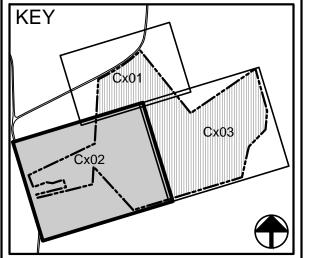


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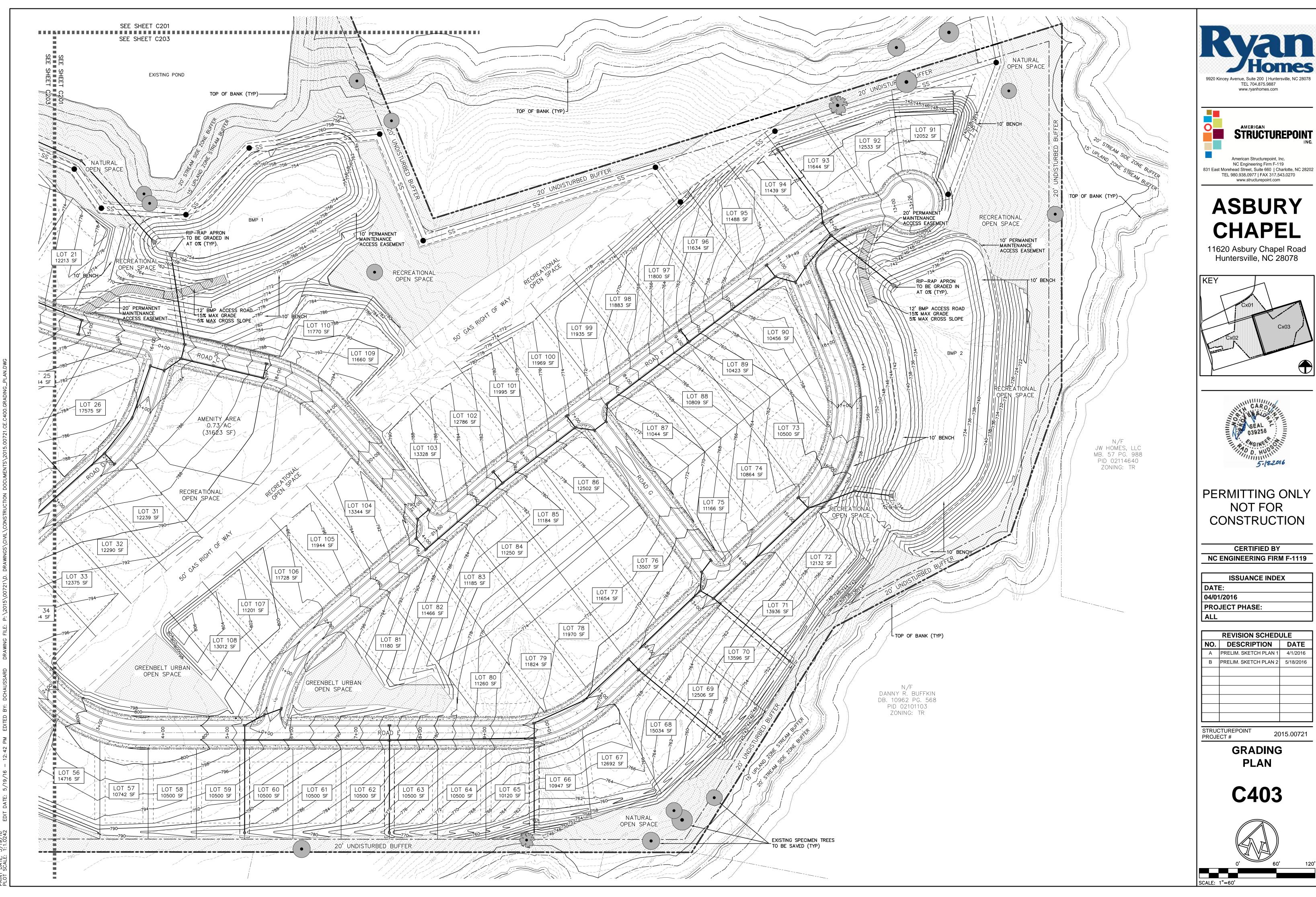




