



Government
of Canada

Gouvernement
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Canadian General
Standards Board

Office des normes
générales du Canada

Series 171
Série des 171

WITHDRAWAL

October 2011

Selected standards in the series Geomatics

These National Standards of Canada are hereby withdrawn. Their content is covered in CAN/CGSB-171.100-2009, North American Profile of ISO 19115:2003 — Geographic Information — Metadata (NAP — Metadata).

The Standards Council of Canada requires that accredited Standards Development Organizations, such as the CGSB, regularly review a consensus Standard to determine whether to re-approve, revise or withdraw. The review cycle is normally five years from the publication date of the latest edition of the Standard.

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RETRAIT

Octobre 2011

Sélection de normes de la série Géomatique

Ces Normes nationales du Canada sont retirées par le présent avis. Leur contenu fait l'objet de CAN/CGSB-171.100-2009, Profil nord-américain de la norme ISO 19115:2003 — Information géographique — Métadonnées (PNA — Métadonnées).

Le Conseil canadien des normes exige que les organismes accrédités d'élaboration de normes, tel que l'ONGC, effectue régulièrement un examen des normes consensuelles afin de déterminer s'il y a lieu d'en renouveler l'approbation, de les réviser ou de les retirer. Le cycle d'examen d'une norme est généralement de cinq ans à partir de la date de publication de la dernière édition de celle-ci.

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as the content has been repealed as of the date on this withdrawal notice.

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CAN/CGSB-171.1-95

CGIS-SAIF — Canadian Geomatics Interchange Standard — Spatial Archive and Interchange Format: Formal Definition (Release 3.2) (ICS 07.060)

CAN/CGSB-171.4-94

Canadian Geomatics Interchange Standard — Digital Geographic Information Exchange Standard (CGIS-DIGEST) (ICS 07.060)

consultées à des fins archivistiques seulement puisque leur contenu a été révoqué à la date du présent avis de retrait.

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CAN/CGSB-171.1-95

Cette norme est disponible en anglais seulement.

CAN/CGSB-171.4-94

Cette norme est disponible en anglais seulement.



26 May 94

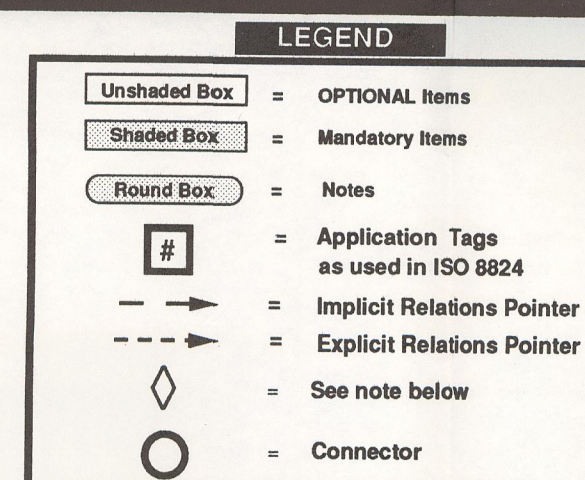
AMENDMENT LIST NUMBER 1
to the Digital Geographic Information Exchange Standard (DIGEST)
Edition 1.2, January 1994

Following are two ink amendments to be effected immediately to DIGEST 1.2. Both changes are necessary to rectify editorial oversights. Once the amendments have been entered, record this fact in the "Record of Amendments" for the appropriate parts.

Amdt No.	Part	Clause	Page	Instructions
1.a	1	5.2	5-2	Insert "Geowesen" at the end of the first line of the address for Germany, which should read "Amt für Militärisches Geowesen"
1.b	3	9	9-2	Insert the following datum: II 61a I French NTF I FDA II


M. Phillips
Major
DIGEST Editor
D Geo Ops
NDHQ, Ottawa, Canada
KIA 0K2

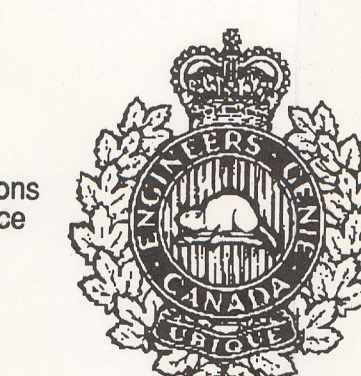
HEADER DATA SUBSET



- 2. **Interpretation:**
 - 1. The map proceeds from top left to bottom right.
 - 2. The connectors identify a broken horizontal line which continues on from Ship to Ship.
 - 3. The ISO 8583-AS1 terminology has been used to describe the syntactic tree. (i.e. the sequence of operators specifies that the number of elements is variable but the order is fixed. This is equivalent to the "R" (repeating) in ISO 8583.)
 - 4. The "B" signifies that one item is to be chosen from all. This is implicit in ISO 8521.
 - 5. Items (items) from a horizontal bar are to be selected from left to right, elements from a vertical bar are to be selected from top to bottom. The OPTIONAL items heading is used the MANDATORY sub-items are then used.
 - 6. The characters "A", "R", "F", "D", "F" are at the bottom right of a box indicate the format.
 - A = Character ID numbers
 - I = Integer, R = Real, D = Decimal, F = Fractional, B = Date (B characters), B = Bit
 - 7. A = Character ID numbers in the Topological Elements and Features are implicit in ISO 8521.



Prepared by:
Director of Geographic Operations
Department of National Defence
in cooperation with
IDON Corporation



Edition 1.2
January 1994

Minor inconsistencies between the various encodings of DIGEST have been depicted in accordance with the ISO 8211 formulation.

[illegible]

CONNECTED NODE

ISOLATED NODE

FACE

SPATIAL DATA

LINE FEATURE

POINT FEATURE

AREA FEATURE

COMPLEX FEATURE



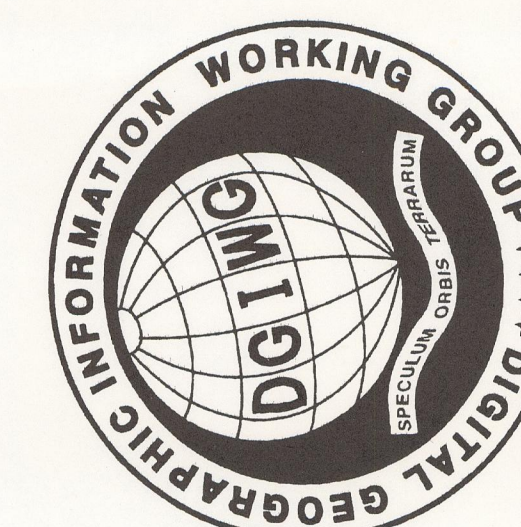
DATA DICTIONARY

RASTER

MATRIX

The
DIGITAL GEOGRAPHIC INFORMATION
EXCHANGE STANDARD
(DIGEST)

Support Document:
Structural Map



Produced and issued under the direction of the Directorate of Geographic Operations,
Department of National Defence, Canada on behalf of the
Digital Geographic Information working Group.

Edition 1.2 January 1994

July 2001

CANADIAN GENERAL STANDARDS BOARD

Canadian Geomatics Interchange Standard — Digital Geographic Information Exchange
Standard (CGIS — DIGEST)

This National Standard of Canada is Edition 2.1, September, 2000, of the Digital Geographic Information Exchange Standard (DIGEST) was developed by the Digital Geographic Information Working Group (DGIWG) to support efficient exchange of Digital Geographic Information among nations, data producers, and data users. DGIWG was formed to develop standards to support the exchange of Digital Geographic Information (DGI) among NATO nations. Interoperability and burden sharing continue to be the goals of the DGIWG since the group's establishment in 1983. Many of the DGIWG standardization achievements have been adopted directly by NATO. The current DGIWG membership and work program extends beyond NATO. DIGEST is a NATO Standardization Agreement (STANAG) 7074.

The CGSB Committee on Geomatics (171/1) reviewed this standard, has approved it for Canadian use as a Canadian Geomatics Interchange Standard, CGIS-DIGEST, and as a National Standard of Canada.

The Committee on Geomatics acknowledges the work of Directorate of Geomatics, Department of National Defence, in the preparation of this document.

The Standard can be found at: <http://www.digest.org/index.shtml>



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CGIS - DIGEST **D**igital **G**eographic **E**xchange **S**tandard
(Including two Support Documents)

CGIS - SAIF **S**patial **A**rchive and **I**nterchange **F**ormat: **F**ormal
Definition
(To replace CGSB Standard 171.1P)

Thank you for ordering Canadian Geomatics Interchange Standards.
We hope you will find them valuable.

The CGSB Committee on Geomatics, the committee responsible, has determined that the above standards are suitable for use in Canada and to be submitted to the Standards Council of Canada as candidate National Standards of Canada. Once accepted by the Standards Council, they will appear with the distinctive cover of a National Standard of Canada published by CGSB.

To meet immediate needs, we are making both standards available as is without waiting for these formalities. As soon as they have achieved their final status, we will send you the new cover and preface to be added to your copy.



Canadian
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CGIS-DIGEST
Canadian Geomatics Interchange
Standard — Digital Geographic Information
Exchange Standard
(Edition 1.2)



Digital Geographic Information Working Group



National Standard of Canada

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An up-to-date listing of CGSB standards, including details on latest issues and amendments, and ordering instructions, will be found in the CGSB Catalogue, which is published annually and is available without charge upon request.

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A National Standard of Canada is a standard which has been approved by the Standards Council of Canada and one which reflects a reasonable agreement among the views of a number of capable individuals whose collective interests provide, to the greatest practicable extent, a balance of representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. It normally is a standard that is capable of making a significant and timely contribution to the national interest.

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CGIS-DIGEST
CANADIAN GEOMATICS INTERCHANGE STANDARD —
DIGITAL GEOGRAPHIC INFORMATION
EXCHANGE STANDARD
(EDITION 1.2)

This standard is also a NATO standard, STANAG 7074.

Prepared by the

Digital Geographic Information Working Group



Reviewed by the

Canadian General Standards Board



Approved by the

Standards Council of Canada



Published August 1994 by the
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Withdrawn/Retirée

Preface to the National Standard of Canada

This National Standard of Canada is Edition 1.2, January 1994, of The Digital Geographic Information Exchange Standard (DIGEST) developed within the Digital Geographic Information Working Group (DGIWG) which comprises eleven countries of the North Atlantic Treaty Organization (NATO). DIGEST is also a NATO standard, STANAG 7074.

The CGSB Committee on Geomatics has reviewed this standard, has approved it for Canadian use as a **Canadian Geomatics Interchange Standard**, CGIS-DIGEST, and has agreed that it should be submitted to the Standards Council of Canada as a National Standard of Canada.

In the Reference section contained in Parts 2, 3 and 4, under the heading *International/Multinational* are listed a number of international standards published by ISO, the International Organization for Standardization. They are available in Canada from the Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7. Several have also been adopted as National Standards of Canada: for example, ISO 8601 on Representation of Dates and Time is available with the designation CAN/CSA-Z234.5 from the Canadian Standards Association, Standards Sales, 178 Rexdale Blvd., Rexdale (Toronto), Ontario M9W 1R3.

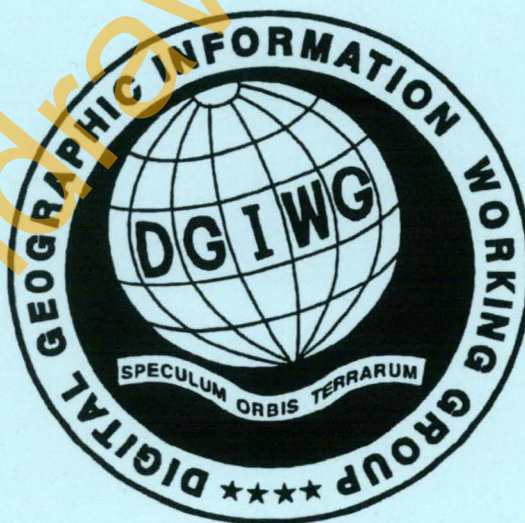
Throughout this standard, the expression CGIS-DIGEST should be understood to replace DIGEST wherever it appears.

It is expected that future editions of DIGEST will also become National Standards of Canada, superseding this one. However, Edition 1.2 of DIGEST will be frozen until June 1996.

The Committee on Geomatics acknowledges the help and co-operation of the Directorate of Geographic Operations, Department of National Defence, in the publication of this National Standard of Canada.

The
**DIGITAL GEOGRAPHIC INFORMATION
EXCHANGE STANDARD**
(DIGEST)

Support Document:
Detailed Logical Flow Diagrams



Produced and issued under the direction of the Directorate of Geographic Operations,
Department of National Defence, Canada on behalf of the
Digital Geographic Information working Group.

Edition 1.2 January 1994

Logical Flow Diagrams

This report contains detailed logical flow diagrams of DIGEST 1.2 to assist in the implementation of the standard. The logical flow is taken directly from the ISO 8211 Encapsulation. It varies in minor detail from the ISO 8824 Encapsulation with respect to the General Information Record and the Quality File. At the lowest level, ISO 8824 encodes text and numbers in a manner particular for telecommunications environments. This is not reflected in the logical flow diagrams.

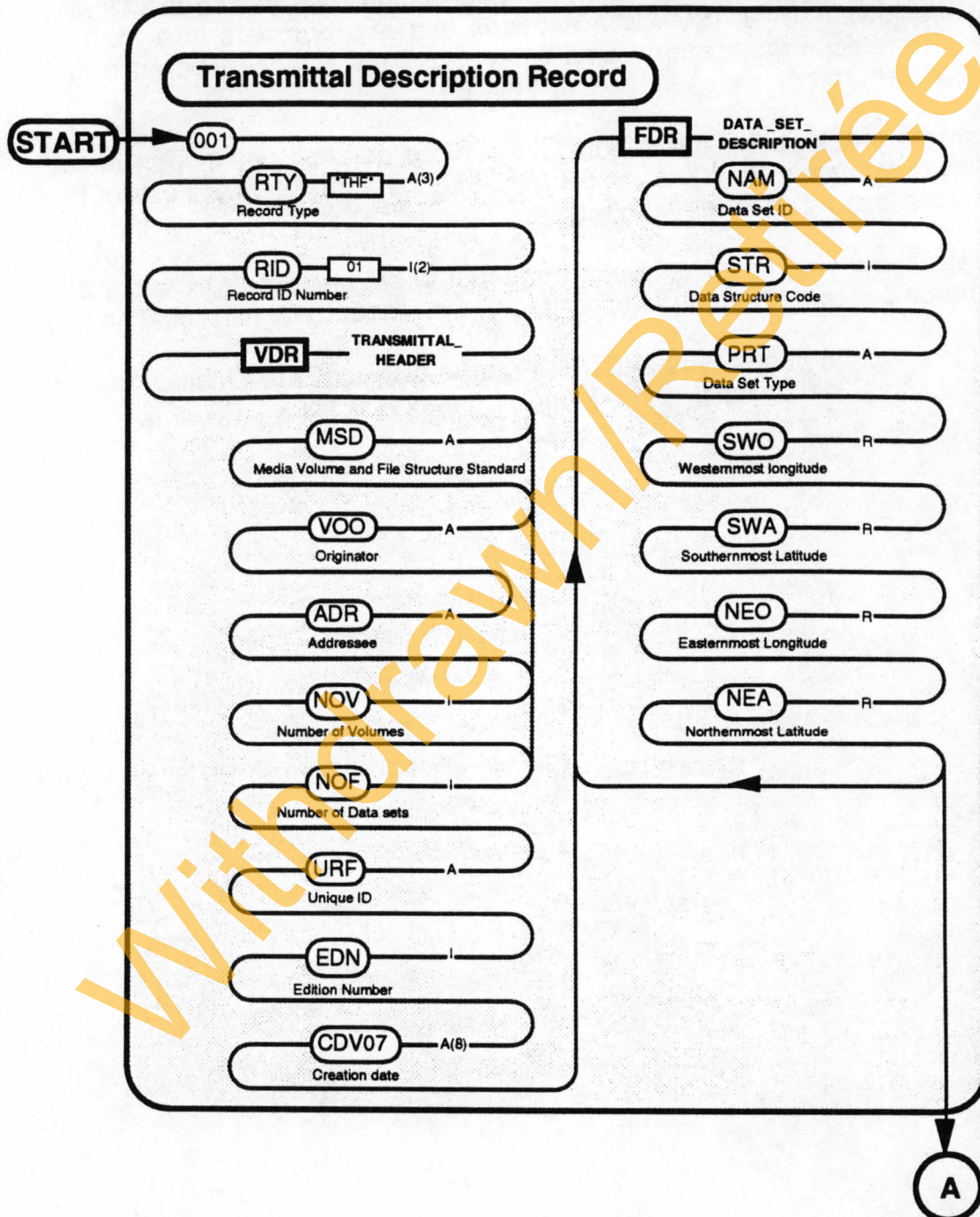
The diagrams presented in this report give a more detailed description of the logical flow diagrams in Part 2, Annex F of DIGEST 1.2. They make use of the same notation described in the standard.

