Numbering and Lettering
Central Office Equipment
Distributing Frames

(continued)

Contents, continued	Subject	Page

1. General

1.1 Purpose	This practice presents the methods and procedures to use when numbering and lettering the components of all single, double-sided, and modular central office distributing frame types (CDF, IDF, MDF, etc.).
1.2 Filing Instructions	This practice supersedes Issue 3, November 1988. Remove and discard Issue 3 and file this Issue 4 in its place in your practices set.

1. **General,** continued

1.3
Supersedures

This document supersedes the following GTE Practices:

- 244-010-201IL, Numbering and Lettering Central Office Equipment Distributing Frames.

- 244-010-202CA Numbering and Lettering Central Office Equipment Distributing Frames.

1.4
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Responsibility

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1.5
Disclaimer

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2. Overview

**2.1
Typical Labeling
Applications**

It is not possible for this practice to cover all existing situations, so all drawings are to be considered typical. The labeling arrangements should be followed as closely as possible.

**2.2
Definitions**

The term "labels" used in this practice refers to:

- Clear MYLAR*-type labels.
- Embossing tape.
- Pre-printed labels.
- Hand-stamping.

Lettering must be of contrasting background to the surface on which it is applied.

**2.3
References**

For general information regarding the use of lettering and stamping equipment, and embossing tools and materials, refer to the appropriate practice in the 05-222-xxx and 075-223-xxx series of GTE Telephone Operations Practices.

**2.4
Lettering
Systems/Kits**

The following lettering systems/kits are acceptable:

- MERLIN 1370 Lettering System (MC **882756)**

- **MERLIN** EXPRESS@' Lettering System (MC 860317)

- **KROY®** 360 Lettering System (MC 860318 and 860319)

- **DYMO®** 2300 Embossing Kit (MC 575667)

- **DYMO®** 1350 Embossing Kit (MC **634165)**

- NEUSES N-2315 Stencil Kit (MC 575152)

MYLAR is a registered trademark of E. I. DuPont de Nemours Company.
MERLIN EXPRESS is a registered trademark of Varitronics.
KROY is a registered trademark of Varitronics.
DYMO is a registered trademark of Dymo Visual Systems, Incorporated.

3. Distributing Frame Labeling

3.1
Upright Labeling

The purpose of distributing frame labeling requirements for all frames **is** to identify uprights on both the horizontal and vertical sides of the frame with numeric 3/4-inch labels.

Uprights:	Must be Identified:
On the vertical side of the frame	- Numerically. - On the guard rail. - Beginning with vertical 1 or 01. - At a minimum of every five verticals.
On the horizontal side of the frame	- Numerically. - Beginning with vertical 1 or 01. - At a minimum of every five verticals on the horizontal guard rail. - At every tenth vertical at approximately eye level (level G). - At four shelf/level increments for other higher levels (such as L or R), when taller frames requiring rolling ladders are required.

Refer to Exhibits 4 and 28.

NOTE: Modular type distributing frames and equipment numbering/ lettering may differ based on manufacturer and engineering standards. Refer to paragraph 3.4.

3.2
Shelf/Level
Labeling

Label shelf/levels with alphanumeric 3/4-inch labels on horizontal and vertical sides of distributing frames:

- On every tenth vertical (at a minimum) directly above the traverse arm for the shelf.

   AND

- On both end guards (fixed and growth end).

Refer to Exhibit 1.

NOTE: Modular type distributing frames and equipment numbering/ lettering may differ based on manufacturer and engineering standards. Refer to paragraph 3.4.

3. Distributing Frame Labeling, continued

**3.3
Distributing
Frame
Identification**

Using 3/4-inch labels, apply the identification **name** of the distributing frame (all types) to the guard rail on both the vertical and horizontal sides of the frame at the first vertical.

The alpha-numeric labels must be in accordance with the site floor plan drawing and cable specification. Both documents should agree. If **not,** contact **your site engineer** for clarification.

**3.4
Sylvania Modular
Frame System**

Designate each module properly, as depicted on the site specific distributing frame job drawings. Place labeling above and below each module (see Exhibits 27-28). Label (1 through 11) each horizontal block position on the first and last vertical module position of each module group (see Exhibit 29). Identification appears on both sides of the frame.

Place terminal block identification labels on the vertical wire troughs per the site specific distributing frame drawings.

NOTE: **Be consistent in label usage throughout the office.**

Terminal blocks are color-coded according to the following chart.

TYPE	COLOR
HIDs	Yellow
Special Circuits	**Red**
CXR Circuits	**Green**
VF Repeaters, **Loop Ext.**	**Gray**
Cable Pairs	**Blue**
Tie Cables	**White**

4. Protectors

**4.1
Labeling**

Using 3/8-inch labels or 1/4-inch stenciling, label the protectors to reflect the cable **number and the beginning and end counts for the pairs. Refer** to Exhibits 2-3.

NOTE: **Be consistent in label usage throughout the office.**

Most protectors have a designated location for this information. The starting count will normally be applied to the front top of the protector. Apply the cable number and the beginning **and end cable count in a visible location below the protection modules.**

Using 3/8-inch labels on the guard **rails, apply the cable number assignment and end counts for the pairs. Refer to Exhibit 4.**

5. Terminal Blocks

**5.1
Job Drawing
Information**

Before marking the surface of terminal blocks and pins, obtain the following documents:

- Circuit drawing.
- Terminal block layout job drawing.
- Engineering Configuration Documents (ECDs) (if applicable).
- Distributing frame layout job drawing.

Refer to Exhibits 6-26 for examples of typical terminal block stenciling.

On the front of distributing frame terminal blocks, identify the information specified **for each block on the terminal block layout job drawings; e.g.,** JD-XXXXX-CDFL.

**5.2
Preprinted
Labels**

In some cases, printed labels are provided to apply terminal blocks for proper circuit identification. If printed labels are not provided, mark the information (including figure designation) specified for each block per the terminal block layout job drawing (see Exhibits 6-26) on the installer side of the blocks.

**5.3
Labeling**

When labels are not provided, use standard size (depending on space limitations) letters and numbers to mark the face of the blocks.

Follow these guidelines when labeling (stenciling blocks):

- Use standard character sizes for labeling. Standard sizes are:

  - 1/8-inch for pin/terminal identification (Exhibits 7.9, 10, 12, 14-25).

  - 1/4- ,3/8-, or 3/16-inch for circuit numbering information on fanning strips (Exhibits 7, 9-26).

  - 1/2- or 3/8-inch for frame/rack identification on the block or fanning strip (Exhibits 9-11).

- Place labels or stenciling on the outside of the pin guards/covers for blocks, using 5/16- 1/4-, or 3/16-inch characters, based on descending levels of information (Exhibit 6).

- If possible, maintain uniformity in size and color of characters throughout the office.

- When terminal block pin/group identification is not displayed, mark every fifth pin tip (using red ink) in the vertical and horizontal directions of each block that will be wired. The marks will make pin location easier during the wiring operation.

- Identify miscellaneous blocks that are too complicated to stencil with 3/8-inch labels. Refer to applicable documentation, when appropriate; e.g., ECD 1700XX-XX, Figure XX, JD-XXXXX-CDFT, etc.

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6. Frame Lighting Control Panel, Receptacles, and Switches

6.1
Labeling

When used, label the frame lighting control panel with 3/8-inch labels, as shown in Exhibit 5.

Label lights and receptacles according to instructions provided in GTE Telephone Operations Practice 244-251-200.
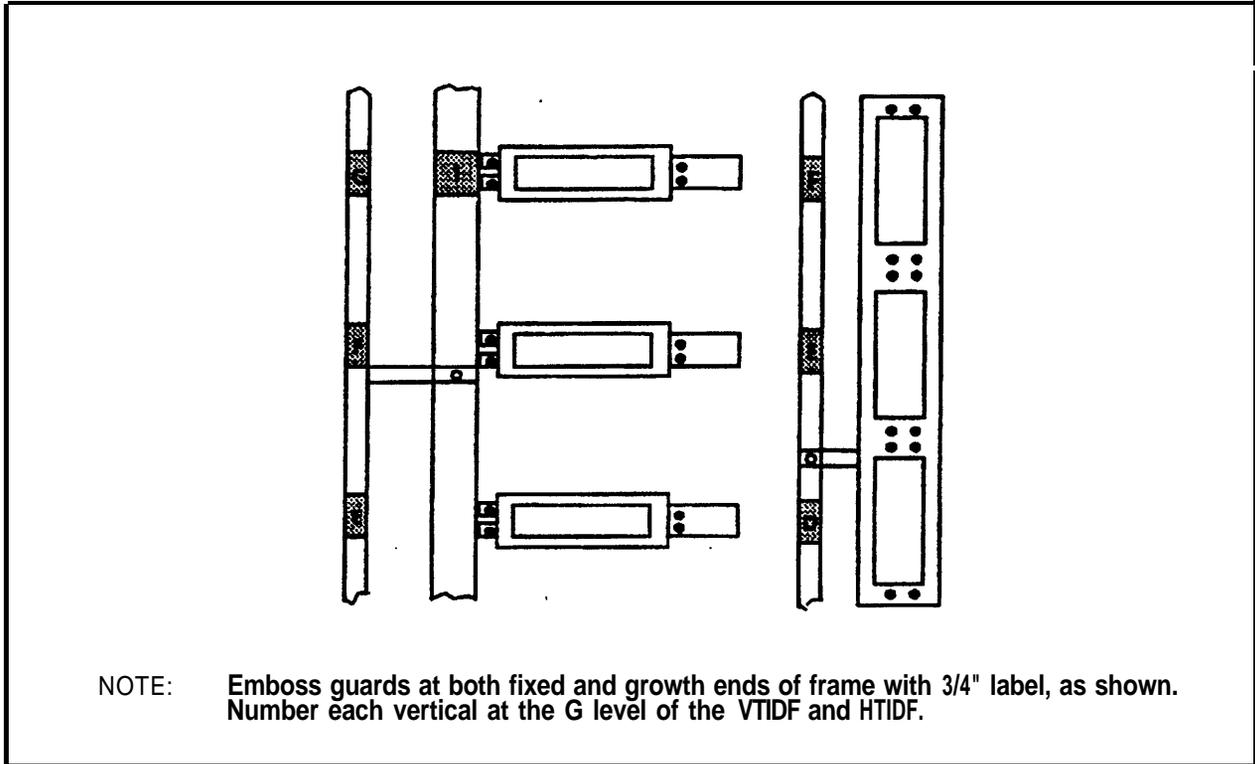
Exhibits

