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

NOTE:
MD 528 IS ASSUMED TO RUN IN A NORTH–SOUTH DIRECTION.

CONSTRUCTION DETAILS

A. **INSTALL** 27' STEEL POLE WITH A 38' MAST ARM, TRAFFIC SIGNAL HEADS, SIGN, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1–2", 90° POLYVINYL CHLORIDE (SCHEDULE 40) BEND.) (NOTE: POLE MUST BE CUT TO 21' HEIGHT AND MAST ARM CUT TO 30' LENGTH, CLEANED, GALVANIZED AND CAPPED.)

B. **INSTALL** 27' STEEL POLE WITH A 60' MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1–2", 90° POLYVINYL CHLORIDE (SCHEDULE 40) BEND.) (NOTE: POLE MUST BE CUT TO 21' HEIGHT, CLEANED, GALVANIZED AND CAPPED.)

C. **INSTALL** 27' STEEL POLE WITH TWIN 50'–50' MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, PEDESTRIAN EDUCATION SIGN, METER SOCKET, DISCONNECT SWITCH, 1–1 1/4" RISER AND 1 1/4" WEATHERHEAD AS SHOWN. (NOTE: 1–2" 90° POLYVINYL CHLORIDE (SCHEDULE 80) BEND AND 1–2" 90° POLYVINYL CHLORIDE (SCHEDULE 40) BEND.) (NOTE: POLE MUST BE CUT TO 21' HEIGHT AND ONE (1) MAST ARM CUT TO 40' LENGTH, CLEANED, GALVANIZED AND CAPPED.)

L. **INSTALL** 10' BREAKAWAY PEDESTAL POLE, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND PEDESTRIAN EDUCATION SIGN AS SHOWN. (NOTE: 1–2", 90° POLYVINYL CHLORIDE (SCHEDULE 40) BEND.)

Q. **REMOVE** EXISTING 21' STEEL POLE WITH 46' MAST ARM. INSTALL PROPOSED 27' STEEL POLE WITH A 50' MAST ARM, TRAFFIC SIGNAL HEADS, 8' LIGHTING ARM WITH A 250W–HPS LUMINAIRE, 15' LIGHTING ARM WITH A 250W–HPS LUMINAIRE AND SIGN ONTO THE EXISTING FOUNDATION AS SHOWN. (NOTE: THE TRAFFIC SIGNAL HEADS AND SIGN ARE TO BE RELOCATED FROM THE EXISTING MAST ARM.)

T. **USE EXISTING BASE**–MOUNTED CABINET AND CONTROLLER. USE EXISTING 2" ELBOW FOR PROPOSED UNDERGROUND SERVICE.

U. **EXISTING** MASTER CONTROLLER TO BE MAINTAINED.

V. **INSTALL HANDHOLE** (FRAME AND COVER) FOR TRAFFIC SIGNAL EQUIPMENT.

X. **USE** EXISTING HANDHOLE.

Y. **INSTALL** 6' X 30' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING QUADRUPOLE TYPE (2–4–2).

a. **INSTALL** 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

b. **INSTALL** 1" LIQUID TIGHT FLEXIBLE NON–METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

c. **INSTALL** 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (SLOTTED).

d. **INSTALL** 3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (SLOTTED).

e. **INSTALL** 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (SLOTTED).

f. **INSTALL** 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) (TRENCHED).

g. **INSTALL** 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 40) (TRENCHED).

j. **USE EXISTING CONDUIT**.

k. **INSTALL** PAVEMENT MARKING AS SHOWN.

n. **INSTALL HANDHOLE** (FRAME AND COVER) FOR TOWN OF OCEAN CITY UTILITY USE.

o. **PROPOSED OVERHEAD** ELECTRICAL SERVICE TO BE INSTALLED BY DP&L.

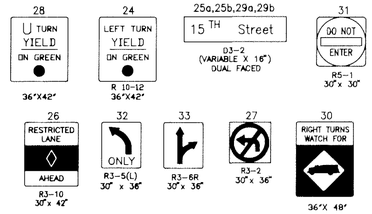
p. **EXISTING** OVERHEAD INTERCONNECT CABLE TO BE REMOVED AND REPLACED. (SEE WIRING DIAGRAM)

q. **INSTALL** 1–2" POLYVINYL CHLORIDE (SCHEDULE 40) RISER, 1–2" WEATHERHEAD AND 1–2", 90° POLYVINYL CHLORIDE (SCHEDULE 40) BEND ONTO EXISTING UTILITY POLE FOR INTERCONNECT AS SHOWN.

s. **USE** EXISTING CONDUIT. REMOVE AND REPLACE EXISTING INTERCONNECT CABLE. (SEE WIRING DIAGRAM)

t. **CAP AND ABANDON** EXISTING CONDUIT.

