G	ENERAL NOTES:	 	
1.	OWNER:	Oh e et Nhui	Sheet Lis
		Sheet Nur	
	180 WALTER WAY #110	C000	
	FAYETTEVILLE, GA 30214 CONTACT: BRANDON HARP	C100	EXISTING CONDITIONS
	EMAIL: BHARP@B2CONTRACTING.COM	C200	SITE PLAN
	PHONE: (770) 789-2123	C300	GRADING AND DRAINAGE
2.	ENGINEER:	C301	STORMWATER EASEMENTS
	HIGHLAND LAND PLANNING	C350	STORM PIPE PROFILES
	201 PROSPECT PARK, SUITE A	C400	UTILITY PLAN
	CONTACT: REID K ALMAND, P.E.	C500	EROSION CONTROL COVER
	EMAIL: REID.ALMAND@HIGHLANDLP.US	C501	COMPREHENSIVE MONITOR
	PHONE: (770) 631-0499	C502	N.P.D.E.S. CHECKLIST
3.	SURVEYOR:	C503	
	W.S. BODKIN SURVEYING, LLC	C510	
	315 CASTLEWOOD RD TYRONE, GA 30290	C520	
	CONTACT: SCOTT BODKIN, R.L.S.	C600	EROSION DETAILS
	PHONE: (770) 312-5500	C601	EROSION DETAILS
4.	ZONING: IHV, HEAVY INDUSTRIAL	C602	EROSION DETAILS
5.	TOTAL SITE AREA = 8.31 +/- AC.	C603	EROSION DETAILS
	FLOODPLAIN AREA = 2.25 AC.	C700	CONSTRUCTION DETAILS
	DISTURBED AREA = 4.8 AC. IMPERVIOUS SURFACE CALCULATIONS:	C701	CONSTRUCTION DETAILS
		C702	CONSTRUCTION DETAILS
	TOTAL IMPERVIOUS FOR WAV CALCULATIONS (GRAVEL @ 85%) 1.93 AC.	C703	CONSTRUCTION DETAILS
j.	LOT DIMENSION REQUIREMENTS PER CITY OF NEWNAN ZONING ORDINACE:	C704	CONSTRUCTION DETAILS
	MINIMUM LOT SIZE - 2 ACRES (87,120 SF) FRONT SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT	C705	CONSTRUCTION DETAILS
	SIDE SETBACK: 30 FT	L100	LANDSCAPE PLAN
	STREET SIDE SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT REAR SETBACK: 40 FT	T100	TREE PROTECTION PLAN
	MINIMUM BLDG LINE WIDTH:200 FT		
	MINIMUM LOT FRONTAGE: 200 FT MINIMUM LOT DEPTH: 200 FT		
	ACCESSORY BUILDING HEIGHT: 35 FT MAXIMUM BUILDING COVERAGE 60% (LOT)		
	BASE/MAXIMUM FLOOR AREA RATIO: 0.30 / 0.50		
	DISTANCE BETWEEN BUILDINGS: 25 FT		
7.	LANDSCAPE STRIP		
	TO FT PERIMETER		
3.	VEHICLE STORAGE SUMMARY: TOTAL REQUIRED: OFFICE: 1/ 250 SQ. FT. OF GFA = 6,400 SQ. FT. GFA = 26 SPACES		
	SHOP/WAREHOUSE: 0.25/1000 SQ. FT. = 4,000 SQ FT = 1 SPACES TOTAL = 27 SPACES		
	TOTAL PROVIDED = 27 SPACES (1 HANDICAP SPACES)		
€.	24 HOUR CONTACT: BRANDON HARP, (770) 789-2123		
0.	STATE WATERS ARE PRESENT ON THIS PROJECT SITE AS INDICATED,HOWEVER ARE NOT AFFECTED BY THIS DEVELOPMENT.		
11.	WETLANDS WERE NOT IDENTIFIED WITHIN THE PROPERTY BOUNDARY.		
12.	PROJECT SITE IS NOT LOCATED WITHIN A GROUND WATER RECHARGE AREA		
3.	A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR COWETA COUNTY COMMUNITY PANEL #13077C0143D DATED FEB 6 2013	VIC	INITY MAP
4.			
15.	ALL WORK SHALL CONFORM TO CITY OF NEWNAN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS.		
16.	NO GDOT PERMITS APPLICABLE TO THIS DEVELOPMENT.		Γ
17.	NO ARMY CORPS OR ADDITIONAL ENVIRONMENTAL PERMITS APPLICABLE TO THIS		
	DEVELOPMENT.		
<u>DR</u>	AINAGE EASEMENT NOTE:		St Cal
18.	THE OWNER OF RECORD, ON BEHALF OF HIMSELF (ITSELF) AND ALL SUCCESSORS IN INTEREST SPECIFICALLY RELEASES THE CITY OF NEWNAN FROM ANY AND ALL LIABILITY AND RESPONSIBILITY FOR FLOODING OR EROSION FROM STORM DRAINS OR FROM FLOODING FROM HIGH WATER OF NATURAL CREEKS, RIVERS OR DRAINAGE FEATURES SHOWN HEREIN. A DRAINAGE EASEMENT IS HEREBY ESTABLISHED FOR THE THE SOLE PURPOSE OF PROVIDING FOR THE EMERGENCY PROTECTION OF THE FREE FLOW OF SURFACE WATERS ALONG ALL WATERCOURSES AS ESTABLISHED BY THE REGULATIONS OF THE CITY OF NEWNAN. THE PUBLIC WORKS DIRECTOR MAY CONDUCT EMERGENCY MAINTENANCE OPERATIONS WITHIN THIS EASEMENT WHERE EMERGENCY CONDITIONS EXIST. EMERGENCY MAINTENANCE SHALL BE THE REMOVAL OF TREES AND OTHER DEBRIS, EXCAVATION, FILLING AND THE LIKE, NECESSARY TO		NEWNAN
	REMEDY A CONDITION, WHICH IN THE JUDGMENT OF THE PUBLIC WORKS DIRECTOR, IS POTENTIALLY INJURIOUS TO LIFE, PROPERTY OF THE PUBLIC ROADS OR UTILITY SYSTEM. SUCH EMERGENCY MAINTENANCE, CONDUCTED FOR THE COMMON GOOD, SHALL NOT BE CONSTRUED AS CONSTITUTING A CONTINUING MAINTENANCE OBLIGATION ON THE PART OF THE CITY OF NEWNAN NOR AN ABROGATION OF THE CITY'S RIGHTS TO SEEK REIMBURSEMENT FOR EXPENSES FROM THE OWNERS OF THE PROPERTY/IES OF THE LANDS THAT GENERATED THE CONDITIONS.		นี่ COWE COUN
- IY	DROLOGY NOTE:		
19.	THE EXISTING WET EXTENDED DETENTION POND ON-SITE WAS DESIGNED AND INSTALLED AS PART OF THE HYDROLOGICAL REPORT FOR INCONTROL, INC. BY SEABOLT & CO., INC. DATED 6/9/2008. AS PART OF THIS DEVELOPMENT, AN ASBUILT SURVEY WAS PERFORMED ON THE OUTLET CONTROL STRUCTURE AND THE VOLUME OF THE POND. THE DESIGN OF THE WATER QUALITY COMPONENT OF THE POND ACCOUNTED FOR 2.05 ACRES OF IMPERVIOUS AREA DRAINING TO IT. THIS PROPOSED DEVELOPMENT INCLUDES 0.76 ACRES OF IMPERVIOUS SURFACES AS WELL AS 1.38 ACRES OF GRAVEL SURFACES. IN ORDER TO ACCOUNT FOR THE PARTIALLY IMPERVIOUS NATURE OF THE GRAVEL SURFACES. HLP ASSUMES THE GRAVEL TO BE	PRE	PARED FOR:
	85% IMPERVIOUS. USING THIS CALCULATION FOR WQV PURPOSES, THE TOTAL CONTRIBUTING AREA OF IMPERVIOUS SURFACES IS 1.93 ACRES. SINCE THIS VALUE IS LESS THAN THE AMOUNT THAT THE FACILITY WAS DESIGNED FOR, HLP FEELS THAT THE EXISTING WATER QUALITY COMPONENT OF THE POND IS SUFFICIENT IN TREATING THE REQUIRED WOV FOR THE SITE IN LIEU		
1	OF USING A RUNOFF REDUCTION PRACTICE.		DE CONT

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SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOT 73 & 74 OF THE 5th DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA SITE ADDRESS: 141 HILLWOOD CIRCLE

GPS LOCATION OF THE CONSTRUCTION EXIT LAT: 33.3974668° LONG: -084.7820601°

SITE LOCATION MAP







CITY OF NEWNAN SPECIAL NOTES:

DRAINAGE EASEMENT NOTE: The owner of record, on behalf of himself (itself) and all successors in interest specifically releases the city of newnan from any and all liability and responsibility for flooding or erosion from storm drains or from flooding from high water of natural creeks, rivers or drainage features shown herein. a drainage easement is hereby established for the sole purpose of providing for the emergency protection of the free flow of surface waters along all watercourses as established by the regulations of the city of newnan. the public works direct or may conduct emergency maintenance operations within this easement where emergency conditions exist. emergency maintenance shall be the removal of trees and other debris, excavation, filling and the like, necessary to remedy a condition, which in the judgment of the public works director, is potentially injurious to life, property or the public roads or utility system. such emergency maintenance, conducted for the common good, shall not be construed as constituting a continuing maintenance obligation on the part of the city of newnan nor an abrogation of the city's rights to seek reimbursement for expenses from the owner/s of the property/ies of the lands that generated the conditions.

The approval of these plans and the issuance of this land disturbance permit does not in any way suggest that all other requirements for the legal or appropriate operations for this activity, which may require additional permitting have been met. The onus is on the Owner/Developer/Builder to discover what additional permitting or approvals may be necessary to operate from this point in an appropriate and legal manner. Plan approval or permit issuance does not absolve the applicant from complying with all applicable laws, standards, or other permits which may be required for this project.

COMPACTION TEST: Compaction test will be required in existing or proposed streets, sidewalks, drives, and other existing or proposed paved areas at varying depths and at intervals as determined by the City Engineer. Unless otherwise noted all backfill in the right of way shall be compacted to 95% standard proctor per ASTM D 698. Contact Ray Norton for proof rolls at 404-606-9140 and send all compaction test results to shenriquez@cityofnewnan.org and rnorton@cityofnewnan.org

- Subgrade (at least one test per 1,500 linear feet alternating lanes and one in each cul-de-sac), if less than 1,500 linear feet then one per day/per section constructed, must also pass proof roll. Base (at least one per 1,500 linear feet alternating lanes and one in each cul-de-sac), if less than 1,500 linear feet then one
- per day/per section constructed, must also pass a proof roll. Curb and Gutter (rock beneath C&G), must pass a proof roll before curb and gutter is poured. Pipes – One test per lift on alternating sides of pipe for each 300 linear feet of pipe or portion thereof. Test pattern is to
- begin after first compactive layer above structures bedding and continue to 1 foot above top of pipe. Manholes –In the top 5 feet, minimum of one test every other lift around the perimeter of structure and continue to top of structure.

SITE PREP & TREE PROTECTION INSPECTION: Prior to clearing, or clearing and grubbing of the property or any portion included under the development permit, the developer must call for an INITIAL inspection of erosion and sedimentation control measures and protective devices to include tree protection fence. Inspection of these measures will then be conducted on a continuing basis.

PERMENANT PONDS: Upon completion of permanent detention ponds that are not otherwise used for sediment storage. If ponds are concrete the developer must call for footing inspections and wall inspections prior to pouring concrete. **STORM PIPES:** Upon installation of storm drainage pipe or other storm water facilities underneath public roads prior to

booking and during compaction. Inspections will include storm pipe and structure connections, bedding, grout outside and nside, poured inverts, proper compaction of backfill, detention pond – contact Rob Hill for these inspections his direct line is 678-673-5477 or email at rhill@cityofnewnan.org.

CCTV INSPECTION OF STORM SEWER INFRASTRUTURE: Storm Sewer Infrastructure shall have a CCTV inspection prior to acceptance by the City. All CCTV inspections will be conducted in accordance with the National Association of Sewer Service Companies, Inc. (NASSCO) Pipeline Assessment Certification Program (PACP). Certified assessment reports, repair recommendations and DVDs will be submitted to Public Works by the owner's engineer. Public Works will review the reports and recommendations and approve or revise recommended remedial action on piping, structures, and backfill and street sections. Storm drainage systems: CCTV of storm drainage systems will be conducted after subbase stone has been compacted and setup, just prior to placement of first lift of pavement surface, but not less than 30 days after installation and backfill to allow for consolidation and settlement of backfill material.

CURB AND GUTTER: Street curbing and gutter (if provided). Inspection shall be requested before the forms or string lines have been set to verify GAB depth and compaction beneath Curb and Gutter and after forms or string lines have been set to verify alignment and layout. Street width and vertical and horizontal alignment will also be spot-checked.

SUB-GRADE STREETS: Sub-grade of streets shall be inspected after compaction and receipt of test reports by the City Engineer or his/her designee. The sub-grade must be roll tested with an eighteen (18) ton load on a tandem dump truck and shall pass to the satisfaction of the City Engineer or his/her designee.

BASE STREETS: Street base shall be inspected after receipt of test reports by the City Engineer or his/her designee; the base must be string-lined for depth and crown. The street base must be roll-tested with an 18-ton load on a tandem dump truck and shall pass to the satisfaction of the City Engineer or his/her designee.

PAVING STREETS: An inspector may be on site during the paving process to check consistency, depth, and workmanship, as applicable. For asphalt paving, the temperature of the material will be monitored and the street will be cored after completion to check thickness and density. Satisfactory test results of the cores shall be delivered to the City Engineer or his/her designee prior to approval of a final subdivision plat or certificate of occupancy.

SIDEWALKS: Pre-pour forms inspection will include: compacted subgrade, optimum moisture, free of organics and debris, cross slope not to exceed 2%, 5-6 feet wide (reference plans) with 2-4 foot grass strip unless noted otherwise, expansion joints at all cold joints, around structures and every 60 feet, contraction joints spaced 5 to 6 feet apart depending on sidewalk width and pattern (picture frame/streetscape), ramps per GDOT with truncated domes set in concrete yellow is the preferred color.

In accordance with the City of Newnan Sidewalk Regulations, prior to commencement of work, the Engineering Department, will conduct an assessment on the condition of existing sidewalks. The developer is to be responsible to place, replace, repair, and correct any code violations, and bring existing sidewalks abutting their project site into compliance. This includes the coordination for relocation of existing utilities when necessary. This work shall be performed in coordination with city of Newnan Engineering Department.

SILT FENCE: Newnan only allows the use of Type "S" silt fence or approved Type "S" Alternatives. Silt fence has a useful life of 6 (six) months generally.

STRIPING AND SIGNAGE: Submit artwork for street name signs to Michael Klahr at mklahr@cityofnewnan.org for approval before signs are ordered. Road acceptance will not occur until all regulatory signs, street name signs, and thermoplastic striping are in place.

TREET CUT NOTE: For utility crossings under existing roads, use directional bore or jack and bore unless approved by the City Engineer. If pavement cuts are proposed provide a detail for approval by the City Engineer.

NOI: A copy of the N.O.I and proof of fees paid to the GA EPD shall be delivered to the Engineering Department, Attn: City Engineer, prior to approval of these development plans or a land disturbance permit being issued.

AS-BUILTS: "As-Built" drawings shall be submitted to the City Engineer prior to street acceptance. These shall include all information contained on the approved construction drawings in the "As-Built" state. All "as-built" drawings shall be submitted in both hard copy and digital format and be on the state plane coordinate system, USA, GA, NAD 83, West. The digital copy shall be in AutoCAD file format and pdf format.

STREET SIGNS (PUBLIC): Street name signs shall be: 9 inch Blades, Double Sided, white letters on green background, with City seal (furnished). Lettering in accordance with MUTCD Section 2D.43, and D3-1 in Figure 2D-10. No border, high intensity Prismatic, Not to exceed 48 inches in length, scale letters as appropriate to meet this length requirement. Abbreviations in accordance with MUTCD Table 1A-1. Standard post system, GDOT Type 7, installed in accordance with GDOT installation standard. Install over STOP sign, lower blade perpendicular to STOP sign, use 12 inch brackets. Submit artwork for each sign to City Engineer for approval prior to making signs.

<u>RETAINING WALLS</u>: Retaining walls that are 4 feet and over must be designed by qualified engineer. These will require separate submittals with factor of safety calculations and all dimensions, details, plan and profile drawings, picture, material type with guardrail at top where necessary, etc. A separate permit will be required for each wall that is 4 feet or higher. Third party inspections will be required to include but not limited to the footing, rebar, grid, soil, concrete, drains, and final inspection. An engineer's certification that the wall was installed according to the design is also required and must be submitted to the Engineering Department prior to final approval of the project or certificate of occupancy. If the wall is in an overlay district it must be faced or finished to be more decorative and in compliance with the overlay district standards which are approved by the Planning Department.