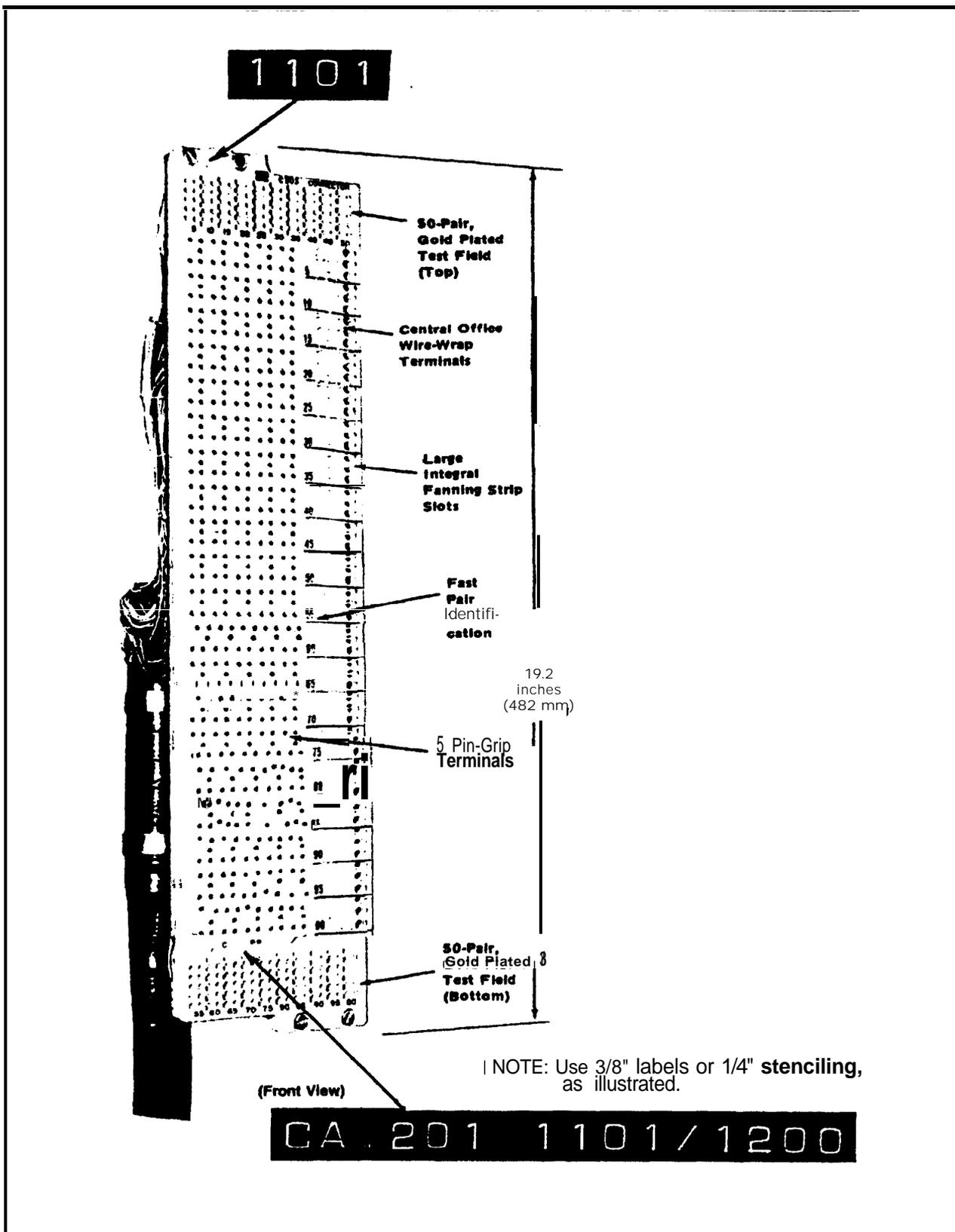NOTE: **Emboss guards at both fixed and growth ends of frame with 3/4" label, as shown.
Number each vertical at the G level of the VTIDF and HTIDF.**

Exhibit 1 – Frame End-Guard Embossing

1101

- **SO-Pair, Gold Plated Test Field (Top)**
- **Central Office Wire-Wrap Terminals**
- **Large Integral Fanning Strip Slots**
- **Fast Pair** Identification
- 19.2 inches (482 mm)
- 5 Pin-Grip **Terminals**
- **SO-Pair, Gold Plated Test Field (Bottom)**

(Front View)

I NOTE: Use 3/8" labels or 1/4" **stenciling,** as illustrated.

CA.201   1101/1200

Exhibit 2- Type C-303 Protector Method of Embossing
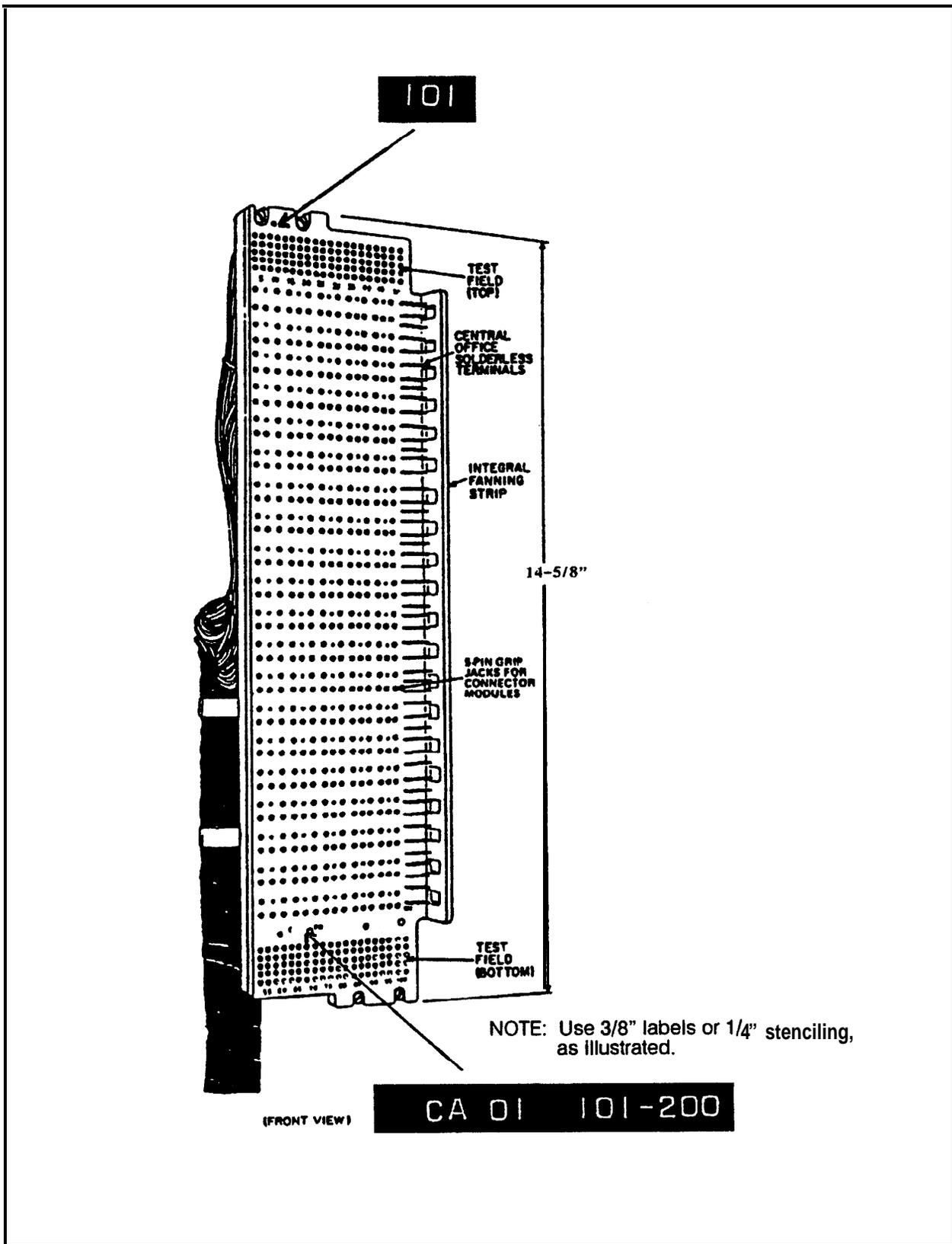
Exhibit 3 – Type C-310 Protector Method of Embossing

Exhibits, continued
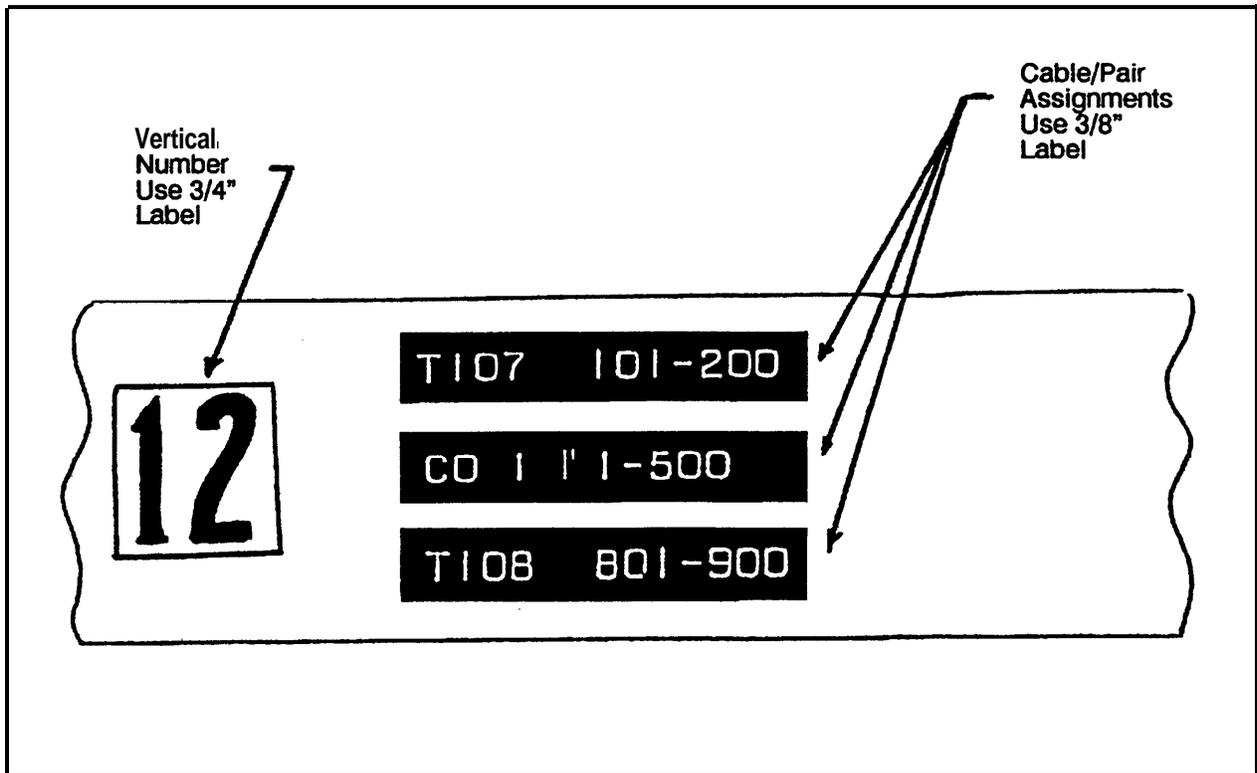
Exhibit 4 – Guard Rail
Vertical Cable Pair Assignments and Vertical Number Identification

NOTE: Use 3/8" labels, as illustrated
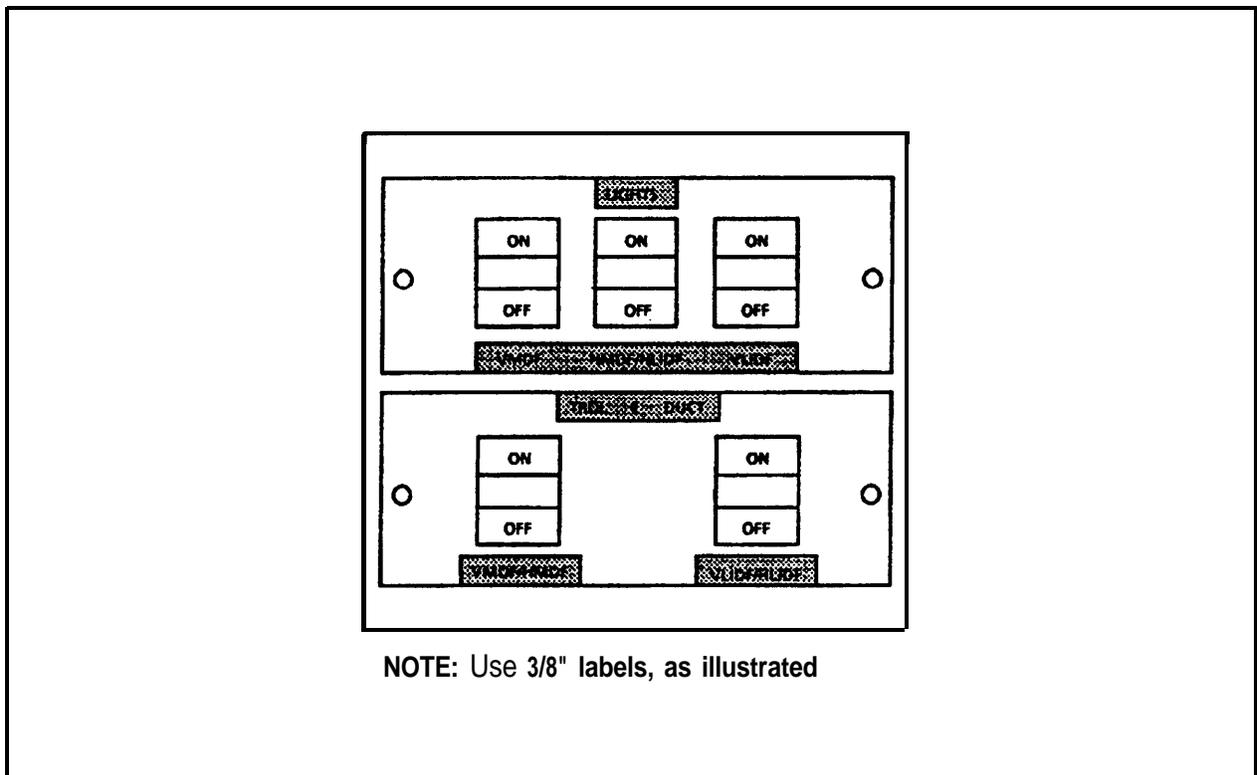
Exhibit 5 – Frame Lighting Control Panel

