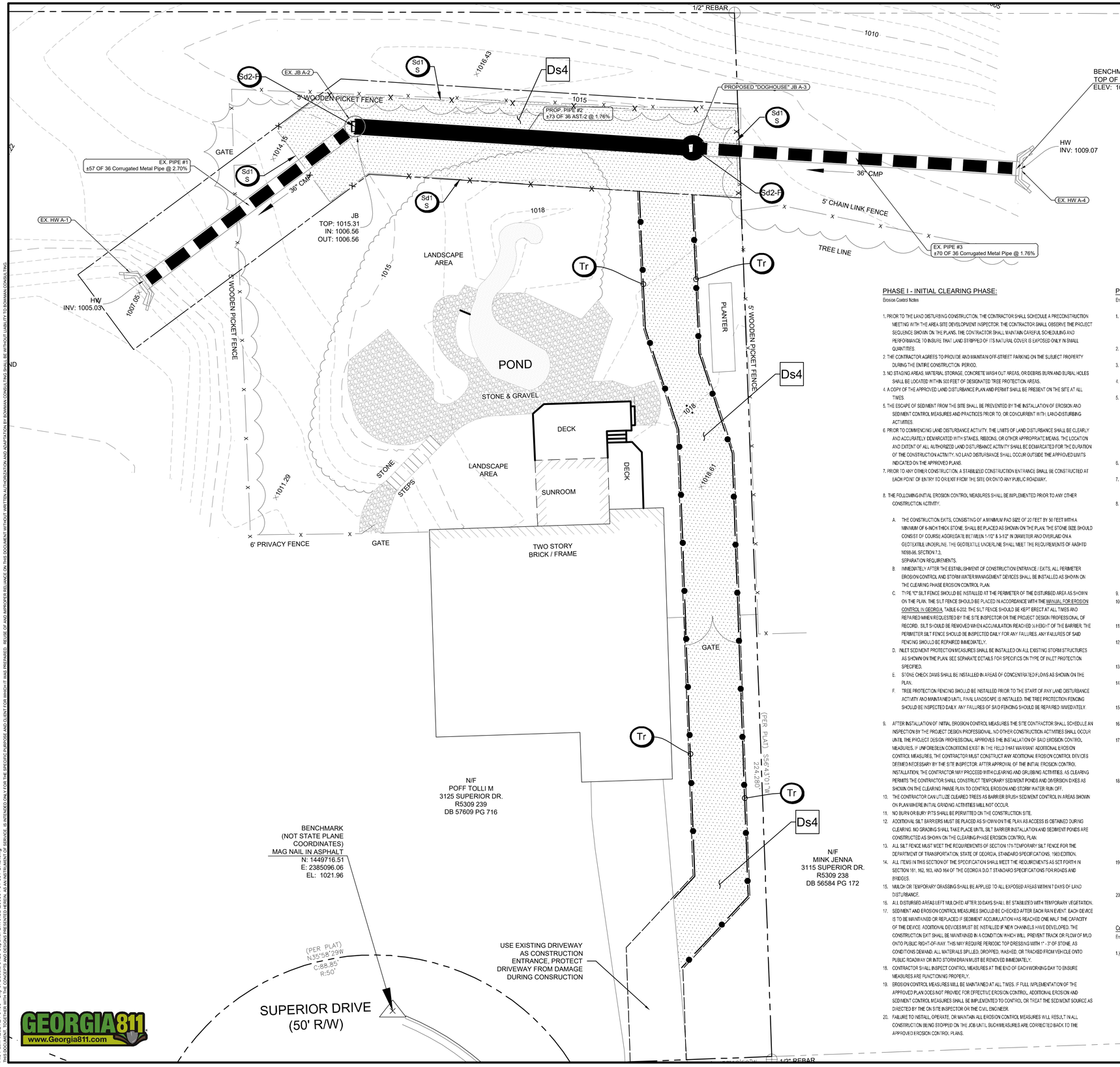
CONSULTANT PROJECT #
24-0406

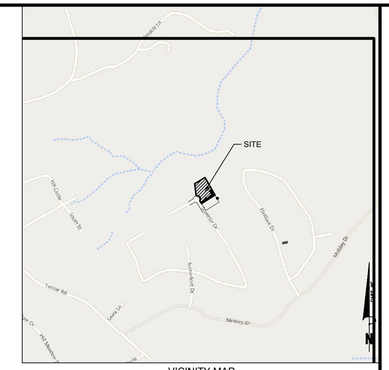
GEORGIA REGISTERED PROFESSIONAL ENGINEER 27132 06/21/24 KEVIN D. WHIDDON

PLAN STATUS	
06/21/2024	BID SET

DATE	DESCRIPTION	
--	RWH	KDW
DESIGN	DRAWN	CHKD

SCALE	1" = 20'
JOB No.	200564-01-001
DATE :	June 18, 2024
FILE No.	
SHEET No.	C2.0





PHASE I - INITIAL CLEARING PHASE:

Erosion Control Notes

1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
2. THE CONTRACTOR AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
3. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
5. 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.
6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
7. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
   A. THE CONSTRUCTION EXITS, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6-INCH THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINE. THE GEOTEXTILE UNDERLINE SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3, SEPARATION REQUIREMENTS.
   B. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE / EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
   C. TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-202. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHED ½ HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
   D. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
   E. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
   F. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTOR. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.
10. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
11. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
12. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
13. ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1993 EDITION.
14. ALL ITEMS IN THIS SECTION OF THE SPECIFICATION SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
15. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
16. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
17. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" - 3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
18. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
19. 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
20. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

PHASE II - GRADING PHASE:

Erosion Control Notes

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.
2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
3. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING PRELIMINARY GRADING PHASE OF CONSTRUCTION.
4. SEDIMENT SHALL NOT BE WASHED IN INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
6. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADED WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
7. TYPE "A" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET, OR GREATER, IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2.
8. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DYKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN-OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED, AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIER SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.