				RKA	RKA	RKA	Apr.
				3/7/24	7/8/24	5/6/24	Date
				RE-ISSUED FOR PERMITTING	ISSUED FOR PERMITTING	ISSUED FOR REVIEW	Description
				ы.	2.	1.	Rev.
Date: Drawn by: Check by 6/21/24 EAM RKA			VER				
SITE DEVELOPMENT PLANS	FOR		BZ CUNIKACIING	WORLD HEADOUATERS			LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA
		O G B	F \s T	E R 263	3)
R 8/7	PR PR 1/24		κ.		MA		Y
					LAND PLANNING	201 PROSPECT PARK, SUITE A, PEACHTREE CITY, GEORGIA 30269	(P) 770,631.0499 COA No. PEF008658 Exp. 06/30/2024
D	RA C		vin 0	0 10	ы N 0	О.	

1.	OWNER:
	B2 CONTRACTING
	180 WALTER WAY #110 FAYETTEVILLE, GA 30214
	EMAIL: BHARP@B2CONTRACTING.COM
2	PHONE: (770) 789-2123
	HIGHLAND LAND PLANNING
	201 PROSPECT PARK, SUITE A PEACHTREE CITY, GA 30269
	CONTACT: REID K ALMAND, P.E. EMAIL: REID.ALMAND@HIGHLANDLP.US
•	PHONE: (770) 631-0499
3.	
	315 CAASTLEWOOD RD TYRONE GA 30290
	CONTACT: SCOTT BODKIN, R.L.S. PHONE: (770) 312-5500
4.	ZONING: IHV, HEAVY INDUSTRIAL
5.	TOTAL SITE AREA = 8.31 +/- ACRES
	FLOODPLAIN AREA = 2.25 AC. TOTAL DISTURBED AREA: 4.8 ACRES
	IMPERVIOUS 0.76 AC., GRAVEL 1.38 AC., TOTAL IMPERVIOUS FOR WQV CALCULATIONS (GRAVEL @ 85%) 1.93 AC.
6.	24 HOUR CONTACT: BRANDON HARP, (770) 789-2123
6.	LOT DIMENSION REQUIREMENTS PER CITY OF NEWNAN ZONING ORDINACE: MINIMUM LOT SIZE - 2 ACRES (87,120 SF)
	FRONT SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT SIDE SETBACK: 30 FT
	STREET SIDE SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 F REAR SETBACK: 40 FT
	MINIMUM BLUG LINE WIDTH:200 FT MINIMUM LOT FRONTAGE: 200 FT MINIMUM LOT DEBTH: 200 FT
	PRINCIPLE BUILDING HEIGHT: 35 FT
	MAXIMUM BUILDING COVERAGE 60% (LOT) BASE/MAXIMUM FLOOR AREA RATIO: 0.30 / 0.50
	DISTANCE BETWEEN BUILDINGS: 25 FT
7.	LANDSCAPE STRIPS: 10 FT PERIMETER
8.	VEHICLE STORAGE SUMMARY:
	SHOP/WAREHOUSE: 0.25/1000 SQ. FT. = 4,000 SQ FT = 1 SPACES TOTAL = 27 SPACES
	TOTAL PROVIDED = 27 SPACES (1 HANDICAP SPACES)
9.	EXISTING UTILITY LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT
	FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ALL
	RESPONSIBILITY TO COORDINATE HIS OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK, THE CONTRACTOR MUST MAINTAIN AND PROTECT ALL SUCH UTILITIES, OR RELOCATE
	UTILITIES AS NEEDED.
10.	ALL WORK SHALL CONFORM TO THE CITY OF NEWNAN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS
11.	A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A.
	2013.
12.	STATE WATERS ARE PRESENT ON OR WITHIN 200 FT OF THIS PROJECT SITE.HOWEVER, THEY WILL NOT BE AFFECTED BY CONSTRUCTION ACTIVITIES.
13.	WETLANDS DO NOT EXIST ON THE SITE BUT ARE NOT EFFECTED BY SITE DEVELOPMENT.
14.	HIGHLAND LAND PLANNING LLC DOES NOT ACCEPT RESPONSIBILITY FOR THE DESIGN, PERMITTING, OR
	INSPECTION OF ANY RETAINING WALLS. CONTRACTOR TO COORDINATE WITH THE DEVELOPER ON DESIGN AND PERMITTING.
15.	CIVIL PLANS DEPICT APPROXIMATE LOCATIONS OF STRUCTURES. CONTRACTOR SHALL UTILIZE ARCHITECTURAL PLANS TO LAYOUT ALL BUILDINGS. INCLUDING SITE WORK REQUIRING SPECIAL
	DETAILS ON ARCHITECTURAL PLANS. ANY SIGNIFICANT DEVIATION BETWEEN ARCHITECTURAL PLANS AND CIVIL LAYOUT SHOULD BE REPORTED TO THE SITE CIVIL ENGINEER AS SOON AS POSSIBLE.
16.	ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS SHALL BE
	RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. THIS RESTORATION SHALL BE SUBJECT T
	THE OWNER'S APPROVAL; MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REGRASSING, REVECTATION, BEDLACING FENCES, BEDLACING THESE, STO
17.	LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ALL TRAFFIC.
	CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE
	CONTRACTOR AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GADOT STANDARD SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINE
	DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.
18.	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES AND SHALL AT ALL TIMES TAKE ALL DEASONADLE SAFETY
	PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL STATE AND MUNICIPAL SAFETY LAWS AND BUILDING
	CONSTRUCTION CODES.
19.	CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF WATEF IN STREETS, DRIVES, TRUCK COURTS, TRENCHES, ETC. WILL NOT BE ALLOWED.
20.	CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES AND ADJUSTMENT OF
	EADTING DANITARY DEWER GLEANOUTS, WATER METERS AND ANY OTHER APPURTENANCES TO FINAL GRADE AS REQUIRED.
21.	CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL STORM WATER POLLUTION PREVENTION LAWS AND ORDINANCES.
22	THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING OPERATIONS THAT MEET OR EXCEED AN
	LOCAL STATE OD FEDERAL DEDMIT DECUIDEMENTO ANN DEDMIT VIOLATION OD VIOLATIONO OD STATE

CRITERIA FOR OSHA.

- ACTIVITY.
- CONSTRUCTION FACILITIES DURING CONSTRUCTION.
- PRESENTLY IN EFFECT.

DEMOLITION NOTES

- IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

GRADING/CONSTRUCTION NOTES:

- REQUIRED TO RAISE/LOWER SITE TO FINAL GRADES.
- 5. SEE SHEETS C500 C530 FOR SITE EROSION CONTROL MEASURES.
- 6. CLEARING LIMITS DETAILED ON THE TREE PROTECTION PLAN.
- NOTED.

UTILITY NOTES

- CONTACT SCOTT TOLAR, (770)301-0245.
- SHALL BE C900.
- CONSTRUCTION.
- FROM THE TRANSFORMER OR LOCAL UTILITY TO THE BUILDING.
- FROM THE LOCAL UTILITY TO THE BUILDING.
- UTILITIES DURING CONSTRUCTION.
- CRITERIA FOR OSHA.
- WITH PUSH ON OR MECHANICAL JOINTS.

- 11. ALL WATER PIPE 3" AND SMALLER SHALL BE PVC SCH 80.
- - DOMESTIC METER PROVIDED BY CITY.
 - TWO POINTS OF WATER AND SEWER LINE IS TEN FEET (10'). POINTS OF THE WATER AND SEWER LINES IS EIGHTEEN INCHES (18").
 - BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.

MEANS OF PROTECTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE

24. THE UTILITY PROTECTION AGENCY IS TO BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE

25. CONTRACTOR TO COORDINATE WITH POWER COMPANY PROVIDING TEMPORARY SERVICE FOR

26. CONTRACTOR IS TO COMPLY WITH ALL LOCAL BUILDING CODES AND REGULATIONS WHICH ARE

27. SIGNS SHALL BE PERMITTED THRU PLANNING AND ZONING DEPARTMENT.

28. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS OF LANDSCAPE AREAS SHOW CLEAR SPACE, AND ARE TYPICALLY BACK OF CURB UNLESS OTHERWISE NOTED.

29. ALL SITE LIGHTING TO BE BUILDING MOUNTED. NO PARKING LOT POLES REQUIRED

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ON SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER

CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

4. ALL AREAS NOTED ON SHEET C100 SHALL BE DEMOLISHED AND REMOVED FROM THE SITE AFTER THE INSTALLATION OF EROSION CONTROL MEASURES AND PRIOR TO BEGINNING SITE WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OTHER SHEETS IN THIS PACKAGE. ITEMS REQUIRING DEMOLITION BASED ON NEW CONSTRUCTION AND NOT DETAILED ON THIS SHEET SHALL ALSO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH DEMOLITION REQUIREMENTS.

5. SAWCUT EDGES OF ASPHALT DEMOLITION, PATCH AND REPAIRAS NECESSARY.

COMPLETELY REMOVE TREES EFFECTING NEW WORK ONLY. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES TAKEN OUT THAT ARE NOT IN CONFLICT WITH SITE IMPROVEMENTS. REFER TO SHEET C100 FOR LOCATION OF TREE PROTECTION FENCING.

1. ALL CONTOURS ON PAVEMENT, OR ELSEWHERE, ARE TOP OF FINISHED PAVEMENT OR SURFACE.

2. SLOPES AND DISTURBED AREAS NOT COVERED BY PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED AND COVERED WITH MATTING AS DESIGNATED ON EROSION CONTROL FERTILIZED AND WATERED TO PROVIDE A HEARTY, MOWABLE STAND OF GRASS. SMALL ROCKS AND DEBRIS MUST BE REMOVED. ISLANDS TO BE BACKFILLED TO TOP OF CURB WITH TOPSOIL AND GRADED TO DRAIN.

3. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS. IMPORTING AND EXPORTING OF SOIL MAY BE

4. MAXIMUM SLOPES ON CUT OR FILL SECTIONS SHALL NOT EXCEED 2:1 UNLESS OTHERWISE NOTED.

7. HDPE (HIGH DENSITY POLYETHYLENE) SHALL BE USED FOR ALL STORM PIPING UNLESS OTHERWISE

1. WATER SERVICE PROVIDED BY NEWNAN UTILITIES, LOCATED AT 70 SEWELL RD, NEWNAN, GEORGIA. NEWNAN UTILITIES STANDARD SPECIFICATIONS SHALL APPLY TO ALL WATER CONSTRUCTION.

2. SEWER SERVICE PROVIDED BY NEWNAN UTILITIES, LOCATED AT 70 SEWELL RD, NEWNAN, GEORGIA,

2. ALL FIRE SERVICE WATER PIPE SHALL BE C900 UNLESS OTHERWISE INDICATED HEREIN. ALL DOMESTIC WATER SERVICE PIPE 3-INCHES AND SMALLER SHALL BE PVC SCH 80. LARGER DOMESTIC SERVICE PIPE

NEWNAN UTILITIES STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER

4. THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL ELECTRICAL PADS FROM THE LOCAL POWER COMPANY AND PROVIDING SERVICE

THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL TELEPHONE PEDESTALS FROM THE LOCAL UTILITY COMPANY AND PROVIDING SERVICE

CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS AND IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING

CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE

SANITARY SEWER PIPE SHALL BE PVC SDR 26 ASTM 3034 FOR PIPES LESS THAN 16' DEEP AND GREATER THAN 4' DEEP UNLESS OTHERWISE NOTED. PVC PIPE SHALL BE BELL AND SPIGOT TYPE WITH INTEGRAL BELL AND RUBBER GASKETS. ALL OTHER PIPE SHALL BE DUCTILE IRON CLASS 50 AWA C150, ANSI: A21.S1

9. ALL SANITARY SEWER LATERALS SHALL BE PVC SDR26 AND SIZED AT 6-INCH MINIMUM. LATERALS SHALL BE INSTALLED AT A MINIMUM 1% SLOPE. SEE PLUMBING PLANS FOR CONTINUATION AT BUILDING.

10. ALL CONNECTIONS TO STRUCTURES REQUIRE KOR-N-SEAL OR EQUAL RUBBER BOOTS.

12. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4' COVER OVER ALL SEWER AND WATER LINES.

13. CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER SERVICE WITH NEWNAN UTILITIES.

14. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO

15. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD

- 16. ALL ELECTRIC, TELEPHONE AND GAS LINES, INCLUDING SERVICE LINES, SHALL BE CONNECTED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ANY PERMITTING OR CONNECTION FEES THAT MAY BE REQUIRED, ALL UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANIES SPECIFICATIONS.
- 17. ALL WATER AND SEWER LINES ARE TO BE LOCATABLE BY USE OF WIRE OR DETECTABLE TAPE.
- 18. FOR ALL UTILITY CROSSINGS UNDER EXISTING ROADS, USE DIRECTIONAL BORE OR JACK AND BORE UNLESS APPROVED BY THE CITY ENGINEER. IF PAVEMENT CUTS ARE PROPOSED PROVIDE DETAIL FOR APPROVAL BY THE CITY ENGINEER.
- 17. CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. ANY ACCIDENTAL BREAKS OR INTERRUPTIONS IN SERVICE TO EXISTING UTILITIES, WHETHER DETAILED ON THESE DRAWINGS OR NOT, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND ALL UTILITIES, INCLUDING NOTIFYING ENGINEER OF ANY CONFLICTS BETWEEN NEW AND EXISTING UTILITIES PRIOR TO INSTALLATION.
- 18. CONTRACTOR MUST PROVIDE PROPER TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AT THE DRIVEWAY CONNECTION AT STILLWOOD DRIVE AND NEWNAN CROSSING BOULEVARD IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST ED.).

SIGNING AND MARKING NOTES:

- 1. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL MEET THE LATEST ADA, MUTCD, GDOT AND GA CODE.
- 2. ALL PAVEMENT MARKINGS WITHIN THE RIGHT OF WAY, STRIPES, ARROWS, WORDS, ETC., SHALL BE HOT APPLIED THERMOPLASTIC AND ALL SIGNS SHALL BE HIP UNLESS INDICATED OTHERWISE.
- 3. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
- CONTRACTOR SHALL ERADICATE ALL STRIPING IN CONFLICT WITH THE TRAFFIC FLOW PLAN. UTILIZE BLASTING, SUCH AS SAND BLASTING OR WATER BLASTING, GRINDING, OR OTHER APPROVED METHODS TO COMPLETE REMOVE PAVEMENT MARKINGS WITHOUT MATERIALLY DAMAGING THE PAVEMENT SURFACE OR TEXTURE. REPAIR (AT THE CONTRACTOR'S EXPENSE) DAMAGE TO THE PAVEMENT OR OTHER SURFACE FROM REMOVING THE MARKINGS.
- 5. ALL SIGNS SHALL BE MOUNTED 7' ABOVE GRADE.
- 6. STOP SIGNS MUST BE BREAK-A-WAY MOUNTED ON A SQUARE TUBE. ALL OTHER SIGNS MAY BE MOUNTED ON U-CHANNEL.