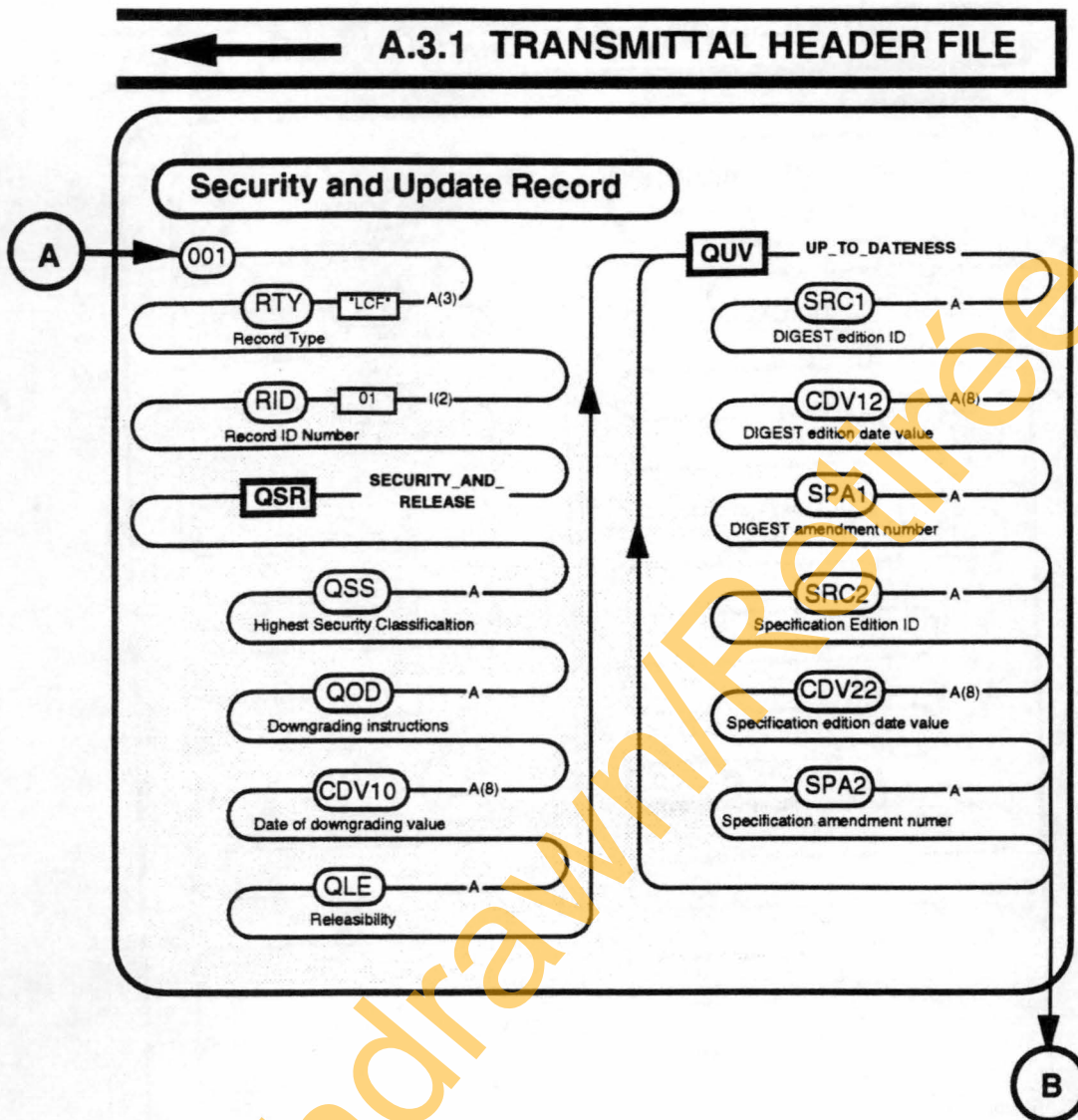
These logical flow diagrams are support material to the standard. Where there is a difference between them and the standard, the standard takes precedence.

Note that the section numbers of each "File" in the diagrams are identical to that found in the ISO 8211 Encapsulation, found in Annex A of DIGEST 1.2.

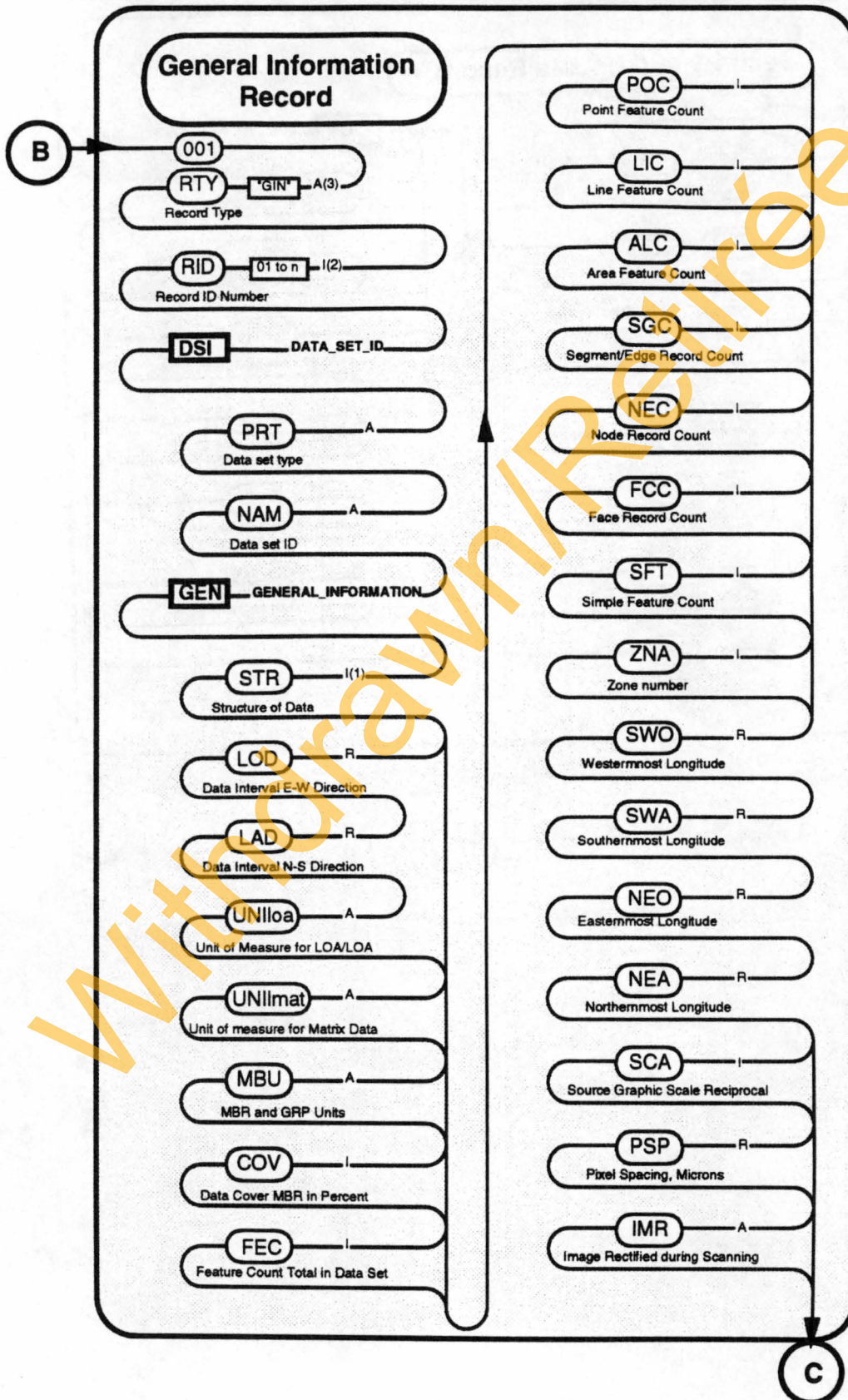
DETAILED LOGICAL FLOW

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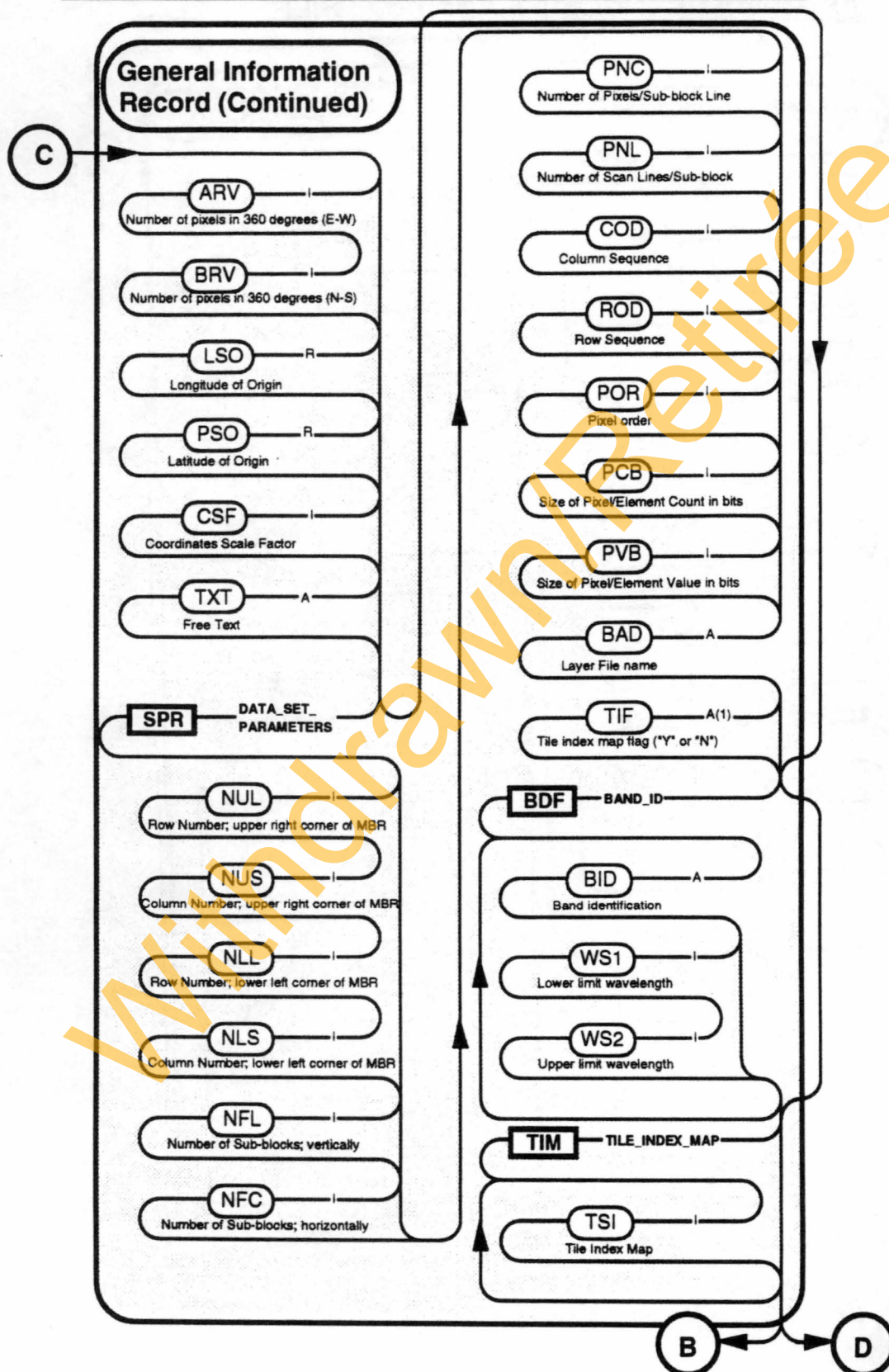