9. CUT AND FILL SLOPES ARE NOT TO EXCEED "2H:IV".
10. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
11. TYPE "A" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
12. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION ON TYPE OF INLET PROTECTION SPECIFIED.
13. STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
14. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
15. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
16. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
17. AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DYKES AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT BASINS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE BASINS WHEN IT REACHES THE 1/3 VOLUME OF BASIN. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
18. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OF FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1" - 3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
19. 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
20. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

Critical AREAS:

Erosion Control Notes

1.) CRITCAL AREAS SHOWN ON GRADING PHASE EROSION CONTROL PLANS SHALL BE MAINTAINED DAILY, AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER, AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DYKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT.

PHASE III - FINAL STABILIZATION PHASE:

Erosion Control Notes

1. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH PERMANENT GRASSING.
2. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT BASINS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE BASINS WHEN IT BECOMES 1/3 FULL.
3. AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
4. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
5. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED. THE CONSTRUCTION EXIT SHALL BE REMOVED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
6. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF ULL 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
8. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
9. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

Critical AREAS:

Erosion Control Notes

1.) CRITICAL AREAS SHOWN ON FINAL PHASE EROSION CONTROL PLANS SHALL BE MAINTAINED DAILY, AT THE END OF EACH WORK DAY ALL SLOPES 2:1 OR STEEPER, AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND EROSION CONTROL MATTING. ADDITIONALLY, ALL FILL SLOPES SHALL RECEIVE A DIVERSION DYKE AND TEMPORARY DOWN DRAINS ALONG THE TOP OF THE SLOPE PREVENTING DRAINAGE SPILLING OVER THE EDGE AND DOWN THE FACE OF THE SLOPE. THE TEMPORARY DOWN DRAINS SHALL BE CONSTRUCTED WITH PERFORATED STAND PIPES AT THE TOP OF THE SLOPE AND RECONSTRUCTED EACH DAY AS THE SLOPE INCREASES IN HEIGHT. ONCE FINAL STABILIZATION OF THE SITE IS COMPLETE, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BEFORE THE CONTRACTOR PERMANENTLY LEAVES THE SITE.