SOIL & EROSION CONTROL NOTES:

1. 24 HOUR CONTACT: BRANDON HARP, (770) 789-2123

- 2. TOTAL DISTURBED AREA = 4.8
- 3. 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.
- 4. EROSION CONTROL MEASURES MUST 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.
- ALL EROSION CONTROL MEASURES ARE TO CONFORM TO THE STANDARDS SET FORTH IN THE "MANUAL 5 FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LATEST EDITION.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL 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 DEVELOPER IMMEDIATELY!!
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 8. SEDIMENT CONTROL MEASURES MUST BE INSTALLED BEFORE CLEARING AND GRADING BEGINS.
- INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY PRIMARY PERMITEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH NPDES PERMIT NUMBER GAR 100001.
- 10. DISTURBED AREAS TO BE STABILIZED WITH MULCH WHERE SLOPES EXCEED 3%.
- 11. INSPECTION AND REPAIR OF EROSION CONTROL MEASURES IS REQUIRED ONCE A WEEK AND AFTER EACH RAIN EVENT. 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.
- 12. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- 13. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
- 14. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER IS INSTALLED.
- 15. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT COLLECTION AREAS WHEN REQUIRED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 5TH ED. OR THE CITY OF NEWNAN.
- 16. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED TO CITY OF NEWNAN STANDARDS.
- 17 A COPY OF THE APPROVED LAND DISTURBANCE AND NPDES PERMIT SHALL BE PRESENT ON THE JOB SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- 18. PROVIDE CONSTRUCTION EXIT AS SHOWN ON PLANS AND MAINTAIN DURING CONSTRUCTION.
- 19. NEWNAN ONLY ALLOWS THE USE OF TYPE C SILT FENCE OR APPROVED TYPE C ALTERNATIVE. SILT FENCE HAS A USEFUL LIFE OF SIX MONTHS GENERALLY.
- 20. NO ALTERNATIVE BMP'S WERE USED IN THE DESIGN OF THE ES&PC PLAN.
- 21. NO CONSTRUCTION ACTIVITY WILL DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

TREE PROTECTION NOTES:

		Π			RKA	rka Apr.
1.	CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION	H		- VC/L/0	7/8/24	5/6/24 1 Date
2.	CONFERENCE WITH THE CITY LANDSCAPE ARCHITECT PRIOR TO ANY LAND DISTURBANCE. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY THE CITY LANDSCAPE APCHITECT.					
3.	NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.					
4.	REFER TO STANDARDS IN GENERAL SPECIFICATIONS FOR TREE PROTECTION.				PERMITTING	REVIEW
5.	DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR 1/2 HEIGHT OF TREE, WHICHEVER IS GREATER, UNLESS OTHERWISE NOTED HEREIN. FOR 2-INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.				ISSUED FOR	 ISSUED FOR V. Description
6.	TEMPORARY FENCING (4 FT HIGH) SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.	ру:		ſ		Re
7.	DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.	y: Check RKA	-			
8.	PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.	d mwb ∖M				
9. 10.	TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING. FOR PRUNING GUIDELINES, SEE ANSI #300.	Date: Dr 6/21/24 EA				
11.	CONSTRUCTION ENTRANCE, ROADS AND UTILITIES SHALL AVOID CRITICAL ROOT ZONES.					
12.	SEE SHEETS C510 - C530 FOR SITE EROSION CONTROL MEASURES			\mathbf{N}		
AC	CESSIBLE ROUTE NOTES (EXTERIOR)			JTE,		
1.	MAXIMUM CROSS SLOPE OF ACCESSIBLE ROUTES, SIDEWALKS, AND HANDICAP PARKING STALLS AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 2% (1/50).			L NO		
2.	THE MAXIMUM RUNNING SLOPE OF ACCESSIBLE ROUTE ALONG SIDEWALKS SHALL NOT EXCEED A SLOPE OF 5% (1:20). SEE RAMP NOTES BELOW.			ERAJ		
3.	MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS INTERSECTING SIDEWALKS MEET THIS REQUIREMENT. LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.			GENI		
4.	FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS: - 0 TO 1/4": NO REQUIREMENTS - 1/4" TO 1/2": BEVEL WITH 1:2 SLOPE - LARGER THAN 1/2": CONFORM TO REQUIREMENTS FOR RAMP	┝				Т
5.	RAMPS: MAX RAMP SLOPE 8.33% (1:12). RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE. MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30') MAX CROSS SLOPE OF RAMP 2% (1:50)					ITY, GEORGIA
6.	LANDINGS: - RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP. - LANDING SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT. - LANDING LENGTH SHALL BE MINIMUM 5' CLEAR - IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'X5'. - ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.	<u>n</u>	2 7		EKS	N, COWETA COUN
7.	 HANDRAILS: HANDRAILS REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6". PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSION AT TOP AND BOTTOM LANDINGS. PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS. ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS. STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUT OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS. 	ANTER ADMENT PLAN	FOR	CONTRACTINC		DISTRICT, CITY OF NEWNAN
8.	 <u>CURB RAMPS:</u> MAX SLOPE OF CURB RAMP 8.33%. MAX SLOPE OF SIDE FLARES 10%. MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%. MIN WIDTH 36" (NOT INCLUDING SIDE FLARES). DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHTS OF WAY, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE. 	SITFI		B2 (WOKLL	TS 73 AND 74 OF THE 5TH I
9.	PARKING SPACES - MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE - MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES - MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES - MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION					LAND LC
10.	SIGNAGE ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE (7' ABOVE GRADE UNLESS OTHER HEIGHT REQUIRED BY LOCAL JURISDICTION).	/		R	G R E D	
11.	PAVEMENT MARKINGS: AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)	Ŕ	PROF	6.4726	3 DNAL	リ
12.	ACCESSIBLE ROUTES MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003, OR LATEST EDITION.	8/7	1/24	<u>к</u> . А		269
	GEORAMON			E H I G H L A N I	C N D PLANNING	O 201 PROSPECT PARK, SUITE A, PEACHTREE CITY, GEORGIA 30 (P) 770.631.0499 COA NO. PEF008658 Exp. 06/30/2024
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CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY

2. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY

. NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. 4. A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE



SURVEY PLAN NOTES:

- A. SEE SHEET C001 FOR ADDITIONAL SITE PLAN NOTES. B. DEMO ALL BRUSH, STRUCTURES, FOOTINGS AND DEBRIS PILES. DEMO TREES THAT ARE NOT SURROUNDED BY TREE PROTECTION FENCING ONLY AS NECESSARY.
- C. PROPERTY SUMMARY: EXISTING PROPERTY: 8.31 +/- AC (TOTAL)
- D. SURVEY NOTE: GA STATE PLANE, WEST ZONE, NAD 83 E. A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR COWETA COUNTY
- COMMUNITY PANEL #13077C0143D DATED FEB. 6, 2013. F. NO WETLANDS, BUT STATE WATERS ARE PRESENT ON SITE, OR WITHIN 200 FEET OF THE PROPOSED DEVELOPMENT, BUT NOT AFFECTED BY THE PROPOSED DEVELOPMENT
- G. CONTRACTOR SHALL PLACE TREE SAVE FENCE AROUND PROTECTED AREAS NOTED PRIOR TO LAND DISTURBANCE ACTIVITIES. CONTACT CITY OF NEWNAN FOR APPROVAL PRIOR TO PROCEEDING. SEE ADDITIONAL NOTES THIS PAGE AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.



SURVEY PLAN LEGEND :

	=	PROPERTY LINE
	=	SETBACK
-00	=	TREE PROTECTION FENCE
	=	LIMITS OF DEMOLITION
$\equiv \equiv \equiv \equiv \equiv$	=	EXISTING ROAD
	=	EXIST. CONTOURS
ъ	=	EXISTING FIRE HYDRANT
\bowtie	=	EXISTING WATER VALVE
-Ò-	=	EXISTING LIGHT POLE





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REMOVED, STUMPS GRUBBED AND ORGANIC TOPSOIL STRIPPED.

- 2. ALL AREAS TO RECEIVE STRUCTURAL FILL MATERIAL SHALL BE EVALUATED PRIOR TO FILL PLACEMENT. THE APPROVAL PROCESS SHOULD INCLUDE PROOFROLLING THE SUBGRADE WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK (20 TONS) DURING A PERIOD OF DRY WEATHER AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. DENSIFICATION OF SUBGRADE SOILS MAY BE REQUIRED.
- 3. ALL STRUCTURAL FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM STANDARD D-698. THE UPPER FOOT OF FILL WHICH WILL SUPPORT PAVEMENTS OR SLABS SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY FOR IMPROVED SUPPORT. IN AREAS WHICH ARE AT OR ABOVE THE FINISHED GRADE, AND WHICH WILL SUPPORT PAVEMENTS OR SLABS, THE UPPER 8 INCHES IMMEDIATELY BELOW THESE SYSTEMS SHOULD BE SCARIFIED AND RECOMPACTED TO THE 98 PERCENT CRITERIA. STRUCTURAL FILL SHOULD BE FREE OF ORGANIC MATERIAL, HAVE A PLASTICITY INDEX (PI) LESS THAN 20 AND CONTAIN ROCK SIZES NO LARGER THAN 4 INCHES.
- 4. DENSITY TESTING SHOULD BE PERFORMED BY A SOILS TECHNICIAN TO DETERMINE THE DEGREE OF COMPACTION AND VERIFY COMPLIANCE WITH THE PROJECT SPECIFICATIONS. FOR UNDERFLOOR AREAS, AT LEAST ONE FIELD DENSITY TEST SHOULD BE MADE PER 5000 SQUARE FEET OF FILL AREA FOR EACH TWO FOOT LIFT. TESTING FREQUENCY SHOULD BE INCREASED IN CONFINED AREAS. AREAS WHICH DO NOT MEET THE COMPACTION SPECIFICATIONS SHOULD BE RECOMPACTED TO ACHIEVE COMPLIANCE. IN CONFINED AREAS, SUCH AS UTILITY TRENCHES, THE USE OF PORTABLE COMPACTION EQUIPMENT AND THIN LIFTS OF 3 TO 4 INCHES MAY BE REQUIRED TO ACHIEVE COMPACTION.
- 5. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS. IMPORTING AND EXPORTING OF SOIL MAY BE REQUIRED TO RAISE/LOWER SITE TO FINAL GRADES. EXCAVATIONS MAY BE ACCOMPLISHED USING CONVENTIONAL HEAVY EARTHMOVING EQUIPMENT SUCH AS DOZER ASSISTED PANS, AND SIGNIFICANT EXCAVATIONS OF ROCK AND PARTIALLY WEATHERED ROCK ARE NOT ANTICIPATED.
- 6. PERMANENT AND TEMPORARY SLOPES SHALL BE CONSTRUCTED NO STEEPER THAN 2H: 1V FOR SLOPES LESS THAN 15 FEET HIGH. PERMANENT SLOPES SHOULD BE CONSTRUCTED NO STEEPER THAN 2H: 1V. ALL FINISHED SLOPES SHOULD BE SUITABLY PROTECTED FROM EROSION.
- 7. ALL CONTOURS ON PAVEMENT, OR ELSEWHERE, ARE TOP OF FINISHED PAVEMENT OR SURFACE.
- 8. SLOPES AND DISTURBED AREAS NOT COVERED BY PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED AND COVERED WITH MATTING AS DESIGNATED ON EROSION CONTROL FERTILIZED AND WATERED TO PROVIDE A HEARTY, MOWABLE STAND OF GRASS. SMALL ROCKS AND DEBRIS MUST BE REMOVED. ISLANDS TO BE BACKFILLED TO TOP OF CURB WITH TOPSOIL AND GRADED TO DRAIN.
- 9. CLEARING LIMITS DETAILED ON THE TREE PROTECTION PLAN.
- 10. EX. GROUNDWATER WELL: ANY WATER WELLS SHALL BE ABANDONED HYDRAULICALLY IN COMPLIANCE WITH GEORGIA LAWS FOR WATER WELLS AS WELL AS "STRUCTURALLY". ONLY A CERTIFIED WATER WELL CONTRACTOR CAN ABANDON WELLS HYDRAULICALLY. UNLESS CEMENT GROUT IS USED FOR WELL ABANDONMENT, WE RECOMMEND THAT ALL WELLS BE STRUCTURALLY PLUGGED WITH CONCRETE PLUG OVERSIZED SO THAT THE PLUG WILL NOT FALL FURTHER INTO THE WELL. THE PLUG SHOULD BE CONSTRUCTED AT LEAST ONE FOOT BELOW FINISH GRADE IN LANDSCAPED AREAS TO FACILITATE GRASSING AND DEEPER IN STRUCTURAL AREAS TO AVOID FOUNDATIONS, UTILITIES, SLABS AND OTHER SIMILAR ITEMS. SPECIFIC RECOMMENDATION FOR STRUCTURAL ABANDONMENT OF THE WELLS CAN BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER.
- 11. COORDINATE ROOF DRAINAGE PIPING WITH ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS. ALL EXTERIOR ROOF DRAIN PIPE SHALL BE HDPE PIPE AT SIZE SHOWN, PLACED MINIMUM 1% FALL TO NEAREST MANHOLE STRUCTURE. CLEANOUTS SHALL BE PROVIDED AT ALL JUNCTIONS.

DRAINAGE EASEMENT NOTE:

12. THE OWNER OF RECORD, ON BEHALF OF HIMSELF (ITSELF) AND ALL SUCCESSORS IN INTEREST SPECIFICALLY RELEASES THE CITY OF NEWNAN FROM ANY AND ALL LIABILITY AND RESPONSIBILITY FOR FLOODING OR EROSION FROM STORM DRAINS OR FROM FLOODING FROM HIGH WATER OF NATURAL CREEKS, RIVERS OR DRAINAGE FEATURES SHOWN HEREIN. A DRAINAGE EASEMENT IS HEREBY ESTABLISHED FOR THE THE SOLE PURPOSE OF PROVIDING FOR THE EMERGENCY PROTECTION OF THE FREE FLOW OF SURFACE WATERS ALONG ALL WATERCOURSES AS ESTABLISHED BY THE REGULATIONS OF THE CITY OF NEWNAN. THE PUBLIC WORKS DIRECTOR MAY CONDUCT EMERGENCY MAINTENANCE OPERATIONS WITHIN THIS EASEMENT WHERE EMERGENCY CONDITIONS EXIST. EMERGENCY MAINTENANCE SHALL BE THE REMOVAL OF TREES AND OTHER DEBRIS, EXCAVATION, FILLING AND THE LIKE, NECESSARY TO REMEDY A CONDITION, WHICH IN THE JUDGMENT OF THE PUBLIC WORKS DIRECTOR, IS POTENTIALLY INJURIOUS TO LIFE, PROPERTY OF THE PUBLIC ROADS OR UTILITY SYSTEM. SUCH EMERGENCY MAINTENANCE, CONDUCTED FOR THE COMMON GOOD, SHALL NOT BE CONSTRUED AS CONSTITUTING A CONTINUING MAINTENANCE OBLIGATION ON THE PART OF THE CITY OF NEWNAN NOR AN ABROGATION OF THE CITY'S RIGHTS TO SEEK REIMBURSEMENT FOR EXPENSES FROM THE OWNERS OF THE PROPERTY/IES OF THE LANDS THAT GENERATED THE CONDITIONS.

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	Y: Check by: Image: Check by:
	4 Drawn b EAM 15' 0' 15' 1' = 30
	Bote: 6/21/24 STORMWATER EASEMENTS
	SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND 23 AND 24 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA
PLAN LEGEND :	BLAMING NO.



STORMLINE A VERT 1"=10' HORZ 1"=50'

tation		Len	Drng A	rea	Rnoff	Area x	(C	Tc		Rain	Total	Сар	Vel	Pipe		Invert Ele	€V	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ine To	0		Incr	Total	coeff	Incr	Total	Inlet	Syst	-(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
Li	ine	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
. 3	3	101 503	0.50	0.50	0.60	0.30	0.30	50	50	57	1 71	10.53	3.07	18	1 00	876.36	877 38	876.94	877 87	882 84	881 86	A5-A4
3 2	2	165.737	0.50	1.00	0.60	0.30	0.60	5.0	6.8	5.3	3.15	10.51	4.64	18	1.00	874.60	876.26	875.16	876.94	880.63	882.84	A4-A3
2 1	1	68.411	0.58	1.58	0.70	0.41	1.01	5.0	8.2	4.9	4.97	30.60	8.75	18	8.49	867.79	873.60	868.20	874.46	872.67	880.63	A3-A2
1 E	End	67.950	0.00	1.58	0.00	0.00	1.01	0.0	8.6	4.9	4.90	33.22	4.02	18	10.01	856.00	862.80	857.18	863.65	858.21	872.67	A2-A1
Project	File:	B2.stm														Number	of lines: 4			Run Da	te: 6/27/20	024

2 YR PIPE CHART SCALE: N.T.S.

on Len	Drng A	rea	Rnoff	Area x	C	Tc		Rain	Total	Сар	Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	im Elev	Line ID
То	Incr	Total	coeff	Incr	Total	Inlet	Syst	-(1)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	
Line (ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
3 101.503	0.50	0.50	0.60	0.30	0.30	5.0	5.0	8.2	2.47	10.53	3.33	18	1.00	876.36	877.38	877.10	877.98	882.84	881.86	A5-A4
2 165.737	0.50	1.00	0.60	0.30	0.60	5.0	6.2	7.9	4.73	10.51	5.23	18	1.00	874.60	876.26	875.31	877.10	880.63	882.84	A4-A3
1 68.411	0.58	1.58	0.70	0.41	1.01	5.0	7.2	7.6	7.65	30.60	10.03	18	8.49	867.79	873.60	868.30	874.67	872.67	880.63	A3-A2
End 67.950	0.00	1.58	0.00	0.00	1.01	0.0	7.5	7.5	7.59	33.22	5.18	18	10.01	856.00	862.80	857.28	863.87	858.21	872.67	A2-A1

25 YR PIPE CHART SCALE: N.T.S.

Statio	n	Len	Drng A	Area	Rnoff	Area	¢ C	Тс		Rain	Total	Сар	Vel	Pipe)	Invert El	ev
Line	То		Incr	Total	-соеп	Incr	Total	Inlet	Syst	-(1)	TIOW	TUII		Size	Slope	Dn	Γ
	Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(1
4	3	101.503	0.50	0.50	0.60	0.30	0.30	5.0	5.0	9.8	2.95	10.53	3.49	18	1.00	876.36	8
3	2	165.737	0.50	1.00	0.60	0.30	0.60	5.0	6.0	9.5	5.69	10.51	5.54	18	1.00	874.60	8
2	1	68.411	0.58	1.58	0.70	0.41	1.01	5.0	6.9	9.2	9.28	30.60	10.71	18	8.49	867.79	8
1	End	67.950	0.00	1.58	0.00	0.00	1.01	0.0	7.1	9.2	9.21	33.22	5.88	18	10.01	856.00	8
Proje	ect File:	B2.stm														Numbe	r o

100 YR PIPE CHART SCALE: N.T.S.

Storm Sewers v2023.00

Page 1 HGL Elev Grnd / Rim Elev Line ID Dn Up Dn Up Up (ft) (ft) (ft) (ft) (ft) 877.38 877.18 878.03 882.84 881.86 A5-A4 876.26 875.39 877.18 880.63 882.84 A4-A3 873.60 868.36 874.78 872.67 880.63 A3-A2 862.80 857.34 863.97 858.21 872.67 A2-A1 r of lines: 4 Run Date: 6/27/2024 Storm Sewers v2023.00



					3/7/24 RKA	7/8/24 RKA	5/6/24 RKA	Date Apr.				
Drawn by: Check by:	EAM RKA				3. RE-ISSUED FOR PERMITTING	0, 50' 2. ISSUED FOR PERMITTING	1. ISSUED FOR REVIEW	1" = 50' Rev. Description				
Date:	6/21/24					50' 25'		SCALE:				
STORM PIPE PROFII												
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA												
No.47263 PROFESSIONAL PROFESSIO												
						LAND PLANNING	201 PROSPECT PARK, SUITE A, PEACHTREE CITY, GEORGIA 30269	(P) 770.631.0499 COA No. PEF008658 Exp. 06/30/2024				
	D	R/ (VIN 3	ہو 5	ы N 0	О.					