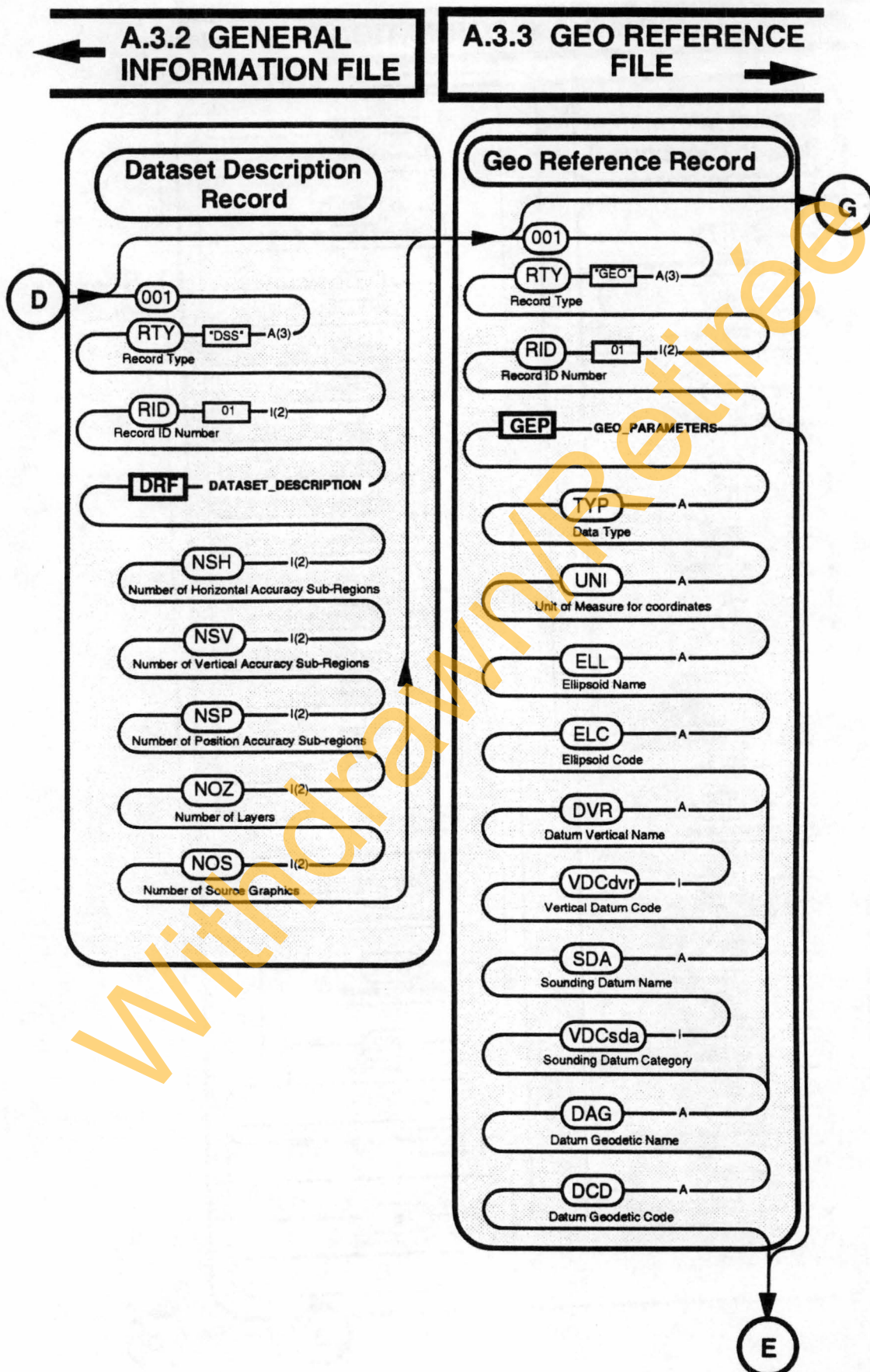


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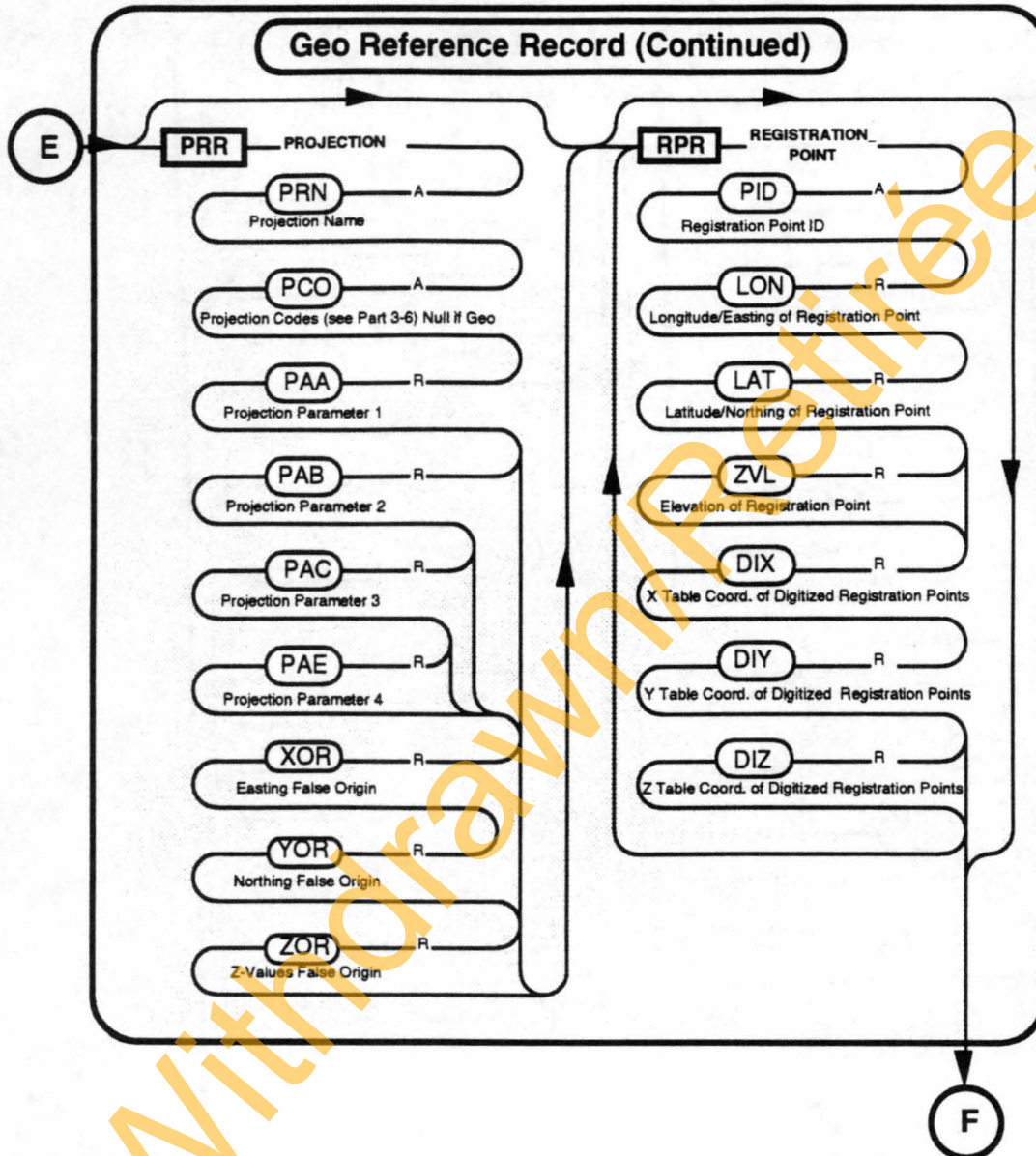


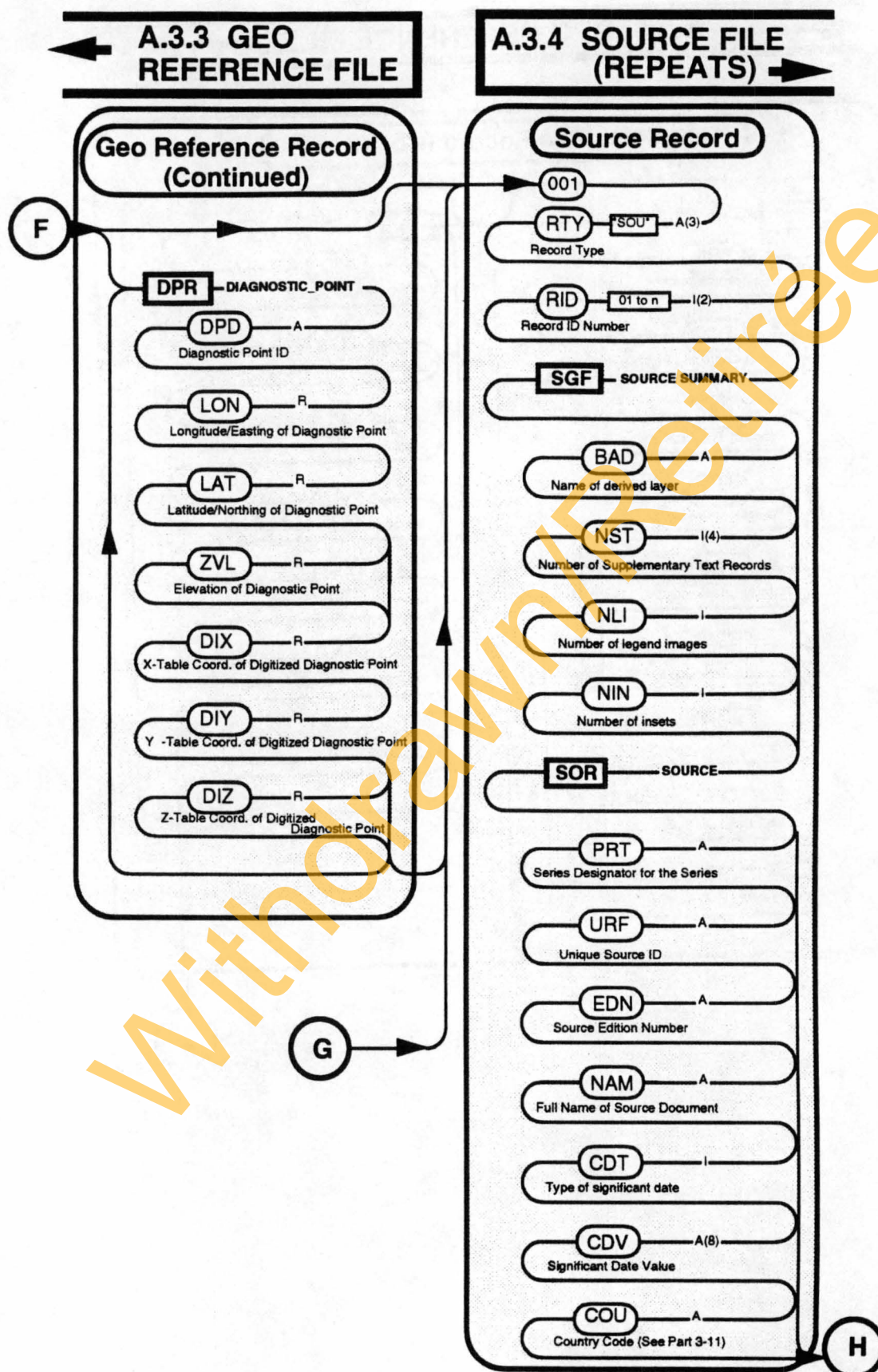
A.3.2 GENERAL INFORMATION FILE



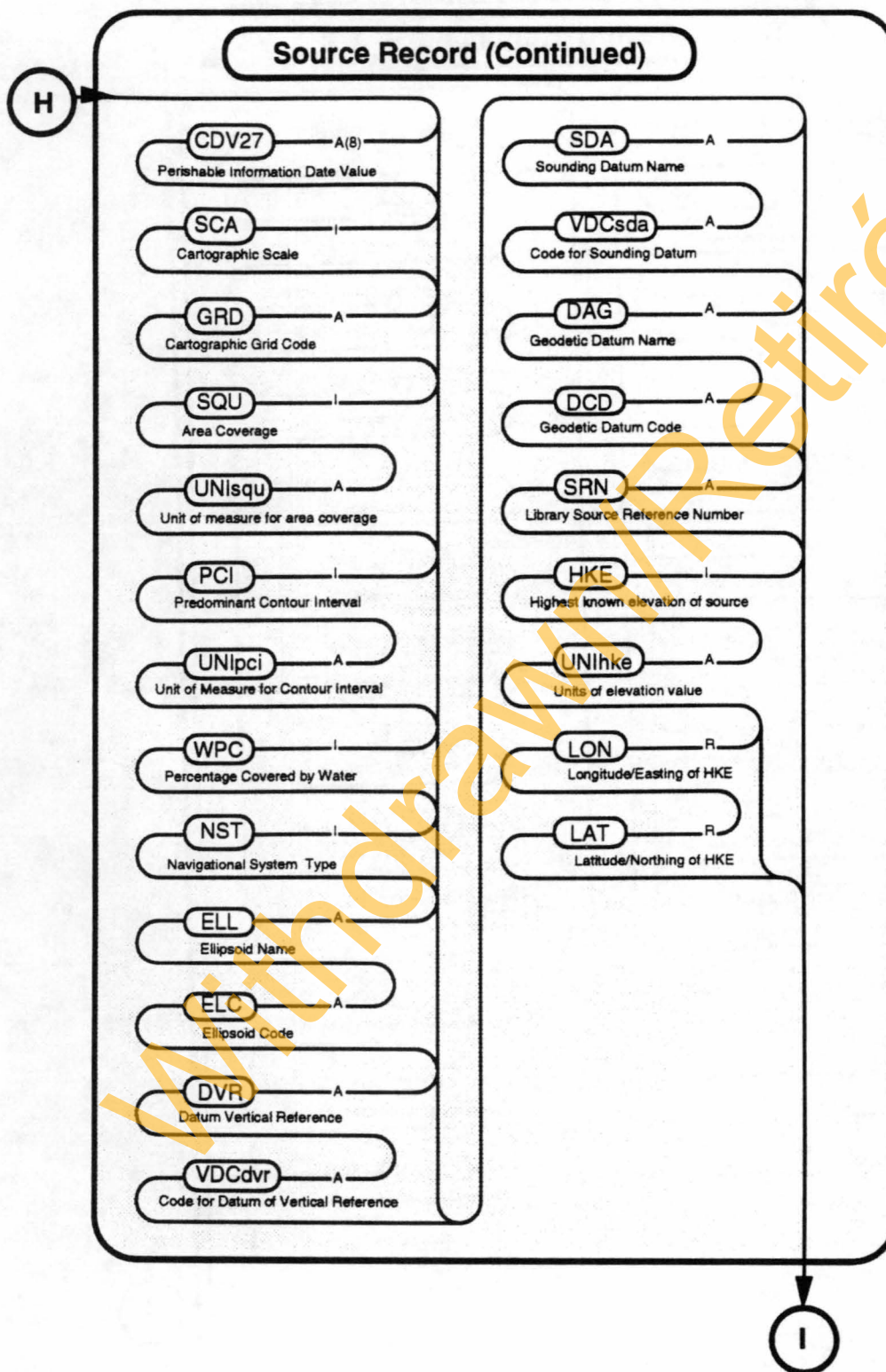


A.3.3 GEO REFERENCE FILE

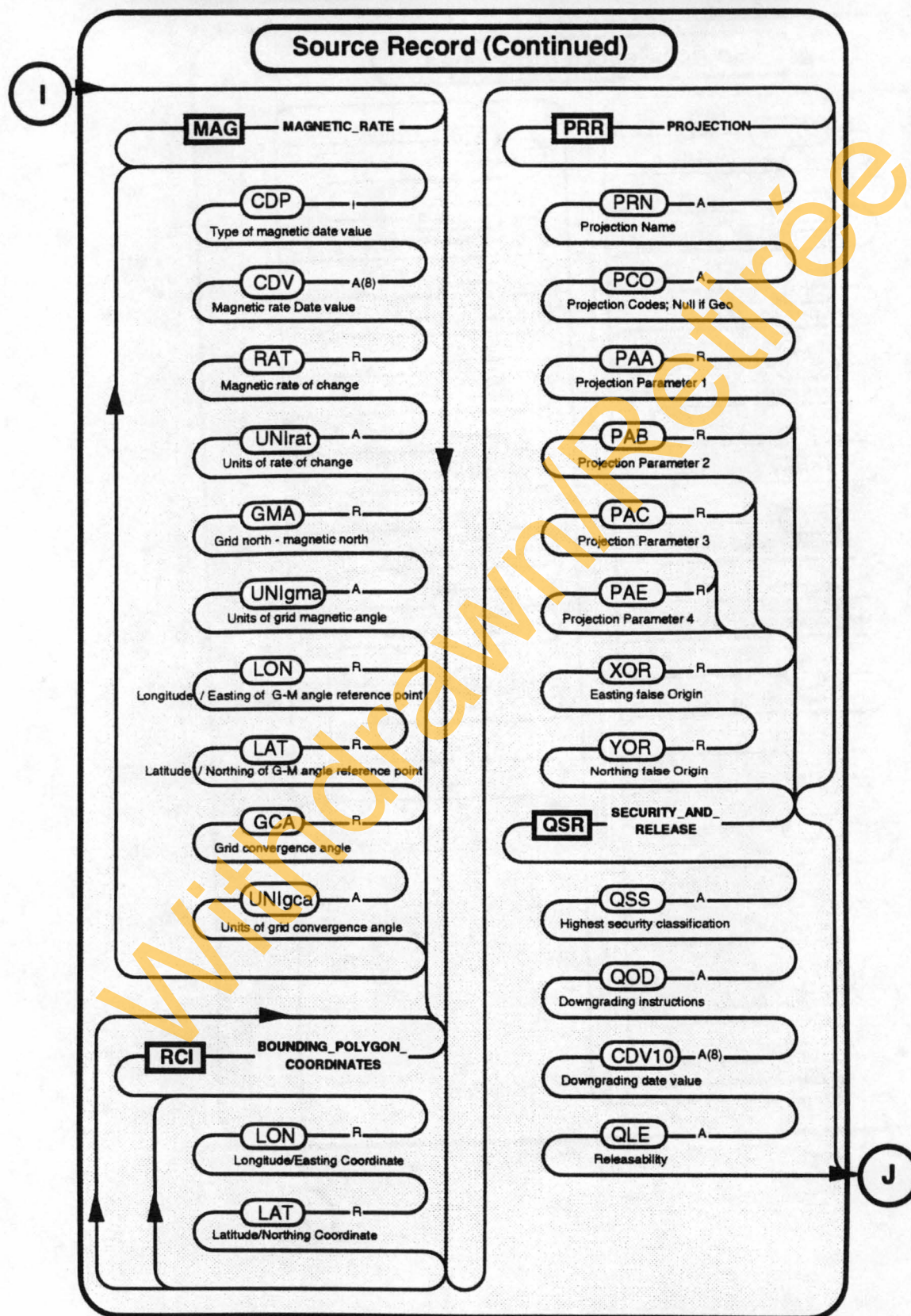




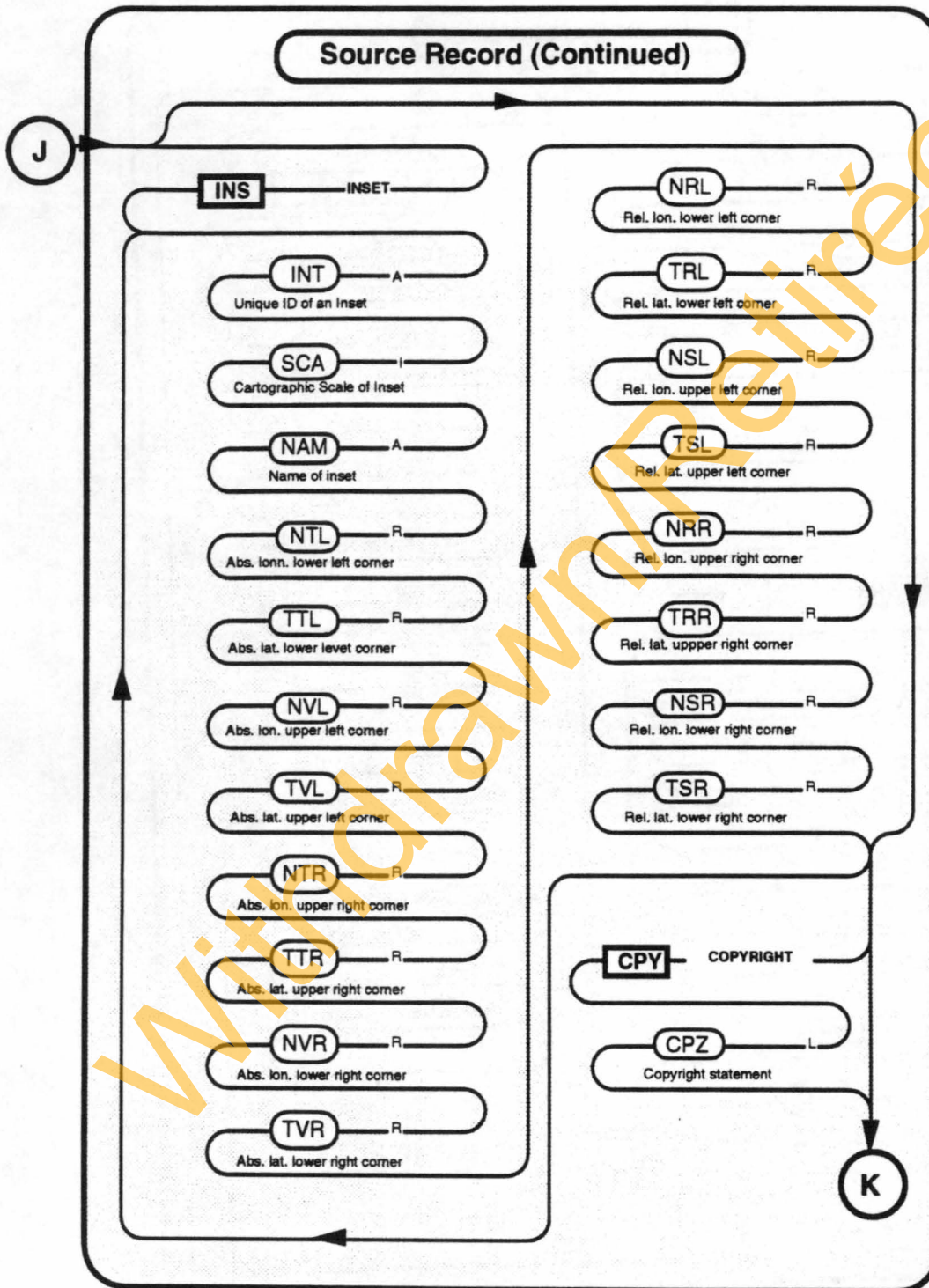
A.3.4 SOURCE FILE (REPEATS)



