Example Decision Matrix* for Wi-Fi 802.11ac

	Decision	Notes
PHY Layer Decisions		
Pulse Shaping Method	*OFDM with cyclic prefix*	*Reduces inter-symbol interference (ISI)*
Modulation Scheme	*BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM*	*Adaptive modulation based on SNR*
Error Detection	*CRC (Cyclic Redundancy Check)*	*Used for error checking in MAC frames*
Error Correction	*Convolutional & LDPC codes*	*Forward error correction for robustness*
Carrier Frequency	*5 GHz*	*Higher frequency, less interference than 2.4 GHz*
Full/Half Duplex	*Half-Duplex*	*Uses CSMA/CA to avoid collisions*
LINK Layer Decisions		
Framing	*MAC Frame Format*	*Includes preamble, header, data, and FCS*
Header Values	*Frame Control, Duration/ID, Address Fields*	*Controls frame type and addressing*
Error Handling	*ARQ (Automatic Repeat ReQuest)*	*Retransmits on failed CRC check*
Addressing	*48-bit MAC Addresses*	*Unique device identification*
Packet Length Constraints	*Variable*	*Maximum MSDU size of 7,935 bytes*
Handshake / Acknowledgement Process	*ACK frames and & RTS/CTS*	*Avoids collisions, confirms delivery*
MIXED Decisions		
Multiple Access Control	*CSMA/CA*	*Carrier Sense + Random Backoff to avoid collisions*
Synchronization & Framing	*Preamble-based synch*	*Long and short preambles help receivers lock onto signals*
MCS usage — Available Schemes	*Listed in Modulation Schemes*	*Defines modulation and coding rate per channel conditions*
— Indication of Scheme	*MCS Index 0-9 based on rate adaptation*	*AP and client negotiate best MCS based on link quality*

Obviously yours will not be this detailed or complex. This just shows examples of what things you might put in each section