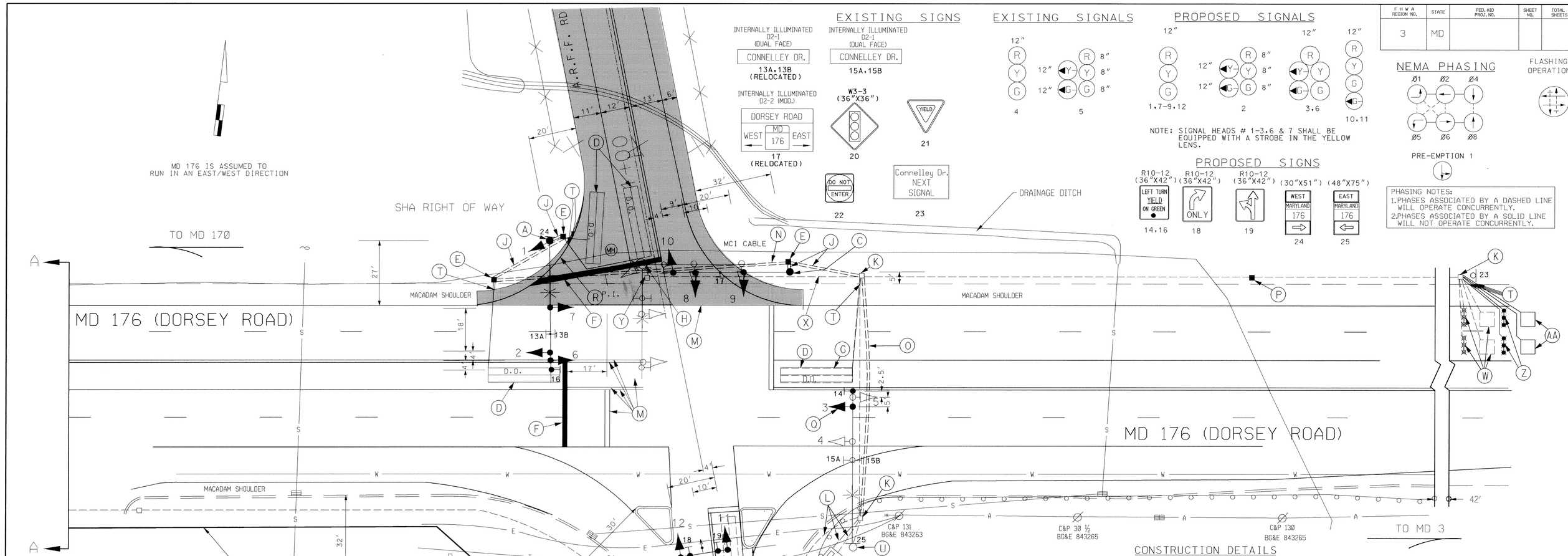
F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			



EXISTING SIGNS

INTERNALLY ILLUMINATED D2-1 (DUAL FACE) — CONNELLEY DR. — 13A, 13B (RELOCATED)

INTERNALLY ILLUMINATED D2-1 (DUAL FACE) — CONNELLEY DR. — 15A, 15B

INTERNALLY ILLUMINATED D2-2 (MOD.) — DORSEY ROAD — WEST MD 176 EAST — 17 (RELOCATED)

W3-3 (36"X36") — 20

YIELD — 21

DO NOT ENTER — 22

Connelley Dr. NEXT SIGNAL — 23

EXISTING SIGNALS

4 — 5

PROPOSED SIGNALS

1, 7–9, 12 — 2 — 3, 6 — 10, 11

NOTE: SIGNAL HEADS # 1–3, 6 & 7 SHALL BE EQUIPPED WITH A STROBE IN THE YELLOW LENS.

PROPOSED SIGNS

R10-12 (36"X42") LEFT TURN YIELD ON GREEN — 14, 16

R10-12 (36"X42") ONLY — 18

R10-12 (36"X42") — 19

(30"X51") WEST MARYLAND 176 — 24

(48"X75") EAST MARYLAND 176 — 25

NEMA PHASING

Ø1 Ø2 Ø4 Ø5 Ø6 Ø8

PRE-EMPTION 1

FLASHING OPERATION

PHASING NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

GENERAL NOTES

1. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH SHA STANDARDS. ADDITIONAL PAVEMENT MARKINGS SHALL BE DONE BY OTHERS. FOR ADDITIONAL DETAILS SEE SHEET 3 OF 3.
2. CONTRACTOR MUST VERIFY THE LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
3. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
4. D.O. DENOTES DELAYED OUTPUT.