0 10' 20'
GRAPHIC SCALE
1"=10'

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EROSION CONTROL PLAN
3125 SUPERIOR DR.
STORM DRAINAGE IMPROVEMENTS PROJECT
FOR CITY OF DACULA
P.O. BOX 400, DACULA, GEORGIA 30019

CONSULTANT PROJECT #
24-0406

GEORGIA REGISTERED 027126 PROFESSIONAL ENGINEER 06/21/24 KEVIN D. WHIGHAM

LEVEL II E&S CERT.#945
EXP. DATE 09-27-26

PLAN STATUS

DATE	DESCRIPTION
06/21/2024	BID SET

--	RWH	KDW
DESIGN	DRAWN	CHKD

SCALE 1" = 20'
JOB No. 200564-01-001
DATE : June 18, 2024
FILE No.
SHEET No. C3.0

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June 18, 2024
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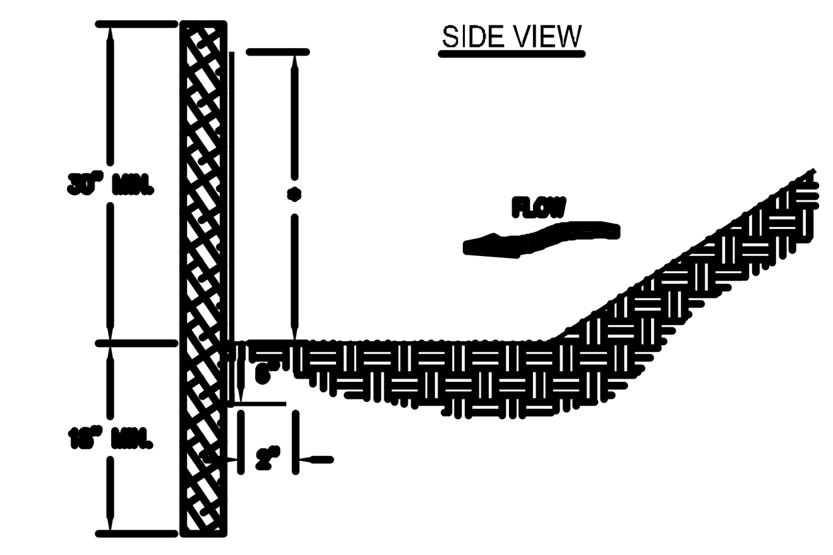
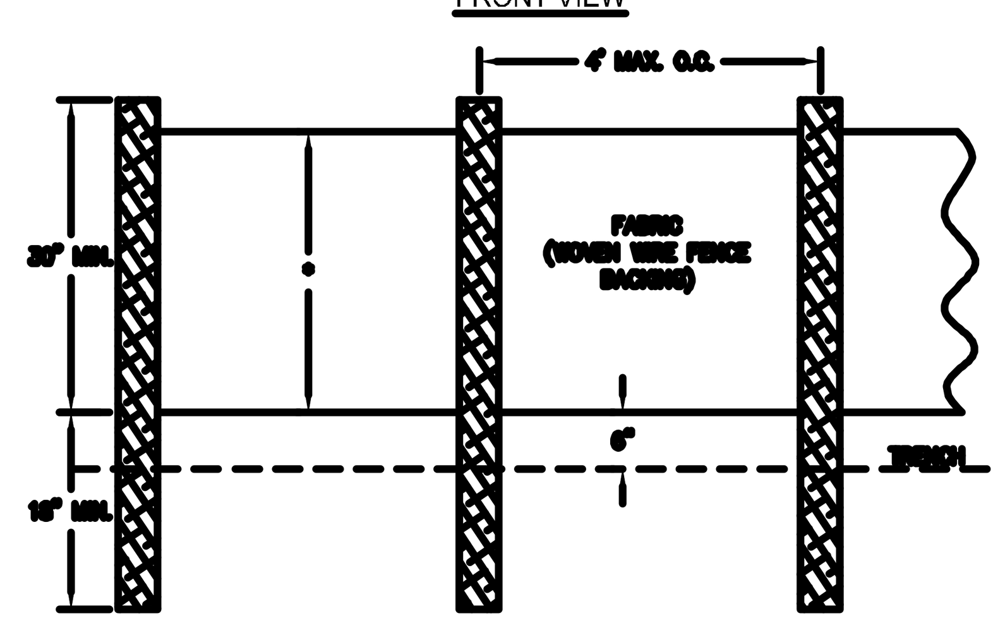
SILT FENCE - TYPE SENSITIVE

