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

MD 193 IS ASSUMED TO RUN IN EAST-WEST DIRECTION

SIGNS

24 — NO TURN ON RED — R10-11B 30"X30"

26 — NO TURN ON RED — R10-11B 30"X30"

21 — ⇦ Williamsburg DR 1100 — D3-2

23 — Williamsburg DR 1100 ⇨ — D3-2

25 — R6-1L 36"X12" — ONE WAY ⇦ — M3-2 30"X15" — WEST MARYLAND 193 — M1-6 48"X36" — M6-1 30"X24" — 48"X75"

28 — R6-1L 36"X12" — ONE WAY ⇨ — M3-4 30"X15" — EAST MARYLAND 193 — M1-6 48"X36" — M6-1 30"X24" — 48"X75"

30,36,37 — S2-1 36"X36" — M6-2 21"X15"

31 — S2-1 36"X36"

29 — University BLVD 1100 E — D3-2

32,33 — PUSH BUTTON TO CROSS UNIVERSITY BLVD — START CROSSING WATCH FOR TURNING CARS — DON'T START FINISH CROSSING IF STARTED — PEDESTRIANS SHOULD NOT BE IN CROSSWALK — R10-3C 9"X12"

27 — ONE WAY ⇨ — R6-1R 36"X12"

34,35 — START CROSSING WATCH FOR TURNING CARS — DON'T START FINISH CROSSING IF STARTED — PEDESTRIANS SHOULD NOT BE IN CROSSWALK — R10-3C 9"X12"

20,22 — LEFT TURN YIELD ON GREEN — R3-5L 30"X36"

SIGNALS

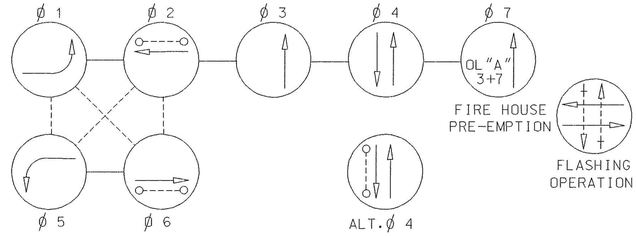
1,3 — 12"

6,7,10 — 12"

2,4,5,8,9,11-13 — 12"

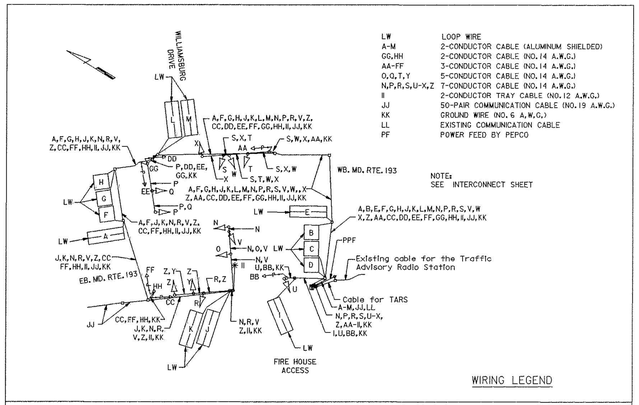
14-19 — 12"

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.
3. Ring II shall run sequential.

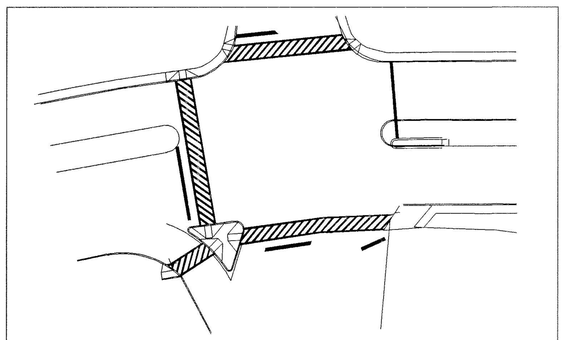


LW	LOOP WIRE
A-W	2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
GG,HH	2-CONDUCTOR CABLE (NO.14 A.W.G.)
AA-FF	3-CONDUCTOR CABLE (NO.14 A.W.G.)
Q,Q,T,Y	5-CONDUCTOR CABLE (NO.14 A.W.G.)
N,P,R,S,U-X,Z	7-CONDUCTOR CABLE (NO.14 A.W.G.)
II	2-CONDUCTOR TRAY CABLE (NO.12 A.W.G.)
JJ	50-PAIR COMMUNICATION CABLE (NO.19 A.W.G.)
KK	GROUND WIRE (NO. 6 A.W.G.)
LL	EXISTING COMMUNICATION CABLE
PF	POWER FEED BY PEPCO