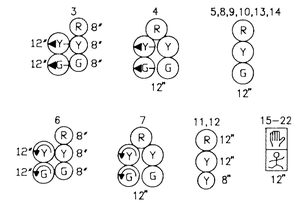
PROPOSED SIGNS



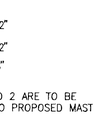
EXISTING SIGNS

NOTE: SIGN #23 IS TO BE RELOCATED ONTO PROPOSED MAST ARM AS SHOWN.

PROPOSED SIGNALS

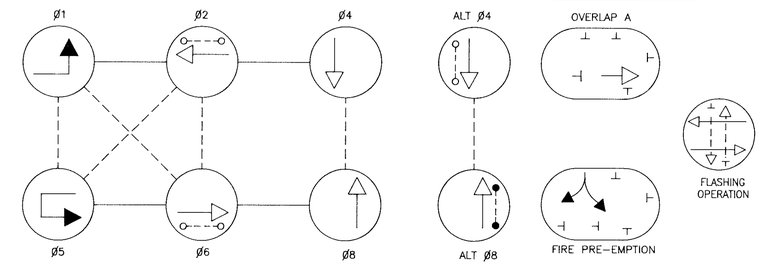


EXISTING SIGNALS

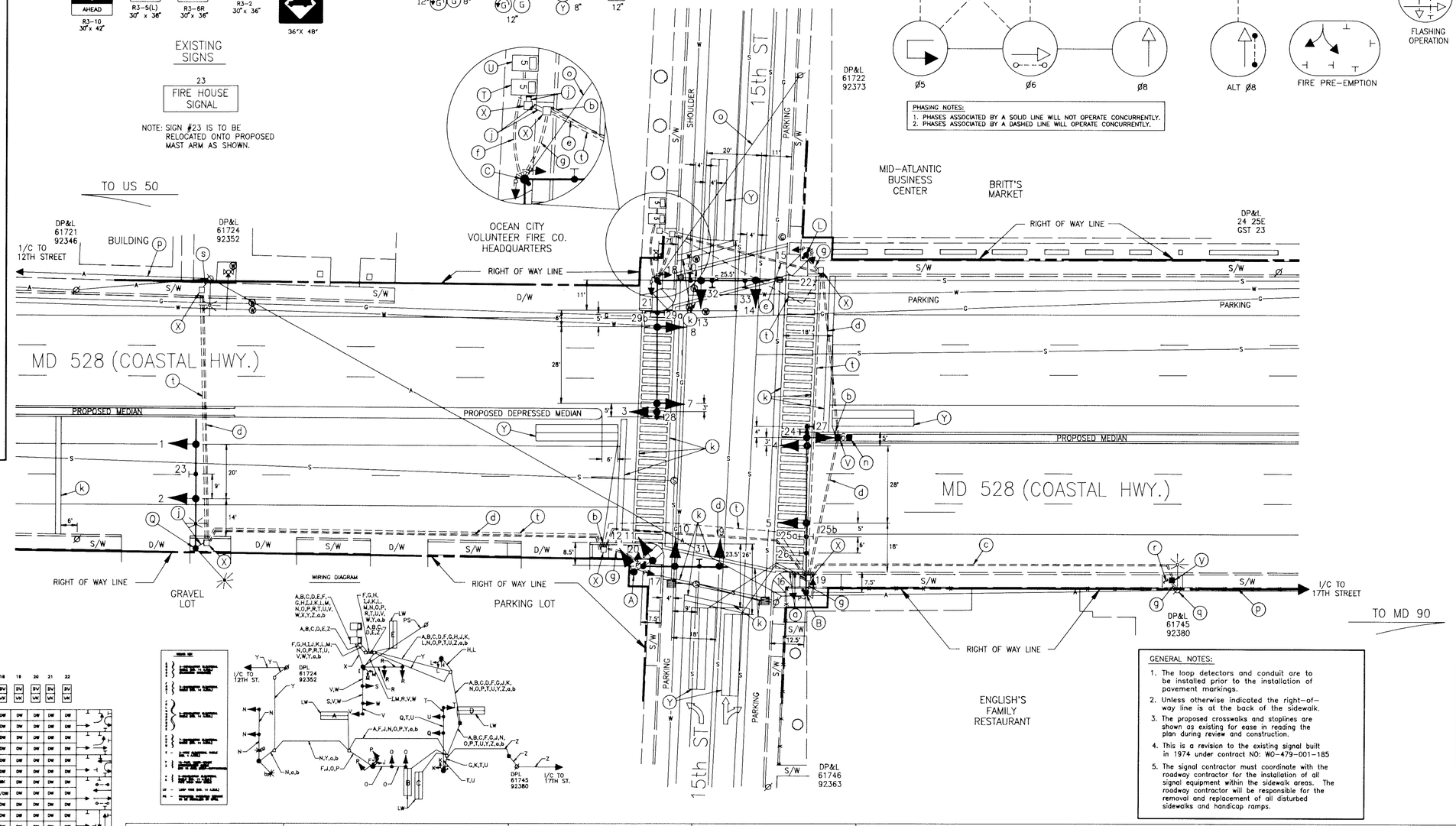


NOTE: SIGNALS #1 AND 2 ARE TO BE RELOCATED ONTO PROPOSED MAST ARM AS SHOWN.

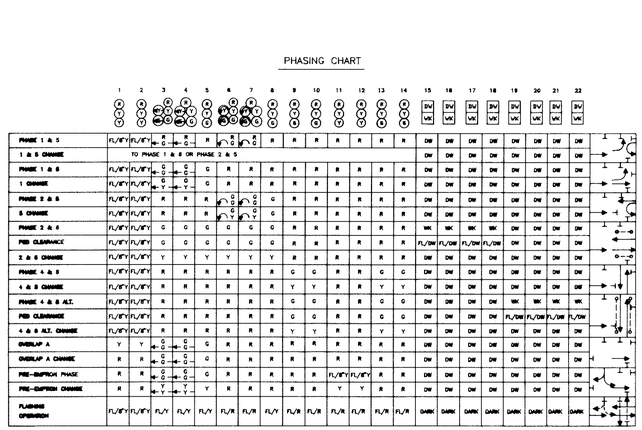
NEMA PHASING



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



PHASING CHART



GENERAL NOTES:

1. The loop detectors and conduit are to be installed prior to the installation of pavement markings.
2. Unless otherwise indicated the right–of–way line is at the back of the sidewalk.
3. The proposed crosswalks and stoplines are shown as existing for ease in reading the plan during review and construction.
4. This is a revision to the existing signal built in 1974 under contract NO: WO–479–001–185
5. The signal contractor must coordinate with the roadway contractor for the instalgation of all signal equipment within the sidewalk areas. The roadway contractor will be responsible for the removal and replacement of all disturbed sidewalks and handicap ramps.