G 1.	ENERAL NOTES: OWNER/DEVELOPER - PRIMARY PERMITTEE: (#5) 3.	SURVEYOR:		Engineer Cert	ificatio
	B2 CONTRACTING 180 WALTER WAY #110 FAYETTEVILLE, GA 30214 CONTACT: BRANDON HARP EMAIL: BHARP@B2CONTRACTING.COM	W. S. BODKIN SURVEYING, LI 315 CAASTLEWOOD RD TYRONE, GA 30290 CONTACT: SCOTT BODKIN, R. PHONE: (770) 312-5500	-C L.S.	"I certify under penalty location described here "I certify that the perm	i of law that t in by myself nittee's Erosic
2.	PHONE: (770) 789-2123 ENGINEER - QUALIFIED PROFESSIONAL: HIGHLAND LAND PLANNING 201 PROSPECT PARK, SUITE A PEACHTREE CITY, GA 30269 CONTACT: REID K ALMAND, P.E. PHONE: REID.ALMAND@HIGHLANDLP.US PHONE: (770) 631-0499			provides for an approp required by the Georgi Erosion and Sediment Conservation Commiss activity was permitted, sampling of the storm management practices contained in the Gener	riate and con a Water Qual Control in Ge- ion as of Janu provides for water outfalls and sampling al NPDES Per
EF PC	ROSION, SEDIMENTATION	AND ES:		Design professional of start. The primary peri start date prior to that	record shall i mittee shall n start date.
1			#4	REID K ALMAND, P.E.	P.E. #: 4
2.	DISTURBED AREA: 4.8 AC.; TOTAL SITE AREA: 8.31 +/- AC.; TOTAL	TAL IMPERVIOUS AREA: 0.76 AC.			
3.	THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVE	ENTED BY THE INSTALLATION OF EROSIO	N (#19)		
4.	EROSION CONTROL MEASURES MUST BE MAINTAINED AT AL APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROS SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED T SOURCE.	R TO LAND DISTORBING ACTIVITIES. LL TIMES. IF FULL IMPLEMENTATION OF THE SION CONTROL, ADDITIONAL EROSION ANI O CONTROL OR TREAT THE SEDIMENT	HE D (#20)		
5.	ALL EROSION CONTROL MEASURES ARE TO CONFORM TO THE	HE STANDARDS SET FORTH IN THE "MANU	AL		
6.	EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE (LOCATION OF SOME OF THE EROSION CONTROL DEVICES MA THE APPROVED PLANS. IF DRAINAGE PATTERNS DURING CO FINAL PROPOSED DRAINAGE PATTERNS, IT IS THE CONTRAC EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION SHALL BE REPORTED TO THE DEVELOPER IMMEDIATELY!	GROUND DISTURBANCE OCCURS. THE AY HAVE TO BE ALTERED FROM SHOWN O INSTRUCTION ARE DIFFERENT FROM THE TOR'S RESPONSIBILITY TO ACCOMPLISH O AT VARIOUS STAGES DURING IN DURING ANY PHASE OF CONSTRUCTION	Ν	(#29) ITEM1	(A
7.	ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREA WITH MULCH OR TEMPORARY SEEDING.	TER THAN 14 DAYS SHALL BE STABILIZED	#21)		
8.	SEDIMENT CONTROL MEASURES MUST BE INSTALLED BEFOR	RE CLEARING AND GRADING BEGINS.		CLEARING/DEMO	
9.	INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY PRIM RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH NPI	IARY PERMITEE AND THE ASSOCIATED DES PERMIT NUMBER GAR 100001.		STORAGE BMP'S (SEDIMENT PONDS) GRADING/DRAINAGE	
10.	THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PL THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIN AFTER INSTALLATION.	AN IS TO INSPECT THE INSTALLATION OF /IETER CONTROL BMPs WITHIN 7 DAYS	(#14)	PAVING TEMP. GRASSING	
11.	NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN STREAM BUFFERS AS MEASURED FROM THE POINT OF WRES THE COASTAL MARSHLAND BUFFER AS MEASURED BY THE J WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AN	I THE 25 OR 50-FOOT UNDISTURBED STED VEGETATION OR WITHIN 25-FEET OF URISDICTIONAL DETERMINATION LINE ID PERMITS.	(#15)	PERM. GRASSING	
12.	AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVI HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIG	E A SIGNIFICANT EFFECT ON BMPs WITH A N PROFESSIONAL.	# (#17)	LANDSCAPING	
13.	THE PRIMARY PERMITTEE IS REQUIRED TO KEEP THE ES&PC	PLAN UP-TO-DATE.			
14.	STATE WATERS ARE LOCATED ON OR WITHIN 200 FEET OF T	HE PROJECTS BOUNDARIES.			
15.	WASTE MATERIALS SHALL NOT BE DISCHARGED TO STATE W SECTION 404 PERMIT.	ATERS EXCEPT AS AUTHORIZED BY A	(#18)		
16.	THE ES&PC PLAN IS IN COMPLIANCE WITH ALL CURRENT WAS SEPTIC TANK REGULATIONS.	STE DISPOSAL, SANITARY SEWER, AND/OF	2		
17.	EROSION CONTROL MATTING, Ss, IS REQUIRED ON ALL SLOP	ES 3:1 OR STEEPER.			
18.	GAB SHOULD BE PLACED IN PARKING LOT AREA AND DRIVEN	NAY AREAS AS SOON AS POSSIBLE FOR G AREAS.			
19.	NO ALTERNATIVE BMP'S WERE USED IN THE DESIGN OF THE	ES&PC PLAN. (#39)			
20.	MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTR TEMPORARY OR PERMANENT SHALL AT ALL TIMES BE THE RI	OL MEASURES AND PRACTICES, WHETHE ESPONSIBILITY OF THE PROPERTY OWNE	R R.		
	VICINITY MAP			DREDARE	
	<u>ل</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		FREFARE	

COWETA

COUNTY, GA

on (#12)(#13)(#14)

at this plan was prepared after a site visit to the elf or my authorized agent, under my supervision.

osion, Sedimentation and Pollution Control Plan comprehensive system of best management practices uality Control Act and the document "Manual for Georgia," (published by the Georgia Soil and Water anuary 1 of the year in which the land-disturbing for the sampling of the receiving water(s) or the falls and that the designed system of best bling methods is expected to meet the requirements Permit No. GAR 100001."

all inspect the site within 7 days of the construction Il notify the design professional of the construction

#: 47263 GSWCC#: 79754

SITEWORK ACTIVITY SCHEDULE (ANTICIPATED START DATE - MAY 2024)													
	MONTH												
3	9		1	12	1	5	1	8					
	_												
1													

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOT 73 & 74 OF THE 5th DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA PARCEL ID NUMBER: N57A 001A

(#7) GPS LOCATION OF THE CONSTRUCTION EXIT LAT: 33.3974668° LONG: -084.7820601°

SITE LOCATION MAP (N.T.S.) (#10)

					8/7/24 RKA	7/8/24 RKA	5/6/24 RKA	Date Apr.
	Drawn by: Check by: EAM RKA				3. RE-ISSUED FOR PERMITTING	2. ISSUED FOR PERMITTING	1. ISSUED FOR REVIEW	Rev. Description
#8	Date: 6/21/24		EPOSION CONTROL	FINDING CONTINCT	COVER			
	SNV IG LNHWOO IHAHU HLIS			BZ CUNIKACIING	WORLD HFADOLIARTERS			LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA
	8/7					LAND PLANNING	PROSPECT PARK, SUITE A, PEACHTREE CITY, GEORGIA 30269	(P) 770.631.0499 COA No. PEF008658 Exp. 06/30/2024
		0R/ (vin 5	1G	0	0.	

(#2)

REID K ALMAND, P.E.

GSWCC LEVEL II #79754

GA PE #47263

Site Description and Location:	C. <u>OTHER CONTROLS</u>
THE SITE IS LOCATED ALONG THE EASTERN R/W OF HILLWOOD CIRCLE SOUTH OF THE	(1) Waste disposal. Solid materials, including build
NEWNAN, GA. CURRENTLY, THE SITE IS MODERATELY WOODED. IN THE PROPOSED, DEVELOPED	(2) Off-site vehicle tracking of dirt, solids, and sec
CONDITION, THE PROJECT WILL CONSIST OF A TWO-STORY OFFICE AND WAHREHOUSE BUILDING WITH ASSOCIATED PARKING, UTILITIES, LANDSCAPING AND STORMWATER MANAGEMENT.	eliminated to the maximum extent practical. (3) The permittee is in compliance with the state
Construction City Anon	regulations.
LONSTFUCTION SITE AFEA: ITE AREA: 8 31 +/- AC	a. Best management practices for preven
ISTURBED AREA: 4.8 AC.	for leaks and receive regular preventive m products will be stored in tightly sealed co
oil Types: (#47)	stored in tanks will have be surrounded by
E, RK	petroleum products shall be stored and us
etlands: (#42)	and shall be located in an area with the le Emergency contact numbers and procedu
LANDS ARE NOT LOCATED WITHIN THE BOUNDARIES OF THE PROJECT PROPERTY.	b. Best management practices for remed
ate Waters: (#42)	Local, State and manufacturer's rec
TE WATERS ARE LOCATED ON OR WITHIN 200 FEET OF THE BOUNDARIES OF THE PROJECT	 and procedures will be made availa Materials and equipment necessary
ERTY BUT WILL NOT BE AFFECTED BY CONSTRUCTION ACTIVITIES.	Typical materials and equipment in
ainage Description: $(\#11) (\#16) (\#41)$	containers.
TS CURRENT STATE, THE SITE DRAINS CONTAINS SIGNIFICANT SLOPES. IT DRAINS FROM WEST	 Spill prevention practices and proce necessary to prevent future spills.
POSED CONDITION, THE EXISTING BASINS WILL BE MAINTAINED AND STORMWATER WILL BE	All spills will be cleaned up immedia Isoph State, and Endersh regulation
IGED BY A SERIES OF ROADSIDE DITCHES AND CULVERTS.	 FOR SPILLS THAT IMPACT SURFACE
STATE WATERS BUFFER ENCROACHMENTS ARE PROPOSED. CONSEQUENTLY, NO FER VARIANCES ARE NECESSARY.	NATIONAL RESPONSE CENTER (NR 424 - 8802 or 1 - 202 - 426 - 20
	FOR SPILLS OF AN UNKNOWN AMO CONTACTED WITHIN 24 HOURS AB
	 FOR SPILLS GREATER THAN 25 GA
	GEORGIA E.P.D. WILL BE CONTAC • FOR SPILLS LESS THAN 25 GALLON
opes After Grading:	WILL BE CLEANED UP AND LOCAL
XIMUM CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V UNLESS OTHERWISE INDICATED.	gallons of petroleum is stored onsite
osion Control Measures:	equipment has a capacity greater that Containment and Countermeasurers
SION CONTROL MEASURES STRUCTURAL AND NONSTRUCTURAL CONTROLS WILL BE USED	(NOTE: CONTACT NUMBERS HAVE CH
TTE TO PREVENT EROSION DURING CONSTRUCTION INCLUDING TEMPORARY GRASSING AND , STORM DRAIN INLET AND OUTLET PROTECTION, SILT FENCING, SLOPE DRAINS, INLET	CORRECT)
IMENT TRAPS, AND OTHER MEASURES AS NECESSARY TO LIMIT SEDIMENT DISCHARGE FROM	(5) Product Specific Practices
BRIMERY DEPARTEE OF THE EROSION CONTROL PLANS FOR SPECIFIC INFORMATION.	inspected daily for leaks and spills.
NS AVAILABLE UPON REQUEST TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT.	inspections and regular preventative areas will be located away from Sta
DECTIONS SHALL BE DONE BY CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE D THE ASSOCIATED RECORDS SHALL BE KEPT ON-SITE IN COMPLIANCE WITH GAR 100001."	In addition, temporary fueling tanks
	Proper disposal methods will include
	by local and State regulations.
	prevent storm water discharges on
Site Description $(\#9)$ $(\#45)$	a. All petroleum store located under a temp
Existing Site Conditions	b. All petroleum stor
e site currently consists of a moderately wooded parcel.	c. Paints/Finishes/Solvents - All produc
proposed development will consist of a multi-story medical office building. The building will be on a	product, materials used with these
i. GRADING	according to manufacturer's specific
i. DRAINAGE ii PAVING	concrete or drum wash water onsite
/ STORMWATER FACILITIES	e. Fertilizer/Herbicides - These product manufacturer's specifications or abo
nstruction Sequence	the GSWCC Manual for Erosion and
intained for the duration of construction. Perimeter silt fence and the construction exit will be installed	f. Building Materials - No building or c
to clearing of debris. Access to exposed soil will be limited to off-road construction equipment and truction material.	All such material will be disposed of
the initial 2 weeks of clearing of debris, temporary vegetation will be provided. Rough grading will	(#27) gr or lean-to, to ensure no pollution of
after clearing, along with structural controls for sediment storage, concrete work and silt fence as ed. Permanent vegetation will be installed within two weeks of completion of grading activities.	ensure no leakage or commingling
se refer to the Erosion and Sediment Control Plan. Sheet C500, for the activity schedule.	3. Inspections. $(\#_{30})$
	a Permittee requirements
Following runoff coefficients were calculated for the existing and proposed developed conditions of the	(4) Each de la brance la conferencia a l'internette d'
ibuting drainage basins. Basin A - 8.63 ACS.	(1). ⊢ach day when any type of construction activity has taken permittee's site, certified personnel provided by the primary permittee
Existing CN: Basin A - 55 Proposed CN: Basin A1 - 4.47: CN: 74.70. Basin A2 - 4.16 ac: CN: 55	where petroleum products are stored, used, or handled for spil the primary permittee's site where vehicles enter or exit the site
	must be conducted until a Notice of Termination is submitted.
Controls (#36)	(2). Measure and record rainfall within disturbed areas of the s
ollowing controls will be implemented at the construction site:	any non-working Saturday, non-working Sunday and non-work compliance with this permit shall be representative of the moni
itial perimeter RMP controls will include silt fencing and stopp hads to be used at the construction suit	areas of the site have undergone final stabilization or establish appropriate for the region.
ntermediate grading and drainage BMPs will include silt fencing, stone pads, and sediment traps to be	(3). Certified personnel (provided by the primary permittee) sha
at the construction exit, and temporary grassing. Inal BMPs will include permanent grassing by seed and additional landscaping as necessary	days and within 24 hours of the end of a storm that is 0.5 inche
racion and Sodimont Controls	shall be completed by the end of the next business day and/or
crosion and Sediment Controls	primary permittee's construction site; (b) areas used by the pri precipitation; and (c) structural control measures. Erosion and
) <u>Stabilization measures.</u> Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in policies more	primary permittee's site shall be observed to ensure that they a accessible, they shall be inspected to ascertain whether erosic
than 14 days after the construction activity in that portion of the site has temporarily or permanently	to receiving water(s). For areas of a site that have undergone final stabilization or establi
ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or other adverse weather conditions.	perennials appropriate for the region, the permittee must comp
stabilization measures shall be initiated as soon as practicable. Where construction activity will resume on a portion of the site within 21 days from when activities canced. (i.e., the total time	d
that construction activity is temporarily ceased is less than 21 days) then stabilization measures do	 (4). Certified personnel (provided by the primary permittee) shat (i.e., until a Notice of Termination has been submitted) the area
not have to be initiated on that portion of the site by the 14h day after construction activity temporarily ceased.	a crop of annual vegetation and a seeding of target perennials evidence of, or the potential for pollutants entering the drainage
) <u>Structural Practices.</u> Structural practices will be implemented to divert flows from exposed soils or	control measures identified in the Plan shall be observed to
otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. The practices, identified on Sheet(s) C520, include but may not be limited to silt fences.	whether erosion control measures are effective in preventing s
earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil rotaining outcome	(5). Based on the results of each inspection, the site description
gabions, temporary or permanent sediment basins and other measures design and implemented in	the Erosion, Sedimentation and Pollution Control Plan, the Pla days following each inspection. Implementation of such change
accordance with the Manual for Erosion and Sediment Control in Georgia, latest edition. The installation of these devices may be subject to Section 404 of the CWA	seven (7) calendar days following each inspection.
	(6). A report of each inspection that includes the name(s) of ce
storm Water Management	inspection, construction phase (i.e., initial, intermediate or final Erosion, Sedimentation and Pollution Control Plan. and actions
uctural measures should be placed on upland soils to the degree attainable. The called a subject to Section 404 of the CMA. This remains a diverse the	made and retained at the site or be readily available at a desig construction site that has been phased has undergone final sta
anation of these devices may be subject to section 404 of the CWA. This permit only addresses the allation of storm water management measures, and not the ultimate operation and maintenance of	reports shall be readily available by end of the second busines
th structures after the construction activities have been completed and the site has undergone final	management practices that have not been properly installed ar not identify any incidents, the inspection report shall contain a
bilization ()noratore are only reconcible for the installation and incustors are the installed	control in the the English Continuentation and Dellution Con
abilization. Operators are only responsible for the installation and maintenance of storm water anagement measures prior to final stabilization of the site, and are not responsible for maintenance	V.G.2. of this permit.