Terminal Guard

1/4" Character Sizes

3/16" Character Sizes

Terminal Block Cover

ALUF 100   EC D 17004-001   FIG.L1-D

ALU 0 FILE T   HID 01/1.3.2.YY.ZZ

Exhibit 6A

Character Sizes:

Terminal Block Cover

LINE EQUIPMENT

SSSF____ SLU____ FILE____

ECD-017004-006   FIG. EO4A

08X24   H.ID: -_   -   _-YY.Z

5-1 6"

1/4"

3/1 6"

Label size not to exceed 2-1/2" x 4"
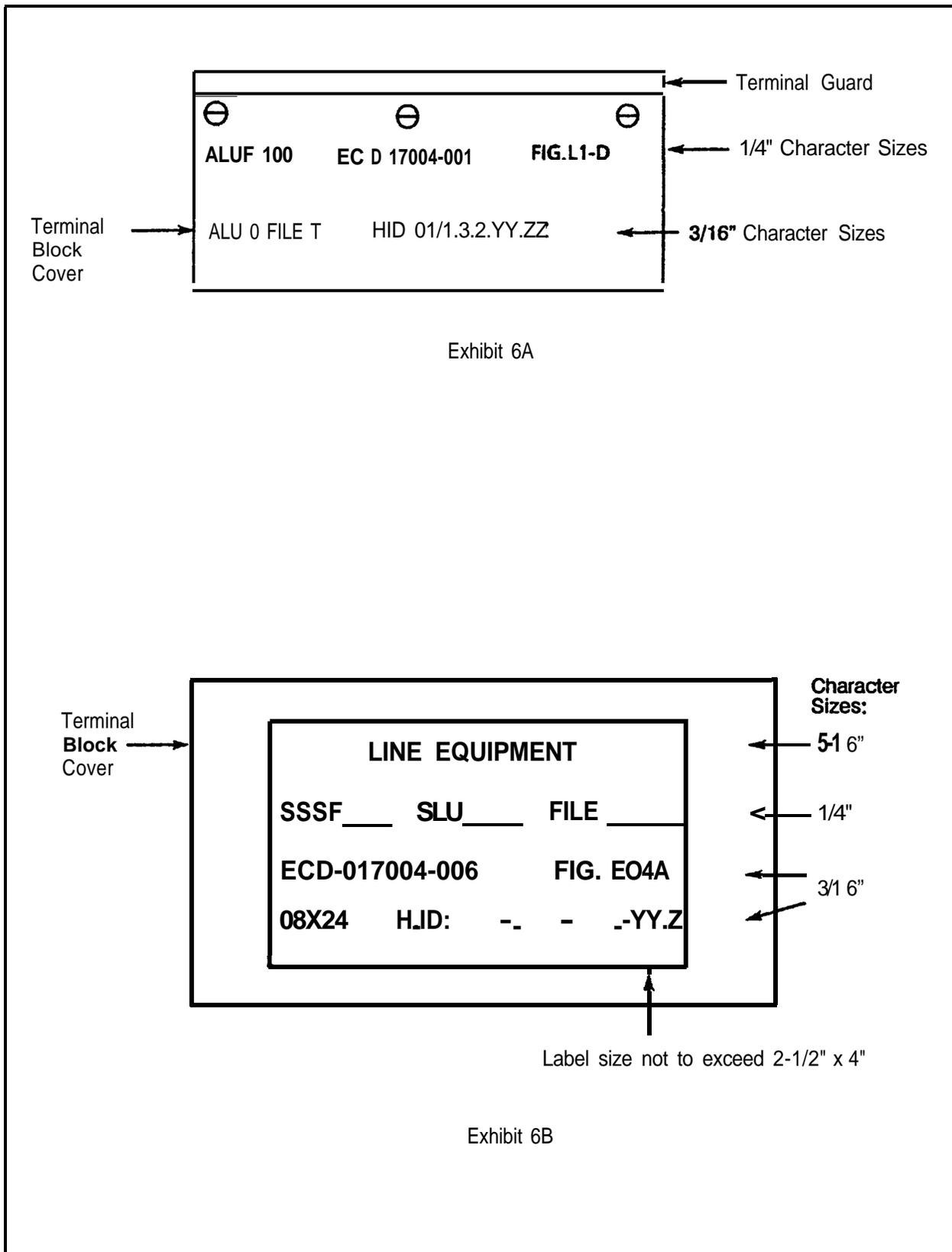
Exhibit 6B

Exhibit 6 – Typical GTD-5 EAX Terminal Block Cover Labeling

Exhibits, continued

1/8" **HEIGHT** CHARACTERS

1/4" OR 3/8"
HEIGHT
CHARACTERS

TERMINAL
BLOCK
EASE

TERMINAL
GUARD

T   R   T   R   T   R   T   R

UNE CARD AND CIRCUIT

ELU MODULE NUMBER
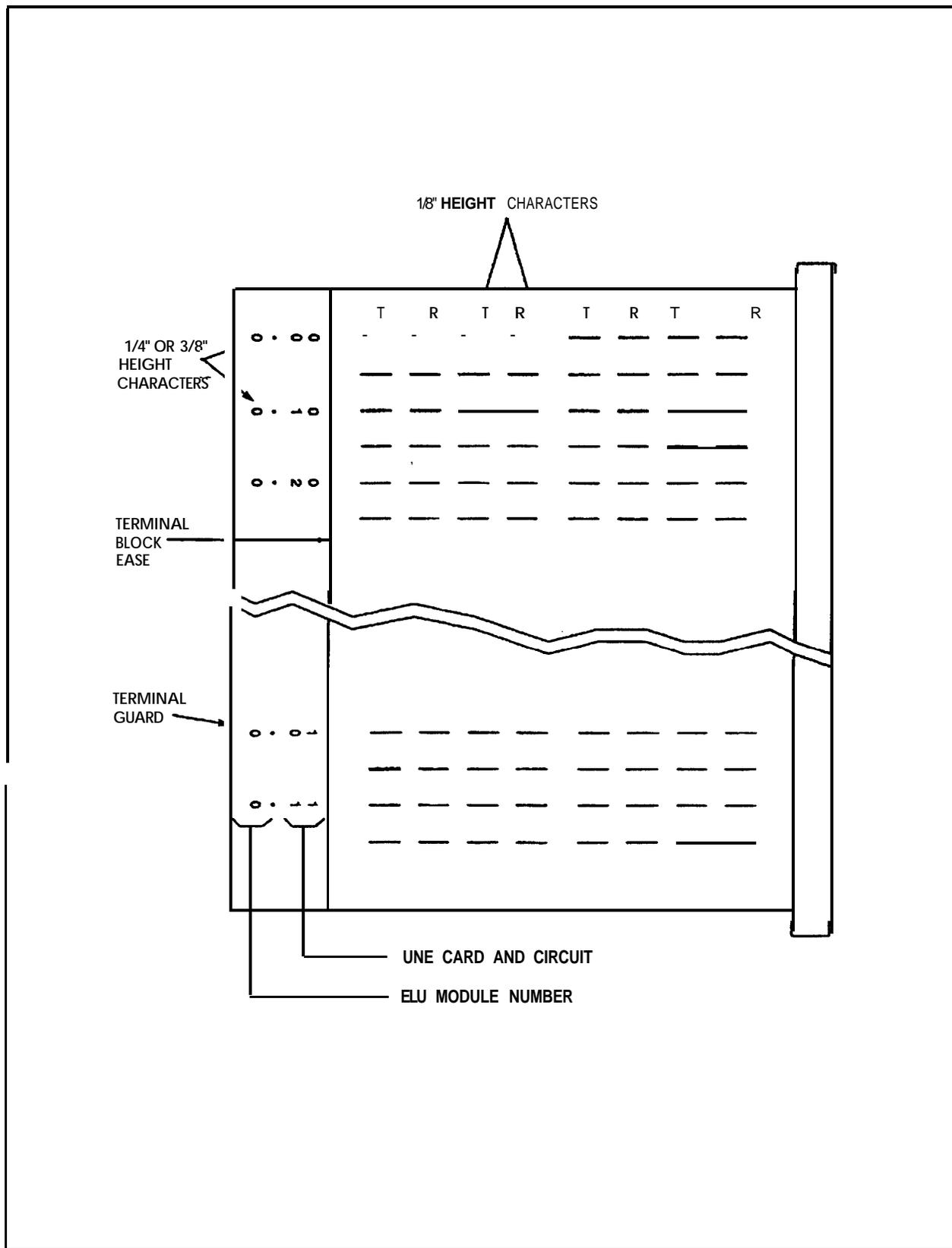
Exhibit 7 – Typical GTD-5 EAX Terminal Block labeling

r ALUF ———— ECD 17004-001-FIG. ——————— 1
                                              Y.Z.

L ALU ——— FILE ——————— H.ID —— • —— • — - • ⌐

r ATUF ———— ECD 017004-001-FIG. ——————— **1**
                                               Y.Z.

L ATU ——— FILE ——————— H.ID — • — • — • J
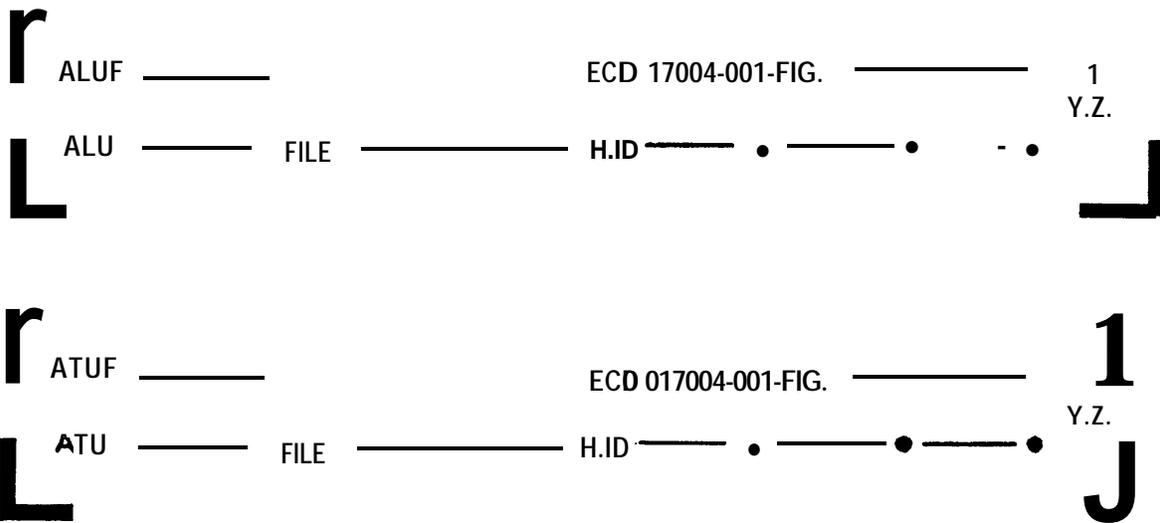
Exhibit 8A