CONSTRUCTION

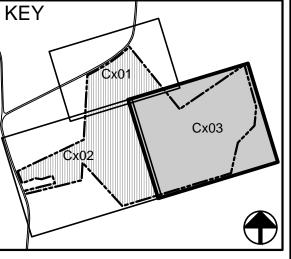
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	ISSUANCE INDEX
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REVISION SCHEDULE								
NO.	DESCRIPTION	DATE						
Α	PRELIM. SKETCH PLAN 1	4/1/2016						
В	PRELIM. SKETCH PLAN 2	5/18/2016						



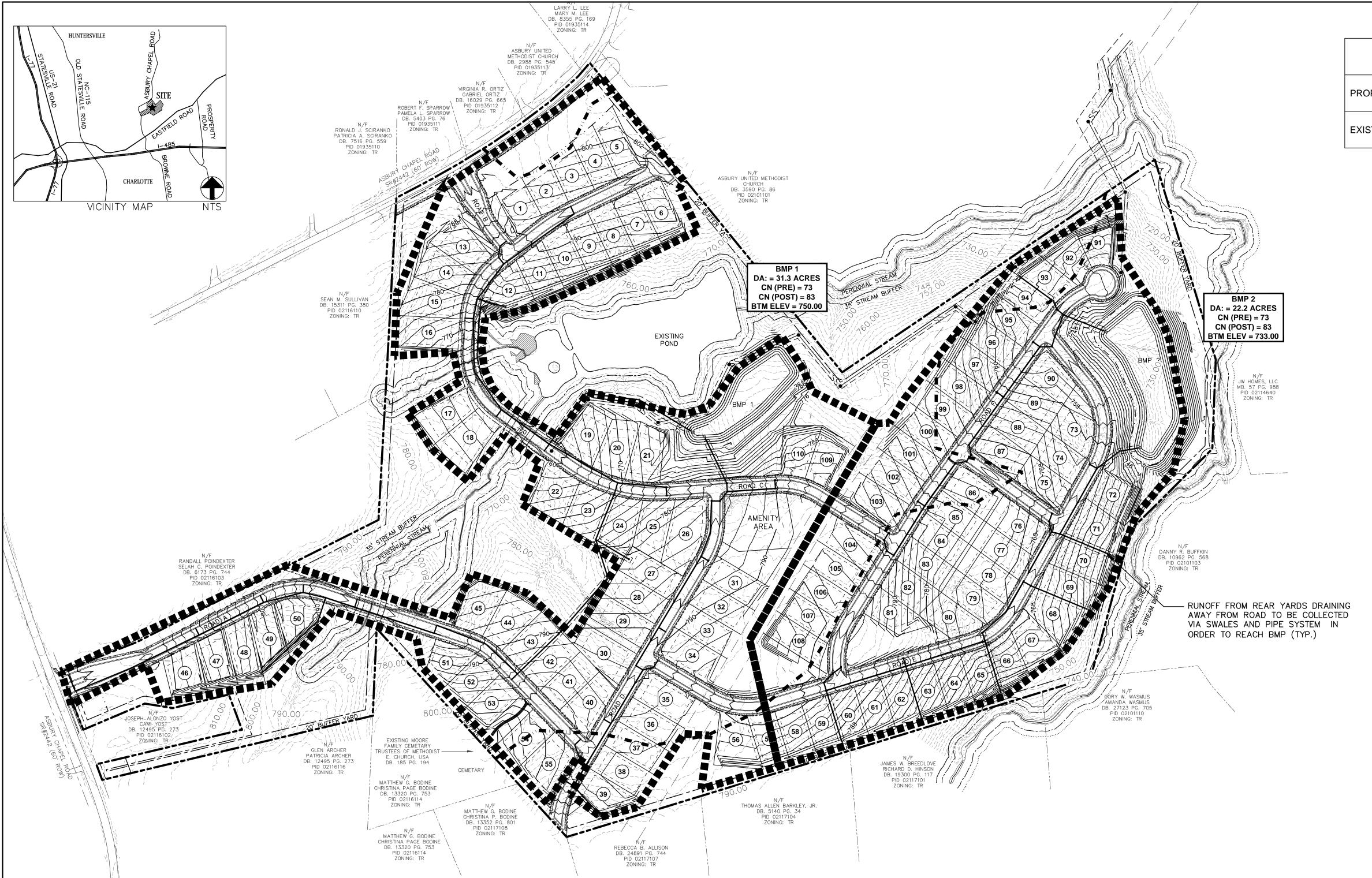
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	ISSUANCE INDEX
	DATE:
	04/01/2016
	PROJECT PHASE:
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		REVISION SCHED	ULE
	NO.	DESCRIPTION	DATE
	Α	PRELIM. SKETCH PLAN 1	4/1/2016
	В	PRELIM. SKETCH PLAN 2	5/18/2016
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LEGEND PROPOSED DRAINAGE AREA EXISTING DRAINAGE AREA

