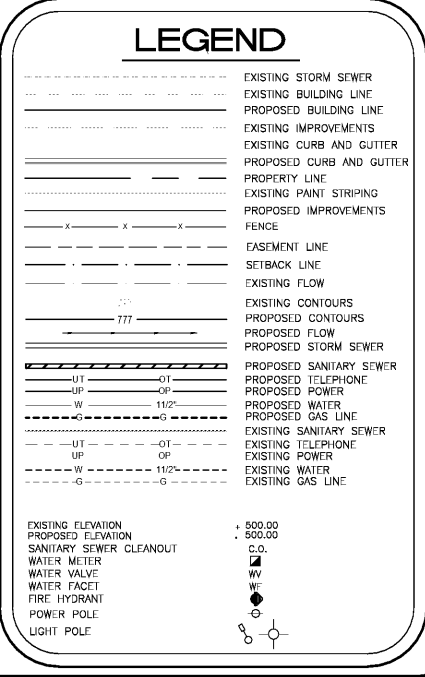


- ### KEY NOTE LEGEND
- (A) IMPACT DISSIPATOR HEADWALL REQ'D. - SEE DETAIL  
INV. EL. = 670.50 (13.5" ARCP)
  - (B) 44 L.F. - 13.5" x 22" CLASS III R.C.P. @ 0.4% GR. REQ'D.
  - (C) OUTLET CONTROL STRUCTURE REQ'D. - SEE DETAIL  
TO EL. = 673.25  
INV. EL. = 670.68 (13.5" ARCP)
  - (D) SLOPED PAVED HEADWALL REQ'D. - SEE DETAIL  
INV. EL. = 670.68 (13.5" ARCP)
  - (E) 86 L.F. - 13.5" x 22" CLASS III R.C.P. @ 0.1% GR. REQ'D.
  - (F) GRATE INLET REQ'D. - RIM EL. = 674.00 - SEE DETAIL  
INV. EL. = 670.77 (13.5" ARCP)
  - (G) 100 L.F. - 13.5" x 22" CLASS III R.C.P. @ 0.1% GR. REQ'D.
  - (H) HOODED GRATE INLET REQ'D. - THROAT EL. = 674.00 - SEE DETAIL  
INV. EL. = 670.87 (13.5" ARCP)
  - (I) 93 L.F. - 13.5" x 22" CLASS III R.C.P. @ 0.1% GR. REQ'D.
  - (J) GRATE INLET REQ'D. - RIM EL. = 673.80 - SEE DETAIL  
INV. EL. = 670.96 (13.5" ARCP)
  - (K) 41 L.F. - 13.5" x 22" CLASS III R.C.P. @ 0.1% GR. REQ'D.
  - (L) SLOPED PAVED HEADWALL REQ'D. - SEE DETAIL  
INV. EL. = 671.00 (13.5" ARCP)
  - (M) 72 L.F. - 12" HDPE @ 0.4% GR. REQ'D.
  - (N) SLOPED PAVED HEADWALL REQ'D. - SEE DETAIL  
INV. EL. = 670.97 (12" HDPE)
  - (O) SAWCUT AND REMOVE EXISTING PAVEMENT AND CURB REQ'D.
  - (P) CONCRETE FLUME - SEE DETAIL REQ'D.
  - (Q) SLOPED PAVED HEADWALL REQ'D. - SEE DETAIL  
INV. EL. = 670.68 (12" HDPE)
  - (R) REMOVE HEADWALL AND CAP & PLUG EXISTING 18" RCP
  - (S) 6" HDPE @ MIN. 0.5% GR. ROOF DRAIN COLLECTION SYSTEM REQ'D. - SEE ARCH PLAN FOR CONNECTION TO DOWN SPOUTS.



**BUILDING PAD UNDERCUT REQUIREMENTS:**  
 CONTRACTOR SHALL UNDERCUT AREA 5' OUTSIDE BUILDING FOOTPRINT TO A MINIMUM DEPTH OF 4 FEET BELOW SUBGRADE ELEVATION. REPLACE WITH ENGINEERED FILL ("LOW VOLUME CHANGE FILL") AND COMPACT SPECIFIED IN PROJECT NOTES. BOTTOM OF PAD EXCAVATION SHALL BE PROOF ROLLED PRIOR TO BACKFILL OPERATIONS BEGIN. ALL WORK SHALL INCLUDED IN CONTRACTORS BASIC SCOPE OF WORK.

MCDONALD'S USA, LLC  
 3146 LEEMAN FERRY RD  
 HUNTSVILLE, AL 35801  
 TRACT A-1  
 WHITWORTH FARMS, PHASE  
 PLAT BOOK H, PG 392-393