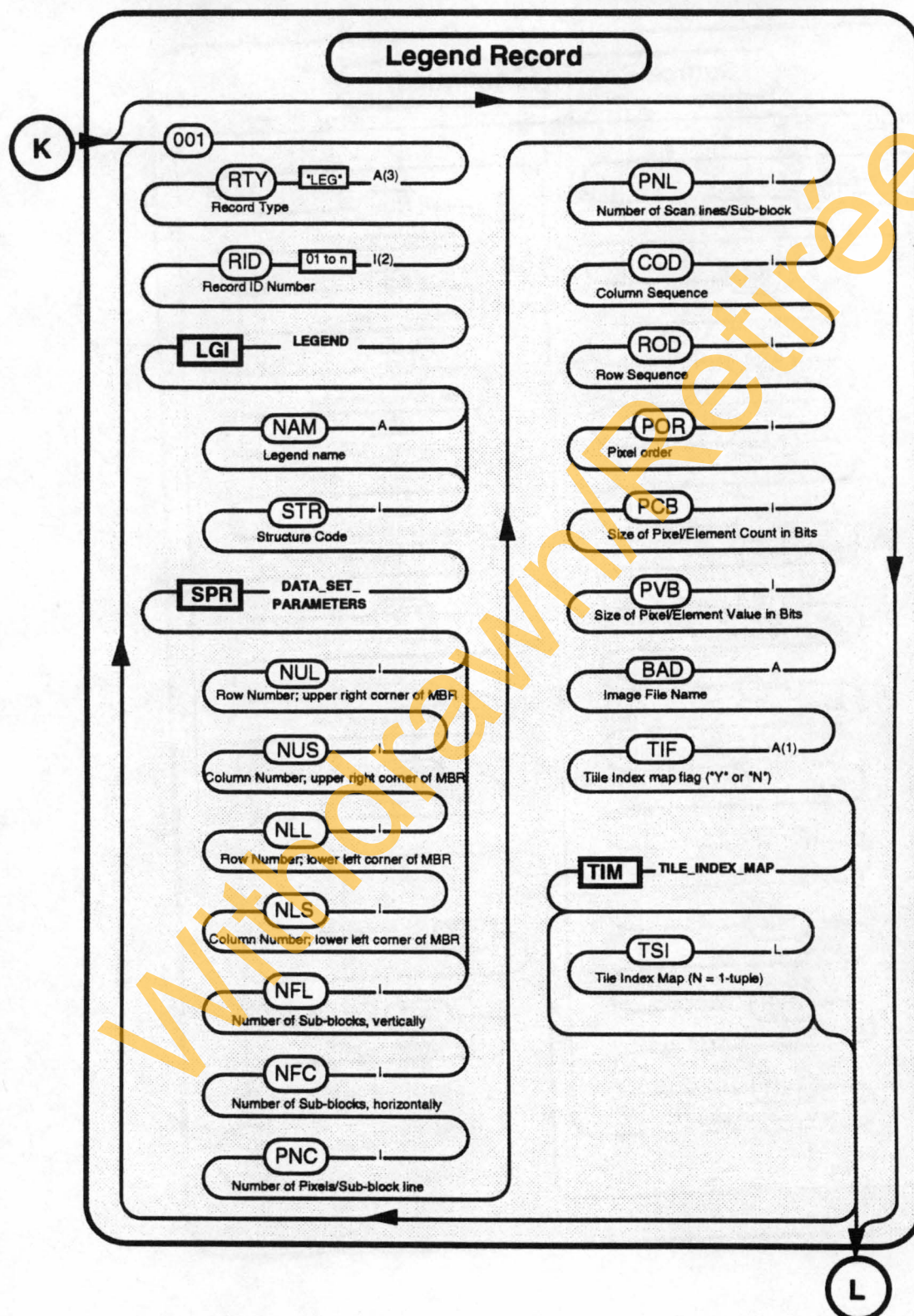
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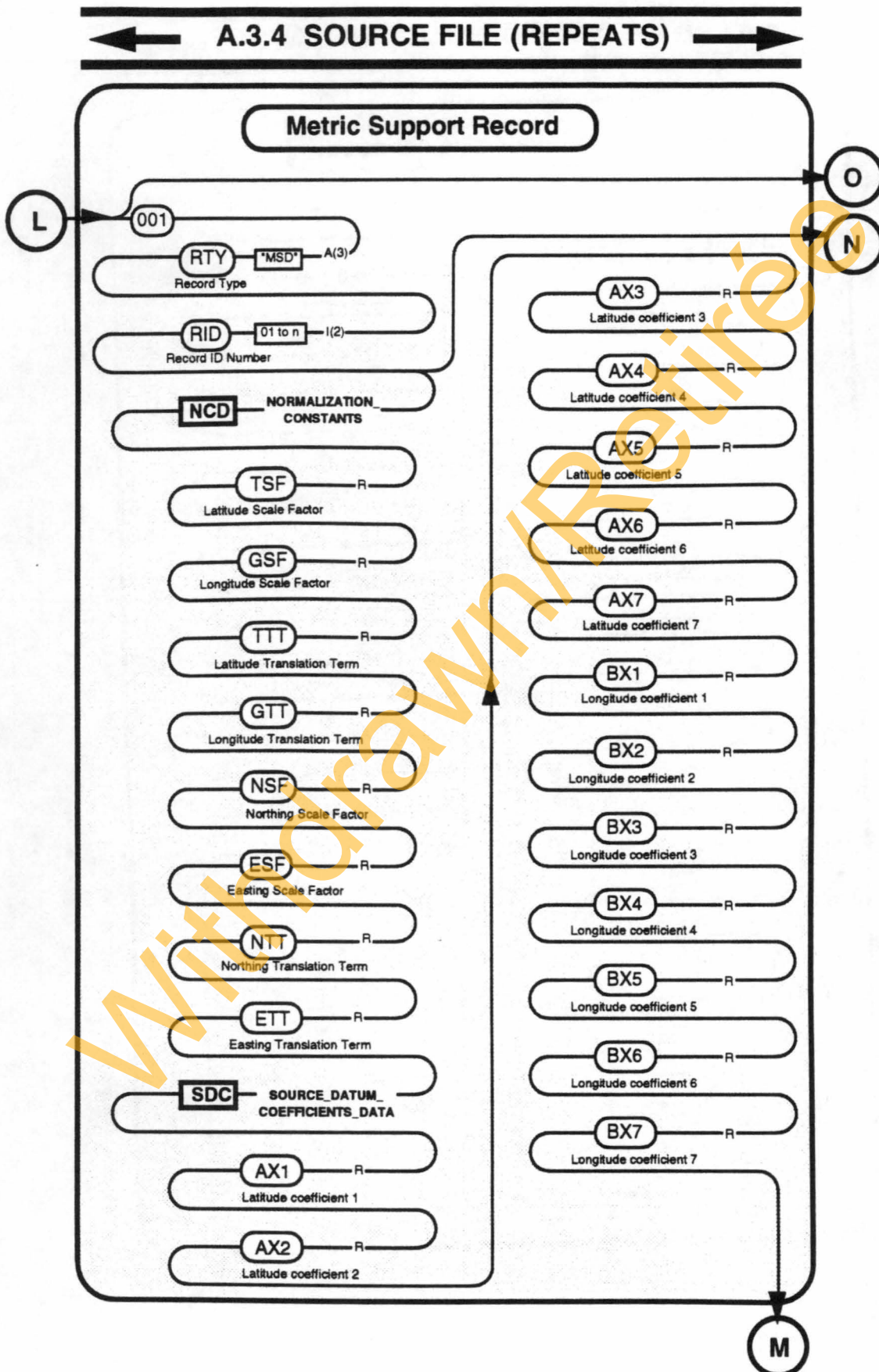


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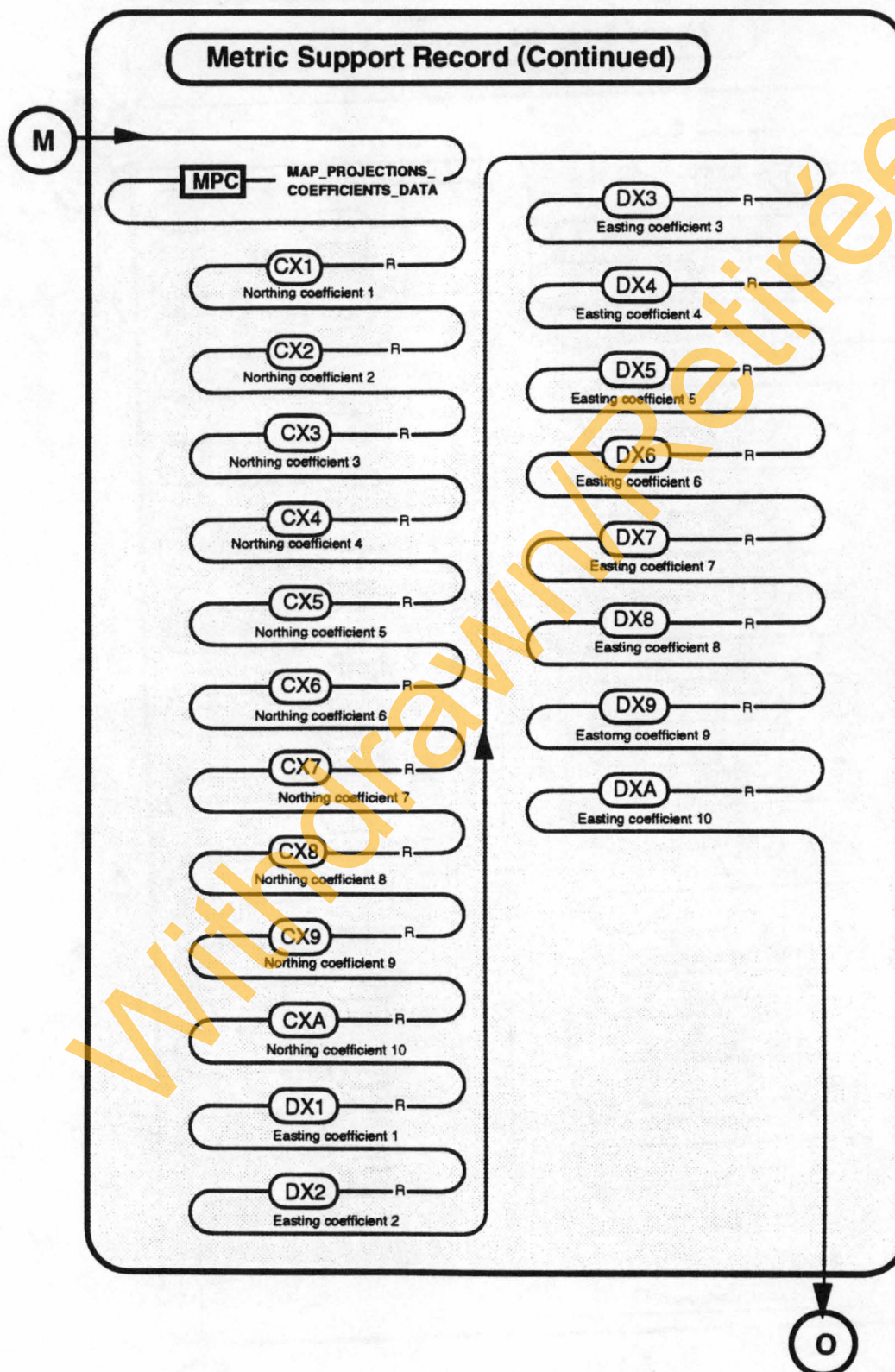


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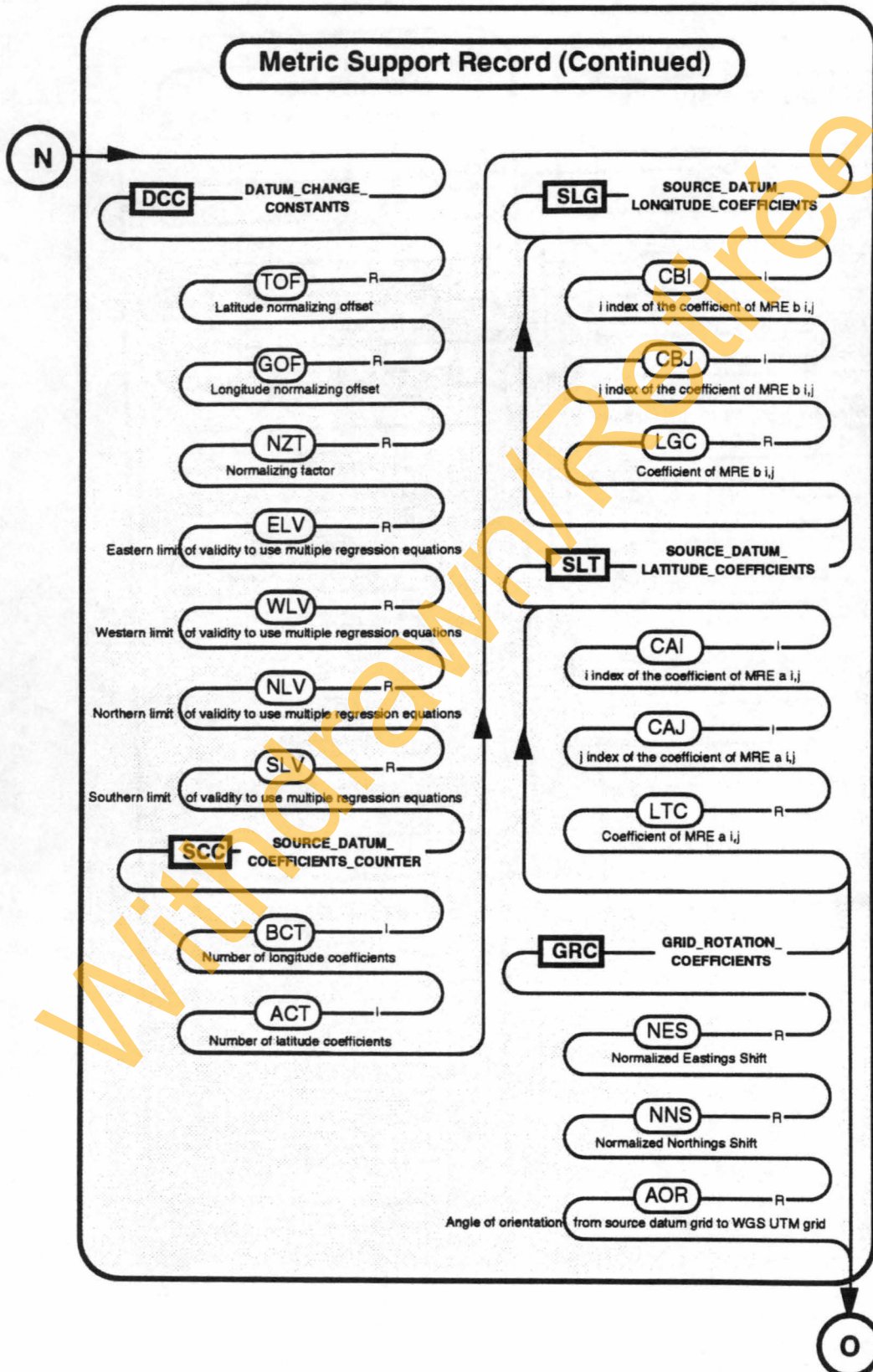