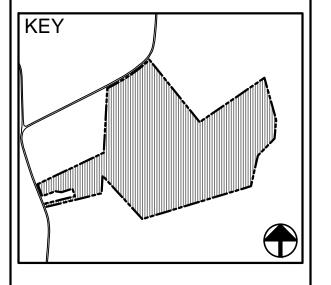


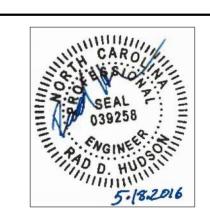


NC Engineering Firm F-119
831 East Morehead Street, Suite 660 | Charlotte, NC 28202
TEL 980.938.0977 | FAX 317.543.0270
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ASBURY CHAPEL

11620 Asbury Chapel Road Huntersville, NC 28078





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CERTIFIED BY NC ENGINEERING FIRM F-1119

	ISSUANCE INDEV
	ISSUANCE INDEX
	DATE:
	04/01/2016
	PROJECT PHASE:
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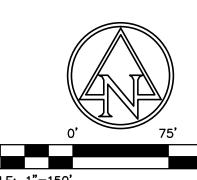
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NO.	DESCRIPTION	DATE
А	PRELIM. SKETCH PLAN 1	4/1/2016
В	PRELIM. SKETCH PLAN 2	5/18/2016

STRUCTUREPOINT 2015.00721

DRAINAGE

AREA MAP

C450



CONCEPT BMP CALCULATIONS

		50 Year, 24 Hour Volume	50 Year, 24 Hour Volume Calculcation			
		NVR Asbury Chapel Ro	ad			
			BMP 1	BMP 2		
		Drainage Area (Post) [ac]	31.3	22		
		Drainage Area (Pre) [ac]	32.9	17.		
		CN (Post)	83	á		
		CN (Pre)	73			
		Tc (Post) [min]	5			
	· ·	Tc (Pre) [min]	25	9		
	Know what's below.	50 Yr-24 Hr Volume (Post) [ac-ft]	11.580	8.2		
	Call before you dig.	50 Yr-24 Hr Volume (Post) [Cubic ft]	504425	3577		
	,	50 Yr-24 Hr Volume (Pre) [ac-ft]	9.260	4.8		
1.	CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES	50 Yr-24 Hr Volume (Pre) [Cubic ft]	403366	2128		
	AND ENSURING THAT ALL EXISTING UTILITIES ARE LOCATED PRIOR TO BEGINNING CONSTRUCTION.	50 Yr-24 Hr Volume Difference [ac-ft]	2.320	3.3		
2.	CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAGGERS,	50 Yr-24 Hr Volume Difference [Cubic ft]	101059	1449		
2	ETC AS NECESSARY TO ENSURE THE SAFETY OF THE PUBLIC.					
3.	ALL PAVEMENT CUTS, ASPHALT OR CONCRETE, ARE TO BE PLACED ACCORDING					

