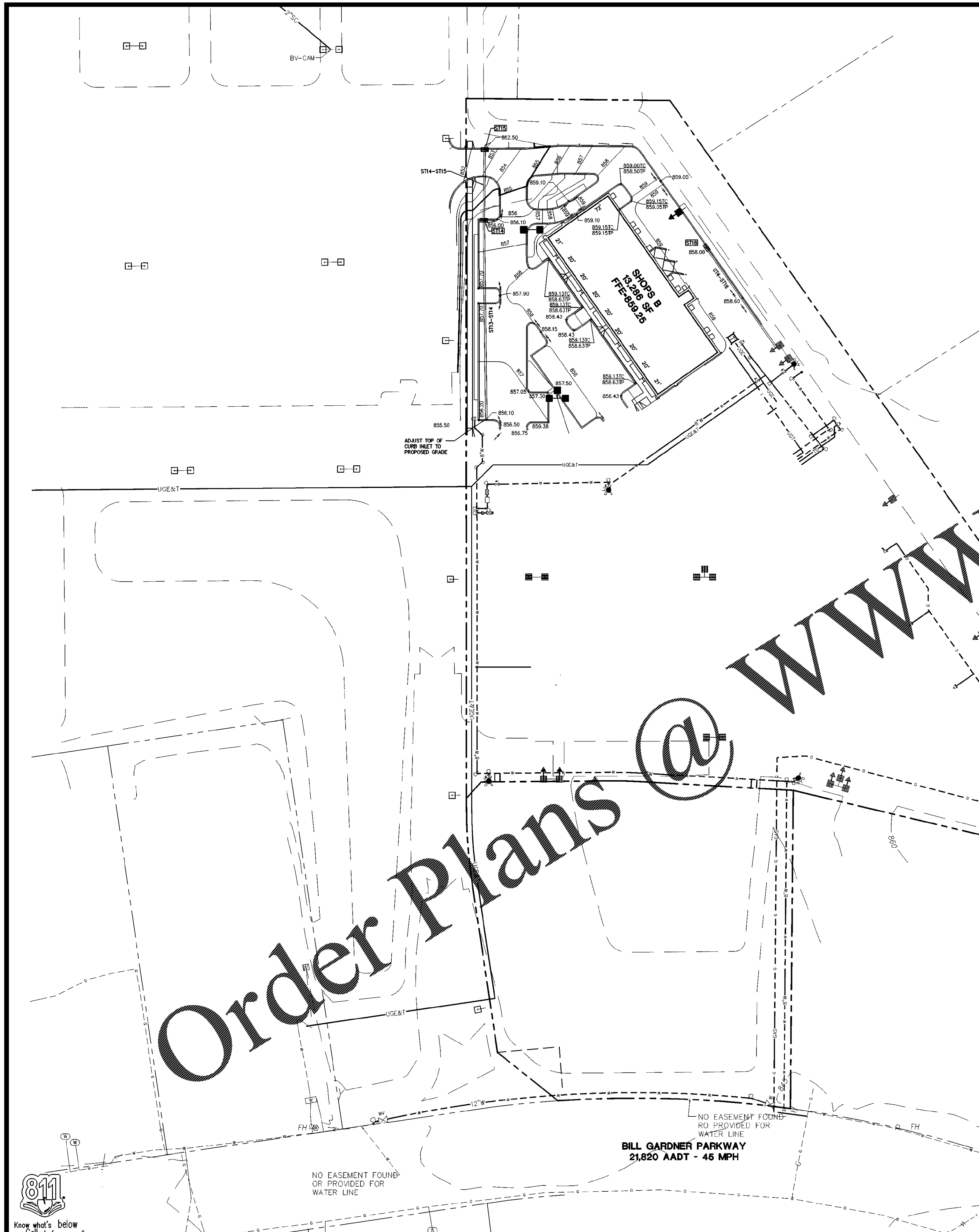

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USER llynch – Mar 11, 2013 – 9:57am
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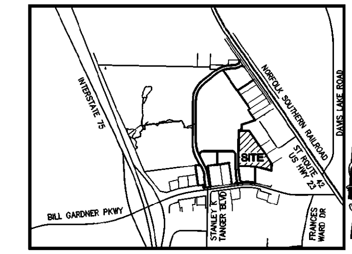
STRUCTURE TABLE