after storm water discharges associated with construction activity have been eliminated from the site.

uding building materials, will not be discharged to waters of the state,

s, and sediments and the generation of dust will be minimized or

the state and local waste disposal, sanitary sewer, and septic tank

for prevention of petroleum spills: All onsite vehicles will be monitored eventive maintenance to reduce the chance of leakage. Petroleum sealed containers that are clearly labeled. Any petroleum to be rounded by an earthen berm as a secondary protective measure. Any will be applied according to the manufacture's recommendations. All red and used in area that provides a secondary containment feature, with the least foreseeable impact if a catastrophic event should occur. procedures for spills shall be available on-site. for remediation of petroleum spills:

turer's recommended methods for spill cleanup will be clearly posted ade available to site personnel.

necessary for spill cleanup will be kept in the material storage areas. upment includes, but is not limited to, brooms, dustpans, mops, rags, , sand, sawdust and properly labeled plastic and metal waste

and procedures will be reviewed after a spill and adjusted as

ip immediately upon discovery. Ail spills will be reported as required by equiations.

SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE ENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1 _ 800 -426 - 2675

OWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE HOURS AT 1 - 800 - 424 - 8802 or 1 - 202 - 426 - 2675. IAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE CONTACTED WITHIN 24 HOURS

25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL ND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. the licensed professional who prepared this Plan if more than 1320 red onsite (this includes capacities of equipment) or if any one piece of

reater than 660 gallons. The contractor will need a Spill Prevention easurers Plan prepared by that licensed professional. HAVE CHANGED. HIGHLIGHTED BOLD CONTACT NUMBERS ARE

- Containers for products such as fuels, lubricants, and tars will be

and spills. This includes onsite vehicles and machinery daily reventative maintenance of such equipment. Equipment maintenance from State Waters, natural drains, and storm water drainage inlets. eling tanks shall have a secondary containment liner to tamination. Discharge of oils, fuels, and lubricants is prohibited.

will include collection in a suitable container and disposal as required

e done in accordance with one of the two following methods to harges on the site. bleum storage containers shall be covered with plastic sheeting or be

der a temporary roof. pleum storage containers shall be located in a secondary containment

- All products will be stored in tightly sealed original containers when will not be discharged to the storm water collection system. Excess ith these products, and product containers will be disposed of

r's specifications and recommendations. NO concrete trucks will be allowed to wash out or discharge surplus

ese products will be applied at rates that do not exceed the

ions or above the guidelines set forth in the crop establishment or in osion and Sediment Control in Georgia. Any storage of these

oof in sealed containers. uilding or construction materials will be buried or disposed of onsite. disposed of in proper waste disposal procedures.

will be stored in a staging area and covered with appropriate tarps ollution of storm water can occur. All materials to be stored on stone , fuels, or similar to be kept in appropriate water tight containers to mingling with storm water will occur.

has taken place at a primary

primary permittee shall inspect: (a) all areas at the primary permittee's site ndled for spills and leaks from vehicles and equipment and (b) all locations at • exit the site for evidence of off-site sediment tracking. These inspections

eas of the site that have not met final stabilization once every 24 hours except ind non-working Federal holiday. The data collected for the purpose of e of the monitored activity. Measurement of rainfall may be suspended if all n or established a crop of annual vegetation and a seeding of target perennials

rmittee) shall inspect the following at least once every seven (7) calendar t is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any ing Sunday or any non-working Federal holiday in which case the inspection day and/or working day, whichever occurs first): (a) disturbed areas of the ed by the primary permittee for storage of materials that are exposed to rosion and sediment control measures identified in the Plan applicable to the re that they are operating correctly. Where discharge locations or points are hether erosion control measures are effective in preventing significant impacts

tion or established a crop of annual vegetation and a seeding of target must comply with Part IV.D.4.a.(4). These inspections must be conducted

rmittee) shall inspect at least once per month during the term of this permit ted) the areas of the site that have undergone final stabilization or established perennials appropriate for the region. These areas shall be inspected for the drainage system and the receiving water(s). Erosion and sediment

scharge locations or points are accessible, they shall be inspected to ascertain preventing significant impacts to receiving water(s).

te description and the pollution prevention and control measures identified in Plan, the Plan shall be revised as appropriate not later than seven (7) calendar such changes shall be made as soon as practical but in no case later than

ame(s) of certified personnel making each inspection, the date(s) of each diate or final), major observations relating to the implementation of the , and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be ble at a designated alternate location until the entire site or that portion of a gone final stabilization and a Notice of Termination is submitted to EPD. Such ond business day and/or working day and shall identify all incidents of best installed and/or maintained as described in the Plan. Where the report does

Il contain a certification that the best management practices are in Pollution Control Plan. The report shall be signed in accordance with Part

4. Maintenance

A. Inspections by a qualified personnel provided by the primary permittee and the associated records shall be kept on-site in compliance with GAR, 100001

B. Inspections of erosion control measures will be performed and corrective action taken when needed as required by the plan. C. The permittee shall maintain all erosion control measures until permanent vegetation has been established. D. The permittee shall clean out all sediment storage areas when required by the "MANUAL FOR EROSION AND SEDIMENT

CONTROL IN GEORGIA". E. Accumulated silt shall be removed when the silt is within 12" of the top of the silt fence utilized for erosion control.

5. Sampling Requirements.

A. Sampling Requirements

Sampling will occur at the outfall from the new detention pond. The unnamed tributary downstream of the proposed development is classified as state waters (supporting warm water fisheries). (See the Erosion and Sediment Control Plan, Sheet C520 for Sampling Location).

B. <u>Sample Type.</u>

All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

C. Sampling Points.

(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the stormwater outfalls using the following minimum guidelines:

(a). The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge

from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheet flow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by EPD for waste disposal, 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 with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region).

(h). All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

D. <u>Sampling Frequency.</u>

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a

stormwater discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been

completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location:

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or

exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first

sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location

selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained:

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling

required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

SURFACE WATER DRAINAGE AREA: < 4.99 SQUARE MILES SITE SIZE: 10.01 to 25 ACRES MAXIMUM ALLOWABLE NTU = 50

It is anticipated that non-stormwater discharges will occur as part of the flushing and disinfection processes required for the potable water and fire service installed with this construction. This will include the main waterline and several hydrants. In all areas, the discharge is to be directed to the adjacent pavement to prevent scour. In addition, the location where this water exits the pavement will be observed during the discharge. If any evidence of erosion begins, the operation will be immediately stopped, and either altered to prevent erosion or delayed until completion of the installation of control measures.

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

Certification statement that sampling was conducted as per the Plan. 3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

All written correspondence required by this permit shall be submitted by **return receipt certified mail** (or similar service) to the appropriate District Office of the EPD. See address below:

E. <u>Turbidity Limitations</u>

1. In-stream discharge is not to increase turbidity in the receiving stream by more than twenty-five (25) nephelometric units (NTU) for waters supporting warm water fisheries, as stated in GAR 100001 Part III.C.3. 2. The outfall discharge from the NPDES Sample Location Point(s) is not to exceed the maximum allowable NTU value shown below as stated in GAR 100001 Part III.C.4 and from Appendix B.

Turbidity Requirements:

6. Non-Stormwater Discharges

2. All sampling reports shall include the following information:

The rainfall amount, date, exact place and time of sampling or measurements; b. The name(s) of the certified personnel who performed the sampling and

- measurements;
- c. The date(s) analyses were performed; The time(s) analyses were initiated;
- The name(s) of the certified personnel who performed the analyses;
- References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and

8. Retention of Records. (#32)

- A copy of all Notices of Intent submitted to EPD;
- A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit; The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this
- d. A copy of all sampling information, results, and reports required by this permit;
- A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit: and
- Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit

9. Report Submittal

EPD MOUNTAIN DISTRICT OFFICE (CARTERSVILLE)

P.O. BOX 3250 **16 CENTER ROAD CARTERSVILLE, GA 30121**

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(#1)

		EROSION, SEDIMENTATION 8	
		STAND ALONE CON SWCD: West Georgia	STRUCTION PROJECTS
Project	Name: <u>B</u>	32 Contracting World Headquarters	Address: <u>141 Hillwood Circle</u>
Local Iss	suing Au	thority: City of Newnan	Date on Plans: <u>5/6/24</u>
Name 8	& Email c	of person filling out checklist: <u>Reid K.</u>	Almand, reid.almand@highlandllp.us
Plan Ir Page #	ncluded	TO BE SHOW	/N ON ES&PC PLAN
C502	Y	1 The applicable Erosion, Sedimentation and Po	Ilution Control Plan Checklist established by the Commission
I		as of January 1 of the year in which the land-o	listurbing activity was permitted.
		(The completed Checklist must be submitted w	th the ES&PC Plan or the Plan will not be reviewed)
C500	Y	2 Level II certification number issued by the Con	mission, signature and seal of the certified design professional.
		(Signature, seal and Level II number must be reviewed)	on each sheet pertaining to ES&PC plan or the Plan will not be
	N/A	3 Limits of disturbance shall be no greater than 5	0 acres at any one time without prior written authorization from
		include at least 4 of the BMPs listed in Append	is the request to disturb 50 acres or more at any one time, the Plan must
		(A copy of the written approval by GAEPD mu	st be attached to the plan for the Plan to be reviewed.)
C500	Y	4 The name and phone number of the 24-hour	contact responsible for erosion, sedimentation and pollution controls.
C500	Y	5 Provide the name, address, email address, ar	d phone number of primary permittee.
C500	Y	6 Note total and disturbed acreages of the project	ct or phase under construction.
C510	Y	7 Provide the GPS location of the construction ex	kit for the site. Give the Latitude and Longitude in decimal degrees.
C500	Y	8 Initial date of the Plan and the dates of any rev	isions made to the Plan including the entity who requested the revisions.
C501	Y	9 Description of the nature of construction activity	and existing site conditions.
C500	Y 1	10 Provide vicinity map showing site's relation to	surrounding areas. Include designation of specific phase, if necessary.
C501	Y 1	11 Identify the project receiving waters and descr	ibe all sensitive adjacent areas including streams, lakes,
	-	residential areas, wetlands, marshlands, etc.	which may be affected.
C500	Y 1	12 Design professional's certification statement an ES&PC Plan as stated on Part IV page 19 o	d signature that the site was visited prior to development of the f the permit
C500	Y 1	13 Design professional's certification statement an and comprehensive system of BMPs and sam	d signature that the permittee's ES&PC Plan provides for an appropriate pling to meet permit requirements as stated on Part IV page 19 of the permit. *
C500	Y 1	14 Clearly note the statement that "The design pro	ofessional who prepared the ES&PC Plan is to inspect the installation of the
		initial sediment storage requirements and perir in accordance with Part IV.A.5 page 25 of the	neter control BMPs within 7 days after installation." e permit. *
C500	Y 1	15 Clearly note the statement that "Non-exempt a	ctivities 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 Jurisd	ctional Determination Line without first acquiring the necessary
	Ν/Δ 1	16 Provide a description of any buffer encroachm	ents and indicate whether a buffer variance is required
C500		17 Clearly note the statement that "Amendments/r	evisions to the ES&PC. Plan which have a significant effect on
		BMPs with a hydraulic component must be cer	tified by the design professional." *
C500	Y 1	18 Clearly note the statement that "Waste material	s shall not be discharged to waters of the State, except as
	-	authorized by a Section 404 permit." *	
C500	Y 1	19 Clearly note statement that "The escape of sec	liment from the site shall be prevented by the installation of
		erosion and sediment control measures and p	ractices prior to land disturbing activities."
C500	Y 2	20 Clearly note statement that "Erosion control me	asures will be maintained at all times. If full implementation of the
		approved Plan does not provide for effective e	erosion control, additional erosion and sediment control measures
C500	Y 2	21 Clearly note the statement "Any disturbed area	a left exposed for a period greater than 14 days shall be
CE02	V	22 Any construction activity which discharges stor	m water into an Impaired Stream Segment or within 1 linear mile
C302	<u>r</u> 2	upstream of and within the same watershed as	any portion of a Biota Impaired Stream Segment, of within 1 linear fille
		with Part III. C. of the permit. Include the com	pleted Appendix 1 listing all the BMPs that will be used for those
		areas of the site which discharge to the Impaire	ed Stream Segment. *
	N/A 2	23 If a TMDL Implementation Plan for sediment ha	as been finalized for the Impaired Stream Segment (identified in
		Item 22 above) at least six months prior to sub	mittal of NOI, the ES&PC Plan must address any site-specific
		24 PMPs for concrete week down of table access	JE Implementation Mart.
C501	<u> </u>	of the drum at the construction site is probibite	e mixer chuies, hoppers and the rear of the venicles. Washout
C501	Y O	25 Provide BMPs for the remediation of all netrole	eum spills and leaks.
		26 Description of the measures that will be installed	d during the construction process to control pollutants in storm
	<u>'</u> 2	water that will occur after construction operation	ns have been completed. *
C501	Y 2	27 Description of practices to provide cover for bu	uilding materials and building products on site. *