					BMP 1					
				REQ	UIRED STOR	AGE (ac-ft)	2.32			
Elevation	Area (sf)	Area (ac)	Avg Area (ac)	Height (ft)	Inc Vol (ac-ft)	Inc Vol (cubic ft)	Acc Vol (ac-ft)	Acc Vol (cubic ft)	Acc Vol (ac-ft)	Acc Vol (cubic ft)
754	17781	0.408	,		,	,	0.000	,	,	,
754.5	18841	0.433	0.420	0.5	0.210	9156	0.210	9156		
755	19915	0.457	0.445	0.5	0.222	9689	0.433	18845		
755.5	21003	0.482	0.470	0.5	0.235	10230	0.667	29074		
756	22105	0.507	0.495	0.5	0.247	10777	0.915	39851		
756.5	23222	0.533	0.520	0.5	0.260	11332	1.175	51183		
757	24352	0.559	0.546	0.5	0.273	11894	1.448	63076		
757.5	25497	0.585	0.572	0.5	0.286	12462	1.734	75539		
758	26656	0.612	0.599	0.5	0.299	13038	2.033	88577		
758.5	27829	0.639	0.625	0.5	0.313	13621	2.346	102198		
759	29016	0.666	0.652	0.5	0.326	14211	2.672	116409		
759.5	30217	0.694	0.680	0.5	0.340	14808	3.012	131218		
760	31432	0.722	0.708	0.5	0.354	15412	3.366	146630	0.000	0
760.5	32662	0.750	0.736	0.5	0.368	16024	3.734	162653	3.734	162653
761	33905	0.778	0.764	0.5	0.382	16642	4.116	179295	7.850	341948
761.5	35163	0.807	0.793	0.5	0.396	17267	4.512	196562	12.362	538510
762	36435	0.836	0.822	0.5	0.411	17900	4.923	214462	17.286	752972

		14315	0.329	14315	0.329	0.5	0.657	0.673	29299	733.5
		29303	0.673	14988	0.344	0.5	0.688	0.704	30651	734
		44970	1.032	15667	0.360	0.5	0.719	0.735	32018	734.5
		61324	1.408	16354	0.375	0.5	0.751	0.767	33398	735
		78372	1.799	17048	0.391	0.5	0.783	0.799	34793	735.5
		96120	2.207	17749	0.407	0.5	0.815	0.831	36202	736
		114577	2.630	18457	0.424	0.5	0.847	0.864	37625	736.5
		133749	3.070	19172	0.440	0.5	0.880	0.897	39062	737
		153643	3.527	19894	0.457	0.5	0.913	0.930	40513	737.5
		174266	4.001	20623	0.473	0.5	0.947	0.964	41979	738
		195625	4.491	21359	0.490	0.5	0.981	0.998	43458	738.5
C	0.000	217727	4.998	22103	0.507	0.5	1.015	1.032	44952	739
240580	5.523	240580	5.523	22853	0.525	0.5	1.049	1.067	46460	739.5
504771	11.588	264191	6.065	23611	0.542	0.5	1.084	1.102	47982	740
793337	18.213	288566	6.625	24375	0.560	0.5	1.119	1.137	49518	740.5
1107049	25.414	313712	7.202	25147	0.577	0.5	1.155	1.172	51068	741