	STRUCTURE #	STRUCTURE TYPE	TOP OF CASTING	INVERT OUT	INVERT IN
EXISTING	ST1X	EXISTING GRATE INLET	853.00		844.87 (ST2)
EXISTING	ST2	EXISTING GRATE INLET CONVERT TO CURB INLET	856.30	845.80	846.00 (ST3) 846.30 (ST10) 850.50 (ST17)
EXISTING	ST3	JUNCTION BOX	856.71	846.21	848.28 (ST4) 847.21 (ST13)
EXISTING	ST4	CURB INLET	859.00	849.89	849.99 (ST5) 850.49 (ST18)
EXISTING	ST5	CURB INLET	859.28	850.58	851.08 (ST6)
EXISTING	ST6	CURB INLET	859.89	851.62	851.72 (ST7)
EXISTING	ST7	CURB INLET	859.93	852.22	852.32 (ST8)
EXISTING	ST8	CURB INLET	859.86	852.85	852.95 (ST9)
EXISTING	ST9	CURB INLET	858.00	853.40	
EXISTING	ST10	CURB INLET	855.19	846.86	847.36 (ST11)
EXISTING	ST11	CURB INLET	856.00	848.09	848.19 (ST12)
EXISTING	ST12	CURB INLET	855.00	848.36	
EXISTING	ST13	CURB INLET	856.10	847.80	847.90 (ST14) 850.84 (ST16)
	ST14	CURB INLET	856.00	848.82	848.92 (ST15)
	ST15	CURB INLET	852.50	849.25	
EXISTING	ST16	CURB INLET	855.89	851.00	
EXISTING	ST17	CURB INLET	856.47	851.00	
	ST18	CURB INLET	858.00	851.11	

PIPE TABLE

	PIPE NAME	LENGTH	SIZE	SLOPE
EXISTING	ST1X–ST2	100	36	0.93%
EXISTING	ST2–ST3	43	36	0.50%
EXISTING	ST2–ST10	113	30	0.50%
EXISTING	ST2–ST17	80	18	0.63%
EXISTING	ST3–ST4	316	24	0.51%
EXISTING	ST3–ST13	118	18	0.50%
EXISTING	ST4–ST5	118	24	0.50%
	ST4–ST18	117	18	0.53%
EXISTING	ST5–ST6	108	18	0.50%
EXISTING	ST6–ST7	100	18	0.50%
EXISTING	ST7–ST8	105	18	0.50%
EXISTING	ST8–ST9	90	18	0.50%
EXISTING	ST10–ST11	147	24	0.50%
EXISTING	ST11–ST12	34	24	0.50%
	ST13–ST14	185	18	0.50%
EXISTING	ST13–ST16	31	18	0.51%
	ST14–ST15	66	18	0.50%



LOCATION MAP
NOT TO SCALE

CITY OF LOCUST GROVE GRADING NOTES

1. ALL UNDISTURBED BUFFERS SHALL BE FIELD LOCATED; STAKED AND FLAGGED OR MARKED WITH "TENZAL" OR SIMILAR TYPE FENCING; AND SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL PRIOR TO GRADING.
2. EXISTING VEGETATION SHALL BE PRESERVED WITHIN ALL BUFFER AREAS.
3. BUFFER AREAS ARE NOT TO BE DISTURBED BY GRADING, PROPERTY IMPROVEMENTS OR CONSTRUCTION ACTIVITIES. ANY CONTEMPLATED DISTURBANCES SHALL FIRST BE BROUGHT TO THE ATTENTION OF CITY OF LOCUST GROVE COMMUNITY DEVELOPMENT DEPARTMENT AND FORMAL APPROVAL SECURED PRIOR TO INITIATING ACTIVITY WITHIN THE REQUIRED BUFFER AREAS.

