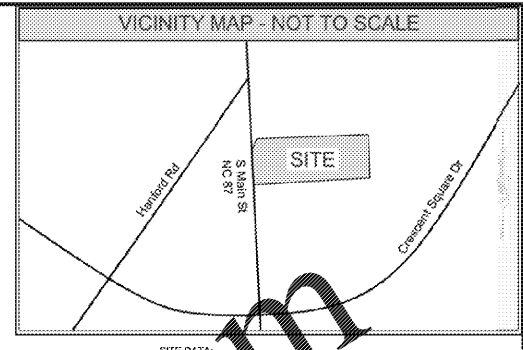
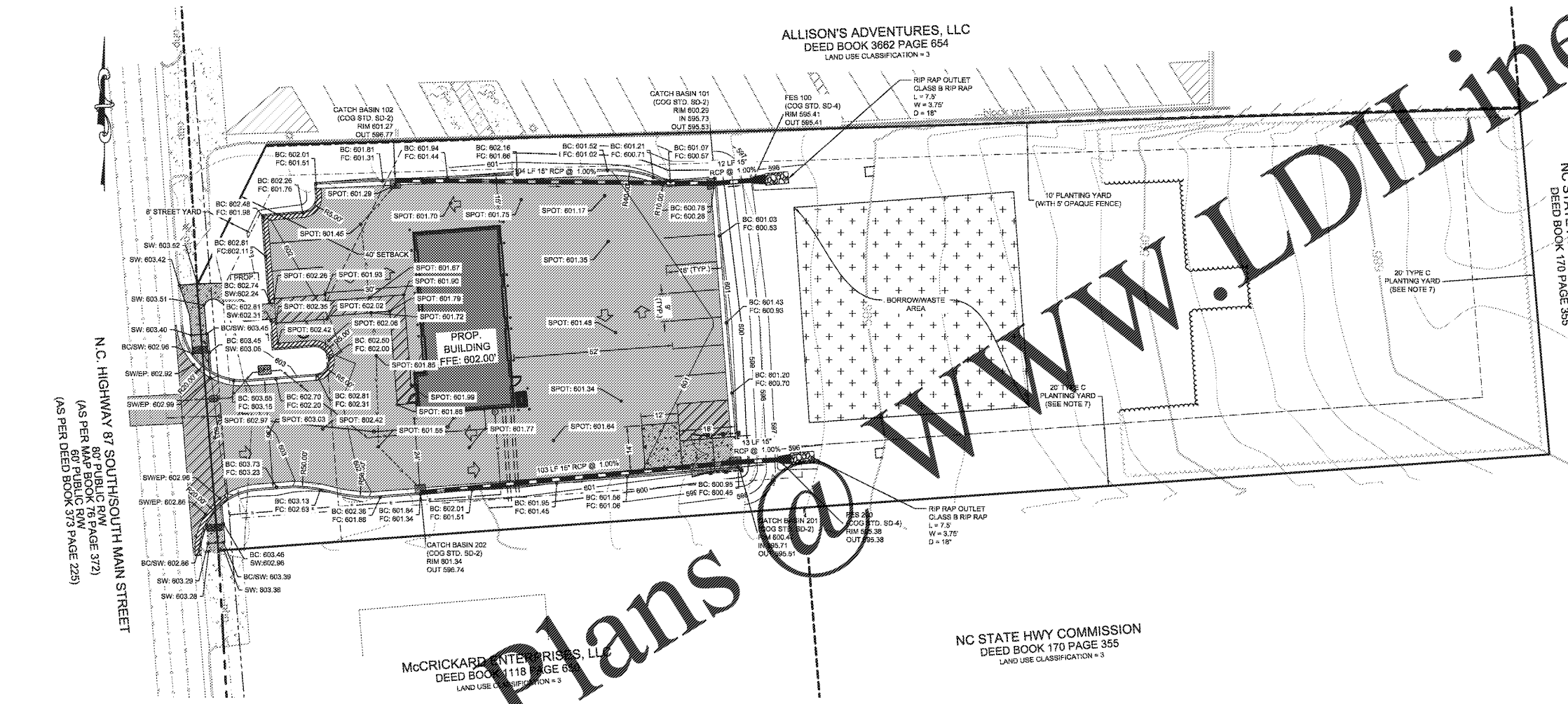