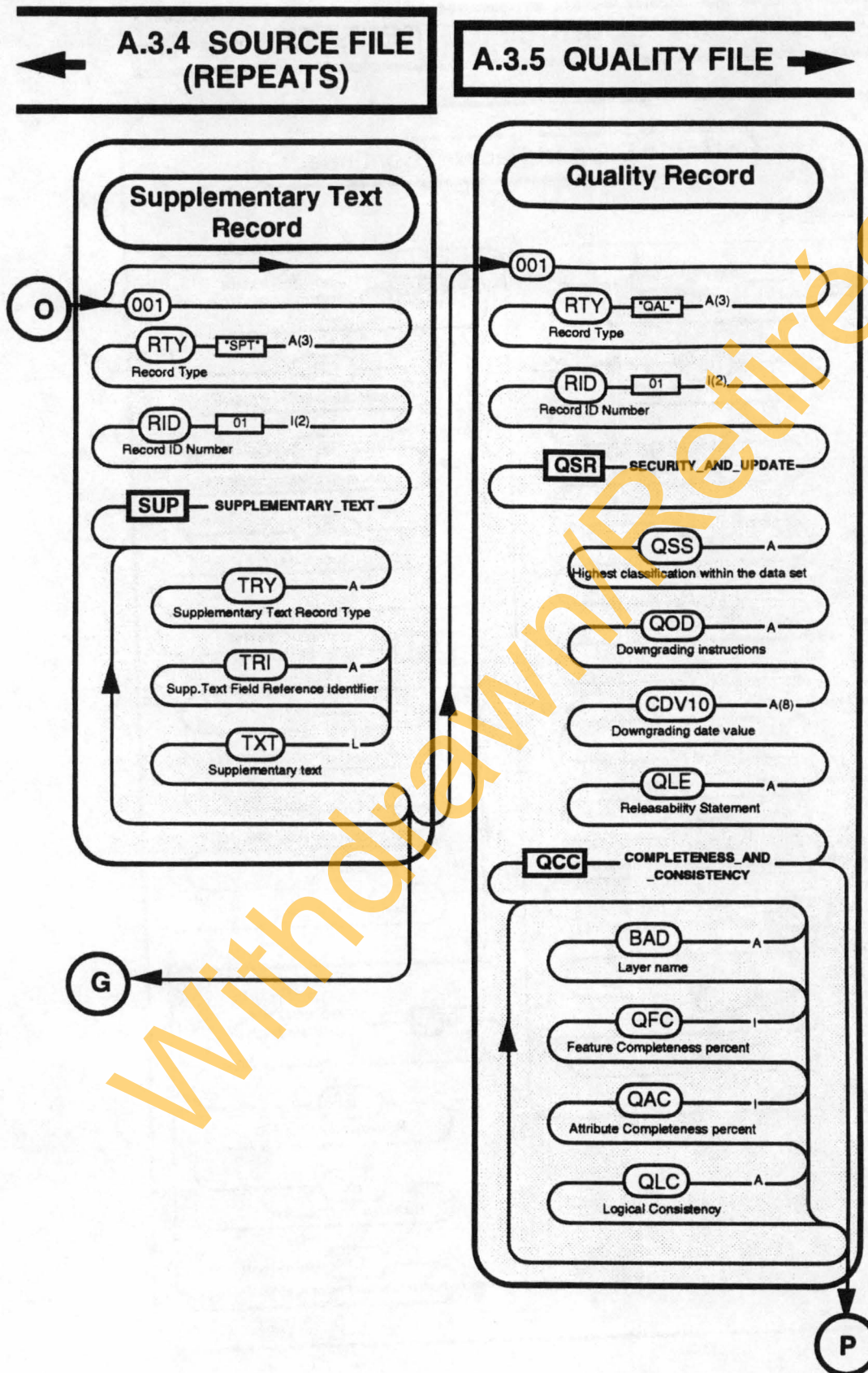


← A.3.4 SOURCE FILE (REPEATS) →

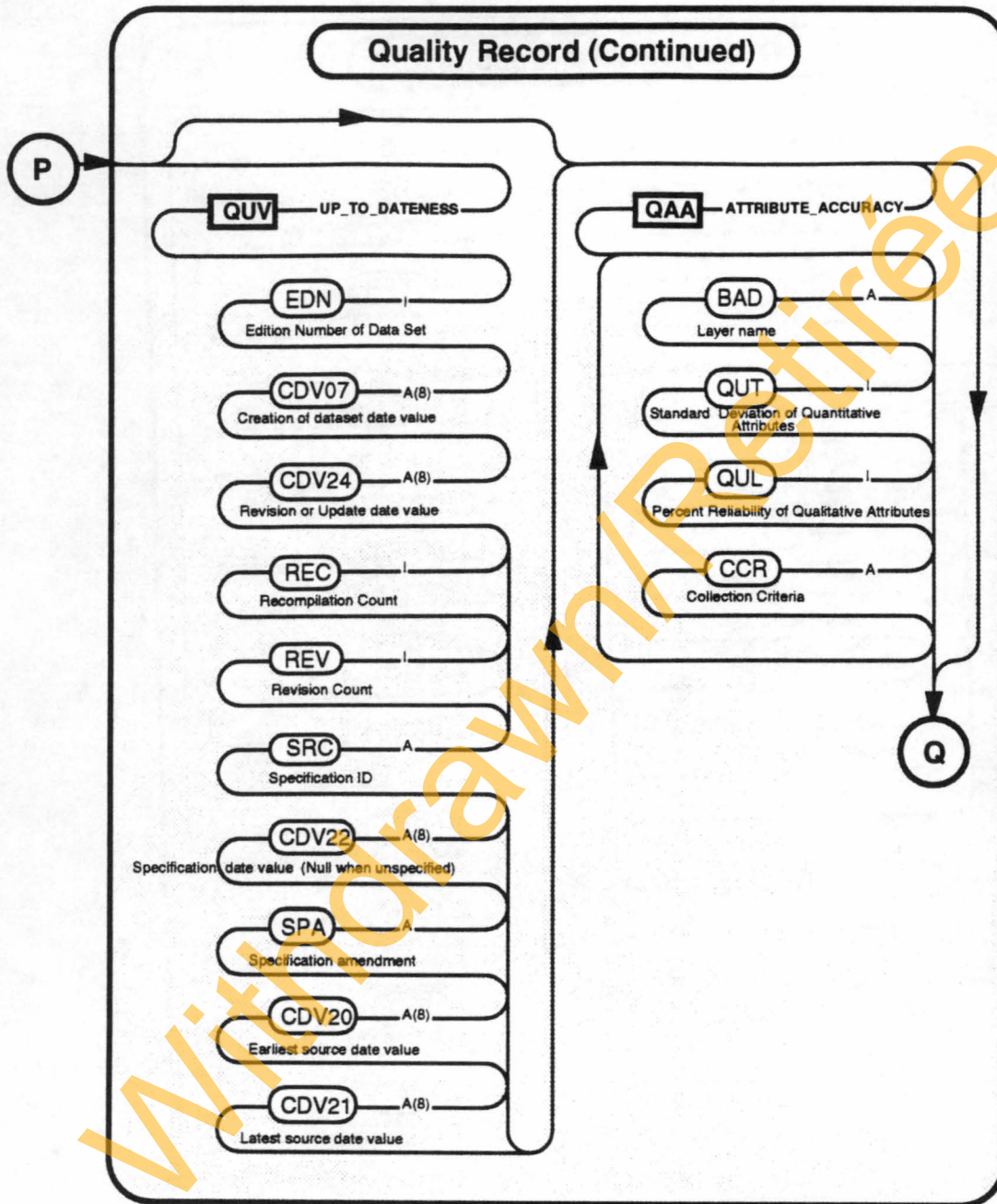


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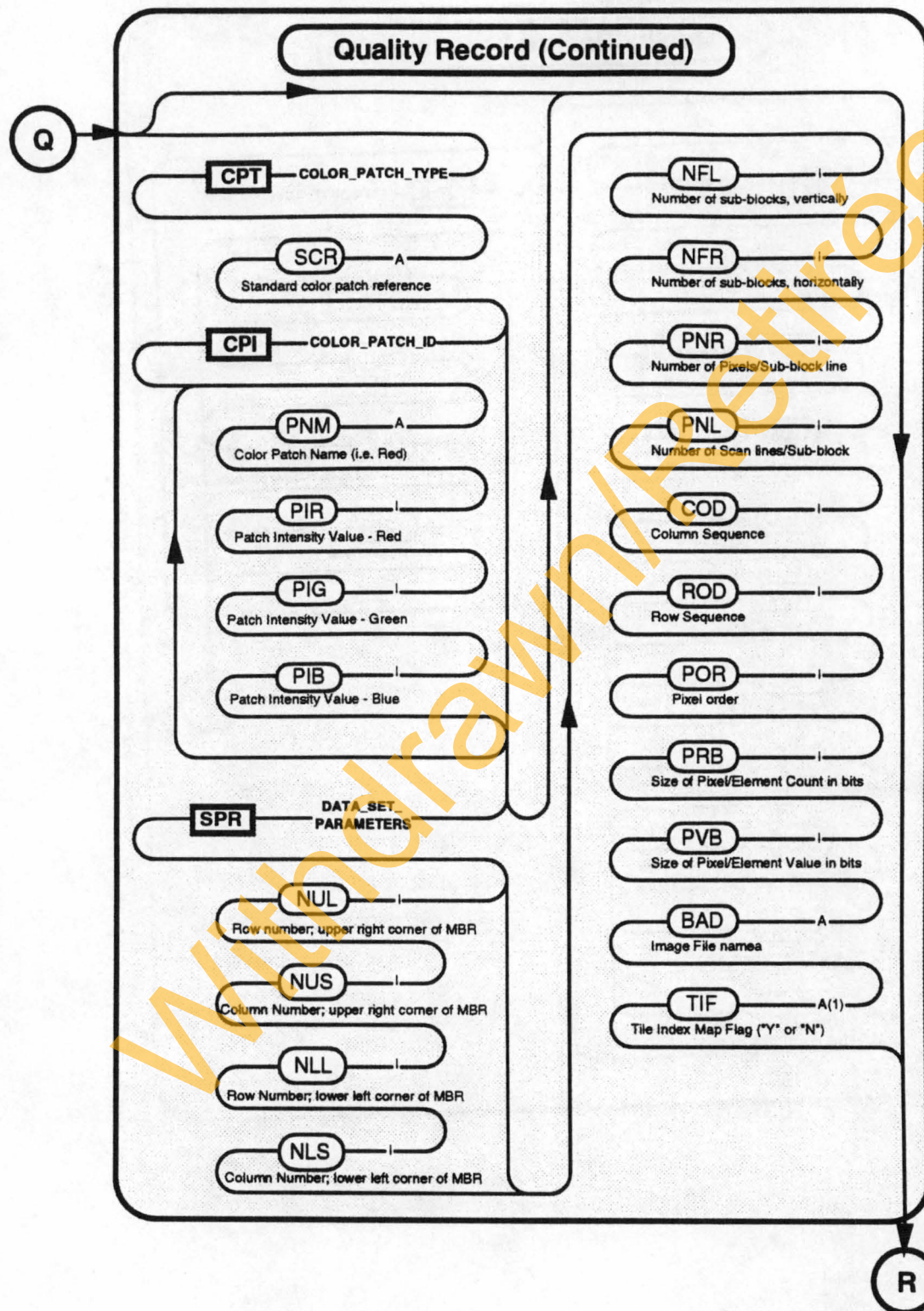




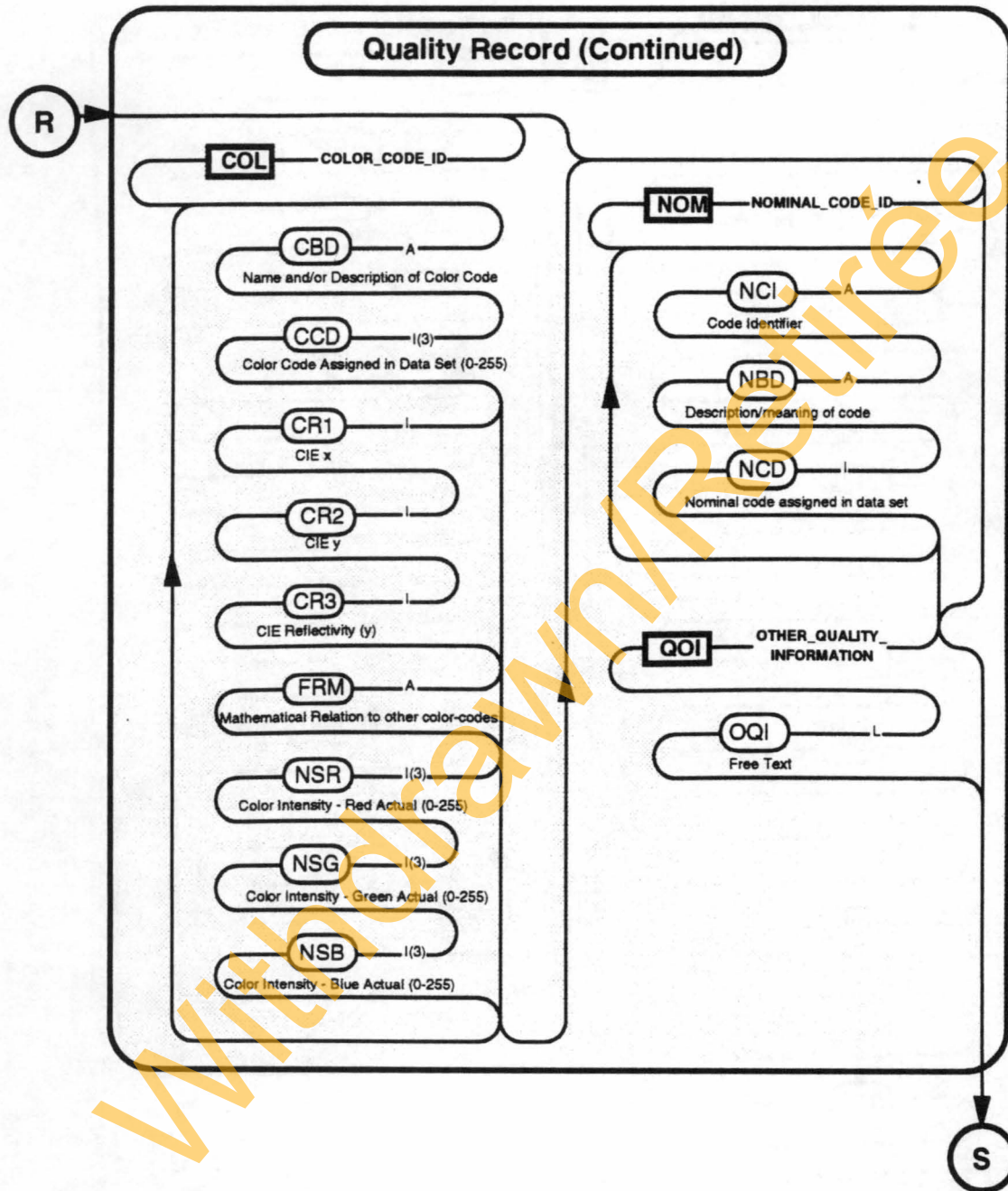
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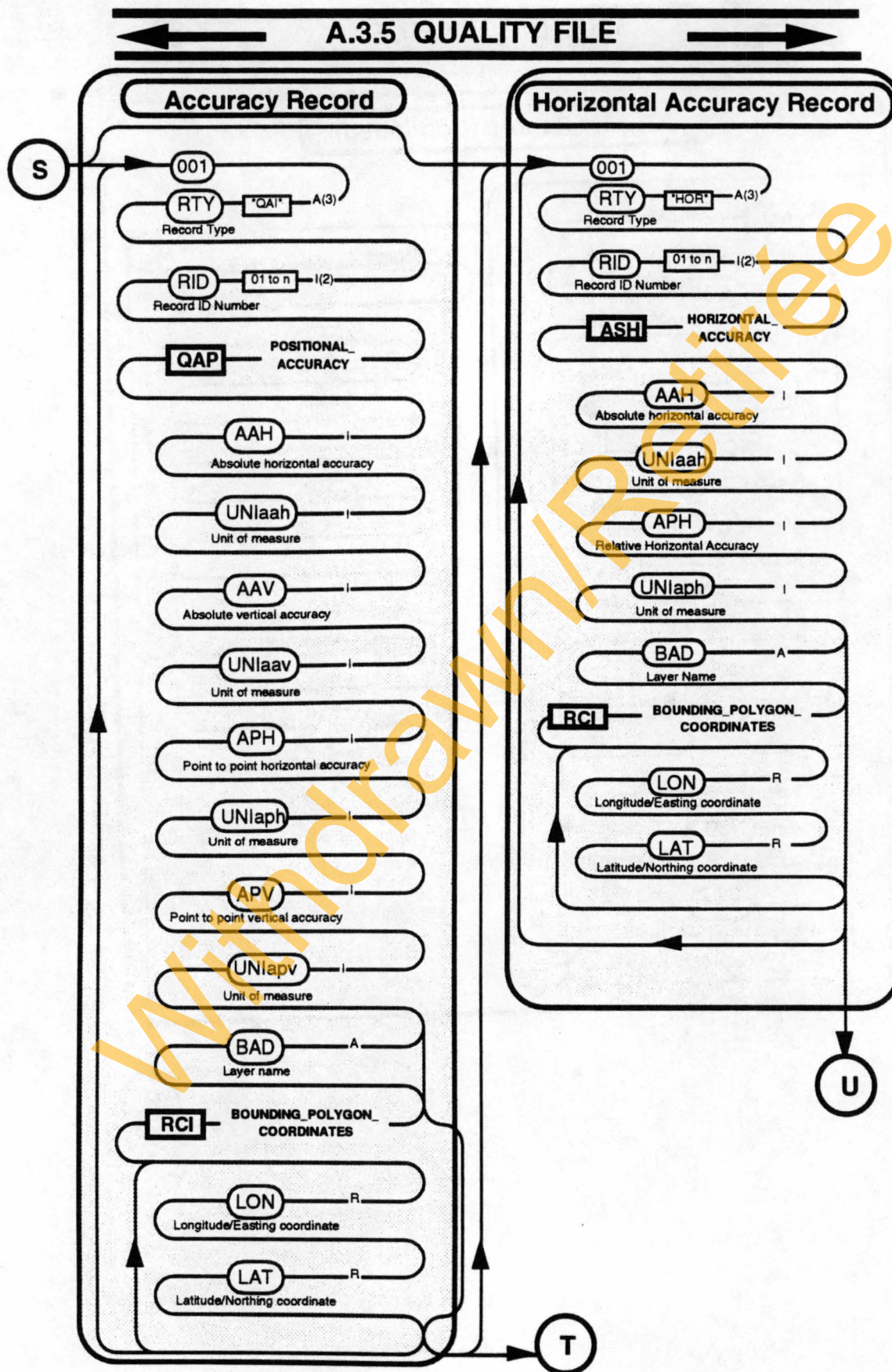