SITE GRADING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ALL EXISTING UTILITIES (ABOVE OR BELOW GROUND) AS SHOWN ON THESE PLANS ARE APPROXIMATE AND WERE LOCATED BASED ON EITHER VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR FROM UTILITY OWNERS. WOLVERTON AND ASSOCIATES INC. DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS SHOWN ARE EXACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE OR BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANIES AND THE UTILITIES PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
4. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
5. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
   TYPE 1: RCP PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS.
   – FILLS UP TO 15' OVER TOP OF PIPE, CLASS III OR GREATER MAY BE USED.
   – FILLS 15' OVER TOP OF PIPE, CLASS IV OR GREATER MAY BE USED.
   – FILLS GREATER THAN 20' OVER TOP OF PIPE, CLASS V MUST BE USED.
   TYPE 2: SPIRAL RIB METAL PIPE TYPE 1R: GALVANIZED COATING. PIPE ENDS SHALL BERE-CORRUGATED AND INSTALLED WITH SEMI-CORRUGATED HUGGER-TYPE BANDS AND "O" RING GASKETS IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION REQUIREMENTS. SPIRAL RIB METAL PIPE MUST COMPLY WITH ASTM A 760 TYPE 1R. ACCEPTABLE MANUFACTURER: CONTECH, INC." ULTRA FLO OR ULTRA FLO II" OR APPROVED EQUAL.
   TYPE 3: CORRUGATED POLYETHYLENE PIPE (CPP), SMOOTH INTERIOR WITH EXTERIOR OPEN CORRUGATIONS, PER AASHTO M294 MAY BE USED FOR PIPES 4" TO 48". JOINTS SHALL BE WATER TIGHT. APPROVED PRODUCTS ARE HANCOR HI-Q WITH SURE-LOK JOINTS, ADS N-12.
6. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
7. EXISTING GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
8. PROPOSED GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
9. 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.
10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
12. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
13. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
14. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
15. TOPOGRAPHIC INFORMATION TAKEN FROM PROPOSED CONSTRUCTION DRAWINGS FOR OVERALL DEVELOPMENT BY WOLVERTON & ASSOCIATES, INC. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
16. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES AS INDICATED ON THE EROSION CONTROL PLANS. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH CITY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
17. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
18. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT-IN TO INVERT-OUT.
19. CONTRACTOR TO CONTACT THE COUNTY FIRE DEPARTMENT FOR BLASTING REQUIREMENTS.
20. CONTRACTOR SHALL ENSURE THAT A VALID UTILITY PROTECTION CENTER LOCATOR TICKET IS ONSITE AT ALL TIMES DURING CONSTRUCTION.

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*STRUCTURE TYPE

CURB INLET – GDOT STANDARD 1019A TYPE E. (SEE DETAIL SHEETS)
GRATE INLET – SEE "GRATE INLET" DETAIL FOR GRATE TYPE. (SEE DETAIL SHEETS)
JUNCTION BOX – SEE DETAIL SHEETS.
SWCB – SINGLE WING CATCH BASIN – GDOT STANDARD 1033D. (SEE DETAIL SHEETS)
AREA INLET – SEE DETAIL SHEETS.

**PIPE TYPE

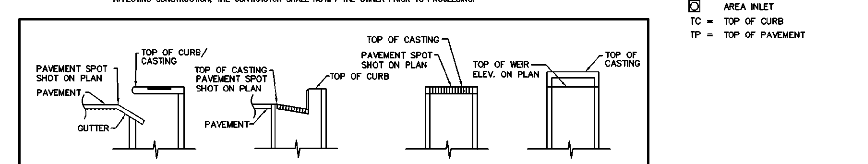
UNLESS A PIPE TYPE MATERIAL IS SPECIFIED IN THE DRAINAGE SCHEDULE, THE CONTRACTOR MAY USE AT HIS DISCRETION ANY OF THE PIPE MATERIALS LISTED AS APPROVED STORM PIPE MATERIALS IN THE SITE GRADING NOTES.

GRADING/DRAINAGE PLAN LEGEND

- STORM SEWER PIPING
- JUNCTION BOX/STORM MANHOLE
- DRAINAGE STRUCTURE INDICATOR
- DOUBLE WING CATCH BASIN
- SINGLE WING CATCH BASIN
- SLOPE ARROW
- CONCRETE FLUME
- CURB INLET (W/ NON-MOUNTABLE HOOD & GRATE) GDOT STD 1019A TYPE "E"
- AREA INLET
- TC = TOP OF CURB
- TP = TOP OF PAVEMENT

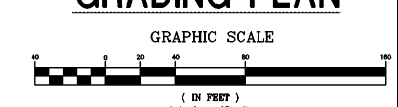
EXISTING CONDITIONS NOTE

THE EXISTING CONDITIONS WERE TAKEN FROM THE DESIGN PLANS FOR THE WALMART DEVELOPMENT PREPARED BY WOLVERTON & ASSOCIATES LAST REVISED 8/5/10 AND THE PHASE I SHOPS DEVELOPMENT PREPARED BY WOLVERTON & ASSOCIATES LAST REVISED 2/24/13. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION. IN THE EVENT OF A DISCREPANCY ADVERSELY AFFECTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO PROCEEDING.



DEFINITION OF STRUCTURE ELEVATIONS
N.T.S. – SEE DETAIL SHEET FOR STRUCTURE DETAILS

GRADING PLAN



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GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #2963

Project Title
MARKET PLACE AT LOCUST GROVE SHOPS
LOCUST GROVE, HENRY COUNTY, GA
BY: STLC, LLC C/O VERDURA RESOURCES
ATLANTA, GA 30341

REVISIONS	BY

DRAWN BY	DMH
CHECKED BY	CLM
DATE	01/30/13
SCALE	1"= 40'
JOB No.	11-174
SHEET NUMBER	C-2
OF	SHEETS

11-174 V-2.DWG