STORM NETWORK SUMMARY																				
Upstream Node	Downstream Node	Drainage Area (Acres)	Total Area (Acres)	Runoff Coef.	Rainfall Intensity (in/hr)	Flow to Inlet (cfs)	Total Flow (cfs)	Diameter (in)	Slope (%)	Pipe Length (ft)	Average Velocity (fps)	Full Flow Velocity (fps)	Full Flow (cfs)	Maximum Flow (cfs)	Upstream HGL (ft)	Downstream HGL (ft)	Upstream Rim Elev (ft)	Downstream Rim Elev (ft)	Upstream Pipe Invert (ft)	Downstream Pipe Invert (ft)
CATCH BASIN 102	CATCH BASIN 101	0.16	0.16	0.50	7.04	0.55	0.53	15.00	1.00	103.72	3.17	5.26	6.46	6.95	597.01	595.97	601.27	600.29	596.77	595.73
CATCH BASIN 101	FES 100	0.10	0.26	0.90	5.63	0.56	0.95	15.00	1.00	12.36	3.76	5.25	6.45	6.93	595.85	595.73	600.29	595.41	595.53	595.41
CATCH BASIN 202	CATCH BASIN 201	0.11	0.11	0.50	7.04	0.39	0.39	15.00	1.00	103.25	2.89	5.26	6.46	6.95	596.95	595.91	601.34	600.47	596.74	595.71
CATCH BASIN 201	FES 200	0.10	0.21	0.90	5.63	0.49	0.78	15.00	1.00	13.42	3.55	5.26	6.46	6.95	595.80	595.67	600.47	595.38	595.51	595.38



SITE DATA:
 PARCEL ID: 0075
 AREA: 1.08 ACRES
 DISTURBED AREA: 0.65 ACRES
 ZONING:
 EXISTING ZONING: R-7
 PROPOSED ZONING: B-2
 DEVELOPMENT STANDARDS: CITY OF GRAHAM
 STREET SETBACK: 40'
 SIDE SETBACK: N/A
 REAR SETBACK: N/A
 MAXIMUM HEIGHT: N/A
 WATERSHED DATA:
 WATERSHED: COUNTY HOME BRANCH (STILL HOUSE BRANCH)
 WATERSHED CLASSIFICATION: WS-V, NSW
 RIVER BASIN: CAPE FEAR
 STREAM INDEX: 16-17-1
 SOIL TYPES: Uf, EoB2
 AVG. SLOPE: 5%
 LANDSCAPE YARD REQUIREMENTS:
 PROPOSED LAND USE CLASSIFICATION: 4
 ADJACENT PROPERTY LAND USE CLASSIFICATION: 3
 STREET YARD: 8'
 SIDE & REAR YARD: 20' TYPE C (10' W/ OPAQUE FENCE)
 PARKING REQUIREMENTS:
 PROPOSED USE: VEHICLE ACCESSORIES/REPAIR/WASH
 REQUIRED: 1,500 S.F. X 1 SPACE / 200 S.F. SPA = 9 SPACES
 PROVIDED: 12 TOTAL SPACES (1 HANDICAP)
 NOTES:
 1. PROPERTY WILL BE SERVED BY COG WATER AND PUBLIC SEWER.
 2. ALL CONSTRUCTION IS TO BE TO CITY OF GRAHAM, NCDOT, AND NCEOG STANDARDS.
 3. FIELD LOCATION INFORMATION SHOWN PROVIDED BY CAH SURVEYING, P.C. PER SURVEY DATED 03/03/2020.
 4. THIS MAP DOES NOT MEET G.S. 47-30 REQUIREMENTS AND IS NOT FOR RECORDING OR CONVEYANCE.
 5. THIS MAP IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT OF WAYS, AND AGREEMENTS NOT VISIBLE OR APPARENT AT THE TIME OF THE SURVEY.
 6. THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A TITLE INVESTIGATION, THEREFORE, THIS MAP IS SUBJECT TO ANY AND ALL FACTS AN ACCURATE TITLE INVESTIGATION MAY DISCLOSE.
 7. WHERE POSSIBLE, EXISTING VEGETATION WITHIN THE 20' TYPE C PLANTING YARD WILL REMAIN AND BE INSPECTED BY CITY OF GRAHAM FOR APPROVAL. SEE SHEET 7 FOR LIMITS OF TREE FENCING FOR TREE PRESERVATION.
 8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 9. ALL CONSTRUCTION SHALL COMPLY WITH THE SOUTH MAIN STREET/HIGHWAY 87 OVERLAY DISTRICT STANDARDS.
 10. EXISTING DRIVEWAY ON SOUTH MAIN STREET (HIGHWAY 87) IS TO BE REMOVED.
 11. PRIOR TO CONSTRUCTION, DRIVEWAY PERMITS WILL BE OBTAINED FROM CITY OF GRAHAM NCDOT AS APPLICABLE.
 12. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IMMEDIATELY IF SURVEY DOES NOT MATCH EXISTING CONDITIONS. THE EXISTING LOCATION OF THE WATER LINE AND SEWER MAIN HAS NOT BEEN FIELD LOCATED. CONTRACTOR SHALL HAVE BOTH UTILITIES FIELD VERIFIED BEFORE OPEN CUTTING ROAD FOR SERVICE INSTALLATION/MODIFICATION.
 13. THE EXACT LOCATION OF THE WATER AND SEWER MAIN IS UNKNOWN. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING MAINS AND COORDINATE WITH NCDOT PRIOR TO PERFORMING SERVICE TIES. WHEN WORKING WITHIN NCDOT PUBLIC R/W, CONTRACTOR SHALL FOLLOW ALL GUIDELINES AND REQUIREMENTS OUTLINED IN THE ENCROACHMENT AGREEMENT AND DRIVEWAY PERMIT. CONTRACTOR SHALL COORDINATE WITH COG UTILITIES DEPARTMENT WHEN INSTALLING WATER SERVICE AND BACKFLOW DEVICE.
 14. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 15. SEWER SERVICE TO FACILITY SHALL BE INSTALLED PER CURRENT NC PLUMBING CODE. CONTRACTOR TO VERIFY SEWER SERVICE TO MAIN IS EXISTING + PRIOR TO PERFORMING EXTENSION TO THE BUILDING.
 16. SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE COMPACTED TO STANDARD PROCTOR MAXIMUM DRY DENSITY AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, AND WITHIN PUBLIC RIGHT OF WAY SHALL CONFORM TO COG AND NCDOT REQUIREMENTS.
 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF ALL EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY AGENCY OR COMPANY. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATIONS.
 18. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
 19. MINIMUM SLOPE FOR 4" SANITARY SEWER COLLECTION LINES SHALL BE NO LESS THAN 2%.
 20. ALL SEWER CLEANOUTS IN PAVEMENT AREAS SHALL BE TRAFFIC BEARING.
 21. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THE ORIGINAL CONDITION OR THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
 22. HANDICAP PARKING AND ACCESS TO BUILDING MUST MEET ALL CURRENT FEDERAL AND LOCAL ACCESSIBILITY RULES AND GUIDELINES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE AREAS ARE GRADED TO ADA COMPLIANT SPECIFICATIONS. PARKING SPACE AND HATCHED AREA MUST BE FLATTER THAN 2% IN ALL DIRECTIONS INCLUDING THE DIAGONAL.

