

DEWATERING NOTE:
 SITES PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.

UTIL GRADING NOTE:
 1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES UNLESS THE STRUCTURE UTILITIES ARE TO BE REMOVED TO THE STREET/ROADWAY. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY AND PAY ALL FEES.
 2. THE CONTRACTOR IS SPECIALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE NEIGHBORING 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. THE CONTRACTOR SHALL RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES AND PAY ALL FEES.
 3. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY EXISTING STRUCTURES THAT ARE DAMAGED DURING AND AS A RESULT OF CONSTRUCTION. REPAIRS AND/OR REPLACEMENTS SHALL BE MADE AS NECESSARY TO RETURN THE DAMAGED STRUCTURE(S) TO ORIGINAL OR BETTER CONDITION. REPAIRS AND/OR REPLACEMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
 4. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL NOTES & SPECIFICATIONS FOR EARTHWORK ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 5. EXISTING AND PROPOSED CHAINS (CHAIN INTERVALS SHOWN AT 2 FEET, UNLESS OTHERWISE NOTED).
 6. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
 7. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES ON TV OR STEEP SLOPES. CONTRACTOR SHALL STABILIZE EXISTING AREAS IN ACCORDANCE WITH PLANS AND SPECIFICATIONS UNLESS A HEALTHY STRONG VEGETATION IS OBTAINED.
 8. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
 9. CONTRACTOR SHALL ADJUST AND/OR SAW CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTIGUOUS DRAINAGE.
 10. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY CLINTON SURVEYING, DATED 03/04/14. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT TO THE OWNER FOR REVIEW.
 11. CONTRACTOR SHALL INSPECT, REPAIR, AND CLEAN ALL EXISTING DRAINAGE STRUCTURES AND PIPING. ALL SEDIMENT AND DEBRIS SHALL BE REMOVED.
 12. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GRADED TO ASSURE CONNECTION AT STRUCTURE IS WATER-TIGHT.
 13. 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 8 INCHES ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
 14. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT TO INVERT OUTLET.
 15. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
 16. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
 17. MINIMUM COVER FROM TOP OF STORM PIPE TO FINISH GRADE SHALL BE 2 FEET.
 18. HEADWALLS SHALL BE CONSTRUCTED AND/OR INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF PIPE TO MINIMIZE POSSIBLE PIPE DAMAGE AND FACILITATE FINAL GRADING.
 19. RIP-RAP STONE FOR EROSION PROTECTION SHALL BE PROVIDED AT ALL STORMWATER DISCHARGE LOCATIONS.
 20. WATER, SEWER, AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE), UNLESS NOTED OTHERWISE.
 21. WHEN CROSSING, WATER LINES SHALL BE CONSTRUCTED ABOVE SEWER LINES AND STORM LINES, UNLESS A LACK OF DEPTH ABOVE THE SEWER OR STORM LINE NECESSITATES CONSTRUCTION OF WATER LINES BENEATH SEWER LINES OR STORM LINES. IN THE EVENT OF A VERTICAL CONFLICT, THE FOLLOWING MODIFICATIONS MUST BE MADE:
 - SEWER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
 - STORM LINES SHALL HAVE "RIPPY" GASKETS WITH HUGGER BAND COUPLING AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
 - WATER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND APPROPRIATE THREAT BLOCKING MEETING THE REQUIREMENTS OF ANSI Z19.10 OR Z1.1 (AWWA C115/ANSI A20.10).
 22. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK REQUIRED TO PREPARE THE UNCLASSIFIED SITE TO THE LINES AND GRADES AS SHOWN ON PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY QUANTITY OF IMPORT OR EXPORT OF STRUCTURAL FILL OR DISPOSAL OF UNSUITABLE MATERIAL, AS REQUIRED. ALL COSTS SHALL BE INCLUDED IN OVERALL BASE BID. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED.