SIDE VIEW



FRONT VIEW



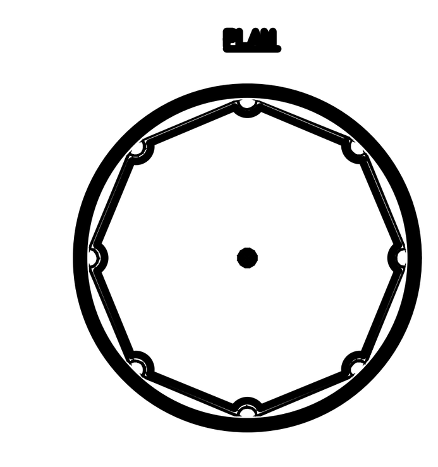
NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1 EROSION CONTROL FENCING TYPE "S"
NTS

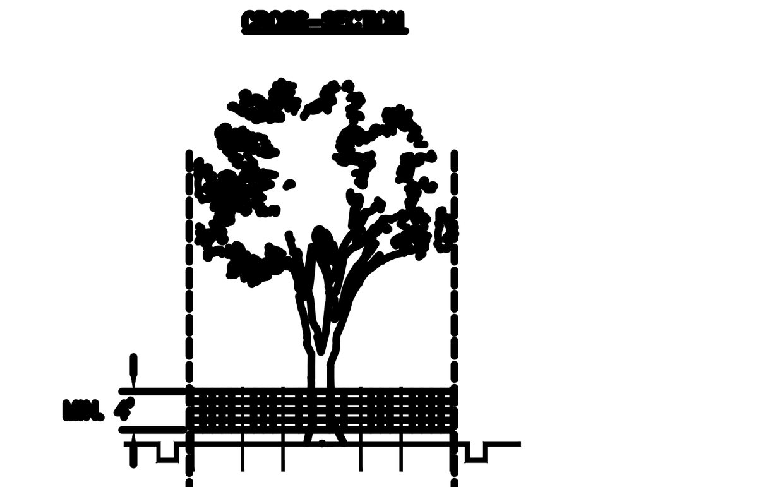
TREE PROTECTION

"SNOW" FENCE

PLAN



CROSS-SECTION

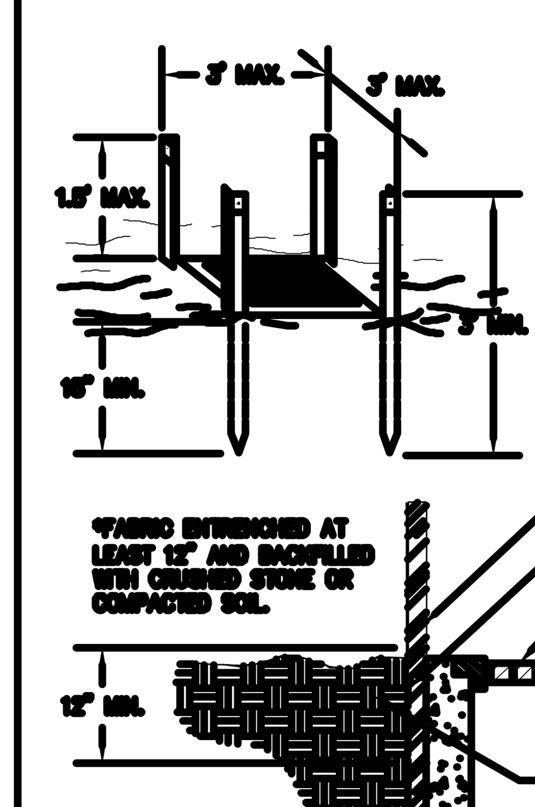


NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-6" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR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

