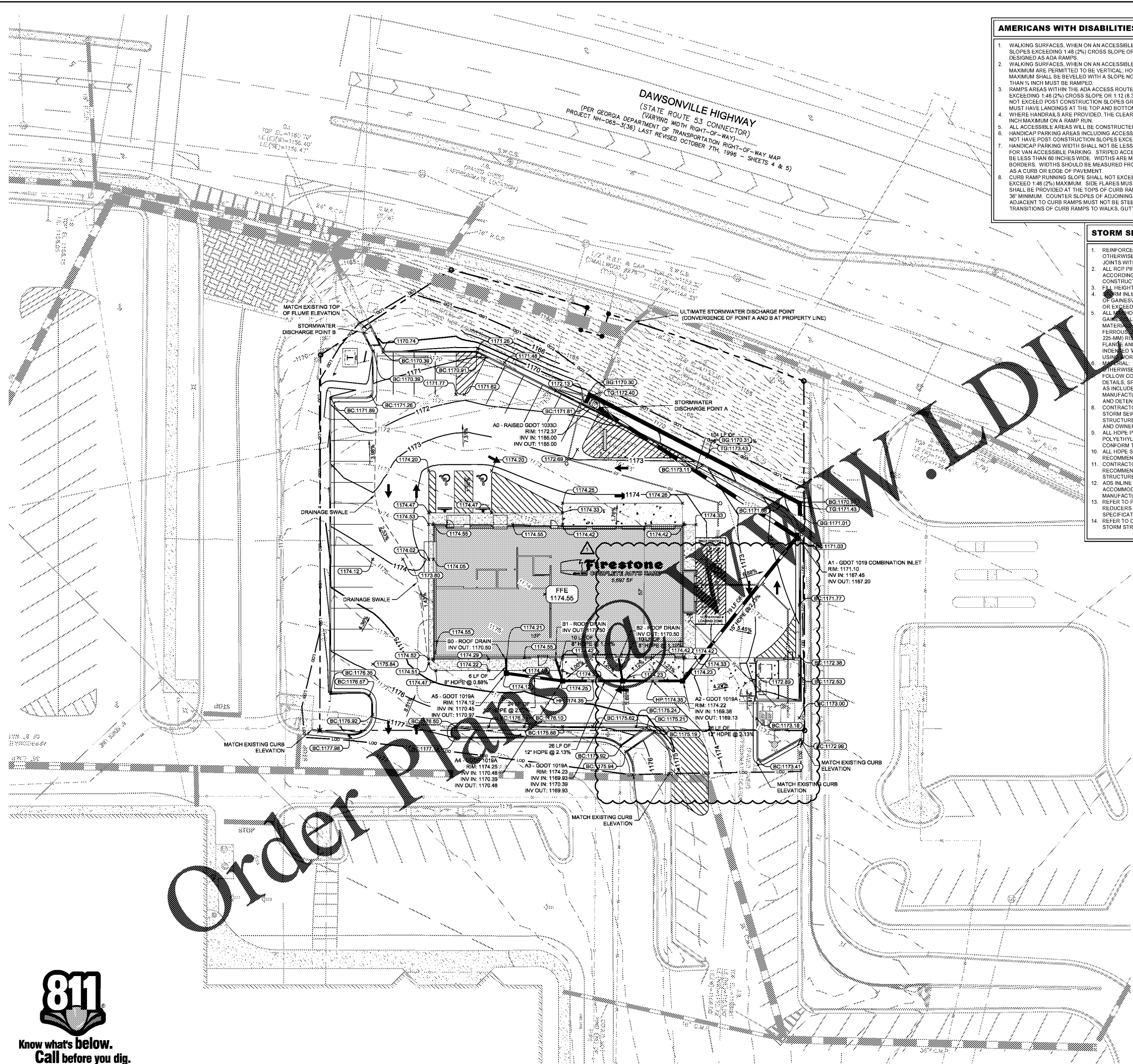


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**AMERICANS WITH DISABILITIES ACT COMPLIANCE NOTES**

1. WALKING SURFACES, WHEN ON AN ACCESSIBLE ROUTE SHALL NOT HAVE POST CONSTRUCTION SLOPES EXCEEDING 1:48 (2%) CROSS SLOPE OR 1:20 (5%) RUNNING SLOPE, EXCEPT IN AREAS DESIGNED AS ADA RAMPS.
2. WALKING SURFACES, WHEN ON AN ACCESSIBLE ROUTE, CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM ARE PERMITTED TO BE VERTICAL; HOWEVER CHANGES BETWEEN 1/4 INCH AND 1/2 INCH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH MUST BE RAMPED.
3. RAMPS AREAS WITHIN THE ADA ACCESS ROUTE SHALL NOT HAVE POST CONSTRUCTION SLOPES EXCEEDING 1:48 (2%) CROSS SLOPE OR 1:12 (8.3%) RUNNING SLOPE. RAMP LANDING AREAS SHALL NOT EXCEED POST CONSTRUCTION SLOPES GREATER THAN 1:50 (2%) IN ANY DIRECTION. RAMPS MUST HAVE LANDINGS AT THE TOP AND BOTTOM OF EACH RAMP RUN.
4. WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN THE HANDRAILS SHALL BE 36 INCH MAXIMUM ON A RAMP RUN.
5. ALL ACCESSIBLE AREAS WILL BE CONSTRUCTED WITH SLIP RESISTANT FINISH.
6. HANDICAP PARKING AREAS INCLUDING ACCESSIBLE PARKING SPACES AND ACCESS AISLES, SHALL NOT HAVE POST CONSTRUCTION SLOPES EXCEEDING 1:48 (2%) IN ANY DIRECTION.
7. HANDICAP PARKING WIDTH SHALL NOT BE LESS THAN 96 INCHES FOR CAR PARKING OR 132 INCHES FOR VAN ACCESSIBLE PARKING. STRIPED ACCESS AISLES BETWEEN PARKING SPACES SHALL NOT BE LESS THAN 60 INCHES WIDE. WIDTHS ARE MEASURED FROM THE CENTER OF PAINTED STRIPE BORDERS. WIDTHS SHOULD BE MEASURED FROM THE EDGE OF ANY PHYSICAL BOUNDARY, SUCH AS A CURB OR EDGE OF PAVEMENT.
8. CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 1:12 (8.3%) MAXIMUM. CROSS SLOPE MUST NOT EXCEED 1:48 (2%) MAXIMUM. SIDE FLARES MUST NOT BE STEEPER THAN 1:10 (10%). LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND THE LANDING CLEAR LENGTH SHALL BE 36" MINIMUM. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO CURB RAMPS MUST NOT BE STEEPER THAN 1:20 (5%). THE ADJACENT SURFACES AT TRANSITIONS OF CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE THE SAME LEVEL.

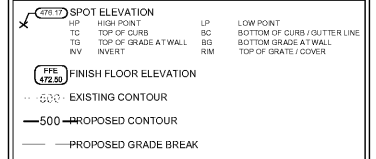
**GRADING NOTES**

1. CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION, SIZE, AND ELEVATIONS OF EXISTING UTILITIES AT CONNECTION POINTS PRIOR TO GRADING OR INSTALLATION OF ANY PROPOSED UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
2. AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER AND IN ACCORDANCE WITH SECTION 4.14 OF THE TENNESSEE GENERAL NPDES PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