+--+
| GTD-5 EAX LINE BLOCK |
+--+
| ELMF 002   H.ID 00.2.01.YY.Z |
| ELU 01   FILE A ECD 17004-006 FIG E03A |
| |
+--+

+--+
| GTD-5 EAX TRUNK BLOCK |
+--+
| ATUF 020/030   H.ID 02.0.00.YY.Z |
| ATU 00 FILE T   ECD 17004-002 FIG T11 |
| |
+--+

Exhibit 8B

Exhibit 8 – Typical GTD-5 EAX Terminal Block Label on Front of Block

Exhibits, continued
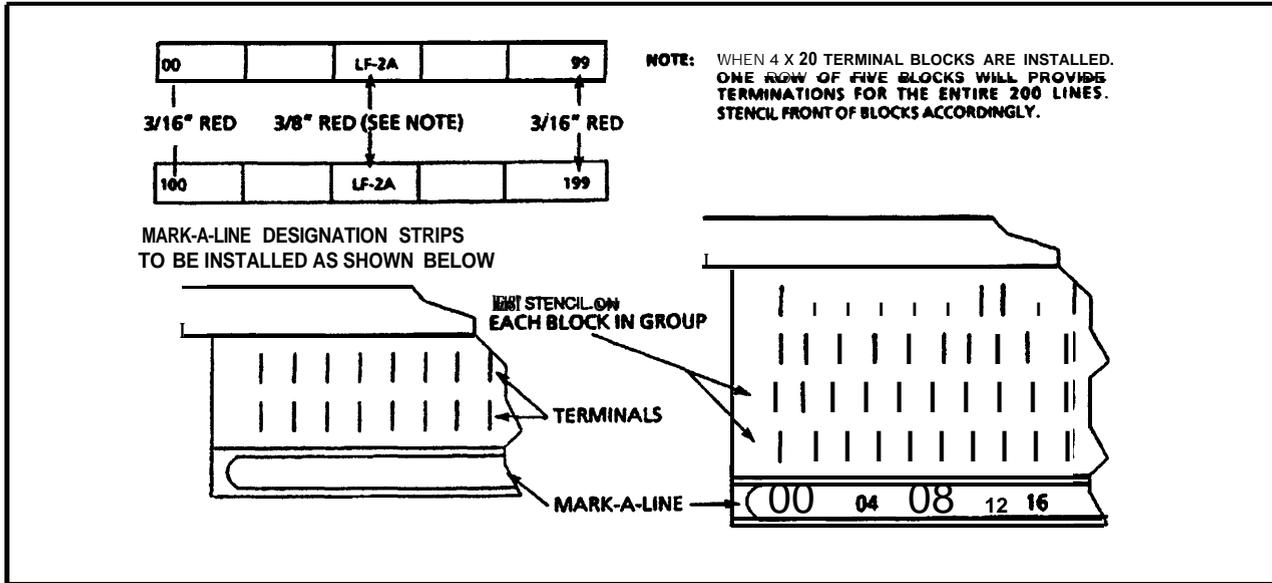
**Exhibit 9 – HMDF Line Blocks.
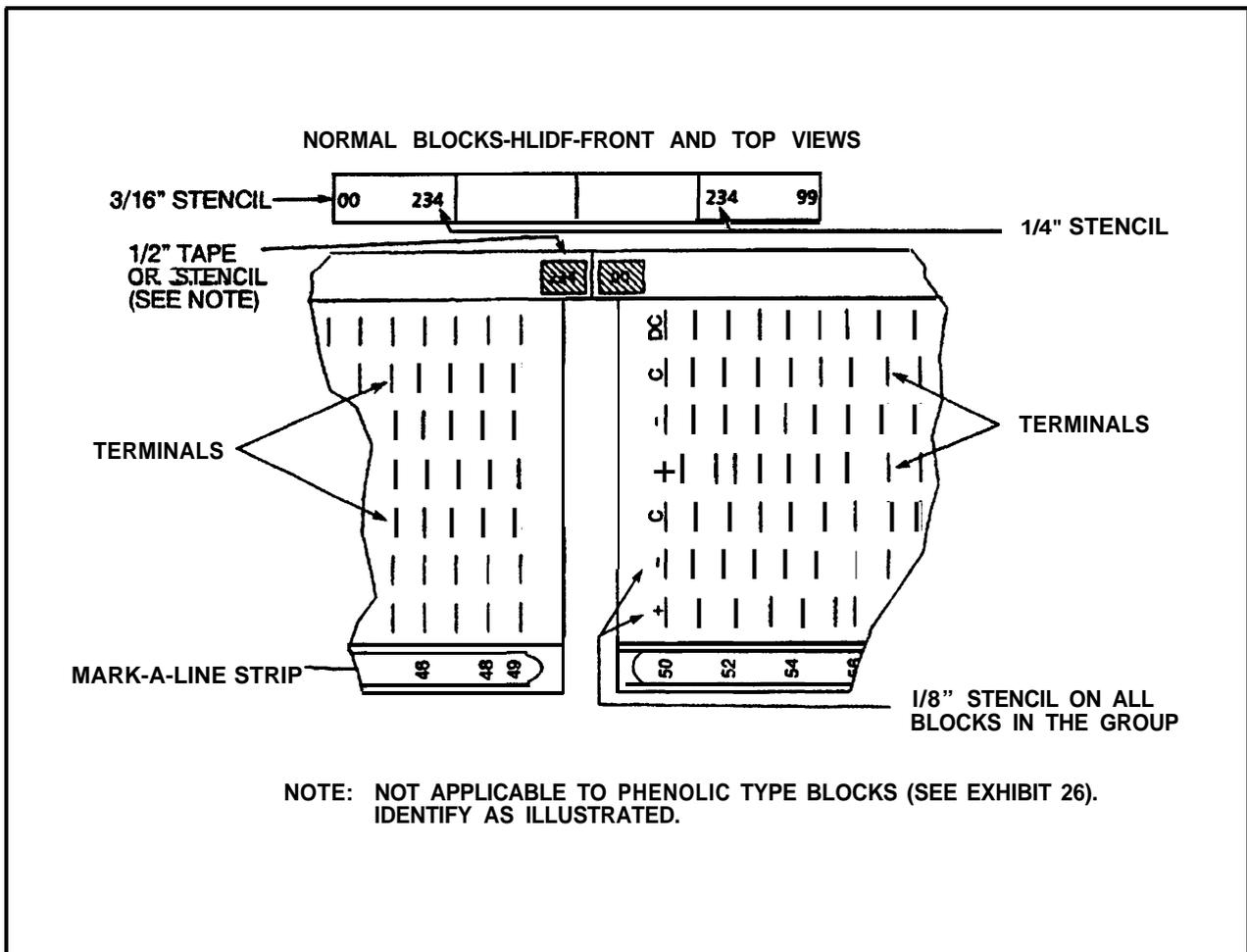CMC Mark-A-Line Designation Strips to be Used on All Blocks**
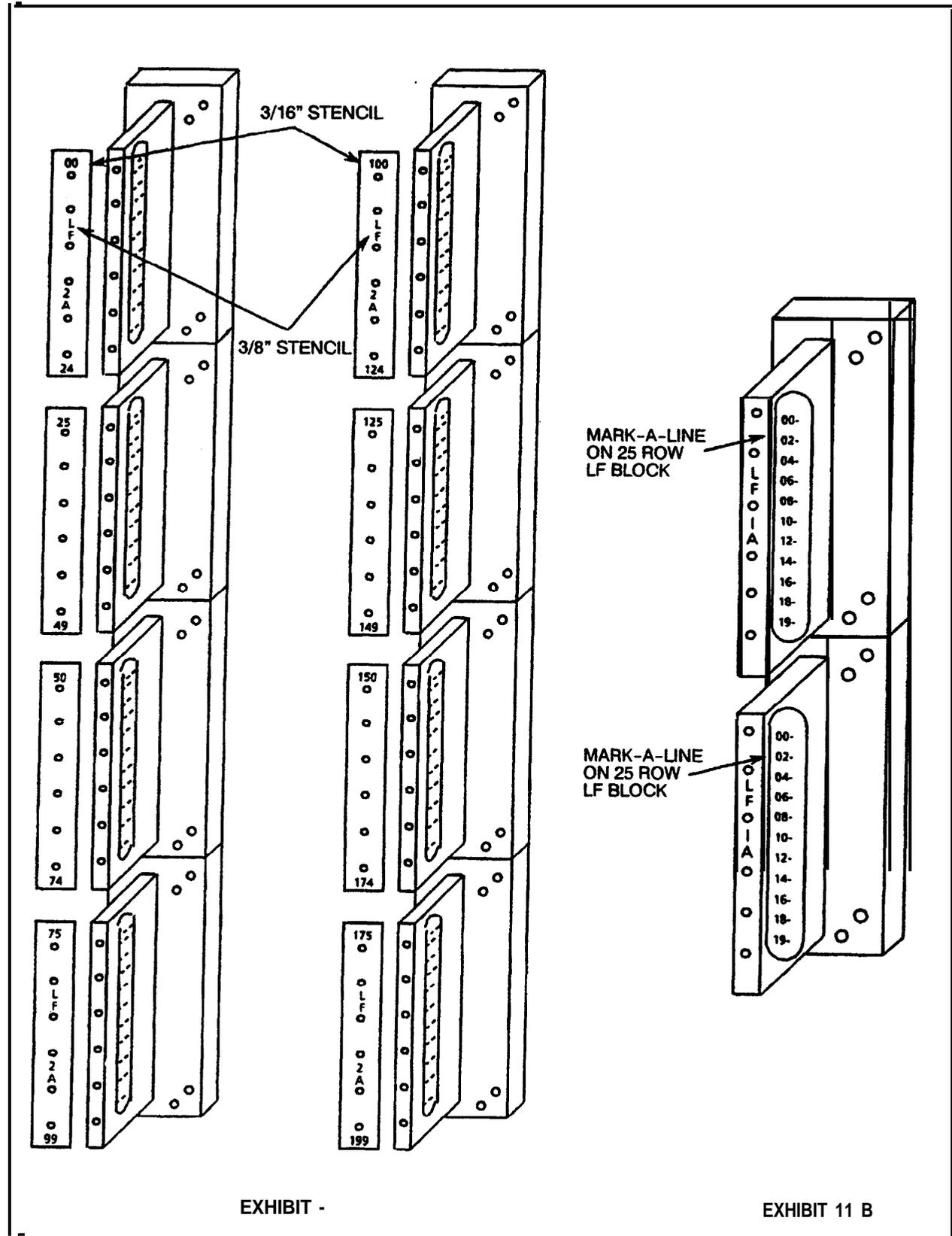

Exhibit 10 – HLIF Normal Blocks

3/16" STENCIL

3/8" STENCIL

MARK-A-LINE
ON 25 ROW
LF BLOCK

MARK-A-LINE
ON 25 ROW
LF BLOCK

EXHIBIT -

EXHIBIT 11 B

Exhibit 11 -Linefinder Blocks

X BLOCKS - VLIDF - FRONT AND SIDE VIEWS

3/16"
STENCIL

1201

1202

- - - - - -
- B - m - -
w e - - e -
- - - - - -
- - - - - -
- a - - - -
- - - - - -

1203

1204

1 /8" TERMINALS

3/1 6" BLACK STENCIL

1205 STRIPE

1206

1207

BLACK STRIPE

1208

FRONT   SIDE

Exhibit 12 – VLIDF "X" (Bunching) Blocks

IF INSUFFICIENT SPACE
EXISTS FOR STENCILING AT
END OF BLOCK DUE TO
INDENTIFICATTION, STENCIL AT
LOCATION SHOWN.