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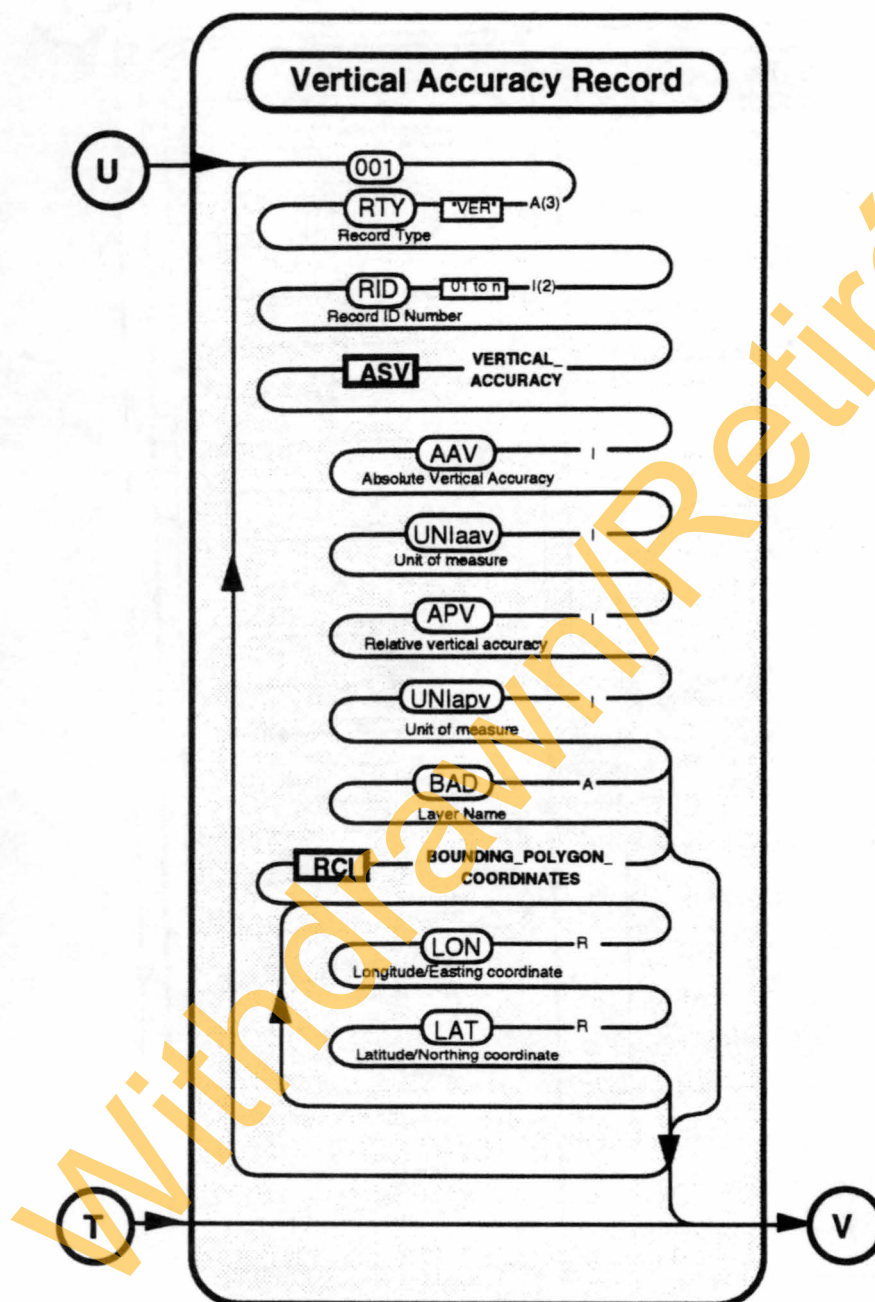


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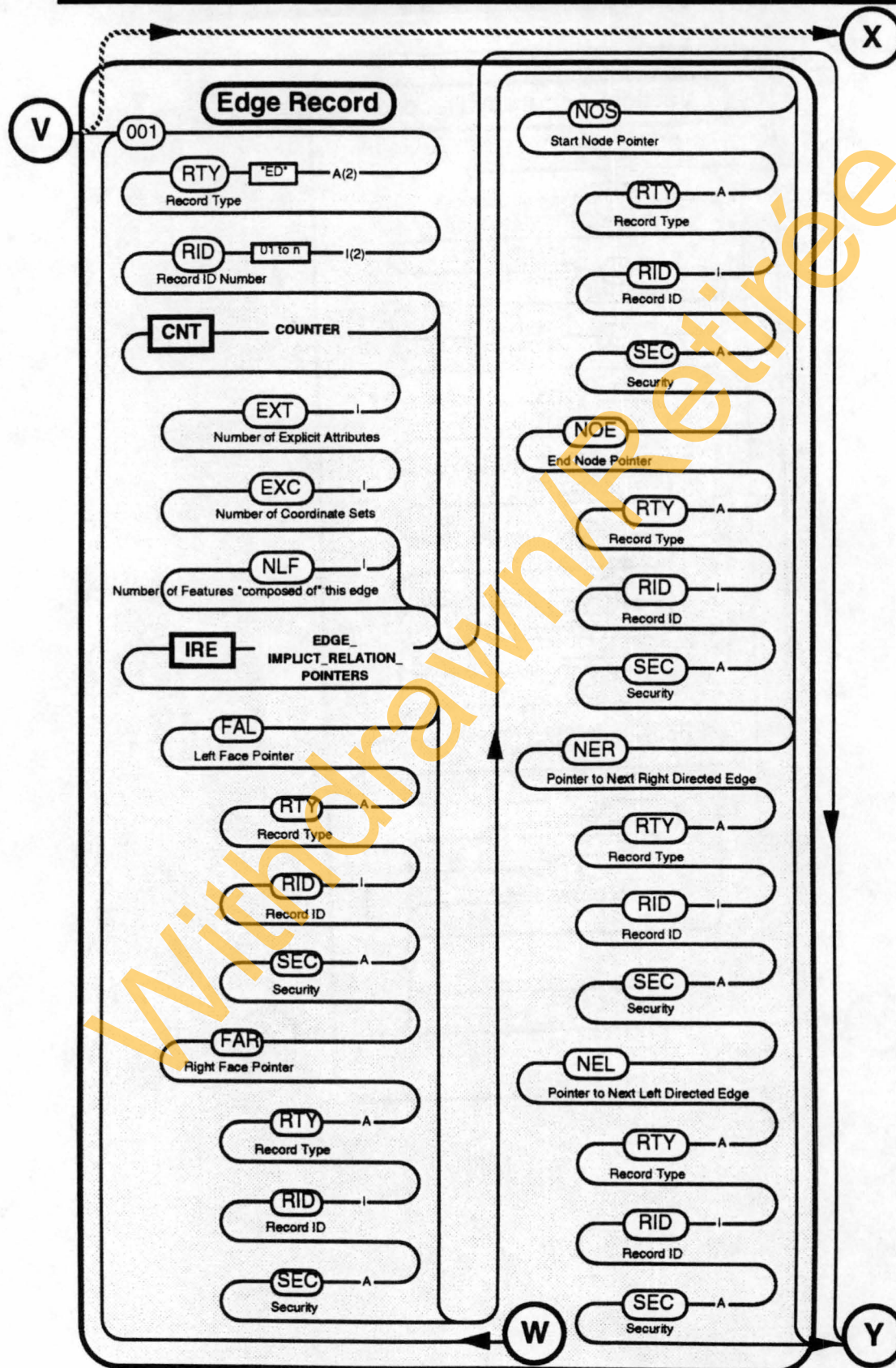