3. DISTURBED AREAS LEFT IDEAL FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION, MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
4. WHEN HAND PLANTING WITH CH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD TO COVER THE AREA WITHIN 24 HOURS OF SEEDING. IF HAY IS TO BE USED, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2:1 (WITH A HEIGHT OF TEN FEET OR GREATER) SHALL BE PROTECTED (SEE SPEC. TO RETAINING WALLS). AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH EROSION CONTROL MATTING OR BLENDED SEEDS.
5. THE EROSION CONTROL MATTING MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
6. EROSION AND SEDIMENT CONTROL DEVICES MUST BE LAYED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR MUST CALL FOR AN INSPECTION TO OBTAIN A PERMIT TO GRADE. PLEASE CALL WITH ENOUGH LEAD-TIME FOR AN INSPECTION TO MEET YOUR SCHEDULE.
7. SEDIMENTATION CONTROL DEVICES MUST BE INSPECTED ACCORDING TO LOCAL AND STATE REQUIREMENTS AND AS STIPULATED IN THE STORMWATER POLLUTION PREVENTION PLAN. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MAY BE NECESSARY AS THE PROJECT PROGRESSES AND NEW CHANNELS HAVE DEVELOPED.
8. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
9. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
10. CONTRACTOR SHALL REVIEW SITE GEOTECHNICAL REPORT BEFORE COMMENCING GRADING OPERATIONS.
11. ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT, REFER TO LANDSCAPING PLANS FOR AREAS TO RECEIVE SO.
12. INSTALL SOD OR RIPRAP IN SWALES AS INDICATED ON GRADING PLANS AND EROSION CONTROL PLANS.
13. TOPSOIL ON SITE TO BE STRIPPED AND STOCKPILED FOR REUSE IN LAWN AREAS.
14. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER WATER QUALITY MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
15. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL ONE CALL-811 OR 1-800-752-6007.
16. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.
17. THE CLEARING LIMITS WILL BE CLEARLY LOCATED IN THE FIELD. NO CONSTRUCTION ACTIVITY WILL TAKE PLACE OUTSIDE OF THE CLEARING LIMITS.
18. ALL STORMWATER SYSTEM STRUCTURES AND PIPES SHALL BE PRIVATELY OWNED AND MAINTAINED.
19. STORM DRAIN PIPES WILL BE CLASS II REINFORCED CONCRETE PIPE (RCP), TYPE II UNIMULCHIZED CORRUGATED METAL PIPE (CMP) OR HDPE. ALL STORM DRAIN STREET CROSSINGS SHALL BE CLASS II RCP.
20. THE PIPED STORMWATER SYSTEMS WERE DESIGNED FOR A 25-YEAR STORM. CROSS DRAINS WERE DESIGNED FOR A 100-YEAR STORM.