SEE GRADING/STORM DETAILS ON SHEETS C8.0 AND C8.1

STORM PIPE TABLES:

Line#	Length (ft)	Size (in)	Slope (%)	Invert (ft)	Inv Up (ft)
A1-A1	50	36	1.8	1060.00	1055.78
A1-A2	53	36	1.8	1060.00	1060.85
A2-A3	190	36	1.7	1061.00	1067.25
A3-A4	231	18	0.6	1065.78	1066.08
A4-A5	179	18	0.7	1068.18	1069.45
A1-A1A	84	18	0.7	1061.00	1061.80
A2-A2A	304	36	1.2	1061.85	1064.87
A3-A3A	253	18	0.7	1065.75	1067.83
B0-B1	50	30	1.0	1068.00	1068.50
B1-B2	290	30	0.5	1072.00	1076.20
B2-B3	124	24	0.5	1072.00	1074.40
B3-B4	122	18	0.7	1068.00	1068.90
B1-B1A	87	18	0.7	1068.78	1069.37
B2-B2A	132	18	0.7	1062.34	1062.97
B3-B3B	120	18	0.7	1063.37	1064.22
B2-B2.1	230	36	1.0	1072.25	1077.55
B2.1-B2.2	236	36	1.0	1072.00	1077.80
C0-C1	99	36	1.0	1068.00	1068.88
C1-C2	249	36	0.5	1068.89	1069.00
C2-C3	82	30	2.4	1060.53	1062.74
C3-C4	132	30	0.5	1062.84	1063.00
C4-C5	30	36	0.5	1064.00	1064.18
C5-C6	200	18	1.4	1064.75	1066.48
C2-C2A	247	18	0.8	1062.78	1063.07
C2A-C2B	150	18	0.7	1066.13	1066.59
C2-C2.1	140	18	0.7	1067.83	1067.62
C3-C3A	27	18	0.7	1062.90	1064.18
C4-C4A	190	18	0.5	1064.98	1066.38
C4A-C4B	49	18	0.7	1065.48	1065.73
D0-D1	75	30	0.9	1066.00	1067.78
D1-D2	296	30	0.5	1064.25	1066.86
D2-D3	148	24	0.7	1066.18	1066.23
D3-D4	154	18	0.7	1067.81	1068.90
D1-D1A	327	16	0.9	1066.80	1069.79
E0-E1	29	48	1.0	1068.00	1068.29
E1-E2	148	42	0.8	1068.28	1070.13
E2-E3	183	36	0.7	1071.80	1072.83
L3-E4	177	30	0.7	1073.92	1073.07
E4-E5	30	36	0.5	1073.17	1073.45
E5-E6	287	30	0.8	1072.32	1073.01
E2-E2.1	118	18	0.7	1061.00	1066.94
E2-E2.2	37	18	0.5	1068.04	1068.24
E2-E2A	36	18	4.2	1061.00	1066.50
E3-E3B	60	18	0.8	1062.80	1062.90
E3-E3A	60	18	0.7	1076.32	1076.64
F0-F1	346	48	0.1	1078.25	1075.00

STORM DRAIN GRATE SCHEDULE:

TYPE	USE	
J6	NELEAH 1-1848	JUNCTION BOX
C1	EJW 103-AM WITH T30-T1 HOOD	SINGLE CURB INLET
L1	EJW V35-1	DROP INLET
HWB:	PRECAST HEADWALL WITH ENERGY DISSIPATION	LARGE DROP INLET HEADWALL

SEE STORM DETAIL NOTES:

- UNLESS OTHERWISE NOTED, STORM PIPES MAY BE PP, SMP, OR RCP.
- REFER TO PROJECT SPECIFICATION SECTION 1306.

CONTRACTOR TO DETERMINE ACTUAL PIPE LENGTHS WITH NO ADDITIONAL COST TO OWNER.

WATER QUALITY LIMIT SCHEDULE:

ACT	CONTEXT	EQS-200-6-C
BI	CONTEXT	EQS-305-6-C
M	CONTEXT	CBS-400-6-C



Site Infrastructure Transportation Engineers
 3215 Technology Drive, Suite 304
 Knoxville, TN 37932
 Phone: (603) 717-4100