C501	Y	28	Description of the practices	that will be used to reduce the p	pollutants in storm water disch	arges. *			
C500	Y	29	Description and chart or tim portions of the site (i.e., initia	neline of the intended sequence al perimeter and sediment storag	of major activities which distur ge BMPs, clearing and grubb	b soils for the major ing activities,		Т	HE Tŀ
		1	excavation activities, utility	activities, temporary and final st	abilization).	· *			
C501	Y	30	Provide complete requirem	hents of Inspections and record k	keeping by the primary permi	tee. *			
C501	Y	31	Provide complete requirem	nents of Sampling Frequency an	d Reporting of sampling resu	ts. *	Plan	Included	I
C501	Y	32	Provide complete details for	r Retention of Records as per P	art IV.F. of the permit. *		Page #	Y/N	
C501	Y	33	Description of analytical me	thods to be used to collect and a	analyze the samples from eac	h location. *] a
C501	Y	34	Appendix B rationale for N	TU values at all outfall sampling	points where applicable. *				
C510	Υ	35	Delineate all sampling locat	tions, perennial and intermittent s	streams and other water bodi	es into which			
			storm water is discharged.	*					1
C501	Y	36	A description of appropriate	e controls and measures that wil	be implemented at the constr	uction site including:] b
			BMPs, and (3) final BMPs.	For construction sites where the	ere will be no mass grading a	ading and drainage ind the initial perimeter			_
			control BMPs, intermediate	e grading and drainage BMPs, a	and final BMPs are the same,	the Plan may combine] c
		_	all of the BMPs into a single	e phase. *					Т.
C510	Υ	37	Graphic scale and North ar	rrow.			C501	Y] d
C510	Υ	38	Existing and proposed con	tour lines with contour lines drav	vn at an interval in accordanc	e with the following:			
			Map Scale	Ground Slope	Contour Intervals, ft				
			1 inch = 100ft or	Flat 0 - 2% Rolling 2 - 8%	0.5 or 1 1 or 2				
			larger boald	Steep 8% +	2,5 or 10				
	N/A	39	Use of alternative BMPs wh	hose performance has been doo	cumented to be equivalent to	or superior to] e
		•	conventional BMPs as cer	tified by a Design Professional (unless disapproved by GAEF	PD or the Georgia Soil			_
			and Water Conservation Conserva	ommission). Please refer to the	Alternative BMP Guidance D	ocument found at] f.
	N/A	40	Use of alternative BMP for	application to the Equivalent BM	IP List. Please refer to Appen	dix A-2 of the Manual			1.
		•	for Erosion & Sediment Co	ntrol in Georgia 2016 Edition. *] g
	N/A	41	Delineation of the applicable	e 25-footor 50-footundisturbed	buffers adjacent to state wate	rs and any additional	C530	Y] h
C501	V	1 42	Delineation of on site works	an issuing Autonity. Cleany no	on and within 200 foot of the u	npaci			,
C510] 72] 42	Delineation and acrosse of	foontributing drainage besing or	the preject site				-
		43 43	Demieatori and acreage of	and more of drainage basins of	hath the project site.	anad conditiona *] i.
C503	Y	44 45			bour une pre- and posedevek				
C501	Ŷ	45	completed.	ellicient of peak discharge llow of	on the site prior to and alter co] j.
C602	Y	46	Storm-drain pipe and weir	velocities with appropriate outlet	protection to accommodate d	scharges without			
		1	erosion. Identify/Delineate	all storm water discharge points	5.] k
C510	Y	47	Soil series for the project sit	te and their delineation.]
C510	Y	48	The limits of disturbance for	each phase of construction.					
C602	Y	49	Provide a minimum of 67 cu	ubic yards of sediment storage p	per acre drained using a temp	orary sediment basin,	C510	Y] I.
			storage volume must be in	place prior to and during all lan	d disturbance activities until fi	nal stabilization of the			
			site has been achieved. A	written justification explaining the	e decision to use equivalent c	ontrols when a			1
			sediment basin is not attain	able must be included in the Pla	n for each common drainage	location in which a] n
			sediment basin is not provi	ided. A written justification as to v s from the Manual included for s	why 67 cubic yards of storage tructural BMPs and all calcula	is not attainable must tions used by the			
			storage design professiona	al to obtain the required sedimen	twhen using equivalent contr	ols. When discharging] n
			from sediment basins and ir	mpoundments, permittees are re	quired to utilize outlet structur	es that withdraw water			•
			from the surface, unless infe	easible. If outlet structures that w	ithdraw water from the surfac	e are notfeasible,			1
	<u></u>	1	a written justification explain	ning this decision must be include	ed in the Plan.] o
C510	Y	5 0	Location of Best Manageme	ent Practices that are consistent i Itrol in Georgia - Use uniform con	win and no less stringent that ding symbols from the Manua	n menvianual tor I Chapter 6 with			
			legend.			, Shapar V, Wiel			p
C601	Y	51	Provide detailed drawings	for all structural practices. Spec	ifications must, at a minimum,	neet the guidelines set			_n 0
		-	forth in the Manual for Eros	sion and Sediment Control in Ge	orgia.				_
C600	Y	52	Provide vegetative plan, no	oting all temporary and permane	ent vegetative practices. Inclu	de species, planting			
			dates and seeding, fertilizer	r, lime and mulching rates. Vege I take place and for the conserve	etative plan shall be site speci	lic for appropriate time			
		*	fusing this sheetlist for a re-	nake place and lor the appropri	at your aprilo region of Geo	iyia.] r
		but	within 200 ft of a perennial s	stream, the * checklist items woul	ld be N/A.	JIIGHL			1
						Effective January 1, 2024] <u>s</u>
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APPENDIX 1

E ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME. The four items chosen must be appropriate for the site conditions.

During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.

Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.

Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.

A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.

Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with **Part III. D.1.** of the current NPDES Permits.

Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in **Part IV.D.6.d.** of the current NPDES Permits. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as

provided for in O.C.G.A. 12-7-6 (a)(1). Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.

Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.

Use "Dirt II" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)

Add appropriate organic soil amendments (e.g., compost) and conduct pre- and postconstruction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.

Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.

m. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.

Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.

Install sod for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.

Conduct soil tests to identify and to implement site-specific fertilizer needs.

Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c); secondary permittees, Part IV.D.4.b.(3)(a) – (c); and tertiary permittees Part IV.D.4.c.(3)(a) – (c) *

Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.

Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at *www.gaswcc.georgia.gov*)

t Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.

u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part IV.A.5 of the permit.

The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.

C530 Y v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

Effective January 1, 2024

* This requirement is different for infrastructure projects:

Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c) of the permit

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C502

REID K ALMAND, P.E.

GA PE #47263

	Date: Drawn by: Check by: Image: C	
	DRAINAGE BASINS OUNTY, GEORGIA	
	SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA C	
REID K ALMAND, P.E. GA PE #47263 GSWCC LEVEL II #79754	COANO. PEROBORAN COANO. PEROBORAN TO PROVINCE ON DELONG TO PROVINCE ON DELONG TO PROVINCE NO. COANO. PEROBORAN DRAWING NO. C5003	

		(#50) ST	RUCTU	RAL	PRA	CTICES						RKA RKA	Apr.
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S	Sd1	SEDIMENT BARRIER			A barı the co bales	rier to prevent sec onstruction site. It of straw or hay, I	liment from may be so prush, logs	leaving Indbags, and poles,					
२ऽ		TEMPORARY	RENT	(NDICATE T	A basi across	, or a slit tence. in created by exco a waterway. The	avation or a surface wa	ı dam ter runoff					
	(Sd3)	SEDIMENT BASIN			is tem sedime	porarily stored all ent to drop out.	owing the b	ulk of the				חודואק IING	
	Cd	CHECKDAM		J	A sma across concer	all temporary barries a swale, drainage ntrated flow.	er or dam (e ditch or c	constructed irea of) FUK PERMITT DR PERMITT	ion
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		VI	EGETAT	IVE I	PRA	CTICES				× v		30,	<u> œ</u>
	CODE	PRACTICE	DETAIL	MAP SYMBC	ЪГ	DESCRI	PTION		;	K R K			
	Du	DUST CONTROL ON DISTURBED AREAS		Du	Contro dust c similar	olling surface and on construction sit sites.	air moveme e, roadways	nt of and		Drawn b EAM		ò	1" = 3
	Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establi with fo areas.	ishing a temporary ast growing seedin	/ vegetative gs on distu	cover irbed		Date: 6/21/24		30' 15'	SCALE:
	Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11111111111111111111111111111111111111	Ds3	Establi such d legume	ishing a permanen as trees, shrubs, v es on disturbed ar	t vegetative vines, grass eas.	e cover es, or		ASE			
	Su	SURFACE ROUGHENING		⊢ <u>S</u> u−	A rough	gh soil surface wit ssions on a cont ened condition aft	th horizont our or slope er grading.	al es left in a		E PH∕	AND	PLAN	
	Ss	SLOPE STABILIZATION		Ss	A prot and es vegeta	tective covering us stablish temporary ition on steep slop	ed to preve or perman bes, shore l	ent erosion ent ines, or		DIAT	NON A	SOL F	
					cnanne					MEI	ROS	INITU	
	ADDI	TIONAL BMPS	TO BE USED F	FOR SIT	<u>es tha</u>	T DISCHARGE	to an in	IPAIRED STR	EAM	ITER	с Ш С	C C C)
	d. a	<u>1ENI:</u> large sign (r	ninimum 4 fee	et x 8	feet) m	nust be posted	d on site	by the act	tual				
	start sign	date of cons must identify	struction. the struction the struction the structure the structure	sign mu (1) co	ust be Instruct	visible from a ion site, (2) t	public r he perm	roadway. the ittee(s), (3)	; the				
	where where	e the plan co remain on s	and telephone in be viewed r site and the pl	numbe nust be an mus	er(s), a e provia st be a	ind (4) the pe ded on the su ivailable on th	ermittee- bmitted e provide	nosted webs noi. the sig ed website u	site n until				RGIA
	a no h. Re	t has been s educe the tot	ubmitted. al planned site	e distur	bance [.]	to less than S	50% impe	ervious surfo	aces				Y, GEO
	(exclı must	uding any Sto be included Disturbed Are	on the Plan.	buffer	areas f	from such cal	culations)	. All calculo	itions				COUNT
		Impervious Ar Percent of In	rea (including npervious: 40%	gravel (9 85%)): 1.93 acres					C (IRS	COWETA
	i. Us where	e mulch filter ever construct	r berms, in ad tion storm wat	ldition t er (incl	o a sil luding s	It fence, on th sheet flow) ma	ne site p ay be dis	erimeter scharged. M d flow	ulch	LANS	DNG	AR'I'E	EWNAN, C
	v. In:	stall Post Cor	nstruction BMP	s (e.g.,	runoff	reduction BM	Ps) whic	h remove 8	0%	ENT P	ACT	QUA	Y OF NE
	Book	or an equivo — The storm	n the Georgia alent or more water manager	Stormw stringer nent fa	ater Ma nt desig cility is	anagement Ma gn manual. s a Wet Exten	ded Dete	wn as the I ntion Pond	and	LOPM For	UTR.	I AD	CT, CIT
		is sized to r	emove 80% TS	S						DEVE	CON	1H O	DISTRI
	INTER	RMEDIATE PHAS	<u>se erosion at</u>	ND SED	IMENT (CONTROL:				SITE	B2)RLJ	HE 5TH
		NTERMEDIATE DISTURBANCE.	PHASE WILL BE	EGIN ON		E PROJECT MO	VES INTO	ND THE)			\geq	74 OF T
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	C	DNE-THIRD OF	THE STORAGE	. DEPTH	I IS OB	TAINED.							LAND
		PRE De	veloped Basin	Α									
		Land Co Woode	over d	B	5 CN 55	Area (acre) 8.63	AxCN 474.65				O R		
					55.0	0 8.63					EGISTE	RENT	
		POST	eveloped Basi	n A1						Rec.		33 ONAL	X)
		Land Control Land	over ous Areas	HSG B	CN 98	Area (acre) 0.76	AxCN 74.48			PE	NGINE OK.A	LMAND	
		Open S	pace	B	61 or	2.33	142.13		ļ	8/7/24	4		2
		Glaver		D	74.70	4.47	117.50				Д		IA 30269
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FINAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN G TERS \mathbf{S} E DEVELOPMENT PLAN FOR 2 CONTRACTINC LD HEADQUART SITE B2 WORL No.47263 //24 $\mathbf{\nabla}$ Γ \mathbf{O} Η DRAWING NO. C530

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

ADDITIONAL BMPS TO BE USED FOR SITES THAT DISCHARGE TO AN IMPAIRED STREAM SEGMENT:

d. a large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. the sign must be visible from a public roadway. the sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the plan can be viewed must be provided on the submitted noi. the sign must remain on site and the plan must be available on the provided website until a not has been submitted.

h. Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan. Disturbed Area: 4.8 acres

Impervious Area (including gravel @ 85%): 1.93 acres Percent of Impervious: 40%

i. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.

v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual. — The stormwater management facility is a Wet Extended Detention Pond and is sized to remove 80% TSS

FINAL PHASE EROSION AND SEDIMENT CONTROL:

- THE FINAL PHASE OCCURS ONCE THE SITE IS PAVED AND FULLY STABILIZED WITH PERMANENT GRASSING.
 ONCE SITE IS FULLY STABILIZED, ALL SEDIMENT TRAPS WILL BE REMOVED.
- PARKING AREAS TO BE SWEPT AND ALL CONSTRUCTION DEBRIS TO BE COLLECTED AND DISPOSED OF.
- STORM SYSTEM TO BE FLUSHED/OR VACUUMED PRIOR TO TURN-OVER.
 LIMITS OF Ds4 (SOD) TO BE PROVIDED ON THE LANDSCAPE PLAN.

LEGEND

> (#2) REID K ALMAND, P.E. GA PE #47263 GSWCC LEVEL II #79754

Ds1 MULCHING SPECIFICATIONS:

MULCH OR	TEMPORAF	RY GRASSING	SHALL BE APPLI	ED TO ALL EX	XPOSED AREAS	WITHIN 14 DAYS (OF DISTURBANCE.	MULCH CAN
BE USED /	AS A SINGL	JLAR EROSION	I CONTROL DEVIC	E FOR UP TO	O SIX MONTHS,	BUT IT SHALL	BE APPLIED AT	THE
APPROPRIA	ATE DEPTH	, DEPENDING	ON THE MATERI	AL USED, ANG	CHORED, AND H	AVE CONTINUOUS	90% COVER OR	GREATER OF
THE SOIL	SURFACE.	MAINTENANCI	E SHALL BE REQ	UIRED TO MAI	INTAIN APPROPR	IATE DEPTH AND	90% COVER. TE	MPORARY
VEGETATION	N MAY BE	EMPLOYED IN	STEAD OF MULCH	I IF THE ARE	A WILL REMAIN	UNDISTURBED FOR	R LESS THAN SIX	(MONTHS. IF
AN AREA \	WILL REMAII	N UNDISTURB	ED FOR GREATER	THAN SIX M	ONTHS, PERMAN	IENT VEGETATION 1	FECHNIQUES SHAI	LL BE
EMPLOYED.								

SITE PREPARATION I. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.

3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

APPLYING MULCH WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA. 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES. 3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY . CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OF DAMAGE TO SHOES, CLOTHING, ETC.

ANCHORING MULCH

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OR WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION Tb-TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO

MANUFACTURER'S SPECIFICATIONS. 2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. 3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

TEMPORARY SEEDING SPECIFICATIONS: Ds2

A. GRADING AND SHAPING

1. EXCESSIVE WATER RUNOFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS, AND OTHERS.

B. SEEDBED PREPARATION

1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. 2. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. 3. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE

SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

C. LIME AND FERTILIZER

1. AGRICULTURAL LIME IS NOT REQUIRED.

2. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. 3. ON SOILS OF VERY LOW FERTILITY, USE 500 TO 700 POUNDS 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 lbs./1000 sq. ft.). IF THE SITE WILL PERMIT, APPLY BEFORE LAND PREPARATION AND DISK, RIP, OR CHISEL TO INCORPORATE.

D. SEEDING 1. SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. 2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER).

DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-HALF TO ONE INCH DEEP.

E. MULCHING TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

PERMANENT SEEDING SPECIFICATIONS:

Ds3

A. GRADING AND SHAPING 1. GRADING AND SHAPING IS NOT NORMALLY REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENTS.

B. SEEDBED PREPARATION I. SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. 2. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS: A. BROADCAST PLANTING

1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPATION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.

C. LIME AND FERTILIZER - RATES AND ANALYSIS 1. WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE. 2. LIME SPREAD BY CONVENTIONAL EQUIPMENT WILL BE "GROUND LIMESTONE". GROUND LIMESTONE IS CALCITIC OR DOLOMITIC

LIMESTONE GROUND SO THT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE. 3. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT WILL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

D. LIME AND FERTILIZER - APPLICATION 1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:

A. THE INITIAL FERTILIZER WILL BE MIXED WITH SEED, INOCULANT (IF NEEDED) AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE SLURRY WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR

AFTER BEING PLACED IN THE HYDROSEEDER. B. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.

2. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER WILL BE APPLIED UNIFORMLY IN ONE OF THE

FOLLOWING WAYS: A. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION; OR, B. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS; OR,

C. BROADCAST AFTER STEEP SURFACES AND SCARIFIED, PITTED OR TRENCHED. D. A FERTILZER PELLET WILL BE PLACED AT ROOT DEPTH.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

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MILLET, (PANICUI ALONE IN MIXTU

BERMUD (CYNODC HULLE

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CENTIPE (EREMOC OPHIL

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Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)													
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SPECIES	RATES 2/ PER		OPTIMUM ———————————————————————————————————						JT MA		NAL	REMARKS	
	ACRE	1000 SQ. FT.		J	FN	и A	A M	JU	JA	S	N C	D	
MILLET, PEARL (PENNESETUM GLAUCUM)			M-L P			-	_		-	-			88,000 SEED PER POUND. QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT.
ALONE	50 LBS	1.1 LB	С			+				+			NOT RECOMMENDED FOR MIXTURES.
RYEGRESS, ANNUAL (LOLIUM TEMULENTUM)			M-L P										227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE VERY COMPETITIVE AND IS NOT TO
ALONE	40 LBS	0.9 LB	С		—				-				BE USED IN MIXTURES
SUDANGRASS (SORGHUM SUDANESE) ALONE	60 LBS	1.4 LB	M-L P C			-				-			55,000 SEED PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
MILLET, BROWNTOP (PANICUM FASCICULATUM) ALONE IN MIXTURES	40 LBS 10 LBS	0.9 LB 0.2 LB	M-L P C							-			137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.