### GRADING NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
  - ALL CUT OR FILL SLOPES SHALL BE 2:01 OR FLATTER UNLESS OTHERWISE SHOWN ON PLANS.
  - STORM PIPE SHALL BE CLASS III RCP OR PVC AS SHOWN ON THE PLAN. ALL STORM PIPE IN A PUBLIC UTILITY & DRAINAGE EASEMENT SHALL BE CLASS III RCP.
  - EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
  - PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
  - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
  - THE CONTRACTOR SHALL APPLY FOR ADEM PERMIT AND SHALL PAY ALL PERMIT FEES. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL PAY FOR ALL INSPECTIONS FOR GEOTECHNICAL TEST.
  - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
  - TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY GONZALEZ-STRENGTH & ASSOCIATES, INC. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
  - ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZER FABRIC TO ALL SLOPES 3:1 OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
  - CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
  - REFER TO GEOTECHNICAL REPORT BY INTERTEX P.S.I. - PROJECT REPORT 04671608 FOR GEOTECHNICAL REQUIREMENTS.
  - FLOOR SLAB SHALL BE UNDER LAID BY 4" CLEAN CRUSHED STONE. THE STONE SHALL BE COVERED WITH A VAPOR RETARDING MEMBRANE IN ACCORDANCE WITH ACI 302.1 CHAPTER 3.
- CONTRACTOR SHALL PROVIDE PRICES FOR:
- GEOTEXTILE FABRIC - TENCATE MIRA1 600X SIS Y.
  - ALDOT #24 STONE - S17ON
  - GEOTEXTILE FABRIC - SIS Y
  - DENSE GRADE BASE - S17ON
- BASE UNIT PRICE SHALL BE INSTALLED IN PLACE.
- Site preparation shall include stripping all vegetation, topsoil, and organic material to a depth where uniform, stable subgrade conditions are encountered. Topsoil, tree roots and stumps or other such material containing organic matter shall not be used as fill beneath building or pavement areas. Topsoil may be stockpiled and later be re-used in landscaped areas. Dispose offsite in a legal manner any additional topsoil.
  - After site stripping and undercutting of previously placed fill materials, the subgrade of proposed development areas shall be proofrolled. Proof-rolling shall be performed by traversing the construction areas with a fully loaded dump truck or similar rubber-tired equipment weighing at least 15 tons. Proof-rolling operations shall be observed by a representative of the construction testing agency.
  - Unstable soils which are revealed by proof-rolling, which cannot be adequately moisture conditioned and densified in place, shall be undercut and replaced with engineered fill material.
  - Fill material required at this site shall not contain rocks greater than 3 inches in diameter or greater than 30 percent retained on the 1/4-inch sieve, and it shall not contain more than 3 percent (by weight) of organic matter or other unsuitable material.
- The Plasticity Index (PI) for the material shall not exceed 20, and the Liquid Limit (LL) for the material shall not exceed 50 and shall classify in accordance with ASTM D2487 (Unified Soil Classifications) as GW, GP, GM, GC, SW, SP, SM, or ML, SC and CL, unless otherwise allowed by the testing firm.
  - Structural fill shall possess a maximum dry density of at least 100 pounds per cubic foot (pcf).
  - Structural fill shall be compacted to at least 95 percent of standard Proctor (ASTM D 698) maximum dry density in building areas and within one foot of subgrade in paved areas. In other areas, structural fill shall be compacted to at least 95 percent of standard Proctor (ASTM D 698) maximum dry density.
  - The moisture content of structural fill shall be maintained within 3 percent of the material's optimum moisture content as determined by the same index.
  - Fill shall be placed in maximum lifts of 8 inches of loose material or 4- to 6-inch lifts in smaller excavations such as utility trenches and within trenches shall be compacted with hand-operated equipment.
  - Compaction of the backfill shall be checked with a sufficient number of density tests to determine if adequate compaction is being achieved by the contractor. The frequency of testing will depend on the area of fill placement and the rate at which the fill is placed. One test shall be performed for every 2000 square feet of fill in underfloor areas for every 1 to 1 1/2 vertical feet of fill placement (typically every one or two lifts). Testing frequency shall be increased in confined areas such as pipe trenches or wall backfill.
  - The properly compacted fill shall extend horizontally outward beyond the exterior perimeter of the building and foundations a distance equal to the height of fill or 5 feet; whichever is greater, prior to significant sloping. The properly compacted fill shall extend horizontally outward beyond the exterior perimeter of the pavements a distance equal to the height of fill or 3 feet.

**ARBOR TRACE ROW VARIES PER PG. 257**

NOTE: THE BUILDING ROOF DRAINS WITH 10" PVC ROOF DRAIN COLLECTION SYSTEM TO SOUTH DETENTION POND AREA

NOTE:  
 1 - ALL DRAINAGE DITCHES ARE TO BE CENTERED ON PROPERTY LINES UNLESS OTHERWISE SHOWN  
 2 - ALL LOTS SHALL BE GRADED SO THAT RUN-OFF WILL BE DIRECTED TO THE STREET OR TO DRAINAGE WAYS IN A DEDICATED EASEMENT.

NO.	REVISIONS	DESCRIPTION	DATE
1	REVISED PER OWNER		3-14-19
2	REVISED PER OWNER - BUILDING FOOTPRINT		5-9-19

**SITE GRADING PLAN**

**O'REILLY AUTO PARTS**  
 County Line Rd.  
 Madison, Alabama

**AFFILIATED DEVELOPMENT GROUP**  
 Birmingham, AL

DATE: 12-08-18  
 SCALE: 1"=20'

DESIGNED BY: K. Shaber  
 DRAWN BY: K. Shaber

**GONZALEZ - STRENGTH & ASSOCIATES, INC.**  
 CIVIL ENGINEERING, LAND SURVEYING, PLANNING, TRAFFIC & TRANSPORTATION

2176 PARKWAY LAKE DRIVE  
 HOOPER, ALABAMA 35244  
 PHONE: (205) 942-2486  
 FAX: (205) 942-3033  
 www.Gonzalez-Strength.com

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 PROJECT 18-0420