**STORM SEWER NOTES**

1. REINFORCED CONCRETE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED WITH BELL-AND-SPIGOT AND GASKETED JOINTS WITH ASTM C-443 RUBBER GASKETS.
2. ALL RCP PIPE SHALL BE WATER TIGHT AND INSTALLED ACCORDING TO DOT STANDARDS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).
3. PIPE HEIGHTS OVER EXISTING CURBS SHALL ACCORDANCE WITH CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENTS WHICH MEET OR EXCEED THE FOLLOWING:
4. ALL MANHOLE FRAMES AND COVERS ARE TO BE PER CITY OF GAINESVILLE STANDARDS FOR DIMENSIONS AND MATERIALS AND AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE INDICATED. FERROUS MANHOLE COVERS SHALL BE 15" TO 22" (381-560MM) DIAMETER WITH 1/2" (12.7MM) MINIMUM WIDTH FLANGE AND 1/2" (12.7MM) MINIMUM COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING LETTERING EQUIVALENT TO "STORM SEWER".
5. MATERIAL: GRAY IRON ASTM A48 CLASS 30 UNLESS OTHERWISE INDICATED.
6. FOLLOW CONSTRUCTION PLANS AND MANUFACTURER DETAILS, SPECIFICATIONS, AND INSTALLATION INSTRUCTION AS INCLUDED WITHIN THE PLANS AND PROVIDED BY MANUFACTURER FOR THE INSTALLATION OF WATER QUALITY AND DETENTION SYSTEMS.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER PIPE STRUCTURES, WATER QUALITY STRUCTURES, AND DETENTION STRUCTURES FOR ENGINEER AND OWNER APPROVAL PRIOR TO ORDERING MATERIALS.
8. ALL HDPE PIPE SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE. HDPE PIPE SHALL CONFORM TO ASTM D3500 WITH WATER TIGHT JOINTS.
9. ALL HDPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ASHOTO SECTION 20.
10. CONTRACTOR TO PROVIDE AND INSTALL MANUFACTURER RECOMMENDED FITTINGS ON RCP CONNECTIONS TO HDPE STRUCTURES.
11. AID INLINE DRAINS AND DRAIN BASINS TO BE SIZED TO ACCOMMODATE INLET AND OUTLET PIPES PER MANUFACTURER'S SPECIFICATIONS.
12. REFER TO PIPE CHART FOR CASTING TYPES, INSTALL REDUCERS AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS TO ACCOMMODATE LARGER INLET SIZES.
13. REFER TO DETAILS SHEETS FOR ADDITIONAL INFORMATION ON STORM STRUCTURES AND GRATES.

**GRADING PLAN LEGEND**



**PROJECT DESCRIPTION**

FIRESTONE GAINESVILLE IS A PROPOSED AUTO REPAIR AND RETAIL DEVELOPMENT. IT IS LOCATED AT 283 DAWSONVILLE HIGHWAY SW, GAINESVILLE, GEORGIA. THE EXISTING ZONING OF THE SITE IS R-B WITH COMMERCIAL USE. THE SITE IS A TOTAL OF 0.84 AC, WITH A DISTURBED ACREAGE OF 0.90 AC.

THE DEVELOPMENT WILL INCLUDE SURFACE PARKING, STORMWATER CONVEYANCE AND ALL APPROPRIATE UTILITY RELOCATION AND INSTALLATION.

**EXISTING CONDITIONS**

THE EXISTING SITE IS PAVED PARKING AREA WITH THE SITE DRAINING TO THE WEST TOWARDS DAWSONVILLE HIGHWAY. EXISTING PAVED AREAS ARE ON SITE, WITH THE WEST SIDE OF THE PROPERTY SLOPING DOWN TOWARDS DAWSONVILLE HIGHWAY AT A 2:1 SLOPE. THERE ARE NO WETLANDS OR STREAMS ON SITE OR WITHIN 200 FEET OF THE SITE, AND IT IS NOT WITHIN ANY FLOOD HAZARD AREA. THE RECEIVING WATERS FOR THE DEVELOPMENT IS THE CHATTAHOOCHEE RIVER.

**CRITICAL AREAS**

THE WEST SIDE OF THE PROPERTY IS A BANK SLOPING TOWARDS DAWSONVILLE HIGHWAY AT A 2:1 SLOPE AND WILL REMAIN. A 3' RETAINING WALL IS PROPOSED ON THE NORTHERN CORNER OF THE SITE TO ALLOW FOR POSITIVE DRAINAGE TO THE PROPOSED STORMWATER SYSTEM.

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**Firestone**  
 COMPLETE AUTO CARE  
 283 DAWSONVILLE HIGHWAY SW  
 GAINESVILLE, GA 30601



NO.	DATE	BY	REVISIONS
1	10/09/2020	SPJ	PUMP ROOM ADDITION
2			
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9			
10			

DESIGNED BY: SAHERF  
 DRAWN BY: SAHERF  
 CHECKED BY: SAHERF  
 DATE: 10/09/2020  
 KIMLEY-HORN PROJECT NO: 017059038

GRADING AND DRAINAGE PLAN  
 SHEET NUMBER  
**C4-00**