	Ds3	DISTURBE) AREA STA	BILI	ZATI	[ON ((WIT	ΉF	PERN	4AI	NEM	NT SEEDINGS)			
SPECIES	BROADCAST RATES 2/ – PLS 3/ PER PER		RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES OPTIMUM PERMISSIBLE BUT MARGINAL								REMARKS			
A, COMMON DN DACTYLON) ED SEED		0.2 LB	P C	J F	- M	A M		A	<u>S</u> 0	N	D	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.			
HER PERENNIALS A, COMMON DN DACTYLON) LLED SEED	6 LBS	0.1 LB	P C		-										
MPORARY COVER HER PERENNIALS	10 LBS 6 LBS	0.2 LB 0.1 LB										PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.			
DE CHLOA JROIDES)	BLOCK S	OD ONLY	P C			-						DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENTTO CONCRETE AND IN CONCENTRATE FLOW AREAS. IRRIGATION AS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.			
TALL A ARUNDINACEA) HER PERENNIALS	50 LBS 30 LBS	1.1 LB 0.7 LB	M-L P									227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.			
EZA, SERICEA EZA CUNEATA) ED	60 LBS	1.4 LB	M-L P C									350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEAF TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROAD BANKS. INOCULATE SEED WITH EL INOCULANT.			
FIED	75 LBS	1.7 LB	M-L P C									MIX WITH TALL FESCUE OR WINTER ANNUALS.			
EARING HAY	3 TONS	138 LB	M-L P C									CUT WHEN SEED IS MATURE. BUT BEFORE IT SHATTERS. TALL FESCUE OR WINTER ANNUALS.			
ASS, WEEPING OSTIS CURVULA)	A LBS	0118	M-L P C									1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.			
HER PERENNIALS	2 LBS	0.05 LB													

#52 DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDINGS AND PERMANENT SEEDINGS Ds2 Ds1 SCALE: NTS DATE:1/24/04

					STATE PROJECT NUMBER SHEE NO. GA.	T TOTAL SHEETS	
							EROS
	GEN	IERAL NOTES:					STEP 1: CUT TERMINAL SLO
	١.	A STONE FILTER RING MAY BE SECTIONS, TO STORE SEDIMENT FILTER RING, A RETROFIT BMP IF A RETROFIT BMP IS NOT PF OF THE STONE FILTER RING PF 8 FEET TO IO FEET UPSTREAM SUBSTANTIALLY IMPOUND WATE	PLACED ON ROADWAY DRAI IN LOW AREAS WITHIN THE APPROPRIATE FOR ROADWAY ROVIDED, OTHER SEDIMENT CO RIOR TO LEAVING THE PROJE M OF THE RETROFIT BMP. T ER, ADVERSELY IMPACTING AN	NAGE STRUCTURE INLETS, S PROJECT. IN CONJUNCTION ORAINAGE STRUCTURE INL ONTROL BMPS SHALL BE PF ECT AREA. THE STONE FILT HE STONE FILTER RING IS REAS OUTSIDE OF THE PRO	SUCH AS FLARED END WITH THE STONE ETS IS PREFERRED. ROVIDED DOWNSTREAM ER RING SHALL BE NOT INTENDED TO JECT.		STEP 2: SNUG MAT INTO SL
		A STONE FILTER RING MAY AL POND'S PERMANENT OUTLET S RING SHALL BE INSTALLED 8 F	SO BE USED IN CONJUNCTIO TRUCTURE TO PROVIDE ADD EET TO IO FEET UPSTREAM	N WITH A RETROFIT BMP U ITIONAL SEDIMENT FILTERING 1 OF THE POND'S RETROFIT	SED ON A DETENTION G. THE STONE FILTER BMP.		
		STONE FILTER RINGS ARE NOT SHALL NOT BE PLACED WITHIN	RECOMMENDED WITHIN ROAD STATE WATERS.	WAY DRAINAGE DITCHES. S	TONE FILTER RINGS		A. STAKE MAT INTO SLOT.
	2.	THE HEIGHT OF THE STONE FIL 48 INCHES. MAINTAIN A LEVEL	TER RING SHALL BE A MINI SURFACE ALONG THE ENTIR	MUM OF 24 INCHES WITH A RE TOP RADIUS OF THE STO	MAXIMUM HEIGHT OF DNE FILTER RING.		BOARD TO SPACE MAT VERTICAL CUT.
	3.	REFER TO THE EROSION, SEDIM STONE FILTER RINGS. THE INS FILTER RING AND WILL BE PAIE	ENTATION AND POLLUTION C TALLATION OF SILT FENCE A) FOR SEPARATELY AS APP	CONTROL PLAN (ESPCP) FOR AND RETROFITS ARE INDEPE LICABLE TO THE ESPCP.	THE LOCATION OF NDENT OF THE STONE		
	4.	SEE STANDARD SPECIFICATION OF STONE FILTER RINGS. SEE MAINTENANCE OF STONE FILTEI	163, AND SUPPLEMENTS THE STANDARD SPECIFICATION 16 R RINGS.	RETO FOR THE CONSTRUCT 5, AND SUPPLEMENTS THER	ION AND REMOVAL ETO FOR THE		STEP 4: A. REVERSE MAT ROLL DIRI OVERLAY CHECK LOT. B. STAKE MAT TO ANCHOR
							SEQUENTIAL ROLL
							ROLL #1 ROLL #3
	#57 ST		PAY ITEMS: 163-0542	CONSTRUCT & REMOVE STO	ONE FILTER RING	(EA)	
MAX.		HEIGHT (SEE NOTE 2)	165-0111	MAINTENANCE OF STONE FI	ILIEK KING		o
	280 2002			DEPARTMENT OF	TRANSPORTATIO		,
				CONSTRUC	TION DETAIL		
	A L			STONE FI	ILTER RING		
FABRIC_					11 II N	/ 2018	
				INO JOALL	JULI	2010	

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NUMBER

D-46

7" 4000 PSI FIBER MESH REINFORCED CONCRETE CONCRETE PAVING DETAIL SCALE: N.T.S. -EXP. JOINT 20' O.C.-Δ 1 A Δ. . Δ. -AS INDICATED-GRADE 3000 PSI CONCRETE ----<u>SECTION A</u> CONCRETE SIDEWALK DETAIL SCALE: N.T.S.

OG APPROVED FILL IN 6" COMPACTED LIFTS. GAB PAVEMENT SECTION SCALE: N.T.S.

2" ORIFICE -----

W - 010

BF-002

S-002

WATER SYSTEM NOTES 1) ALL WATER DISTRIBUTION PIPING SHALL BE A MINIM DIAMETER, CLASS 50, CEMENT AND ASPHALTIC LINED COATED AS PER AWWA C104, C110, C115, C151, AND 2) ALL SERVICE LINES LESS THAN 2 INCHES SHALL B ANNEALED COPPER FROM THE CORPORATION STOP TO T ALL 2" SERVICE LINES SHALL BE HIGH DENSITY (BLUE) 3) ALL SERVICE TAPS LESS THAN 2 INCHES SHALL BE MAIN; TAP SADDLES ARE NOT ALLOWED. 4) ALL CORPORATION STOPS AND CURB STOPS SHALL COMPRESSION FITTINGS OR EQUAL. 5) ALL FIRE HYDRANTS SHALL BE 5 1/4" AMERICAN D 6) ALL NEW WATER LINE INSTALLATIONS SHALL BE LEAP PRESSURE TESTED AS PER AWWA C600, IN THE PRESEN UTILITIES REPRESENTATIVE AND CERTIFIED IN WRITING BY PRIOR TO ACCEPTANCE. 7) THE INTRODUCTION OF POTABLE WATER INTO AN UN MUST BE ACCOMPLISHED THROUGH AN APPROVED BACK DEVICE. AT NO TIME SHALL INSTALLERS ALLOW CROSS- POTABLE WATER SYSTEMS AND NON-POTABLE SYSTEMS. 8) ALL NEW LINES SHALL BE DISINFECTED AS PER AW	AUM OF 4 INCH AND ASPHALTIC C153 DUCTILE IRON PIPE. E TYPE "K" SOFT THE WATER METER. POLYETHELENE PIPE. E DIRECT TAP TO THE BE MUELLER DARLING B-62-B. AK AND NCE OF A NEWNAN Y THE INSTALLER NDISINFECTED LINE FLOW PREVENTION - CONNECTION BETWEEN	CON 18) THE WATER SYSTEM SHALL E FLOW PROTECTION AS WELL AS, 19) VALVES ARE TO BE PLACE AT VALVES SHOULD BE LOCATED AT COMMERCIAL DISTRICTS AND AT INTERVALS IN OTHER DISTRICTS. SCATTERED CUSTOMERS, THE V. 20) AT HIGH POINTS IN WATER M PROVISIONS SHALL BE MADE TO OR AIR RELIEF VALVES. AUTOMA USED IN AREAS WHERE FLOODIN 21) THE INSTALLATION OF DUCTI JOINTS AND ENCASED IN CONCR APPROVAL OF THE DIVISION, OTH WHICH ARE GREATER THAN 15 FI	J'T WATER SYSTEM NOTES BE DESIGNED TO MAINTAIN MINIM , MAINTAIN MINIMUM PRESSURE II T ALL INTERSECTIONS OF WATER T NOT MORE THAN 500 FOOT- INT NOT MORE THAN ONE BLOCK OF S. WHERE SYSTEMS SERVE WIDEI (ALVE SPACING SHOULD NOT EXC MAINS WHERE AIR CAN ACCUMULA REMOVE THE AIR BY MEANS OF I ATIC AIR RELIEF VALVES SHALL NO NG OF MANHOLE OR CHAMBER MA TILE IRON PIPE WITH RESTRAINED RETE, MAY BE CONSIDERED WITH HERWISE, WHEN CROSSING WAT	UM FIRE0FN THE SYSTEM.(PRMAINS.2) SERVALS INALL800-FOOT3) I.YBETEED 4000 FEET.SIM.TE,4) (IHYDRANTS5) TDT BEFOR.Y OCCUR.SHAPUSH-ON6) IPRIORMA	SE ALL GRAVITY SEWER COLLECTION PIF 8 INCH DIAMETER, SDR 26 PVC OR CL OTECTO 401 LINING OR EQUAL IMPRO SIX INCH TAPS SHALL BE MADE IN THI TAPS LARGER THAN 6 INCHES WILL I LINES SHALL BE RUN STRAIGHT, AND TWEEN MANHOLES WITH CONTROL B' MILAR DEVICE. GENERALLY GRAVITY LINES SHALL BE TH THE BELLS POINTED UPHILL. THE INSTALLER SHALL USE ONLY APF R PIPE MAKE UP. THE USE OF PETRO ALL NOT BE ALLOWED. MANHOLES SHALL BE PRECAST REINI	WER SYSTEM PING SHALL BE A MINIMUM ASS 350 SEWER COATED DIP DVED BY NEWNAN UTILITIES). E LINE OR MANHOLE, BE MADE AT MANHOLES. ON A CONSTANT GRADE Y A LASER SIGHTING OR E INSTALLED UPHILL PROVED PIPE LUBRICANT DEUM BASED LUBRICANT FORCED CONCRETE			D FOR PERMITTING 8/7/24 OR PERMITTING 7/8/24
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DEVICE. AT NO TIME SHALL INSTALLERS ALLOW CROSS- POTABLE WATER SYSTEMS AND NON-POTABLE SYSTEMS. 8) ALL NEW LINES SHALL BE DISINFECTED AS PER AW CERTIFIED IN WRITING BY THE INSTALLER PRIOR TO ACC	-CONNECTION RETWEEN I	CONTRUCTION, HAVING FLEXIBLE	E, WATERTIGHT JOINTS SHALL BE	INSTALLED. WA	LLS SHALL BE A MINIMUM OF 5" INCH	ES THICK. TER OF A MANHOLE SHALL BE		٨	
8) ALL NEW LINES SHALL BE DISINFECTED AS PER AW	Connection Derween	SO THAT THE SECTION CAN BE IS	SOLATED FOR TESTING OR REPAI	R (VALVES	EET. THE ECCENTRIC TOP SECTION S	SHALL REDUCE TO 2 FEET		KA	
	WA C601 AND	SHALL BE ACCESSIBLE AND NOT	SUBJECT TO FLOODING); THE VA	LVE CLOSEST 9) /	ALL MANHOLES SHALL HAVEPLASTIC	COATED STEEL STEPS AT 12 INCH		5 <u>~</u>	
9) ALL WATER SYSTEM IMPROVEMENTS WILL COMPLY W	/ITH "THE MINIMUM	23) SAMPLING TAPS SHALL BE IN	NSTALLED AT EACH END OF THE (ROSSING, 10)	INCH CENTERS EITHER CAST IN PLAC ALL SANITARY SEWER LINES BURIED	E OR DRILLED AND EPOXIED.) GREATER THAN 15 FEET		a Maria	
STANDARDS FOR PUBLIC WATER SYSTEMS", MAY 2000 E	DITION. /IN. OF FOUR FEET DEEP	24) SOLVENT-CEMENTED JOINTS	E MADE FOR TESTING AND DETER S ARE NOT ALLOWED FOR BURIED	MINING LEAKS. OR PIPES. 11)	LESS THAN 4 FEET SHALL BE DUCTIL ALL SEWER MAINS SHALL BE SUBJE	E IRON. CTED TO A LOW-PRESSURE AIR		EAN	
11) VALVES SHALL BE AWWA RESILANT GATE GATE VAL	VES WITH NRS, 2"	25) WATER MAINS SHALL BE LAID	D AT LEAST TEN (10) FEET HORIZO	NTALLY TES	ST AND A DEFLECTION TEST. ALLOWA	ABLE DEFLECTION SHALL BE NO ED DIAMETER.		24	
APPROVED EQUAL.	AN DARLING OR	SEWER MANHOLE. THE DISTANC	CE SHALL BE MEASURE EDGE TO I	EDGE. 12)	ALL SEWER MAINS SHALL BE CAMER	RA VIDEO TAPED, AND JETTED		Date: 6/21/	
12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC ADJUSTABLE TOP. ALONG WITH 17 INCH (ROUND OR SQ	GRADE WITH	OR A RAIL-ROAD IS CROSSED, TH	HEAVILY TRAVELED OFF-SYS	ON OVER 13)	ALL SEWER TAPS SHALL BE 6" SDR-2	26 FITTINGS			
VALVE BOX PAD AND CONCRETE VALVE MARKER POST.		THE ROAD OR THE RAIL-ROAD MU	UST BE NOTIFIED, PRIOR TO INSTA A STEEL CASING WITH SUFFICIEN	ALLATION OF 14)	ALL SEWER TAPS CLEAN-OUTS SHAL	L BE LOCATED 3 FEET OUTSIDE			
MSBC1416-12, MID-STATES PLASTICS OR EQUAL AS SH	OWN IN THE DETAILS.	BE JACKED AND BORRED TO ACC	COMMODATE THE CARRIER PIPE.	ANY 15)	ALL SANITARY SEWER MANHOLES LC	DCATED IN NON TRAFFIC AREAS,		Z	-
14) ALL METER BOXES USED IN CONCRETE AREAS SHAL METER BOX OR FOULL AS SHOWN IN THE DETAILS	L BE C.I. RECTANGULAR	CONFORM TO THE APPLICABLE L	LOCAL AND/OR STATE REQUIREM	ENTS. SHA	ALL BE PRECASTOR APPROVED EQUA E ADJACENT GRADE.	L, AND BE A MIN. OF 24" ABOVE			
15) NO FIELD CHANGES OR DEVIATIONS SHALL BE MADE	WITHOUT PRIOR	27) 2" WATER LINES SHALL NOT FROM MAIN. IF 2" INCH WATER L	EXTEND NO GREATER THAN 1000 LINE IS NOT LOOP BACK INTO MAI	FEET 16) N THAN NO 17)	BOLT DOWN MANHOLE COVER AS RE	EQUESTED BY NEWNAN UTILITIES.			
APPROVAL OF THE ENGINEER AND NEWNAN UTILITIES. 16) ANY COMMERCIAL AND/OR RESIDENTIAL APPLICATIO	N REQUIRING FIRE	GREATER THAN 20 RESIDENT CA	AN BE ATTACHED ON 2 INCH SERV	ICE. IF 2" OR I	DOWNSTREAM MANHOLE TO ALL SEW	VER TAPS. ALSO VIDEO TAPE OF			TA
FLÓW PROTECTION SYSTEM, SHALL BE DESIGNED BY A F	PROFESSIONAL ENGINEER	28) ALL RESIDENTUAL LOTS UNI	O MORE THAN 40 RESIDENTS CAN ITS(APARTMENTS) AND TOWNHO	ME SHALL BE	ALL SEWER CLEAN-OUTS WITH CAPS I	LOCATED IN TRAFFIC AREAS SHALL HAVE		Lo)E
17) THE WATER SYSTEM MUST BE DESIGN TO MAINTAIN	A MINIMUM PRESSURE	INDIVIDUALLY METER.		EQU	AL, THIS INCLUDES COMMERCIAL AND	RING AND FG COVER OR APPROVED D RESIDENTIAL DRIVEWAYS AND PARKING LOTS.		Z	
DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.	THE NORMAL	30) WHEN WATER MAIN IS ATTAC	CHED TO BRIDGE BY PIPE SUPPO	RTS, THE. 19) A	ALL SEWER CLEAN-OUTS WITH CAPS I ILL BE COVERED BY NDS PRO SERIES	LOCATED IN GRASSED OR LANDSCAPED AREAS 10" ROUND VALVE BOX OR APPROVED EQUAL.		C	
WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOU 60 PSI AND NOT LESS THAN 35 PSI.	ILD BE APPROXIMATELY	PIPE SUPPORTS SHALL BE PLACE	E 2 FT. ON EACH SIDE OF EVERY F	PIPE JOINT. 20) A FRO	ALL SEWER LATERIALS MUST HAVE TF M THE SEWER MAIN TO SEWER CLEA	RACING WIRE OR LOCATABLE DITCH TAPE NOUT LOCATED AT EASEMENT LINE.			
	Rev.		R	ev.	NEWNAN	Rev.			
WATER SYSTEM		UTILITIES	WATER SYSTEM		UTILITIES	EWER SYSTEM			
Drawn By: S. Tolar NOTES	C	Drawn By: S. Tolar	NOTES CON'T	Drawn B	ay: S. Tolar				
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	 10) ALL WATER STSTEM PIPTING STALL BE BURLED A IN 11) VALVES SHALL BE AWWA RESILANT GATE GATE VAL OPERATING NUT AND OPENING TO THE LEFT BY AMERIC APPROVED EQUAL. 12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC ADJUSTABLE TOP, ALONG WITH 17 INCH (ROUND OR SC. VALVE BOX PAD AND CONCRETE VALVE MARKER POST. 13) ALL METER BOXES USED OUTSIDE CONCRETE AREAS MSBC1416–12, MID–STATES PLASTICS OR EQUAL AS SH 14) ALL METER BOXES USED IN CONCRETE AREAS SHAIL METER BOX OR EQUAL AS SHOWN IN THE DETAILS. 15) NO FIELD CHANGES OR DEVIATIONS SHALL BE MADE APPROVAL OF THE ENGINEER AND NEWNAN UTILITIES. 16) ANY COMMERCIAL AND/OR RESIDENTIAL APPLICATIO FLOW PROTECTION SYSTEM, SHALL BE DESIGNED BY A F AND REQUIRES A SEPERATE SERVICE TAP OFF OF MAIN. 17) THE WATER SYSTEM MUST BE DESIGN TO MAINTAIN OF 20 PSI AT EACH SERVICE CONNECTION AND AT A DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOLL 60 PSI AND NOT LESS THAN 35 PSI. Drawn By: S. Tolar Inspected By: 0011 	10) ALL WATER STALE PERING SHALL BE ADDREAD A MIN. OP OOK PEEL DEEP 11) VALVES SHALL BE AWWA RESILANT GATE VALVES WITH NRS, 2" OPERATING NUT AND OPENING TO THE LEFT BY AMERICAN DARLING OR APPROVED EQUAL. 12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC GRADE WITH ADJUSTABLE TOP, ALONG WITH 17 INCH (ROUND OR SQUARE) CONCRETE VALVE BOX PAD AND CONCRETE VALVE MARKER POST. 13) ALL METER BOXES USED OUTSIDE CONCRETE AREAS SHALL BE TYPE MSBC1416–12, MID–STATES PLASTICS OR EQUAL AS SHOWN IN THE DETAILS. 14) ALL METER BOXES USED IN CONCRETE AREAS SHALL BE C.I. 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Image: Stolar Image: Stolar <t< td=""><td>10) ALL WATEN STALL BE AWAR RESILAN GATE GATE VALVES WITH NRS, 2' 11) VALVES SHALL BE AWAR RESILAN GATE GATE VALVES WITH NRS, 2' 12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC GRADE WITH 12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC GRADE WITH 13) ALL METER BOXES USED OLOGRETE VALVE WARKER POST. 13) ALL METER BOXES USED OLOGRETE VALVE WARKER POST. 13) ALL METER BOXES USED OLOGRETE VALVE WARKER POST. 13) ALL METER BOXES USED OLOGRETE AREAS SHALL BE TYPE WASCI 416-12, MID-STATES PLASTICS OR EQUAL AS SHOWN IN THE DETAILS. 14) ALL METER BOXES USED OLORGRETE AREAS SHALL BE C.I. 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C704