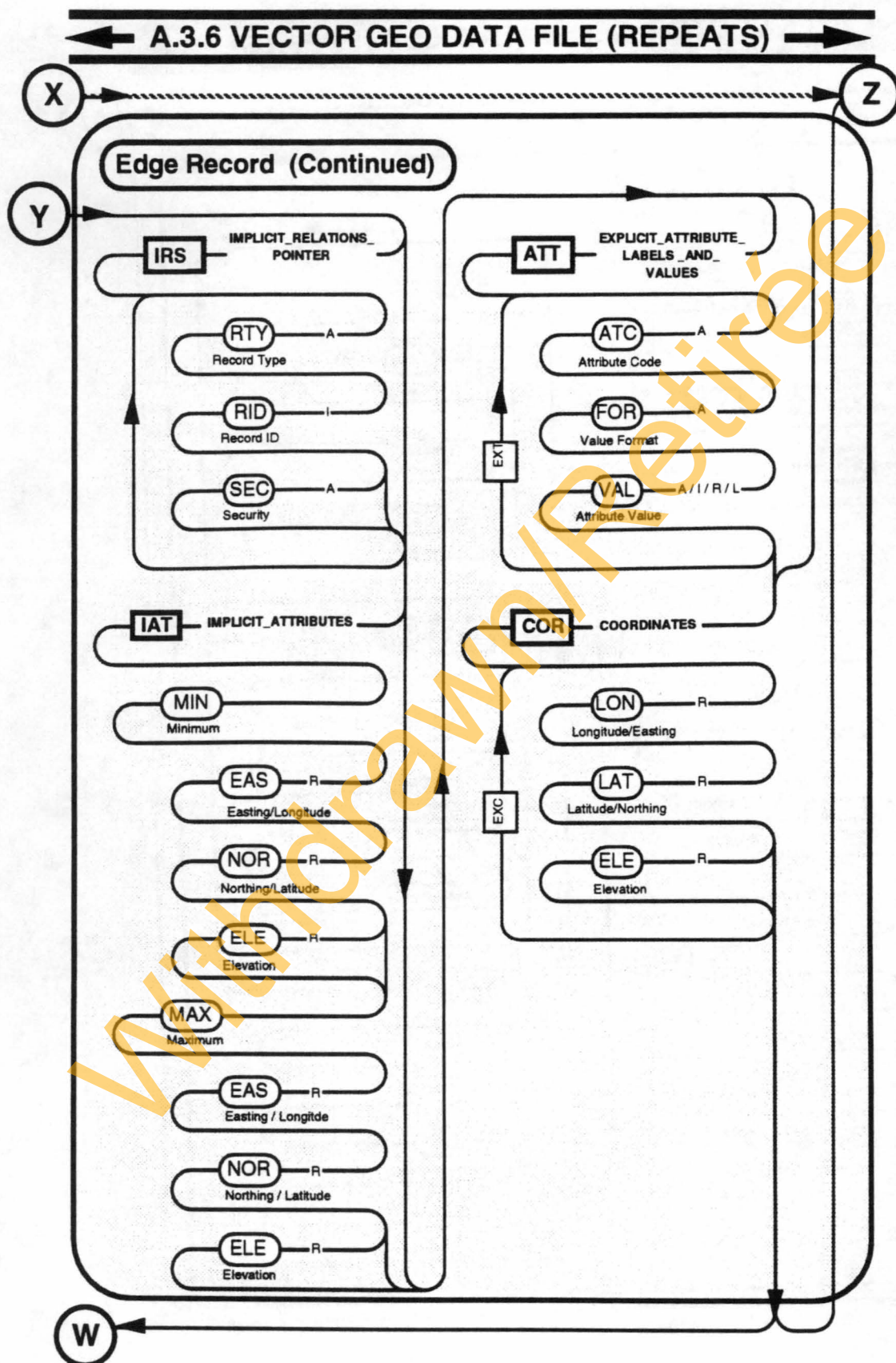


A.3.5 QUALITY FILE

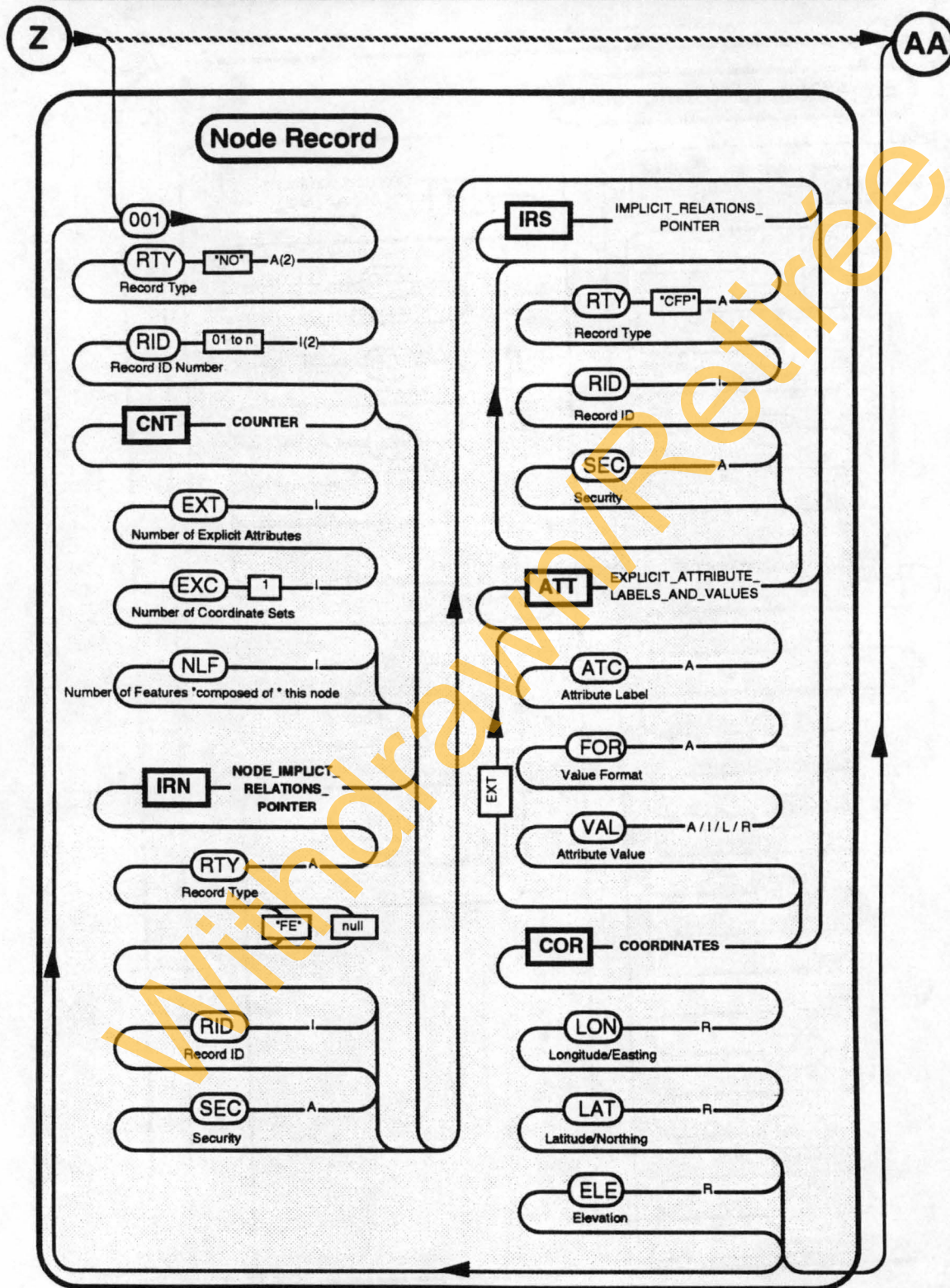


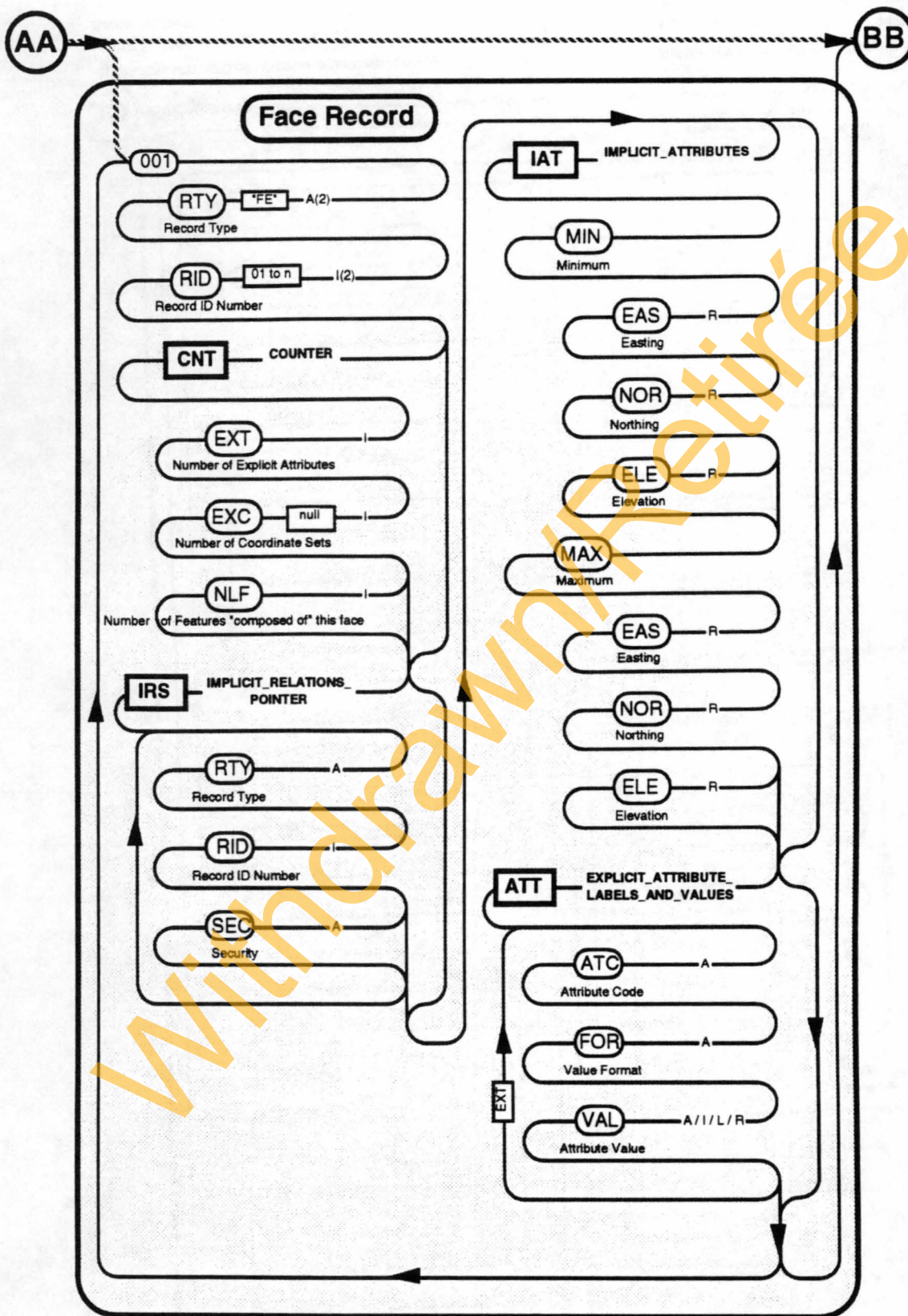
A.3.6 VECTOR GEO DATA FILE (REPEATS) →

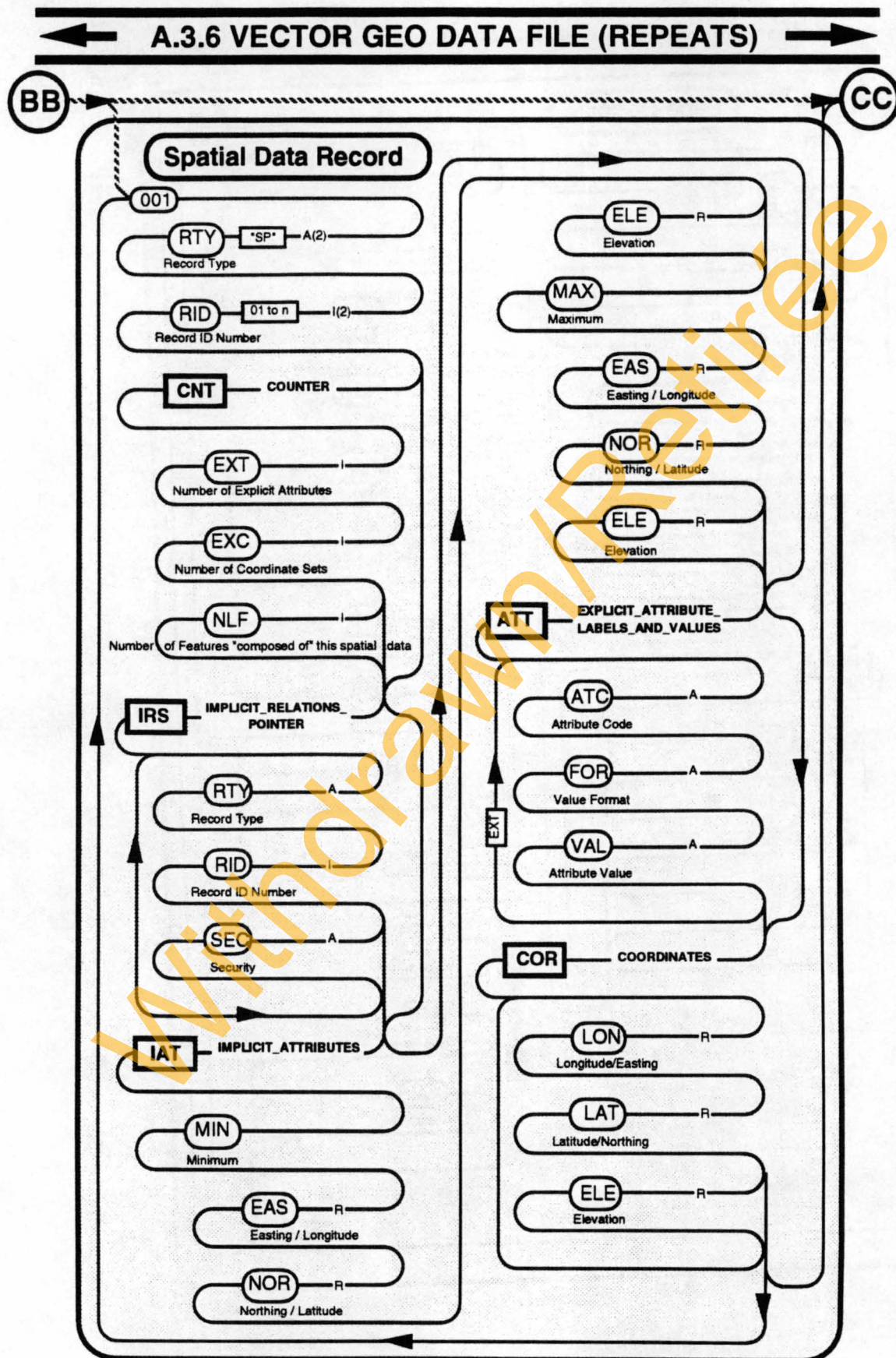




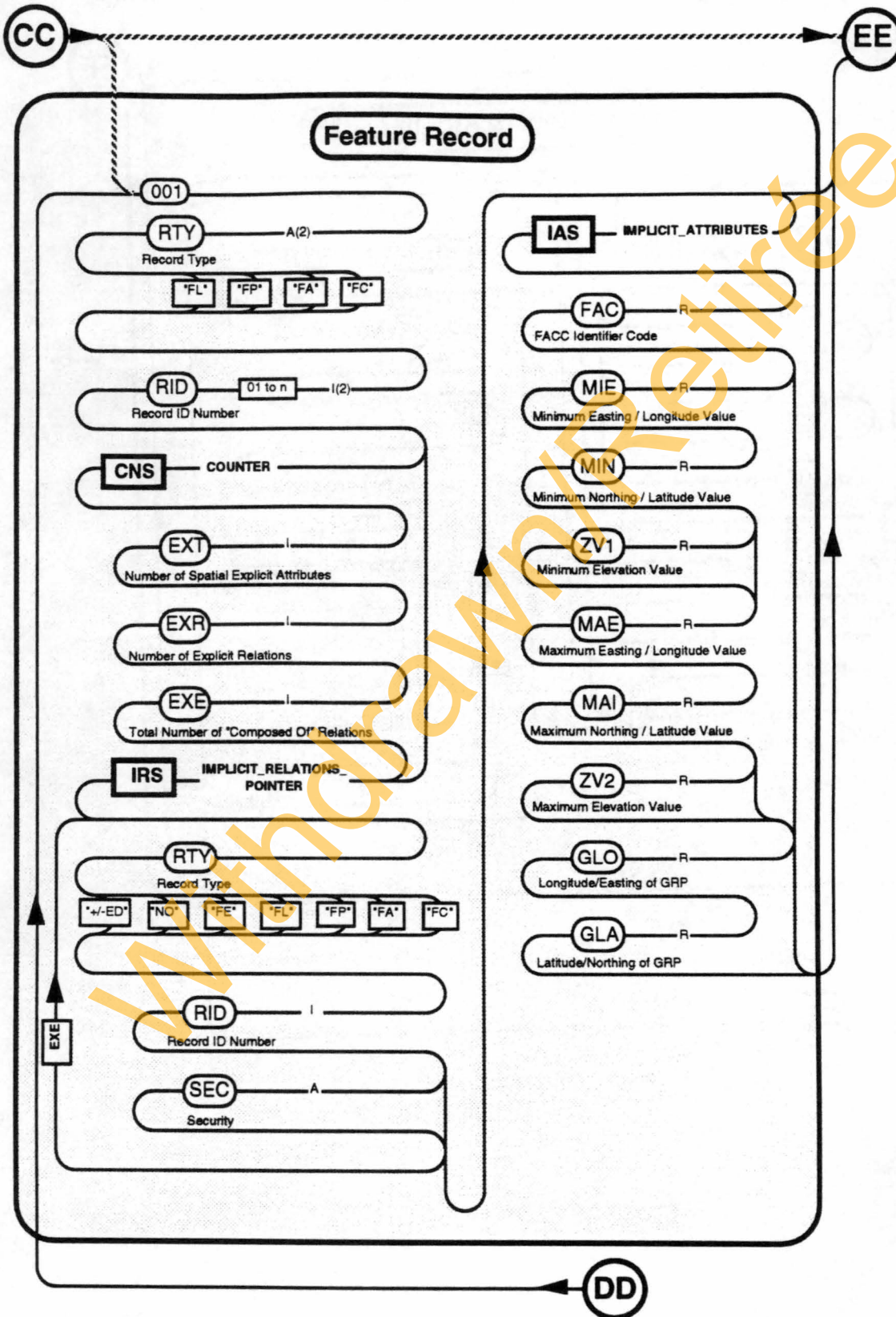
A.3.6 VECTOR GEO DATA FILE (REPEATS)



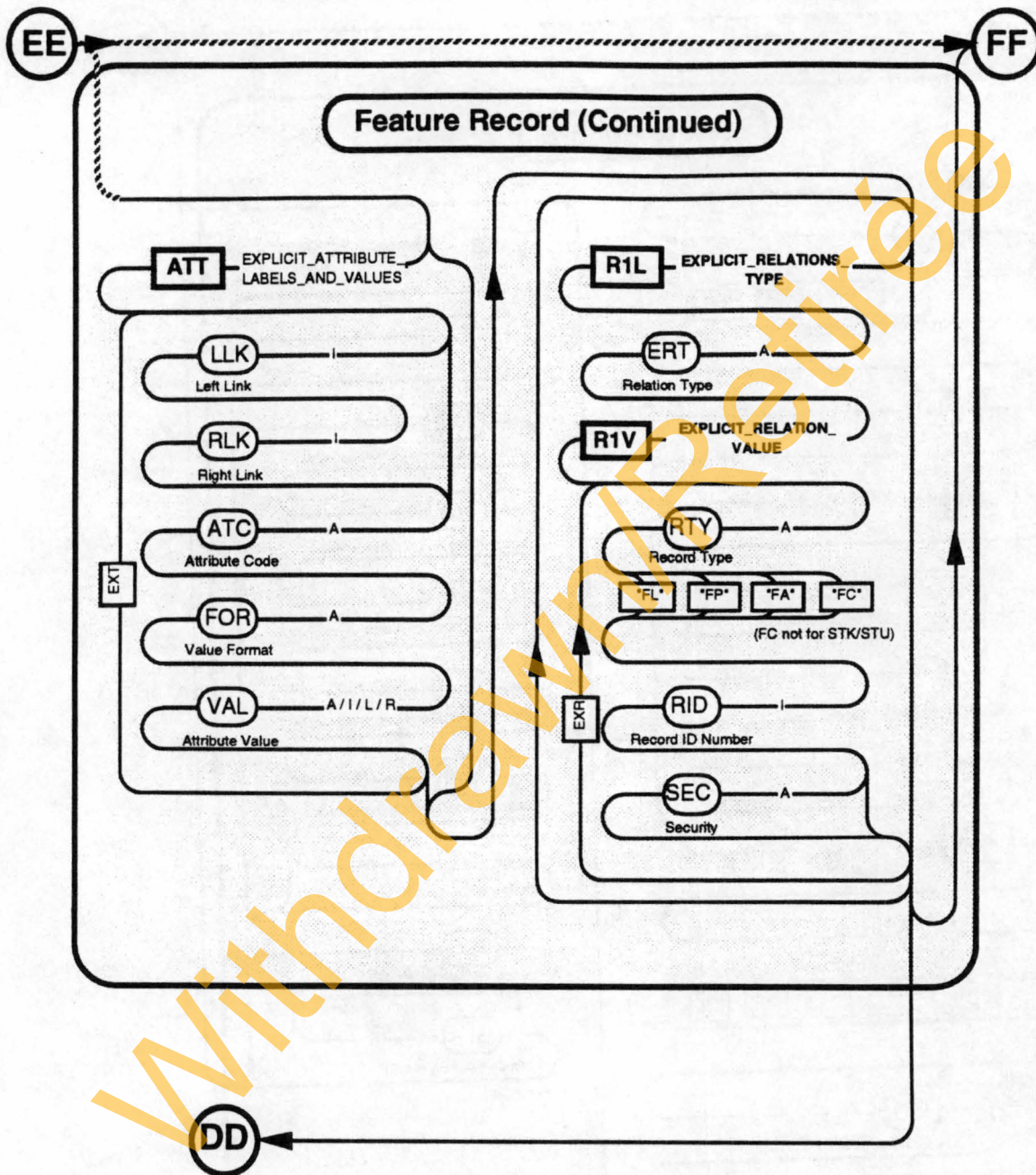




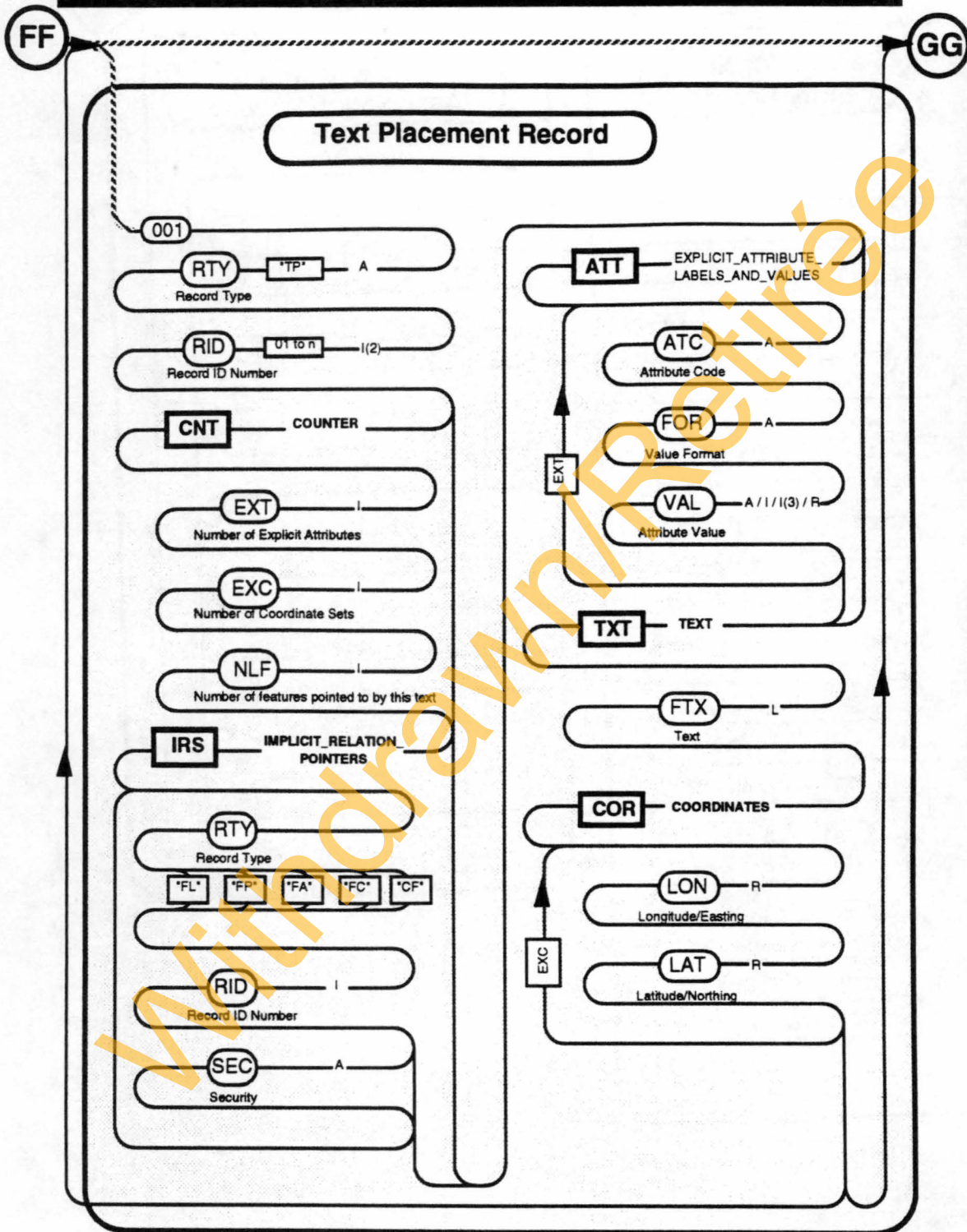
A.3.6 VECTOR GEO DATA FILE (REPEATS)