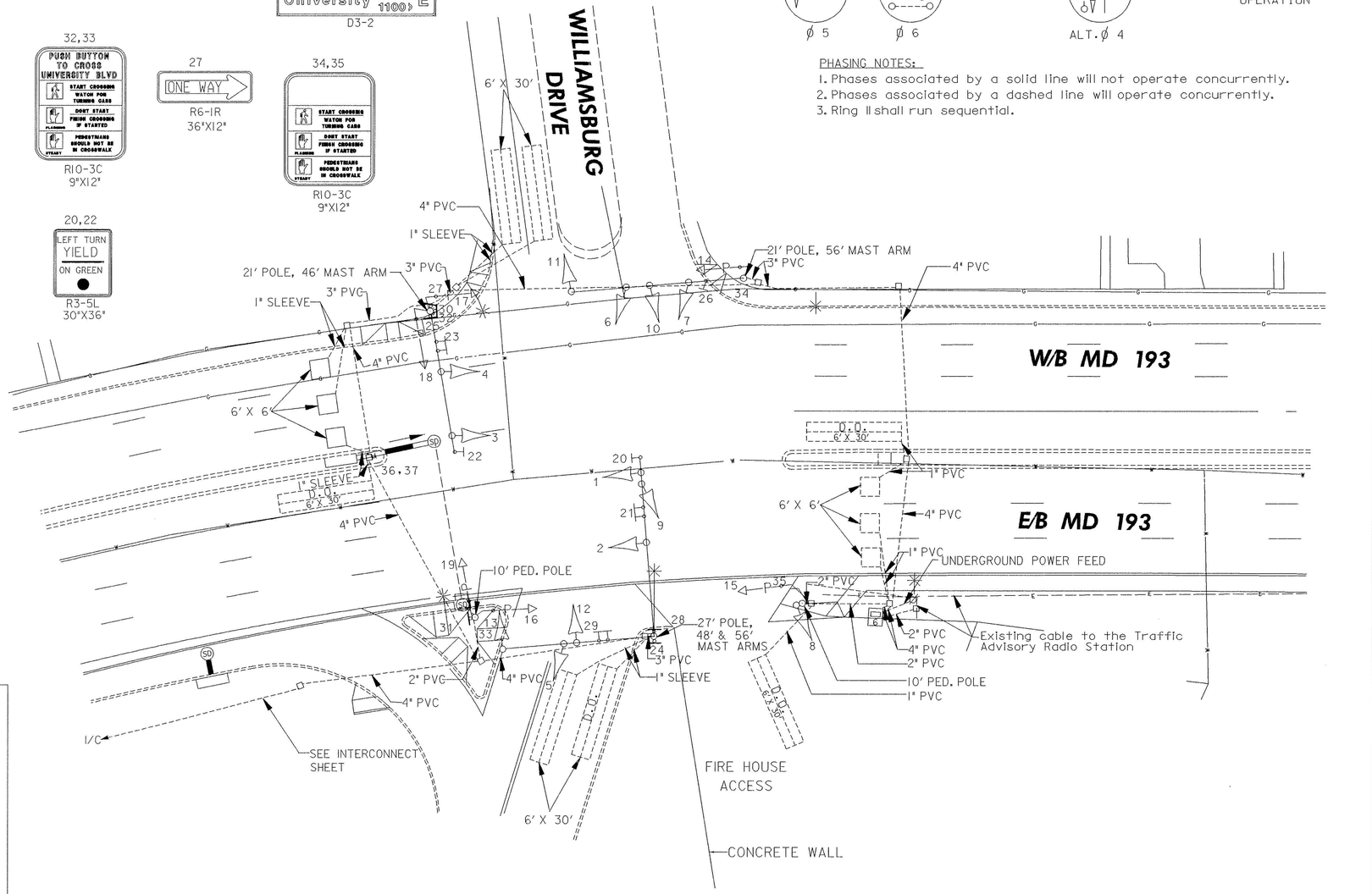
WIRING LEGEND

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1+5	◄G—	R	◄G—	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1+5 CHANGE TO 1+6 , 2+5 OR 2+6																			
PHASE 1+6	◄G—	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1+6 CHANGE	◄Y—	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2+5	R	R	◄G—	G	R	R	R	R	R	R	R	R	R	WK.	WK.	WK.	WK.	DW	DW
1+6 CHANGE	R	R	◄Y—	G	R	R	R	R	R	R	R	R	R	WK.	WK.	WK.	WK.	DW	DW
PHASE 2+6	G	G	G	G	R	R	R	R	R	R	R	R	R	WK.	WK.	WK.	WK.	DW	DW
PED. CLEAR.	G	G	G	G	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2+6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	G	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	Y	Y	Y	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
ALT. PHASE 4	R	R	R	R	G	G	G	R	R	R	G	G	G	DW	DW	DW	DW	WK.	WK.
PED. CLEAR.	R	R	R	R	G	G	G	R	R	R	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
ALT. 4 CHANGE	R	R	R	R	Y	Y	Y	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 7 OL "A" 3+7	R	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
7 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

PHASING CHART



"PAVEMENT MARKING DETAIL"



UTILITY LEGEND

S	SEWER
T	TELEPHONE
W	WATER
G	GAS
E	ELECTRIC
A	AERIAL
I/C	INTERCONNECT

SABRA & ASSOCIATES, INC.
9881 BROKEN LAND PARKWAY
COLUMBIA, MD 21046

REVISIONS:	APPROVALS:
REVISED 10/95 FOR THE US 29 IMPROVEMENTS S.H.A. NO. M 425-502-370	ORIGINAL
A 3/28/97 AS BUILT M 425-502-370 RAVI	CHIEF SIGNAL DESIGN SECTION
	ON
	ASST. DISTRICT ENGINEER TRAFFIC
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	FILE
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

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

LOG MILE # 1501930

DRAWN BY: ZAJ
DES. BY: ZAJ
CHK. BY:

MD 193 @ WILLIAMSBURG DRIVE
SIGNAL PLAN

COUNTY: MONTGOMERY

DATE: OCTOBER, 1995
SCALE: 1"=20'

F.A.P. NO.
S.H.A. NO. M 425-502-370

TS/STD. NO.: ~~TS 3534 A~~

SHEET NO. ____ OF ____

TS 3560 A