Master Boot Record (sector 0 on the disk)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Master Boot Code															
….																
1A0																
1B0									Disk Signature						Boot ind[1]	Start head
1C0	start Sect[2]	start Cyl[2]	Sys ID[3]	End Head	End sect[2]	End Cyl[2]	Relative Sectors				Total Sectors					
1D0																
1E0																
1F0															55	AA

1. Boot indicator 0x00 = non-boot, 0x80 = bootable
2. Starting sector & starting cylinder are allocated bits, not bytes (0x1C0-0x1C1) same goes for end head and end sector

BIT	0	1	2	3	4	5	6	7	8	9	A		B	C	D	E	F
Value	Starting sector								Starting Cylinder								

3. Common partition values.

0x01	FAT12 <32MB		**0x84**	**Windows hibernation partition**
0x04	FAT16 <32MB		0x85	Linux extended
0x05	MS Extended partition using CHS		0x8E	Linux LVM
0x06	FAT16B		0xA5	FreeBSD slice
0x07	NTFS, HPFS, exFAT		0xA6	OpenBSD slice
0x0B	FAT32 CHS		0xAB	Mac OS X boot
0x0C	FAT32 LBA		0xAF	HFS, HFS+
0x0E	FAT16 LBA		0xEE	MS GPT
0x0F	MS Extended partition LBA		0xEF	Intel EFI
0x42	Windows Dynamic volume		0xFB	VMware VMFS
0x82	Linux swap		0xFC	VMware swap
0x83	Linux			

See http://en.wikipedia.org/wiki/Partition_type for more types and http://technet.microsoft.com/en-us/library/bb457122.aspx for more details on the MBR

GPT Disk layout

Protective MBR	Sector 0
Primary GUID partition table header	Sector 1
GUID partition entry 1	Sector 2
GUID partition entry 1	...
....	....
GUID partition entry 128	Sector 33
Partition 1	
Partition 2	
....	
Backup GUID partition entry 1	
Backup GUID partition entry 1	
....	
Backup GUID partition entry 128	
Backup GUID partition table header	Last Sector

Protective MBR

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Master Boot Code															
….																
1A0																
1B0															Boot ind 0x00	Starting head[1]
1C0	start Sect[1]	start Cyl[1]	Sys ID 0xEE	End Head[2] 0xFF	End sect[2] 0xFF	End Cyl[2] 0xFF	Relative Sectors 0x01000000				Total Sectors 0xFFFFFFFF				00	00
1D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
1F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	55	AA

1. Starting LBA sector should be the second sector on the disk
2. Ending LBA sector, if value is too large for 1-byte 0xFF is used.

Primary GUID Partition Table Header

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Signature								Revision				Header Size 0x5C000000			
10	CRC32 Checksum of GPT header				Reserved 0x00000000				MyLBA – sector containing this header							
20	AlternateLBA – sector containing copy of this header								First usable sector							
30	Last usable sector								Disk GUID (16 bytes)							
40	Disk GUID								First Partition Entry, 0x0200000000000000							
50	Number of Partition Entries				Size of partition entries				Partition Entry Array CRC32				Reserved (must be zero, if used)			

MS GUID Partition Entry

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
10	Partition Type GUID															
20	Unique Partition GUID															
30	Start LBA								End LBA							
40	Attribute Bits								Partition Name (72 bytes, 32 Unicode characters)							
50	Partition Name															

See http://www.uefi.org/sites/default/files/resources/UEFI%20Spec%202_7_A%20Sept%206.pdf for official documentation of GPT

Common GUID partition types (more here: http://en.wikipedia.org/wiki/GUID_Partition_Table#Partition_type_GUIDs)

GUID Value	Partition Type
00000000-0000-0000-0000-000000000000	Unused entry
0657FD6D-A4AB-43C4-84E5-0933C84B4F4F	Linux Swap partition
0FC63DAF-8483-4772-8E79-3D69D8477DE4	Linux filesystem data
16E3C9E3-5C0B-B84D-817D-F92DF00215AE	Microsoft Reserved partition
21686148-6449-6E6F-744E-656564454649	BIOS Boot partition
28732AC1-1FF8-D211-BA4B-00A0C93EC93B	Microsoft EFI System partition
48465300-0000-11AA-AA11-00306543ECAC	Hierarchical File System Plus (HFS+) partition
55465300-0000-11AA-AA11-00306543ECAC	Apple UFS
A0609BAF-3114-624F-BC68-3311714A69AD	MS LDM Data partition on a dynamic disk
A19D880F-05FC-4D3B-A006-743F0F84911E	Linux RAID partition
A2A0D0EB-E5B9-3344-87C0-68B6B72699C7	MS Primary partition on a basic disk
AAC80858-8F7E-E042-85D2-E1E90434CFB3	MS LDM Metadata partition on a dynamic disk
EBD0A0A2-B9E5-4433-87C0-68B6B72699C7	MS basic data partition