100

1/4" STENCIL

AREA USUALLY USED FOR STENCIL

INDENTATION CAUSED BY
BAKOLITE BREAK MOLD

Exhibit 13 – Identifying Molded Plastic Terminal Blocks

MISCELLANEOUS DISTRIBUTING FRAME TERMINAL BLOCKS

Exhibit 14 - Long Line Terminations
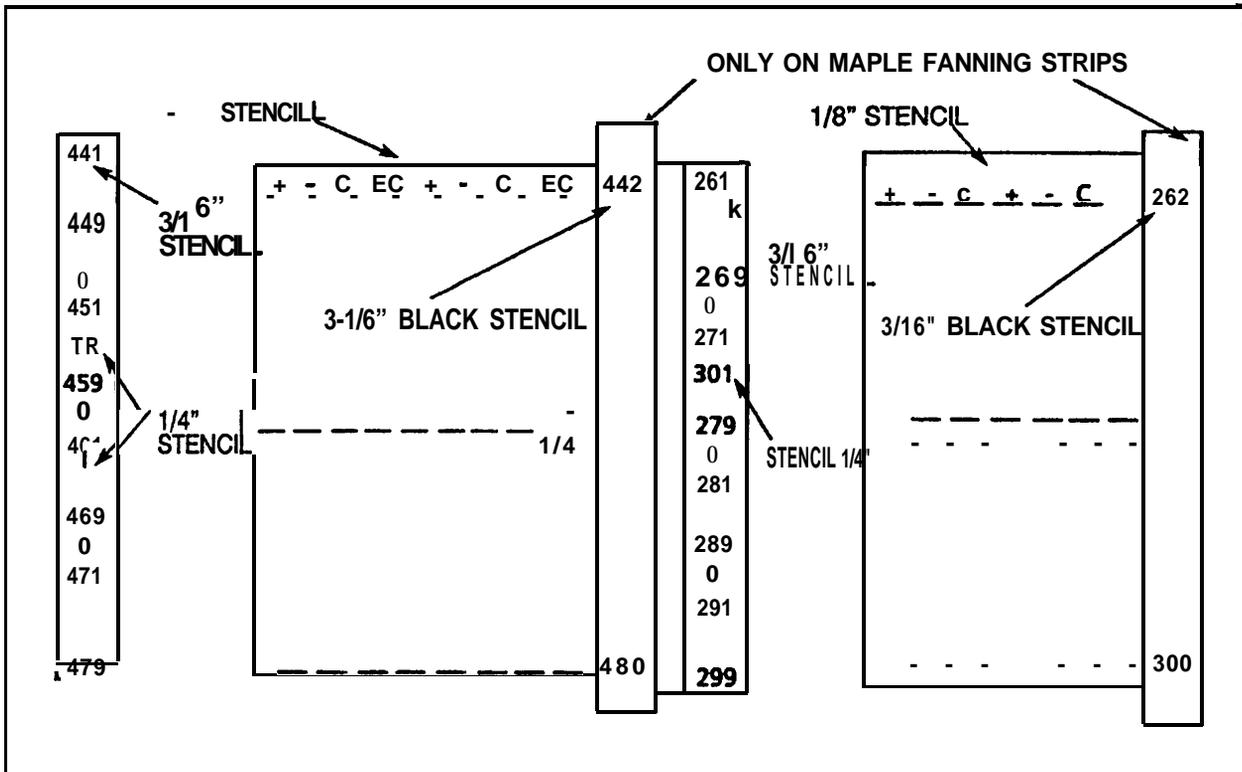
Exhibit 15 – TIDF Selector DTA Terminations
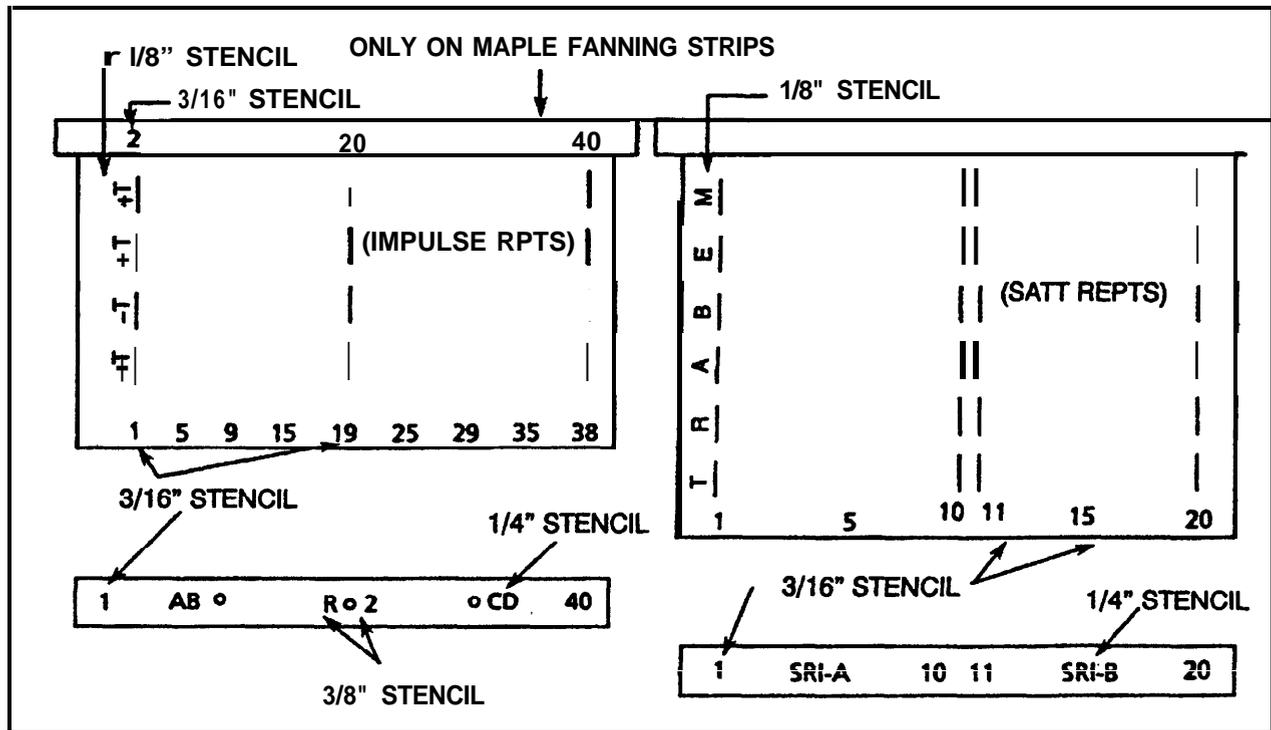
Exhibit 16 – Repeater Terminations