UTILITY LEGEND

T	TELEPHONE CABLES
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
BC	BURIED CABLE
SD	STORM DRAIN

GEOMETRIC LEGEND

EXISTING GEOMETRICS

PROPOSED GEOMETRICS

CONSTRUCTION DETAILS

A. Install 27 ft. steel pole with a single 60 ft. mast arm, signals heads, sign, relocated internally illuminated sign, and a 20 ft. lighting arm with a 250 watt HPS lamp and luminaire (Note: one – 3 in. PVC schedule 40 conduit bend and four – 2 in. x 90 in. anchor bolts. The Contractor shall install pole to final grade and ensure adequate signal head clearance).

B. Install 27 ft. steel pole with a single 60 ft. mast arm, signal heads, signs, and opticom detector eye as shown (Note: one – 3 in. PVC schedule 40 conduit bend and four – 2 in. x 90 in. anchor bolts. The Contractor shall adjust existing grade to ensure proper signal head clearance).

C. Install 27 ft. steel pole with a single 50 ft. mast arm, signal heads and signs, and relocated internally illuminated sign as shown (Note: one – 3 in. PVC schedule 40 conduit bend and four – 1 3/4 in. x 90 in. anchor bolts).

D. Install 6 ft. x 30 ft. quadruple loop detector (3-6-3 turns) encased in flexible tubing.

E. Install handhole.

F. Install 24 in. white permanent preformed pavement marking tape as shown.

G. Abandon existing loop detector.

H. Remove existing steel pole, signal heads, lighting arm and luminaire, and signs (Note: Relocate existing internally illuminated signs as shown. The Contractor will ensure that the existing autoscope vehicle detection cameras have been removed by SHA forces prior to the removal of pole).

J. Install 3 in. PVC schedule 40 electrical conduit – trenched.

K. Use existing handhole.

L. Use existing conduit.

M. Pavement markings to be removed by Maryland Aviation Administration pavement marking contractor (see note #1).

N. Install 4 in. PVC schedule 80 electrical conduit – bored

O. Install 4 in. PVC schedule 80 electrical conduit – slotted.

P. Rebuild existing handhole.

Q. Remove existing signal head and install proposed signal head as shown.

R. Deleted.

S. Install electrical cable into existing controller cabinet and properly label each cable.

T. Install 1 in. liquid tight, flexible, non-metallic conduit for detector wire sleeve.

U. Install sign on steel pole.

V. Deleted.

W. Abandon existing vehicle detectors and associated wiring.

X. Cap and abandon existing conduit.

Y. Remove existing handhole.

Z. Install microloop probe set with 500 ft. of lead-in.

AA. Install 6'x6' loop detectors.

REVISIONS	APPROVALS
Ⓐ 1-16-91 AS-BUILT TGM	ORIGINAL — ASST. DIV. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
Ⓑ 1/97 MODIFY SIGNAL WITH GEOMETRIC IMPROVEMENTS DMP DCJ MAL WJS GRK	ON — ASST. DISTRICT ENGINEER, TRAFFIC
	FILE — CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION; DIRECTOR, OFFICE OF TRAFFIC & SAFTEY

DCJ CONSULTING ENGINEERS COLUMBIA, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

ORIGINAL DRAWN BY: STREET TRAFFIC STUDIES, LTD (WJN)
DES. BY: STREET TRAFFIC STUDIES, LTD (WJN)
CHK. BY: D. DODA

MD 176 (DORSEY ROAD) & CONNELLEY DRIVE/A.R.F.F. RD

LOG MILE No. 02017604.15 COUNTY: ANNE ARUNDEL

DATE: 8-1-88 F.A.P. NO.
SCALE: 1" = 20' S.H.A. NO.

TS/FILE NO. 2506B

SHEET NO. 1 OF 3