IN PROGRESS

Site Grading Plan

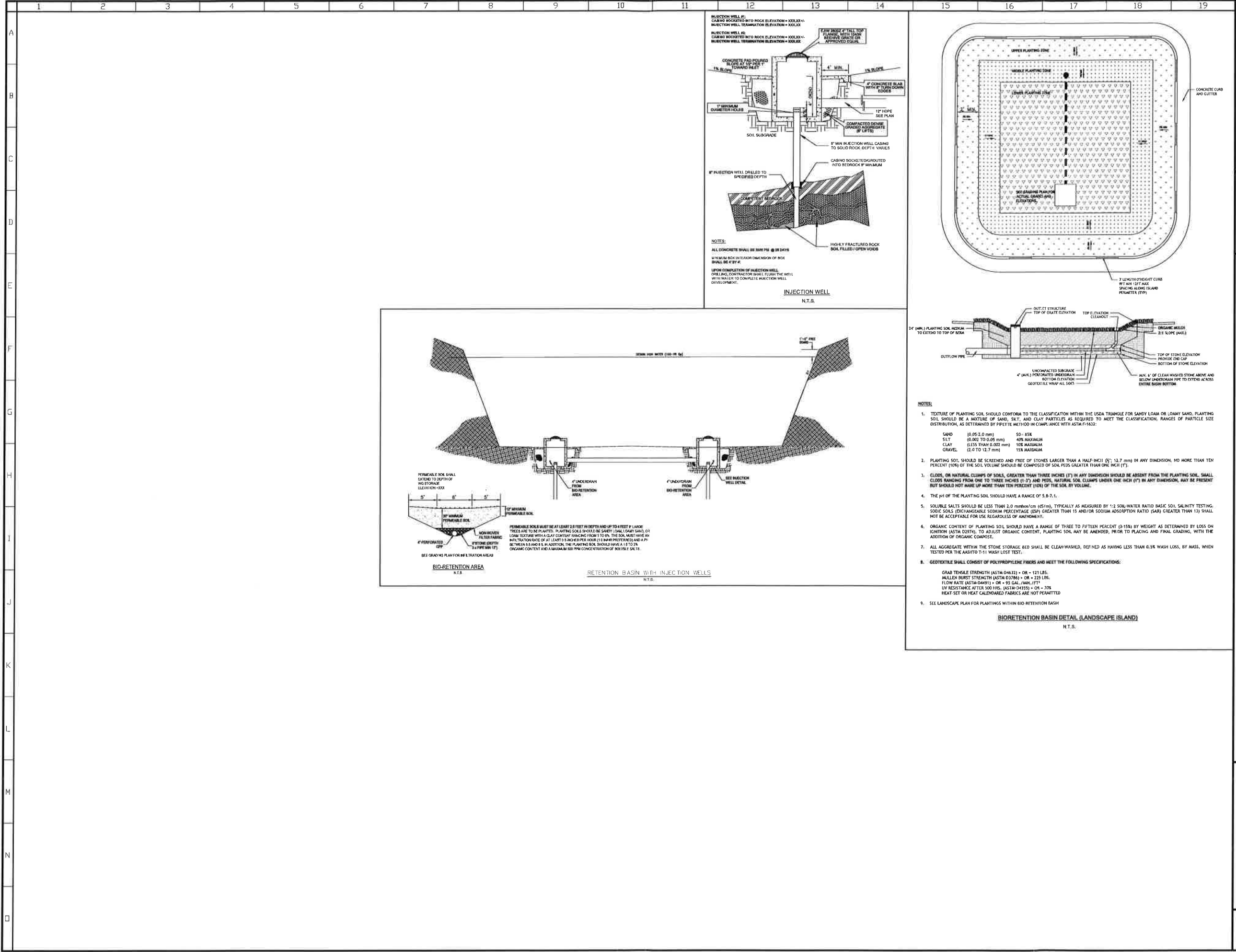
Shoppes at Eagle Point

Interstate Drive and S. Walnut Avenue
 Cookeville, Tennessee
 Browning Properties, LLC

REVISIONS

NO.	DATE	BY	DESCRIPTION

C3.0



IN PROGRESS

Site Grading Details
Shoppes at Eagle Point
 Interstate Drive and S. Walnut Avenue
 Cookeville, Tennessee
 Browning Properties, LLC

DATE BY: <u> </u>	DATE: <u> </u>	FILE: <u> </u>
CHECKED BY: <u> </u>	DATE: <u> </u>	FILE: <u> </u>
REVISIONS		
NO.	DATE	COMMENTS

C8.0