NOTE: HTIDF ROTS TERMINATIONS SHOULD BE
IDENTIFIED ON THE BLOCK FACE AS "JACKS"
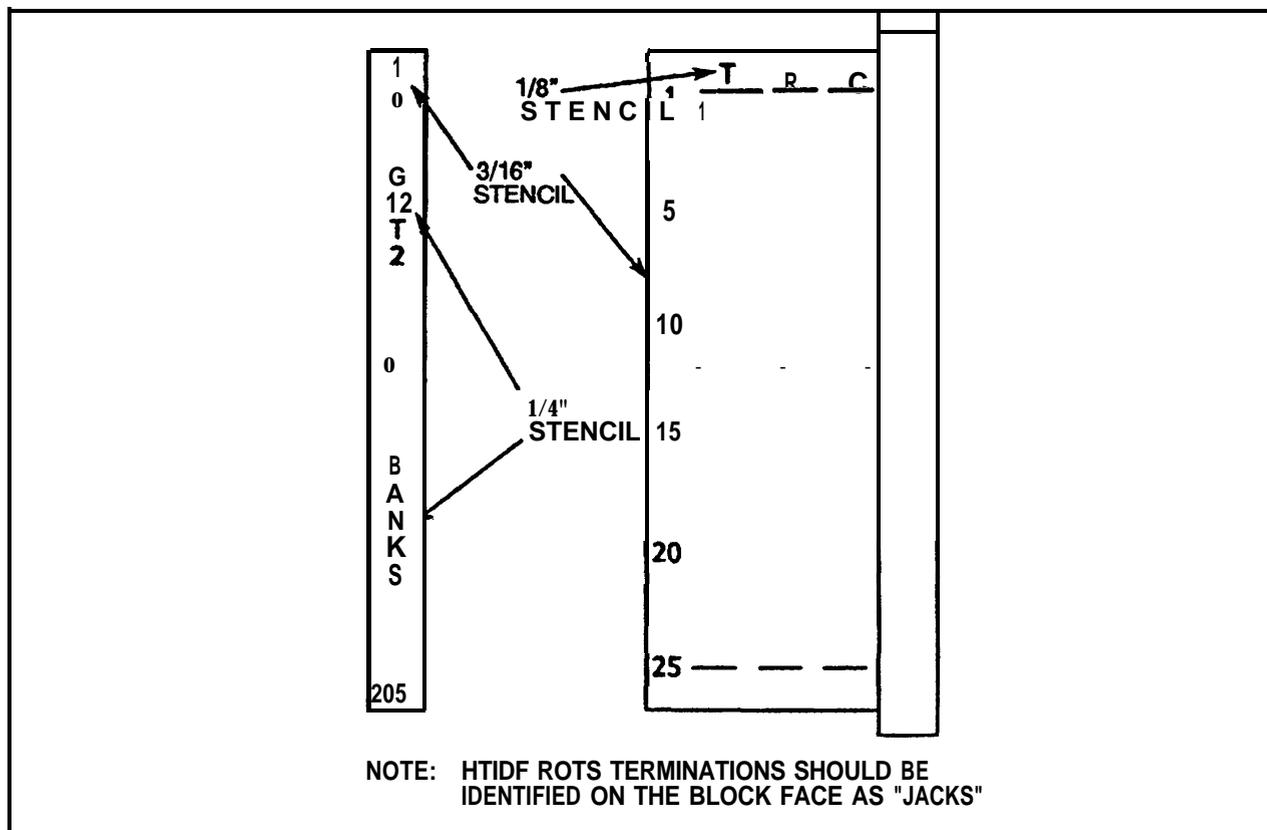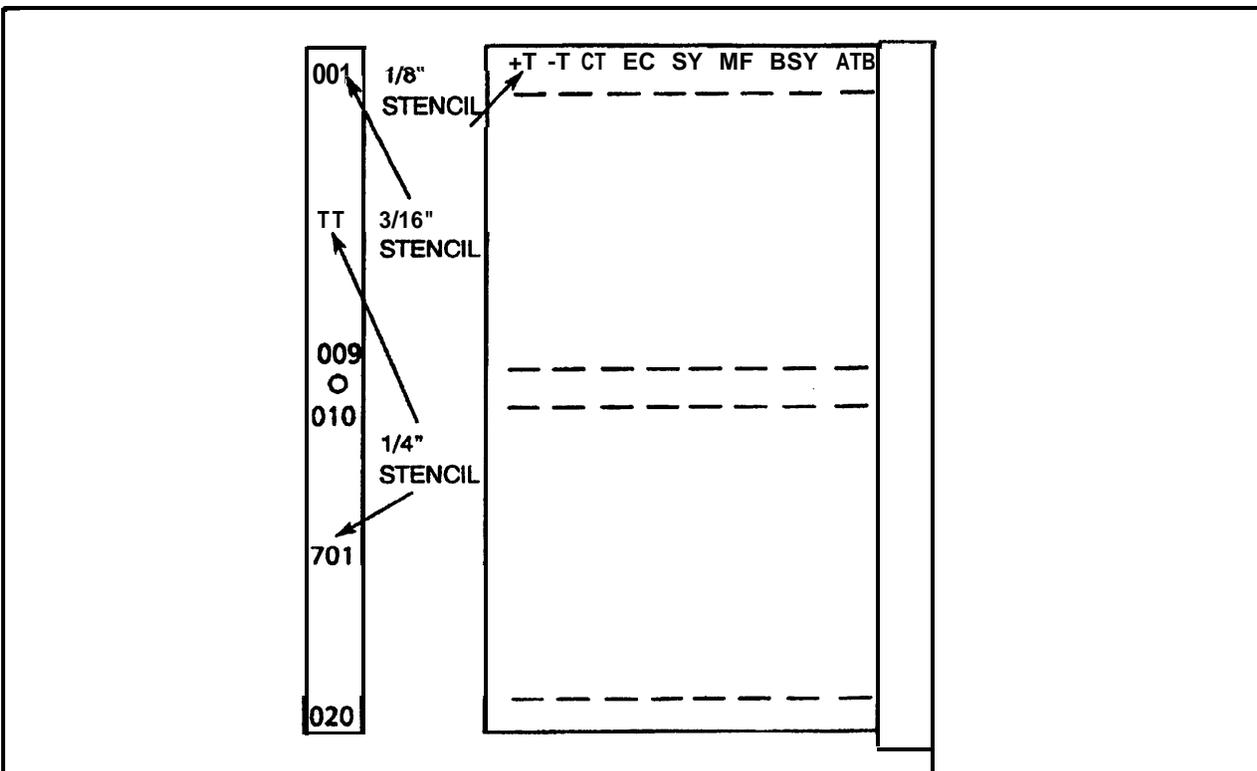
Exhibit 17 – ROTS Termination (VTIDF)
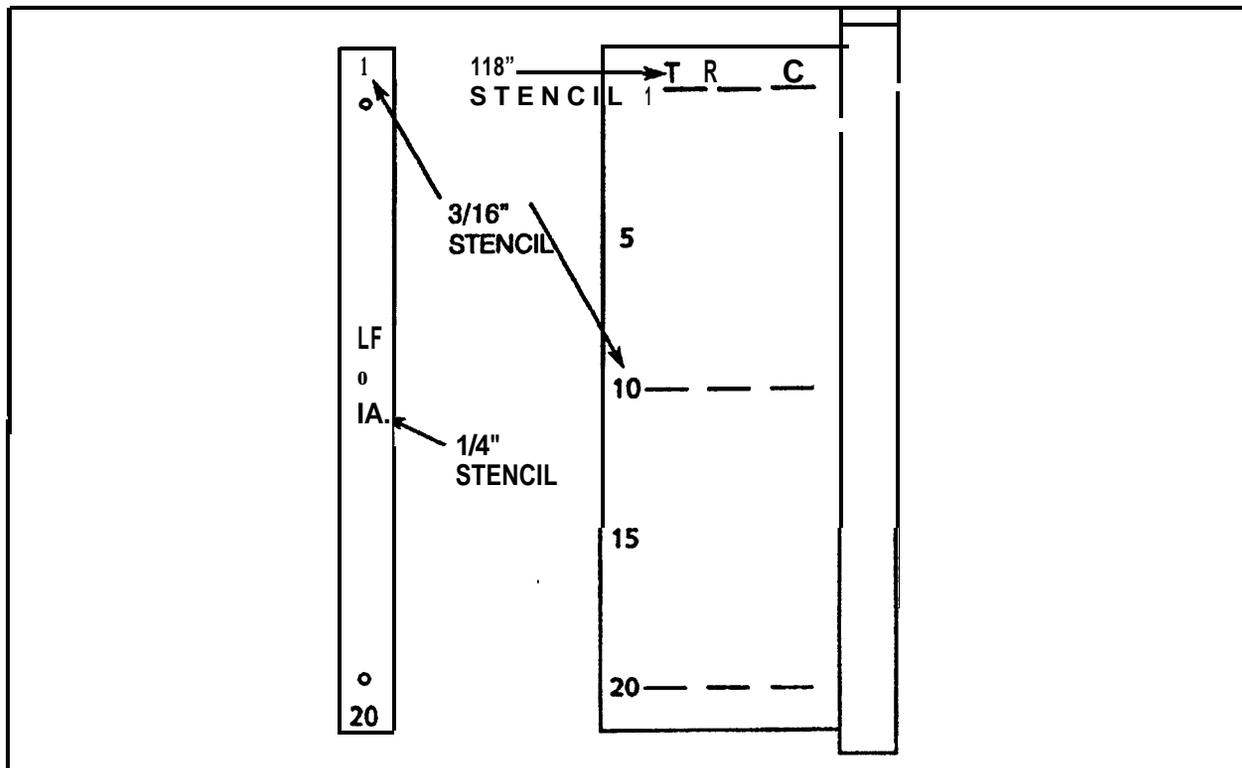
Exhibit 18 – Linefinder Jacks (VLFIDF)
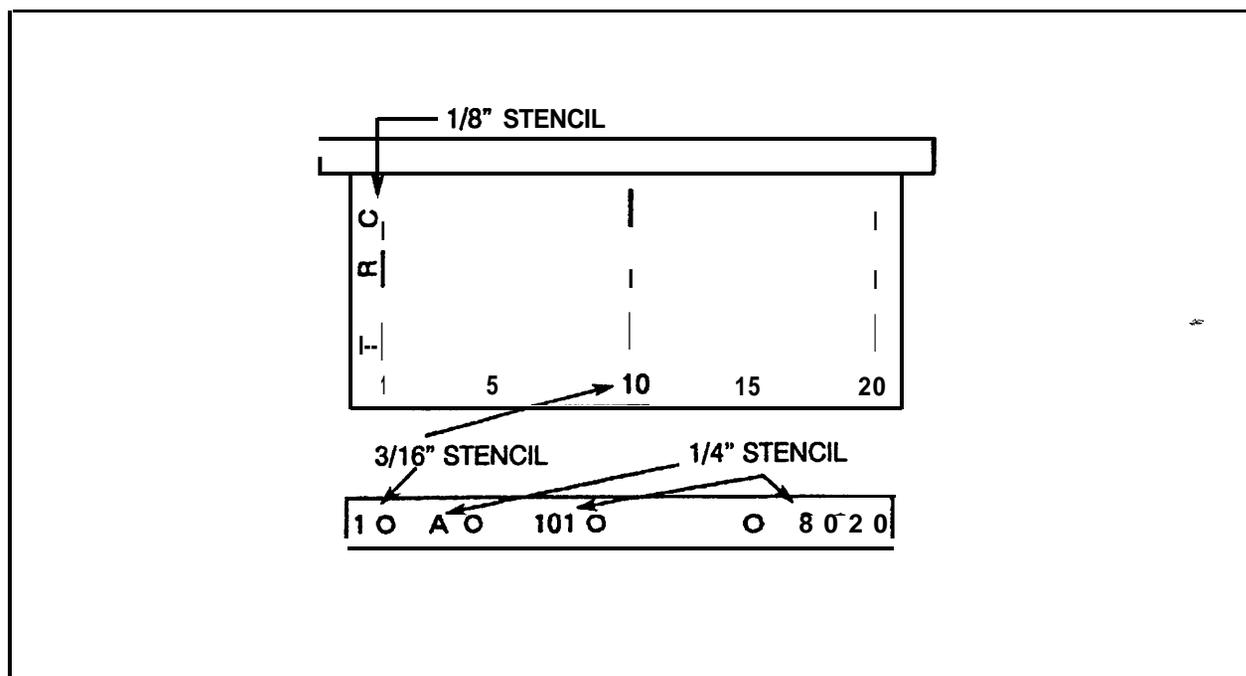
Exhibit 19 – Selector Jacks (HLFIDF)

ONLY ON MAPLE FANNING STRIPS

1/8" STENCIL

3/1 6" STENCIL

--3/l 6" STENCIL--

1/4" STENCIL
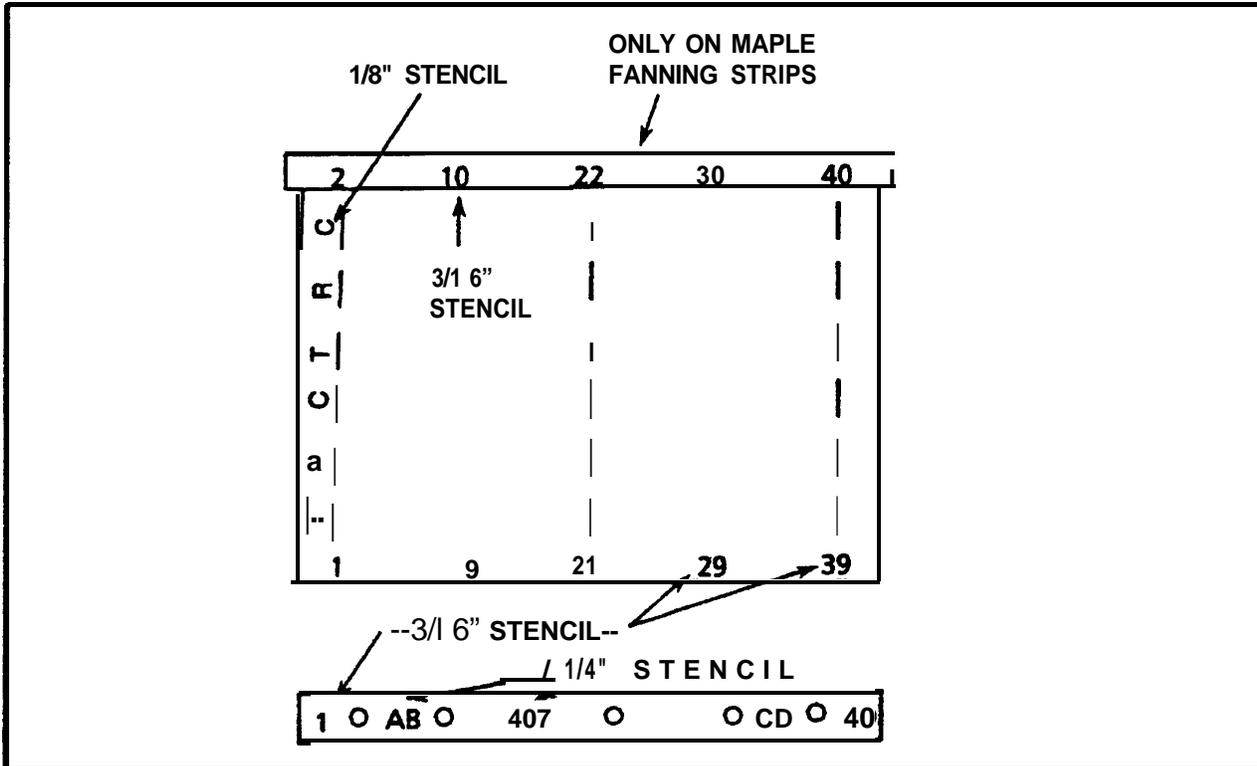
Exhibit 20 – Selector Jacks (HTIDF)