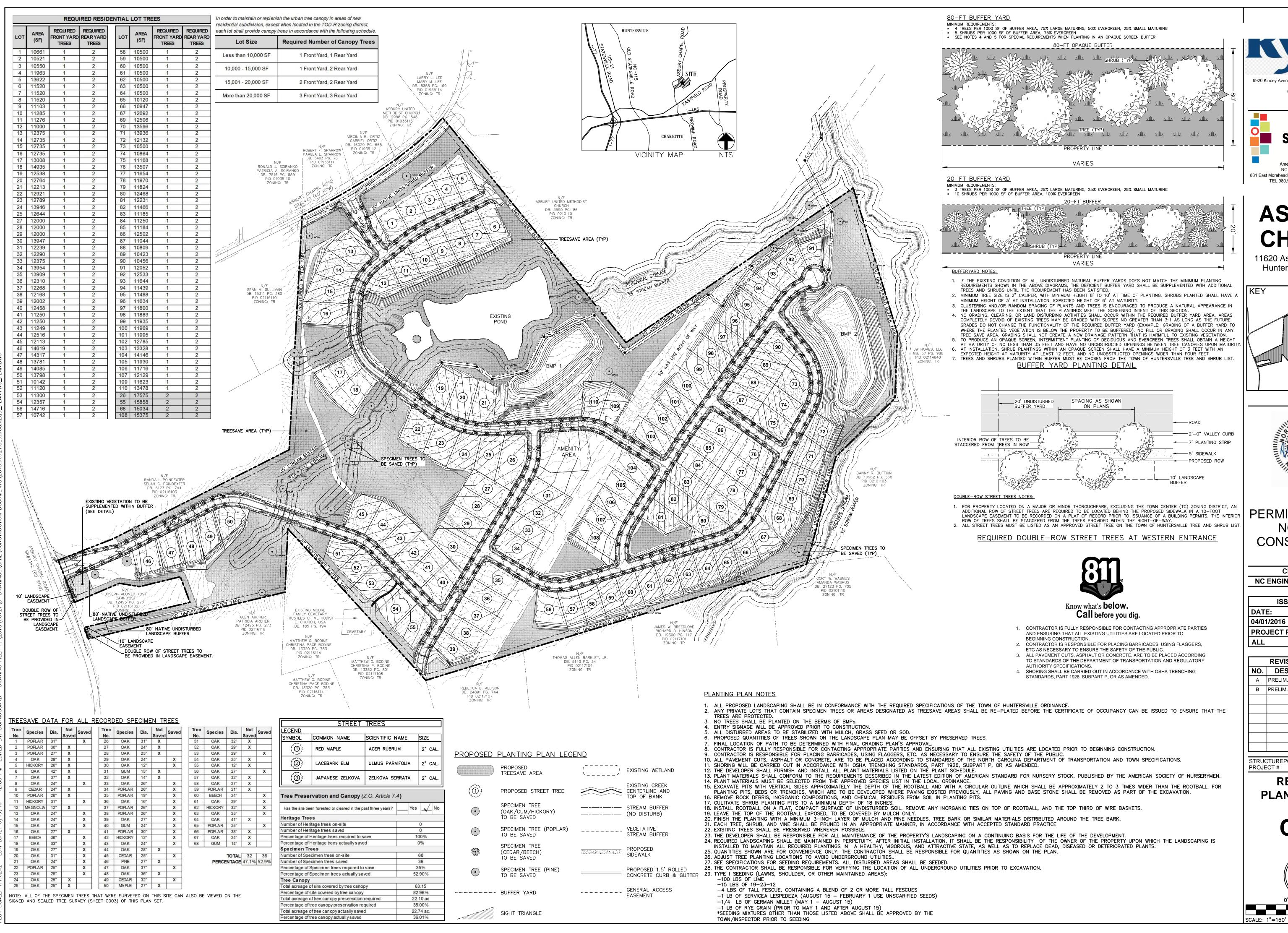
Elevation Area (sf) Area (ac) Avg Area Height (ft)

Inc Vol Inc Vol Acc Vol Acc Vol Acc Vol Acc Vol

TO STANDARDS OF THE DEPARTMENT OF TRANSPORTATION AND REGULATORY

AUTHORITY SPECIFICATIONS.

SHORING SHALL BE CARRIED OUT IN ACCORDANCE WITH OSHA TRENCHING STANDARDS, PART 1926, SUBPART P, OR AS AMENDED.



9920 Kincey Avenue, Suite 200 | Huntersville, NC 28078
TEL 704.875.9887

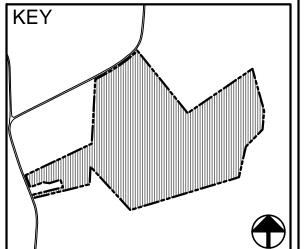
www.ryanhomes.com



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STRUCTUREPOINT PROJECT # 2015.00721

REQUIRED PLANTING PLAN

C900