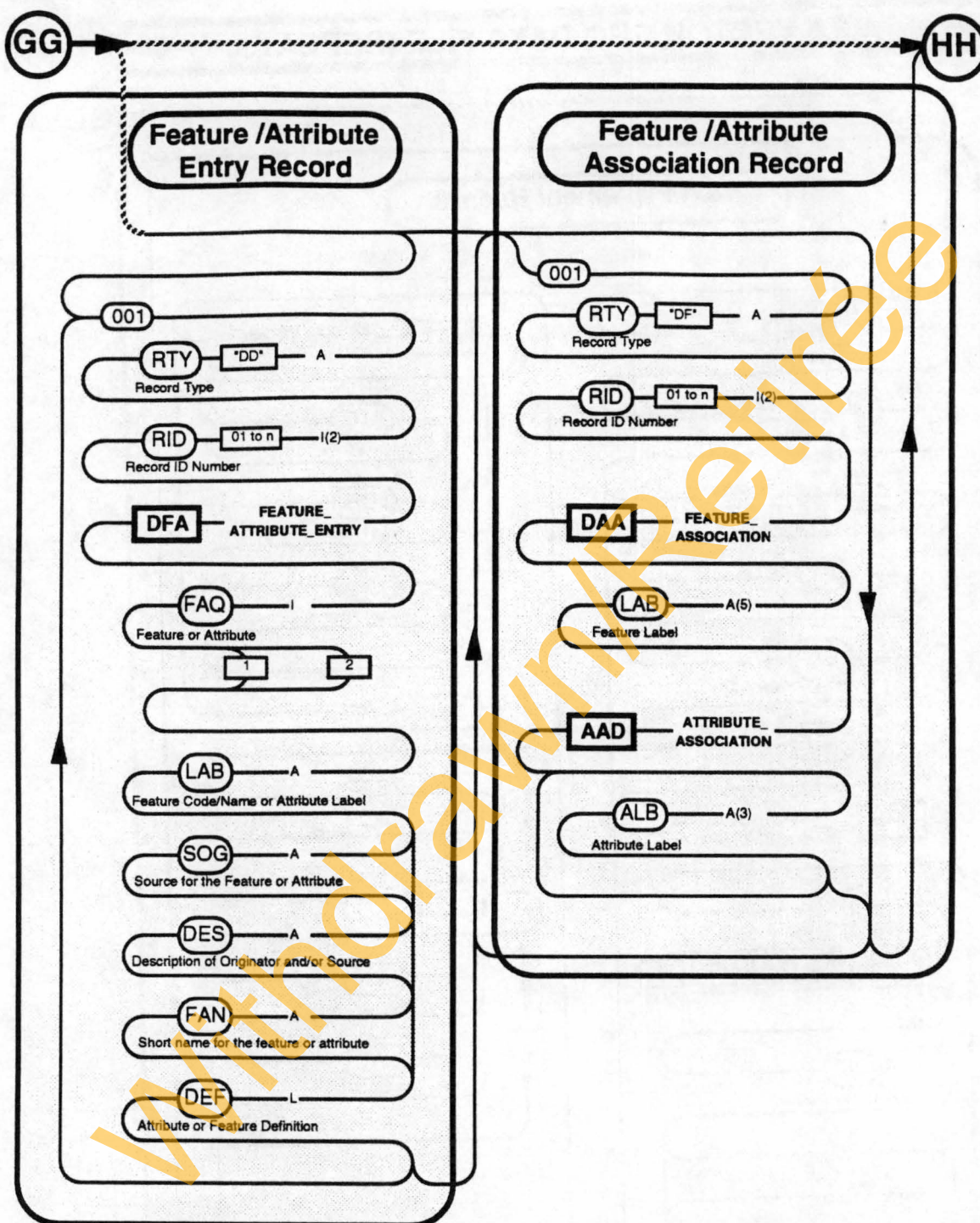


A.3.6 VECTOR GEO DATA FILE (REPEATS)

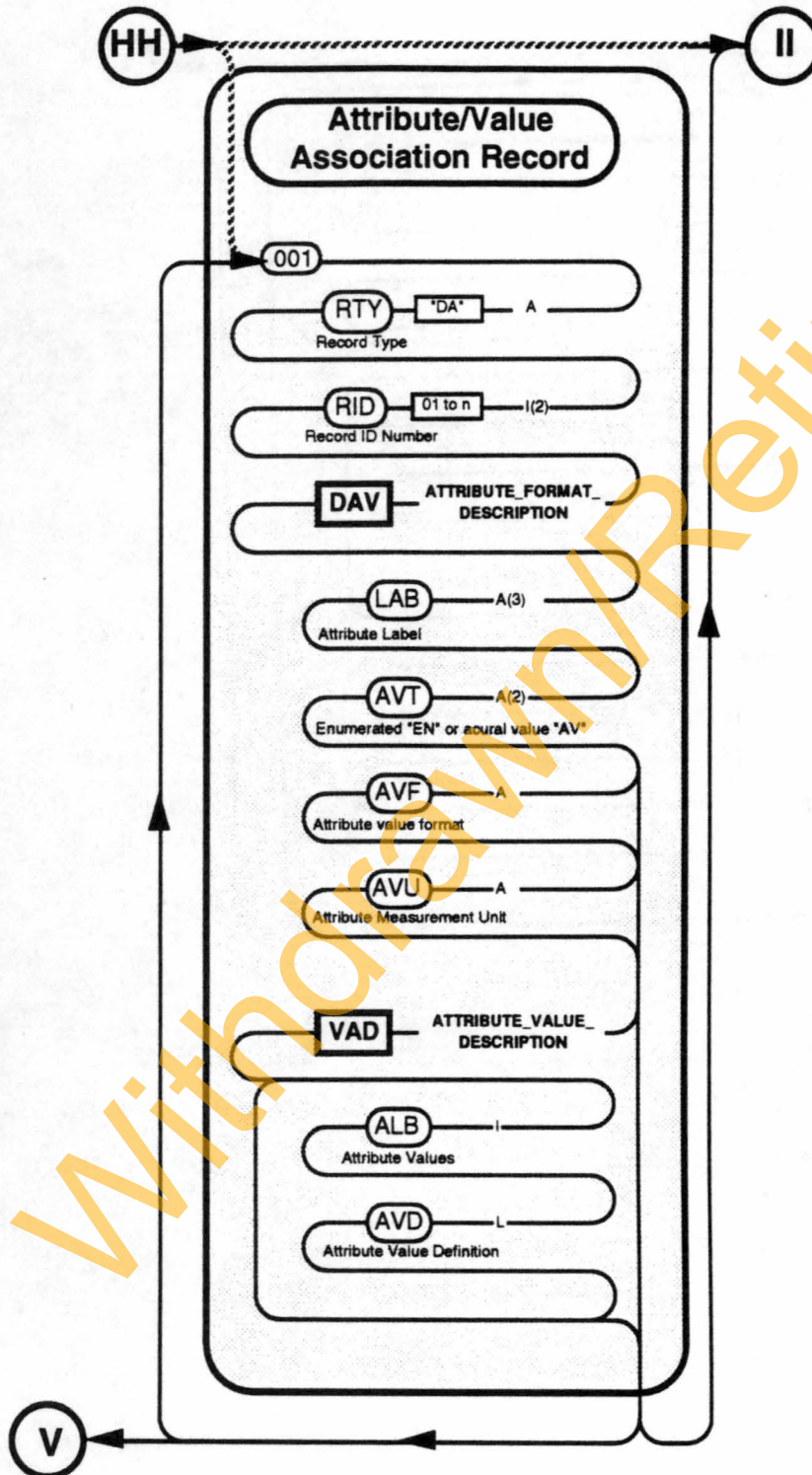


A.3.6 VECTOR GEO DATA FILE (REPEATS)

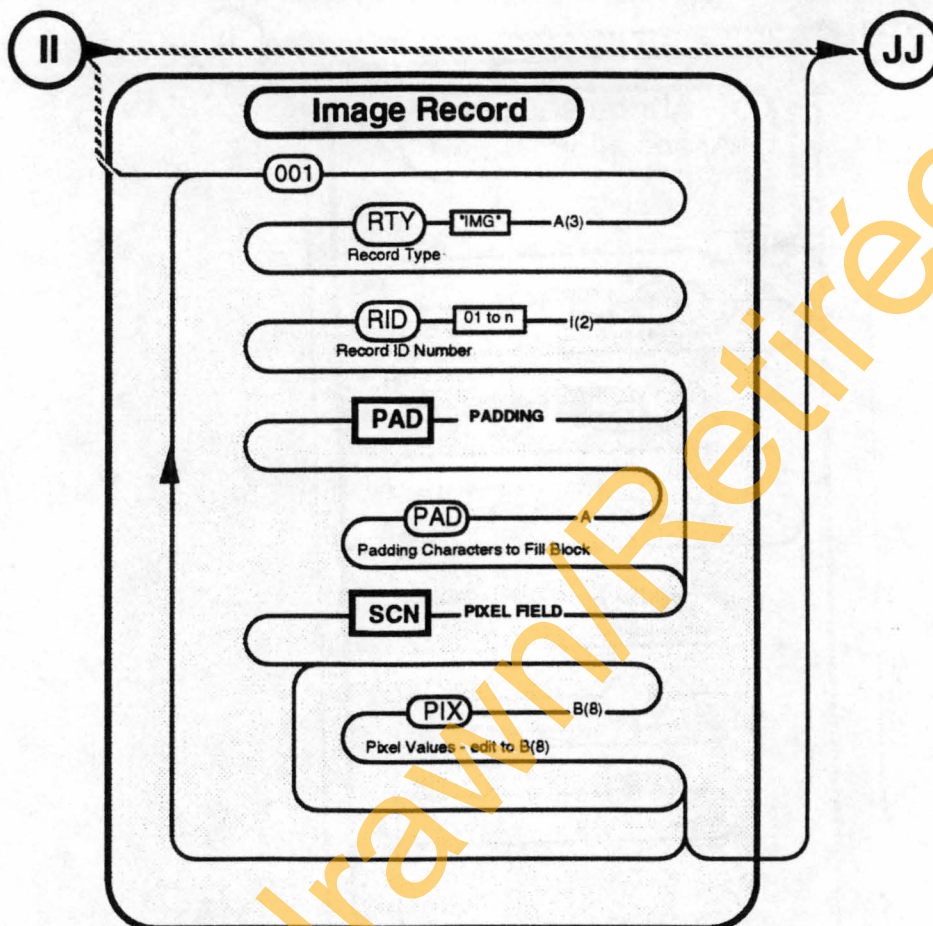




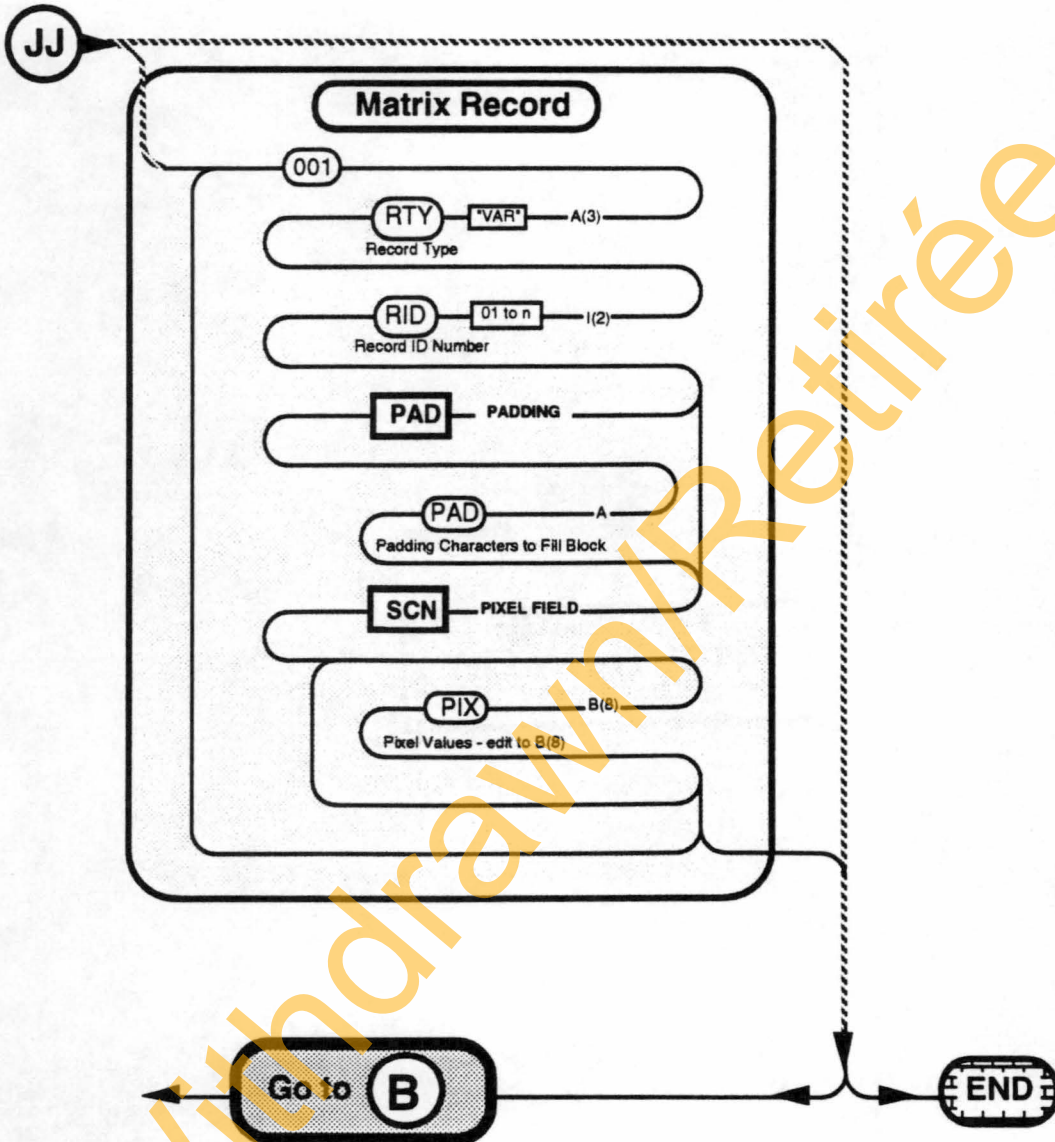
← A.3.6 VECTOR GEO DATA FILE (REPEATS)



A.3.7 RASTER GEO DATA FILE (REPEATS)



A.3.8 MATRIX GEO DATA FILE (REPEATS)



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