001
1/8" STENCIL

TT
3/16" STENCIL

009
010
1/4" STENCIL

701

020

+T -T CT EC SY MF BSY ATB

Exhibit 21 – TIDF Ticketer Out Terminations
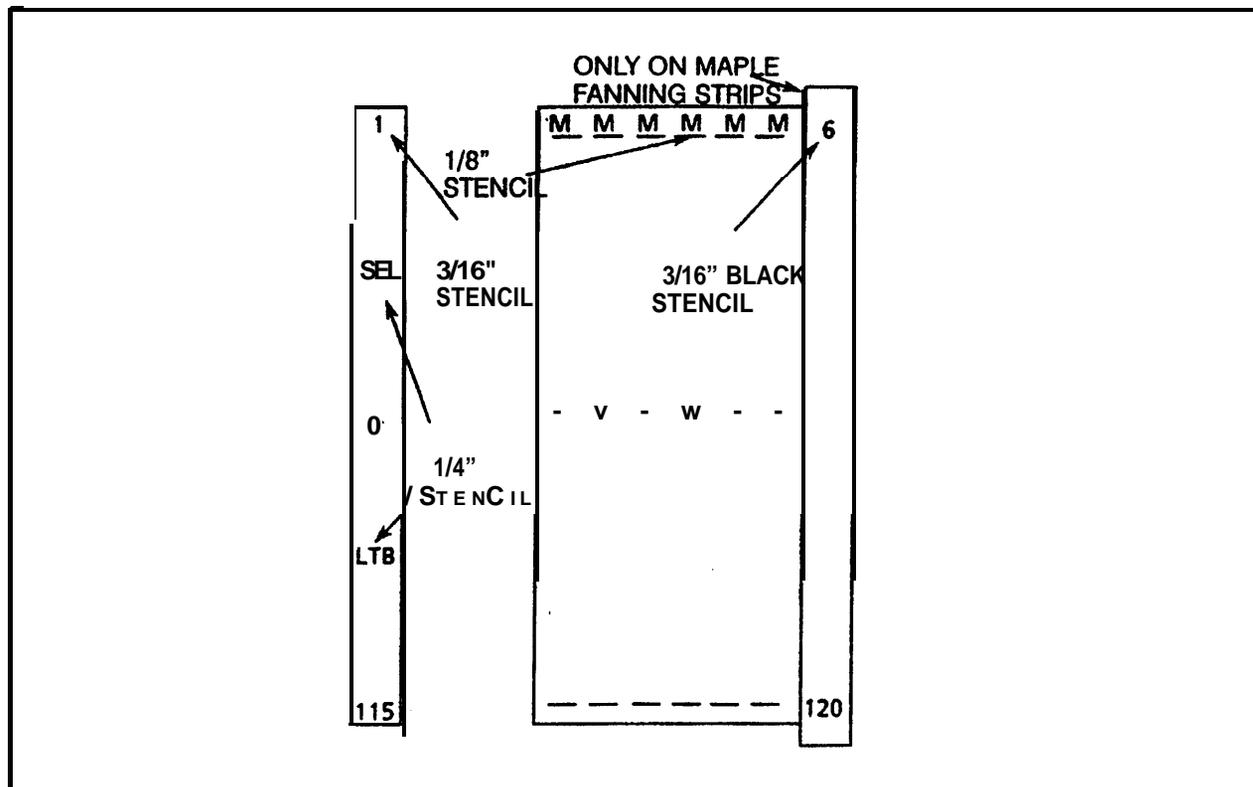
Exhibit 22 – Meter Terminations
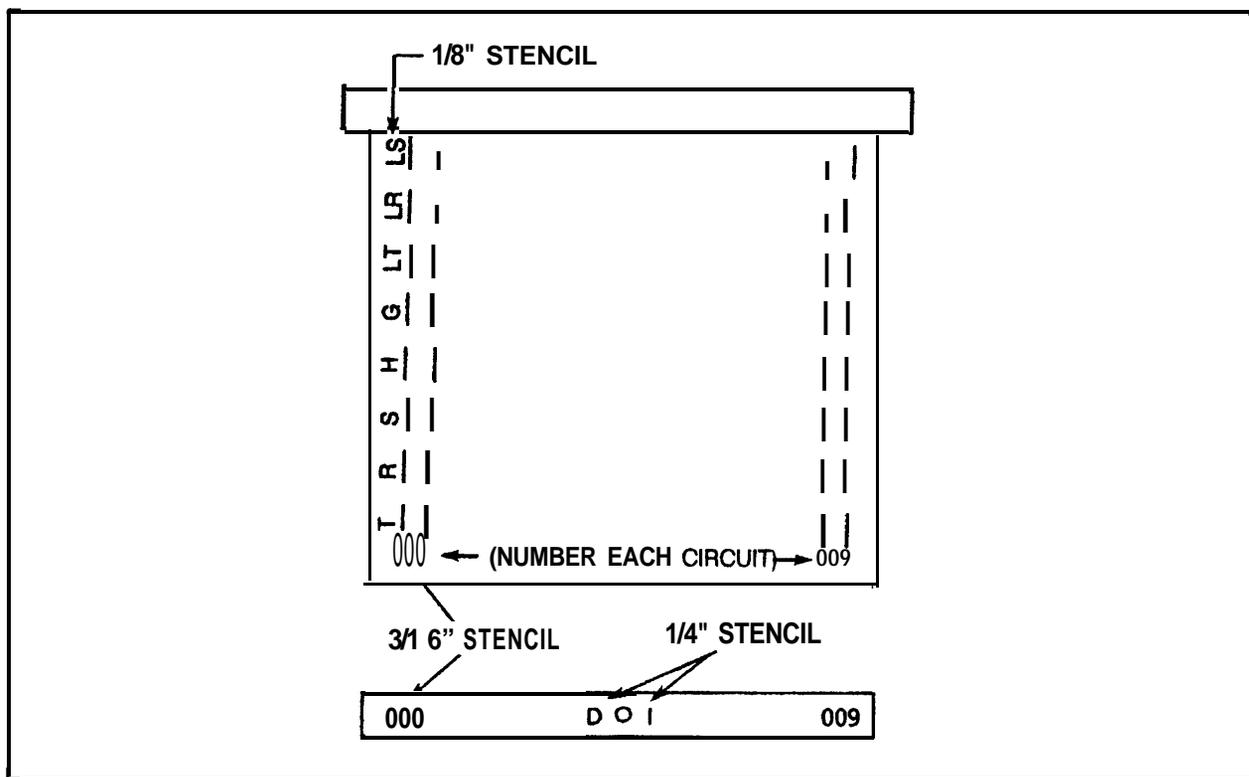
Exhibit 23 – Director Shelves (DIDF)

1/8" STENCIL

1/8" STENCIL → 1/8" STENCIL

M E R1 T1 R T

1 .5 0 15 20

3/1 6" STENCIL   1/4" STENCIL

1 **PAN** CXR S.M.-ZUMA SYS 102 20
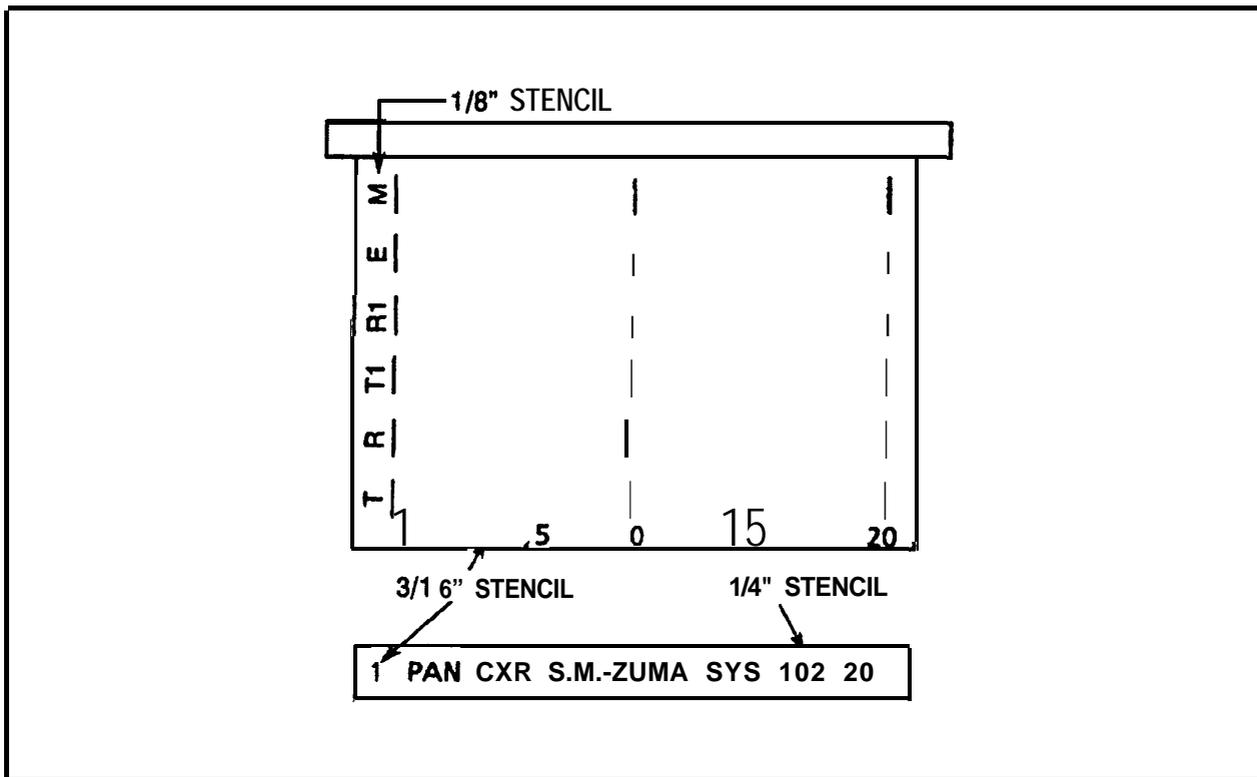
Exhibit 24 – Carrier Termlnatlons

