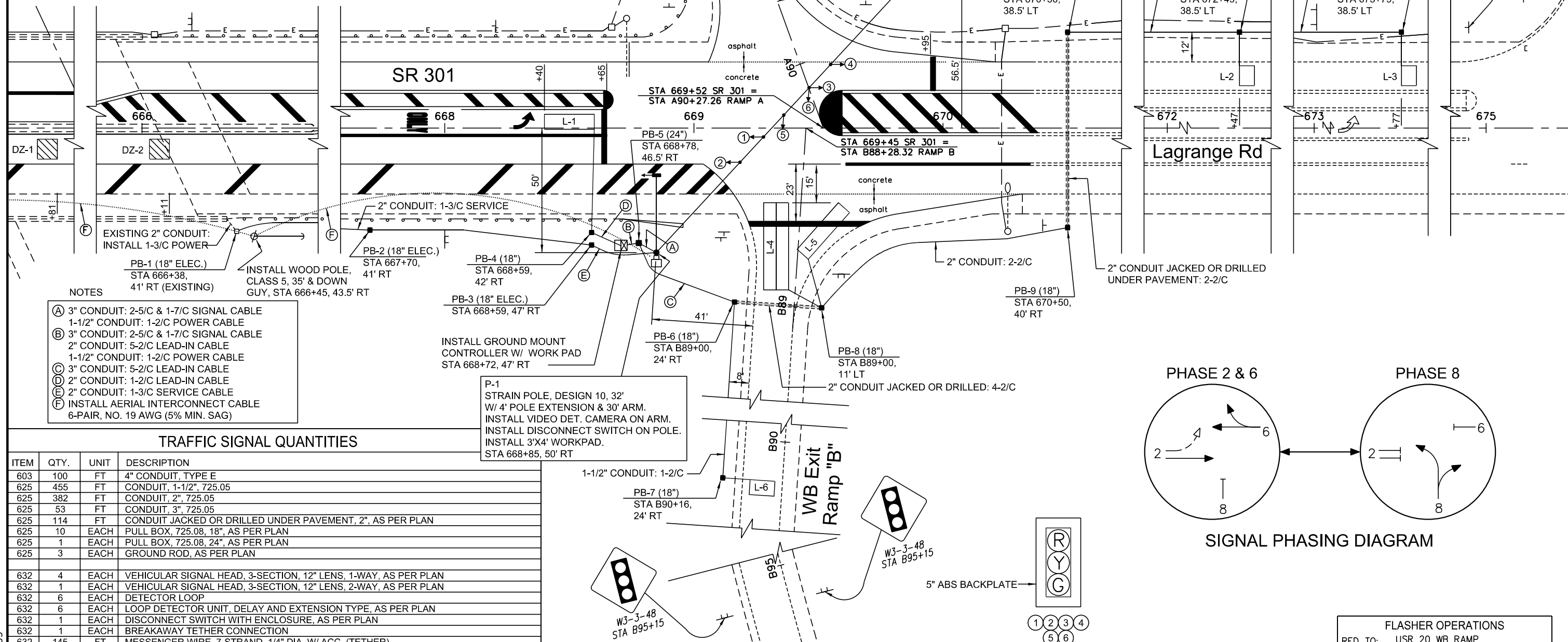


DESIGN FILE: I:\FIELD\N\ELECTRICAL\SIGNAL\DCN\L20&301WB.dgn
WORKSTATION: rmoney DATE: 10/29/2009

DETECTOR CHART

LOOP	SIZE (FEET)	TURNS	MODE	DELAY SEC.	UNIT	PHASE	COMMENTS
L-1	6X20	3	PULSE		1	2	
L-2	8X6	4	PULSE		2	6	
L-3	8X6	4	PULSE		3	6	
L-4	10X35	2-4-2	PRESENCE	10*	4	8	
L-5	6X25	3	PRESENCE	10*	5	8	
L-6	6X10	4	PULSE	3*	6	8	
DZ-1	8X8	NA	PULSE		NA	2	DETECTION FIELD AT 254' FROM STOP
DZ-2	8X8	NA	PULSE		NA	2	DETECTION FIELD AT 384' FROM STOP

*INHIBIT DELAY DURING ASSOC. PHASE GREEN

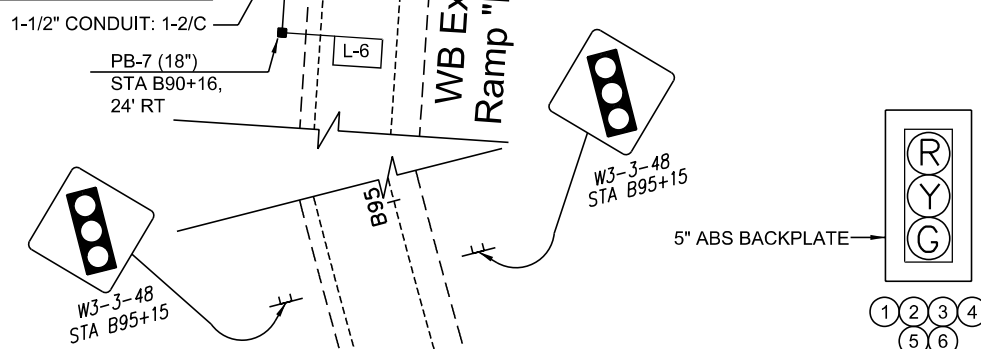


- NOTES
- (A) 3" CONDUIT: 2-5/C & 1-7/C SIGNAL CABLE
1-1/2" CONDUIT: 1-2/C POWER CABLE
 - (B) 3" CONDUIT: 2-5/C & 1-7/C SIGNAL CABLE
2" CONDUIT: 5-2/C LEAD-IN CABLE
1-1/2" CONDUIT: 1-2/C POWER CABLE
 - (C) 3" CONDUIT: 5-2/C LEAD-IN CABLE
 - (D) 2" CONDUIT: 1-2/C LEAD-IN CABLE
 - (E) 2" CONDUIT: 1-3/C SERVICE CABLE
 - (F) INSTALL AERIAL INTERCONNECT CABLE
6-PAIR, NO. 19 AWG (5% MIN. SAG)

