

ENGINEERING DIRECTIVE

 **OBsolete**
Chief Engineer

**REVISED TITLE SHEETS AND FEDERAL-AID BLOCKS,
AND QUALITY OF CONSTRUCTION CONTRACT TRACINGS**

The attached sample title sheet is the form to be used for all MHD Highway Construction Plan Title Sheets. Full size details of the signature block and the Federal-aid block are provided. The revised Federal-aid block is to be used on all plan, profile, and cross-section sheets. These changes are effective immediately for all projects to be advertised after the date of this directive.

There has been some confusion as to the correct dimensions for construction tracings. Figure 2-15 on page 2-40 of the Highway Design Manual gives the required plan layout, as well as the required 23"x36" dimensions for construction tracings. Section 2.1.2.1 on page 2-20 of the Highway Design Manual requires that "The tracings will be made on the standard size tracing mylar (4 mil) matted on one side."

It has been brought to the attention of the Department that industry is most commonly producing mylar matted on both sides, therefore, mylar matted on both sides will be acceptable for construction tracings. However, if the mylar is matted only on one side, then all work including border lines but excluding highlight shading shall be on the matted side.

In addition, the Department is having difficulty printing plans which are multi-iteration copies of copies. All plans shall be high contrast, crisp black line drawings on translucent mylar absent of all color which may inhibit clear reproductions by the Department's reproduction processes. Plans which result from a process where the mylar has blue lines on blue background, brown lines on brown background, or any other process which does not produce a crisp black line on translucent mylar, and which do not reproduce clearly when processed by the Department Reproduction Section are not acceptable. If screened mylars are to be used, the project manager shall determine the screen density required for clear reproductions. The Project manager shall also determine the content of the screen information.

Therefore, the Department reserves the right to reject, and require the redrafting of any construction tracings which do not conform to all of the following:

- o The standard dimensions (23"x36").
- o 4 mil mylar thickness.
- o High contrast black line drawings on translucent mylar absent of all color which may inhibit clear reproductions by the Department's reproduction processes.

Attachments: Sample of Revised Title Sheet
Sample of Revised Federal-Aid Block
Sample of Full Size, Revised Signature Block

NOTE:
 COMM. OF MASS. HWY. DEPT. — 15mm min.
 RTE. TOWN, COUNTY — 10mm min.
 ALL OTHER TITLES — 6mm min.
 TEXT EXCEPT LOCUS, FED. AID BLOCK,
 & SIGNATURE BLOCK — 3.5mm min.

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

PLAN AND PROFILE OF

ROUTE 140

IN THE TOWN OF

WINCHENDON

WORCESTER COUNTY

FEDERAL AID PROJECT NO. STP-540(001)

WINCHENDON
 ROUTE 140

DATE	BY	CHKD.	DATE	BY	CHKD.
10/1/77	J. H. HARRIS		10/1/77	J. H. HARRIS	
10/1/77	J. H. HARRIS		10/1/77	J. H. HARRIS	

TITLE & INDEX

THE 1966 SPECIFICATIONS, THE 1961 SUPPLEMENTAL SPECIFICATIONS DATED AUGUST 7, 1964, THE 1977 CONSTRUCTION STANDARDS, THE 1966 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE 1966 "STANDARD DRAWING FOR SIGNS AND SUPPORTS" AND THE AMERICAN STANDARDS FOR HIGHWAY STOCK (AASHTO 3-60.1-1966) WILL COVER.

INDEX

SHEET NO.

DESCRIPTION

1	TITLE & INDEX
2	TYPICAL SECTIONS
3	WIDENING SECTIONS
4-6	BREAKAWAY CABLE TERMINAL DETAILS
7-10	GENERAL PLANS & PROFILES
11	ROAD & PAVEMENT MARKING PLANS
12	TRAFFIC SIGN SUMMARY
13-14	TRAFFIC MANAGEMENT PLAN
15-16	CROSS SECTIONS

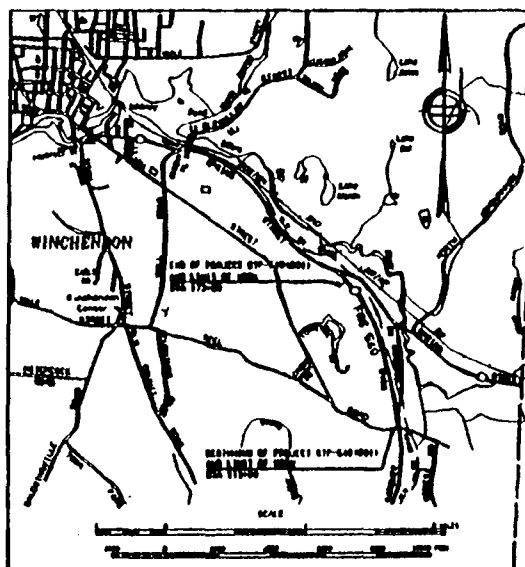
IF SPACE PERMITS PLACE INDEX ON THIS SHEET, OTHERWISE PUT INDEX ON A SEPARATE SHEET. INDICATE THIS WITH A NOTE "SEE SHEET NO. 2 FOR INDEX".

CONVENTIONAL SIGNS

COUNTY, CITY, OR TOWN BOUNDARY	---
COUNTY, CITY, OR TOWN SIDE LINE	---
PRINCE LINE	---
RAIL LINE OR RAILWAY LINE	---
RIGHT OF WAY LINE	---
CULVERT	---

PROPOSED SURFACE
 EXISTING SURFACE

ELEVATIONS
 FEET



SCALE - AS NOTED

NOTE

LENGTH OF PROJECT STP-540(001) = 5936.40 FT = 1.123 MILES

DESIGN DESIGNATION

DESIGN SPEED	50 M.P.H.
ADT (1960)	8,000
ADT (2010)	15,000
K	50
D	600
T (PEAK HOUR)	75
T (AVERAGE DAY)	100
DAY	1200
NIGHT	500

PE STAMP &
 SIGNATURE



(CONSULTANTS ONLY)

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED
 DIVISION ADMINISTRATOR

MASSACHUSETTS
 HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER

APPROVED

MEM. COMMISSIONER

ASSOCIATE COMMISSIONER

REVISED FEDERAL-AID BLOCK

STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MASS.				
PROJECT FILE NO.				

(ACTUAL SIZE)



MASSACHUSETTS
HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER

Date

APPROVED

MHD COMMISSIONER

Date

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR

Date

ASSOCIATE COMMISSIONERS

Date

Sample of Signature Block (Actual Size)