Civil Engineers and Land Surveyors
 8516 Triad Drive, Colfax, NC 27235
 (336) 852-9797
 www.feiconsulting.com
 License No. C-0950



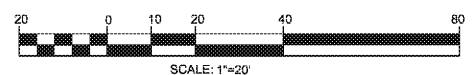
NC STATE HWY COMMISSION
 DEED BOOK 170 PAGE 365

NC STATE HWY COMMISSION
 DEED BOOK 170 PAGE 355



Order Plans

EARTHWORK SUMMARY:
 8" STRIPPINGS: 872.84 C.Y.
 CUT VOLUME: 118.85 C.Y.
 FILL VOLUME: 1,361.87 C.Y.
 10" SUBGRADE CUT: 472.04 C.Y.
 NET FILL: 770.76 C.Y.
 ON-SITE BORROW VOLUME: 770.76 C.Y.



STRICKLAND BROTHER'S 10 MINUTE OIL CHANGE
 GRADING PLAN

PROJECT LOCATION:
 418 N MARSHALL STREET, SUITE 801
 WING FORT WALKER, NC 27161

OWNER/INFORMATION:
 GEMCAP DEVELOPMENT, LLC
 418 N MARSHALL STREET, SUITE 801
 WING FORT WALKER, NC 27161

REVISION NOTE

NO.	DATE	REVISION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DRAWN BY: CP
 CHECKED BY: AC
 DATE: 05/14/2020
 PROJECT NO: 07510.018
 REF. NO.: -
 SCALE: N/A

PRELIMINARY CONSTRUCTION

SHEET
 6 OF 10