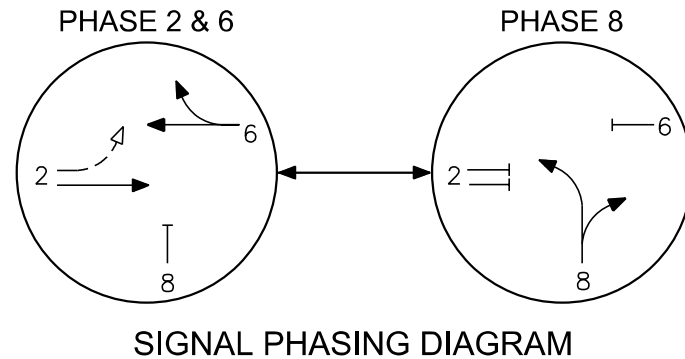
TRAFFIC SIGNAL QUANTITIES

ITEM	QTY.	UNIT	DESCRIPTION
603	100	FT	4" CONDUIT, TYPE E
625	455	FT	CONDUIT, 1-1/2", 725.05
625	382	FT	CONDUIT, 2", 725.05
625	53	FT	CONDUIT, 3", 725.05
625	114	FT	CONDUIT JACKED OR DRILLED UNDER PAVEMENT, 2", AS PER PLAN
625	10	EACH	PULL BOX, 725.08, 18", AS PER PLAN
625	1	EACH	PULL BOX, 725.08, 24", AS PER PLAN
625	3	EACH	GROUND ROD, AS PER PLAN
632	4	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12" LENS, 2-WAY, AS PER PLAN
632	6	EACH	DETECTOR LOOP
632	6	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	1	EACH	DISCONNECT SWITCH WITH ENCLOSURE, AS PER PLAN
632	1	EACH	BREAKAWAY TETHER CONNECTION
632	145	FT	MESSENGER WIRE, 7-STRAND, 1/4" DIA. W/ ACC. (TETHER)
632	145	FT	MESSENGER WIRE, 7-STRAND, 3/8" DIA. W/ ACC.
632	375	FT	SIGNAL CABLE, 5/C, #14 AWG
632	139	FT	SIGNAL CABLE, 7/C, #14 AWG
632	441	FT	INTERCONNECT CABLE, INTEG. MESS. WIRE TYPE, 6 PR, #19 AWG, SOLID, REA (PE-38), APP
632	2	EACH	STRAIN POLE FOUNDATION, AS PER PLAN
632	1658	FT	LOOP DETECTOR LEAD-IN CABLE, 2/C, NO. 14 AWG
632	36	FT	POWER CABLE, 2/C, NO. 6 AWG
632	35	FT	POWER CABLE, 3/C, NO. 6 AWG
632	838	FT	SERVICE CABLE, 3/C, NO. 6 AWG
632	1	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 10, AS PER PLAN
632	1	EACH	WOOD POLE, CLASS 5, 35'
632	1	EACH	DOWN GUY
632	1	EACH	SIGNALIZATION, MISC.: STRAIN POLE EXTENSION WITH 30' LUMINAIRE ARM
632	1	EACH	SIGNALIZATION, MISC.: STRAIN POLE, TYPE TC-81.10, INSTALLATION ONLY
632	1	EACH	SIGNALIZATION, MISC.: VIDEO DETECTION CAMERA
632	1	EACH	SIGNALIZATION, MISC.: VIDEO DETECTION SYSTEM CABINET HARDWARE
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS-1 AS PER PLAN
633	1	EACH	CABINET FOUNDATION, AS PER PLAN
633	2	EACH	CONTROLLER WORKPAD, AS PER PLAN

P-1
STRAIN POLE, DESIGN 10, 32'
W/ 4' POLE EXTENSION & 30' ARM.
INSTALL VIDEO DET. CAMERA ON ARM.
INSTALL DISCONNECT SWITCH ON POLE.
INSTALL 3'X4' WORKPAD.
STA 668+85, 50' RT



TYPICAL SIGNAL HEADS
(12" ALUMINUM W/ LED LAMPS)



FLASHER OPERATIONS	
RED TO:	USR 20 WB RAMP
YELLOW TO:	SR 301
SIGNAL NO.:	LOR-020-1301S
INSTALLATION DATE:	6-21-07
FILE NUMBER:	4481
OSIS NUMBER:	18038

DATE	REVISIONS	DATE INSTALLED	OHIO DEPARTMENT OF TRANSPORTATION	
10-28-09	INSTALLED BREAKAWAY TETHER CONNECTION	2-24-09	ELECTRICAL INSTALLATION LOCATED AT	
			USR 20 WB Ramp @ SR 301	
			SIGNAL NO. LOR-20-1301S	
			District 3	County LORAIN
			DESIGNED RJR 9/05	DRAWN RJR 9/05