GEOMETRIC LEGEND

PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE — A — A
ELECTRIC — E — E
TELEPHONE — T — T
GAS — G — G
SEWER — S — S
WATER — W — W
CABLE TV — TV — TV

STREET TRAFFIC STUDIES, LTD.
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1302 Concourse Drive, Suite 104
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(410) 859–3553

2545–15

REVISIONS

D 3–25–96 RECONSTRUCT SIGNAL USING MAST ARMS
S.H.A. NO.: WO–700–201–183
RRZ
C 5–10–93 INSTALL 6'x 30' QUADRUPOLE LOOP DETECTOR (2–4–2) 12'–18' BEHIND STOPLINE
S.H.A. NO.: BW–476–802–112
OJD
B 5–15–87 INSTALL PRE–EMPTION SIGNAL FOR N.B. TRAFFIC
S.H.A. NO.: 855–25004
RZ
A REVISED LOOP DETECTION
S.H.A. NO.: 855–25001

APPROVALS

CHIEF, SIGNAL DESIGN SECTION
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC AND SAFETY

ORIGINAL ON FILE

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic and Safety
TRAFFIC ENGINEERING DESIGN DIVISION

LOG MILE: 23052807.57

DRAWN BY: LISA HANDY
DES. BY:
CHK. BY:

MD 528 (COASTAL HWY.) AND 15th ST
COUNTY WORCESTER

DATE: 7–10–85
SCALE: 1" = 20'
F.A.P. NO.
S.H.A. NO. WO–479–001–185
TS NO. TS–571D
SHEET NO. ___ OF ___