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ACKFILL				4"		21								
					6"		23	u .						
FLEX	(IBLE P/		ENT, H		8"		26							
					10"		28		1					
	,				12"		30'	•	1					
					15"		34'	•	1					
					18"		39'	•	1					
ACAFI	LL				24"		48		-					
HAU	NCH	4			30"	30" 56"								
BEDDING			36"	36" 64"										
DEDDING				42"	42" 72"									
SUITABLE FOUNDATION					48"		80'	u i	-					
				54"	54" 88"									
				60"										
MINIMUM RECOMMENDED COVER BASED ON														
					VECHICL	ECHICLE LOADING CONDITIONS								
					SUR	FACE	LIVE LOAD	ING CON	NDITION					
			PIPE DIAM.		H-25	;	HEAV	HEAVY CONSTRUCTION (75T AXLE LOAD) *						
	12" - 48"				12"		48"							
54" - 60"				24"			60'	,						
			* VEHICLES	IN E	EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER									
				MIN	IMUM RE	COMN	IENDED CC	VER BA	SED					
С					ON RAILW	/AY LO	OADING CONDITIONS		IS					
					PIPE DI	AM.	COOP	ER						
					UP TO	24"	24"	1						
					30"-3	6"	36"		-					
					42"-6	50"	48"	48"						
			** COVEF	IS	MEASURED FROM TOP OF PIPE TO BOTTOM									
			0F RAII *** E-80 C	_VV <i>F</i> OVE	AY TIE. ER REQUI	REME	NTS. ARE (ONLY AF	PLICABLE					
			TO AS	ГМ	F 2306 PIF	°E.	,							
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	REV.		DESCRIPTIC	N		BY	MM/DD/YY	CHK'D						
										CKS				
TYPICAL TRENCH DETAIL				10/18/06										
			HILLIARD, OHIO 43026											
					ADVANCED DRAINAGE SYSTEMS, INC.					NTS				
DRAWING NUMBER: STD-101					1 OF 1									

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM. MIN. TRENCH WIDTH

								RKA BKA	
SDU	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS	Ц		8/7/24 7/8/74	1/0/2
9 X 0.6 = 5.4	Acer rubrum	October Glory Maple	3" Cal.	B&B					
1 X 0.5 =	Betula nigra	River Birch	2" Cal.	B&B					
X 0.5 = 0.5	Carpinus caroliniana	American Hornbeam	2" Cal.	B&B	MIN 8' HT			MITTING	
6 X 0.5 = 8	Cercis canadensis	Eastern Redbud	2" Cal.	B&B	MIN 8' HT			PER PER	N TEN'IL
1 X 0.5 = 5.5	Cornus kousa 'Dwarf Pink'	Dwarf Pink Kousa Dogwood	2" Cal.	B&B	MAX HT. 15'			E-ISSUED	
$6 \times 0.5 = 3$	Ginkgo biloba	Ginkgo Tree	2" Cal.	B&B	Male. MIN 8-10' HT		+++		3 ¥ 1 +
0 X 0.5 = 5	Lagerstroemia x 'Muskogee'	Crape Myrtle Muskogee	2" Cal.	В&В	MULTI TRUNK MIN 6-8' HT	хq	╈	до <mark>,</mark>	┉
X 0.6 = 0.6	Nyssa sylvatica 'Green Gable' TM	Black Gum	3" Cal.	B&B	MIN 8-10' HT	د Dit Check			
0 X 0.5 = 5	Pinus virginiana	Virginia Pine	2" Cal.	B&B		Drawn by E≜M	- 5	ò	
$0 \times 0.6 = 6$	Quercus coccinea	Scarlet Oak	3" Cal.	B&B	MIN 12-14' HT	:07	- 1	15	
$6 \times 0.6 = 3.6$	Quercus nuttallii	Nuttall Oak	3" Cal.	B&B	MIN 10-12' HT	Dat	2	30	
4 X 0.6 = 2.4	Ulmus parvifolia	Lacebark Elm	3" Cal.	B&B	MIN 12-14' HT		ЪТ	Z	
50.5							Т. М.	Ir Il A	
	Abelia x chinensis 'Rose Creek'	Rose Creek Abelia	3 gal.	Pot					
	Azalea Encore TM	Encore Azalea	3 gal.	Pot			<pre>4</pre>) N N	
	Chamaecyparis pisifera 'Golden Mop'	Golden Mop	3 gal.	Pot					
	Distylium x 'Vintage Jade'	Vintage Jade Distylium	3 gal.	Pot			4		
	Gardenia jasminoides 'Leetwo' TM	ScentAmazing Gardenia	3 gal.	Pat			F	4	
	Itea virginica 'Little Henry' TM	Virginia Sweetspire	3 gal.	Pot					
	Loropetalum chinense 'Crimson Fire'	Crimson Fire Loropetalum	3 gal.	Pot					
	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL.	POT					
	Nandina domestica 'Firepower' Rosa x 'Pink Knockout'	Firepower Nandina Pink Knockout Rose	3 gal. 3 gal.	Pot Pot					
	Cynodon dactylon 'Tif 419'	Tif 419 Bermuda Grass	sod						
EE PROTECTIC INED UNTIL FI TY LANDSCAPI RKING, STORAGE WHICH ARE UN SIBILITY OF T IN THE REQUI ROJECT SHALL EMENTS SHALL EMENTS SHALL ANDSCAPE AR ANDSCAPE AR EXTES FLOOD EA: 8.31 A 25 AC IESS FLOOD EA: 8.31 A 25 AC IESS FLOOD EA: 8.31 A 25 AC IESS FLOOD EA: 8.06 X EA: 8.06 X EA: 8.00 X EA	DN MEASURES SHALL BE INSTALLED A INAL LANDSCAPING IS INSTALLED. CA E ARCHITECT. GE, OR ANY OTHER CONSTRUCTION AC JSED TO MEET THE TREE DENSITY REC THE PROPERTY OWNER TO MAINTAIN T RED TREE DENSITY. FAILURE TO MAIN BE A VIOLATION OF THE LANDSCAPE L NOT BE REMOVED AT ANY TIME WIT CHITECT. UNAUTHORIZED REMOVAL O $\frac{ATIONS}{CRES}$ Dain: 6.06 ac 8 = 48.48 SDF $\frac{ES}{REES}$ AC X 5 = 30 TREES TREES : 6.06 AC X 8 = 48 TR TREES = 49 TREES X 40 = 242 SHRUBS	ND INSPECTED PRIOR TO THE LL THE PLANNING DEPARTMEN CTIVITIES ARE TO OCCUR WITH QUIREMENTS, SHALL BE FULLY REE HEALTH AND VIGOR. THE NTAIN THE REQUIRED TREE DE ORDINANCE. TREES WHICH F HOUT WRITTEN APPROVAL, IN F SUCH TREES WILL RESULT I 1 UNDERSTORY TREE 190 LF / 20 = 10 U PLANTED UNDERSTOR' 1 SHRUB 20 LF 190 LF / 20 = 10 S PLANTED SHURBS = LANDSCAPE STRF 10 SHRUBS PER 35 L LANDSCAPE STRIP TO	START OF NT AT 770 IIN TREE F MAINTAIN PROPERT INSITY FAC HAVE BEEN THE FORI N REPLAC O' LAND PER 20 NDERSTO Y TREES HRUBS F 48 SHRU <u>CIP CA</u> PER 35 F OF LA BE PLA	T CALCULA MOTECTION AF PROTECTION AF ED IN PERPET Y OWNER SHAIL CTOR AT ANY N USED TO ME M OF A TREE EMENT OF LIKE T CALCULA SCAPE STRIF LF DRY TREES = 15 UNDE REQUIRED JBS <u>LCULATIONE</u> NDSCAPE S NTED 1.160	ISTURBANCE AND OR AN INSPECTION BY REAS. UITY. IT IS THE LL, AT ALL TIMES, TIME DURING THE LIFE OF THE TREE DENSITY REMOVAL PERMIT, BY THE E SIZE AND SPECIES. ATIONS SERSTORY TREES ONS ISCAPE STRIP TRIP LF		BUTE DEVELOPMENT FLANS FOR B2 CONTTR A CTUNG	WORLD HEADQUART	,
RGREEN SHF RUBS: 6.06 DUOUS SHR	$\begin{array}{rcl} & 40 & - & 242 & \text{SHROBS} \\ \text{RUBS} & & 383 & \text{SHRUBS} \\ \text{A} & \text{X} & 8 & = & 48 & \text{SHRUBS} \\ \text{RUBS} & & 118 & \text{SHRUBS} \end{array}$	33 TREES REQUIRED 42 TREES PROVIDED 330 SHRUBS REQUIRE	:D		L .	\vdash			
REE NOTE	SITE.	330 SHRUBS PROVIDE	.D				GEGI	RG	A
· ·		LANDSCAPE NOTI 1. ALL PLANT BEDS 2. ALL DISTURBED AF 3. SOD ALONG ELLEN	<u>ES</u> TO BE P REAS TO SIMS T	INESTRAW 2 BE SOD, M O CURB LINI	– 3" THICK ULCH OR SEED AND S E.		R NO. CODOFT E TAPEN	ARCHI R 7/	2 10
LANDSCAPE N 1. WHERE LA AREAS SH PURPOSES IMPROVEM EASEMENT PAVEMENT 2. IF THE LA WAY FROM REVISED F FOR APPF DO SO WI TO THE IS 4. TREES, WI SHALL BE OF THE P PROPFRTY	NOTES: ANDSCAPING AREAS ADJOIN GRASSED HALL BE CONSIDERED PART OF THE LA S OF MAINTENANCE. AS OF COMPLET IENTS, THE PROPERTY OWNER SHALL T ON RIGHTS-OF-WAY EXTENDING FRO T IN ORDER TO COMPLETE THE REQUIF ANDSCAPE DESIGN OR PLAN MATERIAL M THE CITY OF NEWNAN'S APPROVED PLANS SHALL BE SUBMITTED TO THE ROVAL PRIOR TO ANY LANDSCAPE INS LL RESULT IN AN APPROVED AS BUIL SSUANCE OF A CERTIFICATE OF OCCUF HICH ARE USED TO MEET THE TREE D FULLY MAINTAINED IN PERPETUITY. I PROPERTY OWNER TO MAINTAIN TREE F OWNER SHALL. AT ALL TIMES MAINT	RIGHT-OF-WAY, SUCH ANDSCAPED AREA FOR ION OF THE SITE HAVE AN IMPLIED DM THE SITE TO THE ROAD RED MAINTENANCE. ARE CHANGED IN ANY PLAN, TWO SETS OF LANDSCAPE ARCHITECT TALLATION FAILURE TO T BEING SUBMITTED PRIOR PANCY. DENSITY REQUIREMENTS, T IS THE RESPONSIBILITY HEALTH AND VIGOR. THE TAIN THE REQUIRED TRFF						· /	
PROPERTY DENSITY. AT ANY T OF THE L MEET THE ANY TIME REMOVAL REMOVAL AND SPEC	T OWNER SHALL, AT ALL TIMES, MAIN FAILURE TO MAINTAIN THE REQUIRED TIME DURING THE LIFE OF THE PROJEC ANDSCAPE ORDINANCE. TREES WHICH TREE DENSITY REQUIREMENTS SHALL WITHOUT WRITTEN APPROVAL, IN THE PERMIT, BY THE CITY LANDSCAPE AR OF SUCH TREES WILL RESULT IN REP CIES.	AIN THE REQUIRED TREE TREE DENSITY FACTOR TSHALL BE A VIOLATION HAVE BEEN USED TO NOT BE REMOVED AT FORM OF A TREE CHITECT. UNAUTHORIZED LACEMENT OF LIKE SIZE					DRAWI	NG 1	NC)