Tr TREE PROTECTION FENCE
NTS

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

STEEL FRAME AND SILT FENCE INSTALLATION

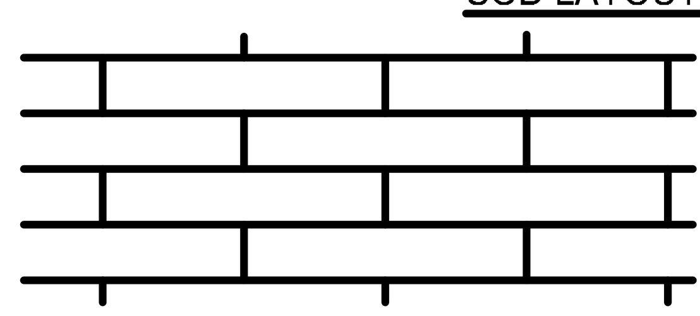


NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

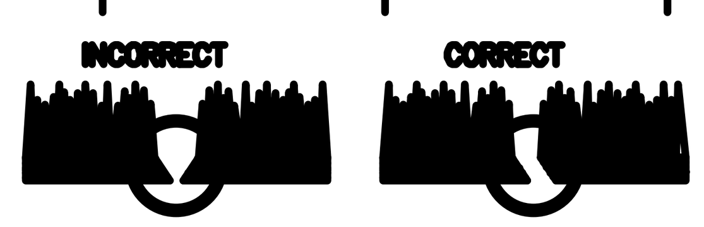
Sd2-F TEMP INLET SEDIMENT TRAP
NTS

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION



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



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

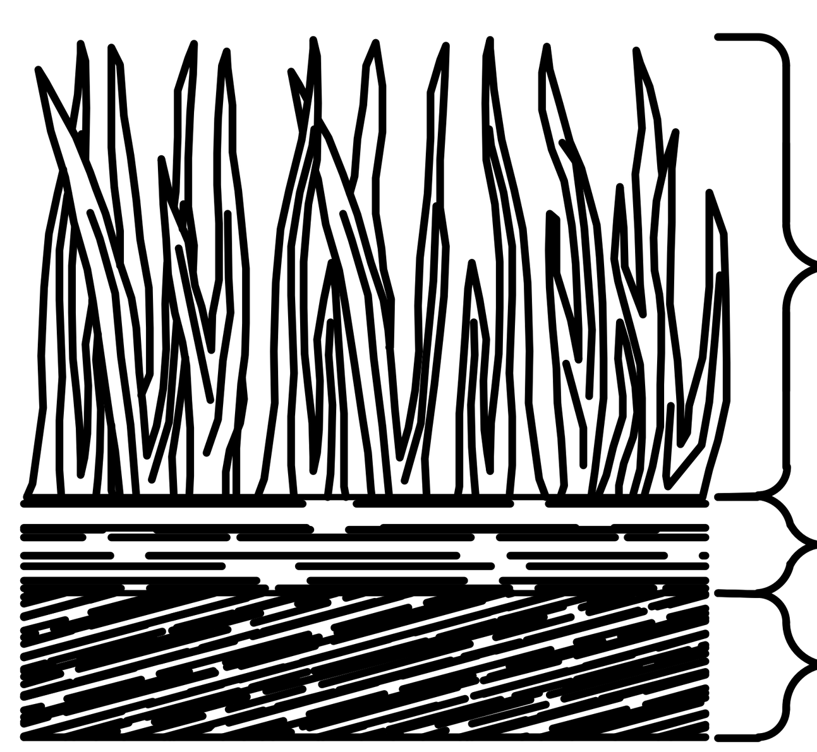
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

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

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

APPEARANCE OF GOOD SOD



SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

Ds4 SOD MAINTENANCE AND INSTALLATION
NTS

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/2/ — 30
2. Cool season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ — —
3. Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1300 lbs./ac. 3/ 1300 lbs./ac. 3/ 1100 lbs./ac.	— — —
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	—
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/6/ 50-100 lbs./ac. 2/ 30 lbs./ac.
8. Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac./6/

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

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CONSULTANT PROJECT #
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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 37136 06/21/24 KEVIN D. WHITLOW

LEVEL II E&S CERT.#945
EXP. DATE 09-27-26

PLAN STATUS

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DESIGN	DRAWN	CHKD

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