1/8" STENCIL

R1 T1 R BR1 BT1 BR BT

1 5 10 1 5 10

3/1 6" STENCIL   1/4" STENCIL

1 **IMPD COMPS** 10 1 R E P T   C O I L S   10
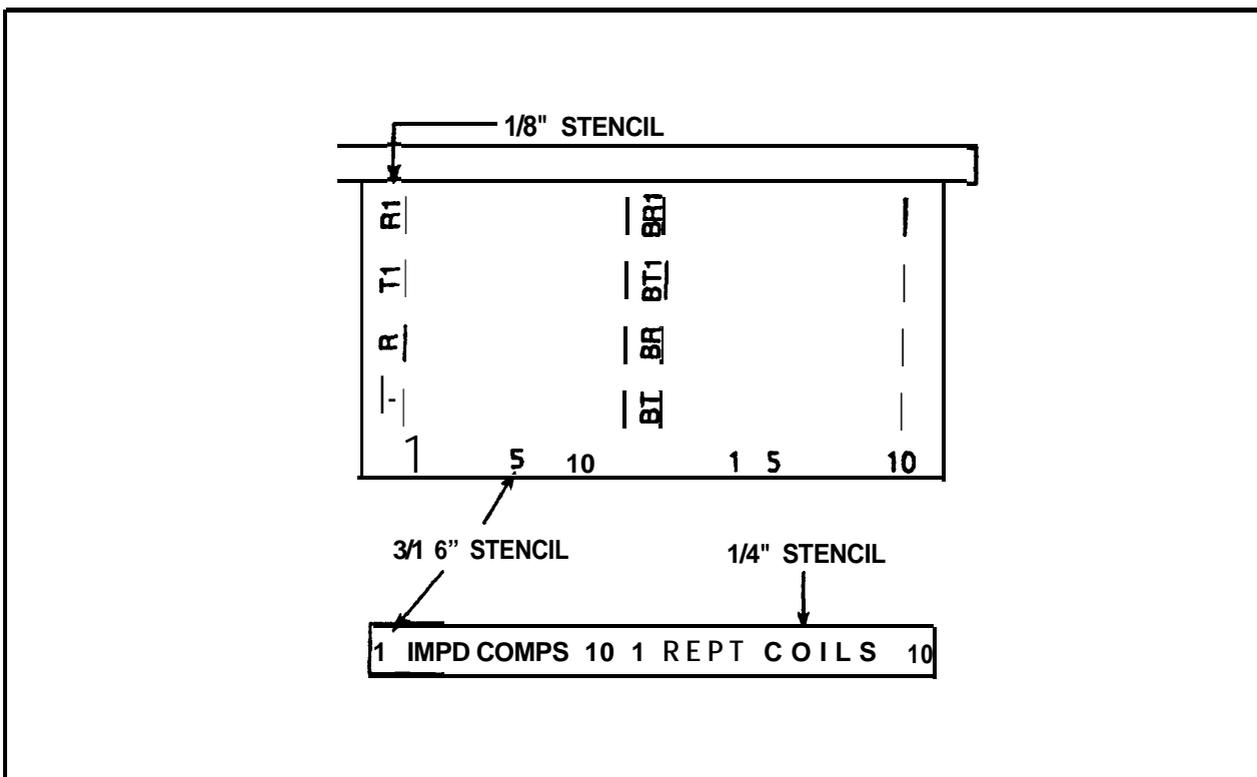
Exhibit 25 – Miscellaneous Mixed Termlnatlons
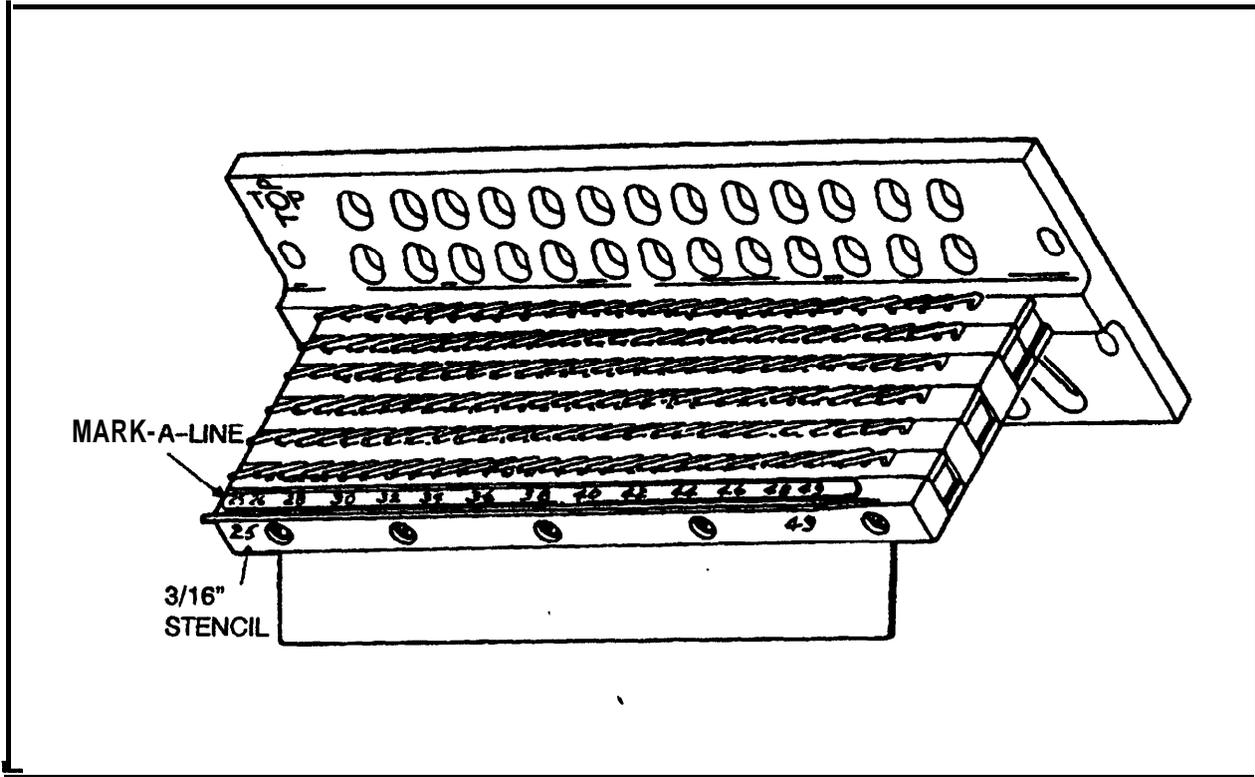
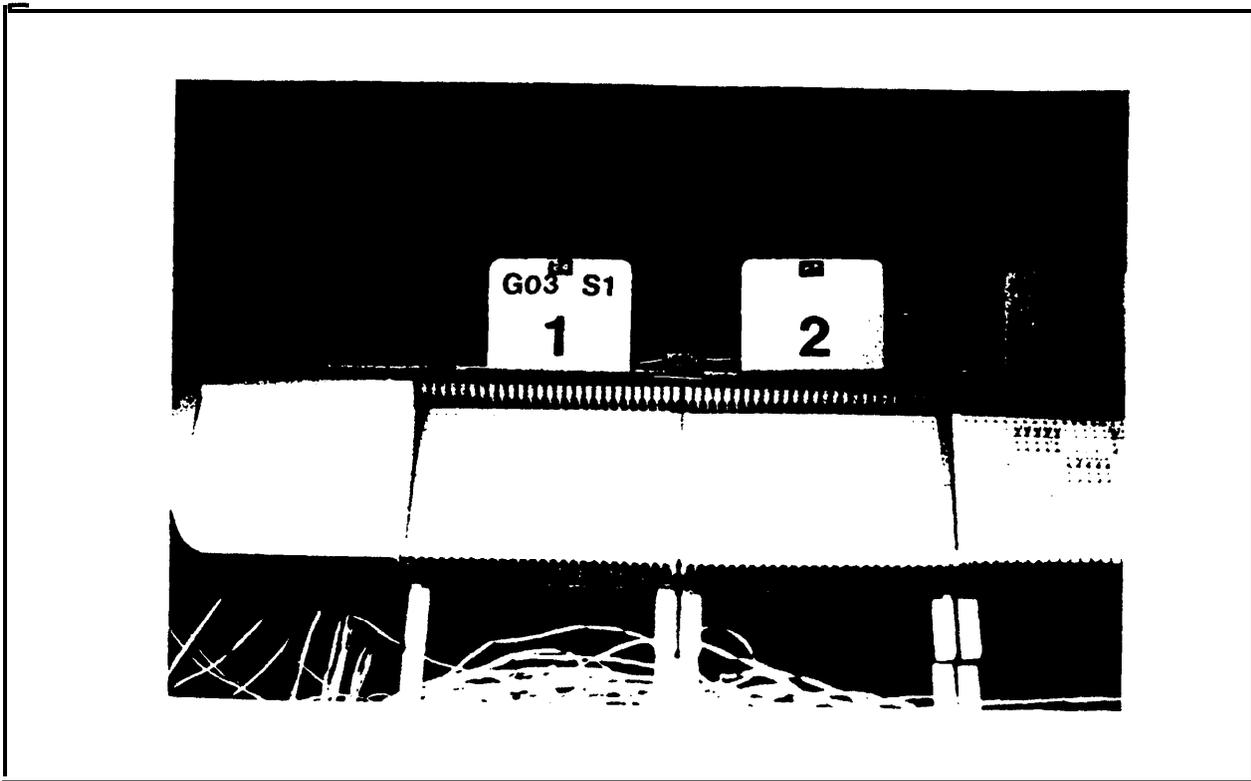**Exhibit 26 - Method of Marking Wire Wrap Block**

Exhtbtt 27 - Labeling Above Module.
Sytvania Single-Sided Modular Frame

Exhibit - 28 Labeling Below Module.
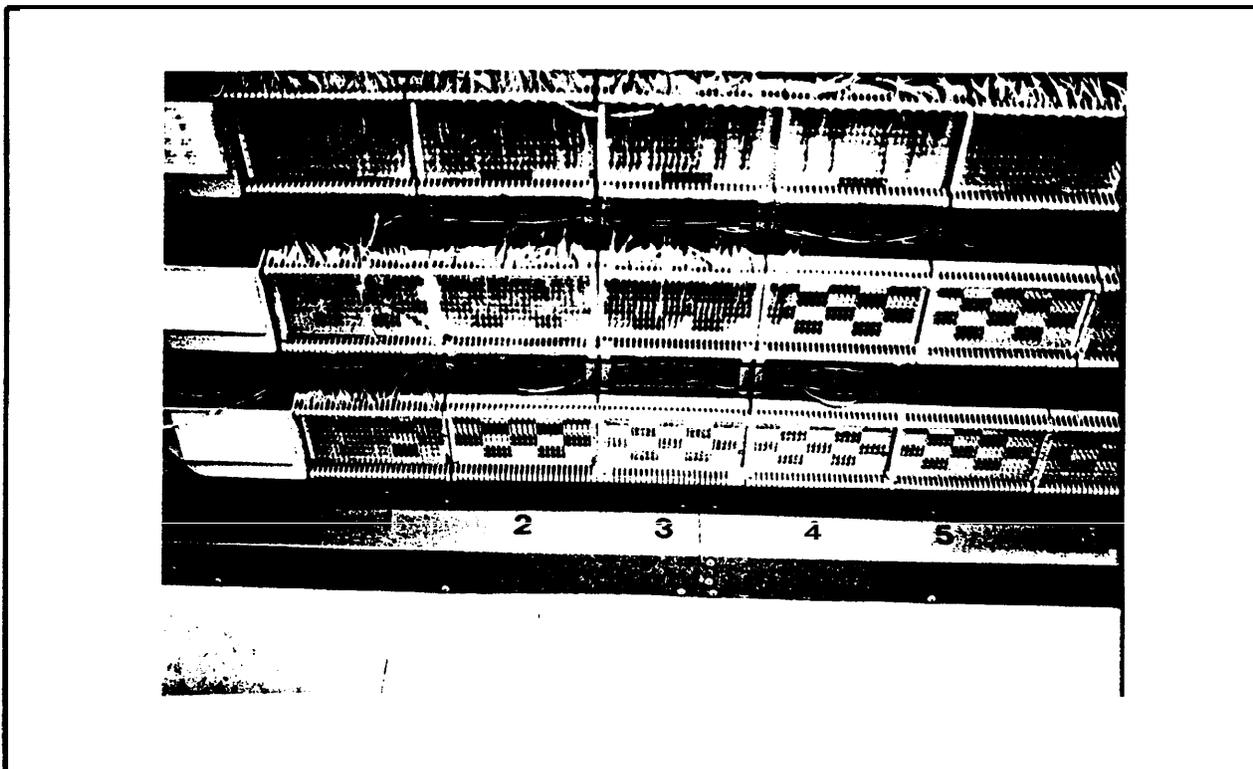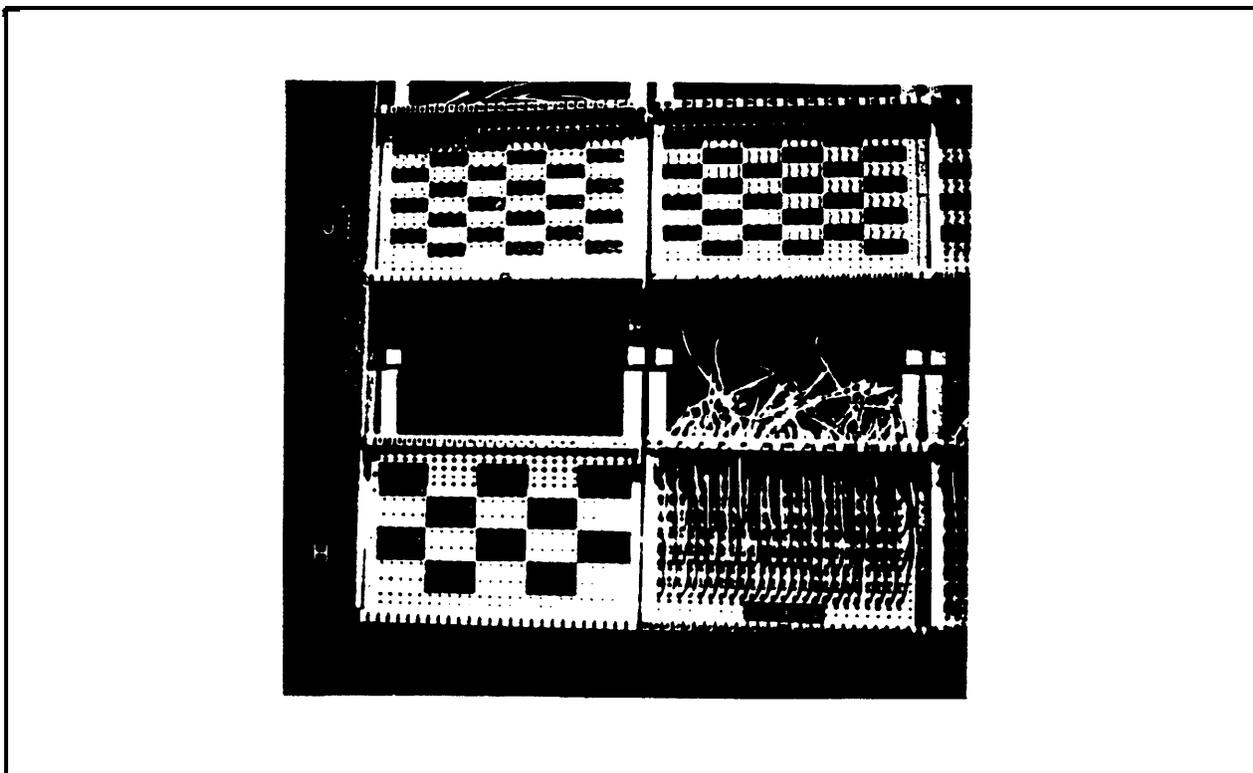**Sylvanla Single-SIded Modular Frame**

Exhibit 29   Horizontal Block Position Labeling