PLOTTED: Friday, August 23, 2019 @ 03:53PM

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0660-01	2019	123	198

GENERAL NOTES

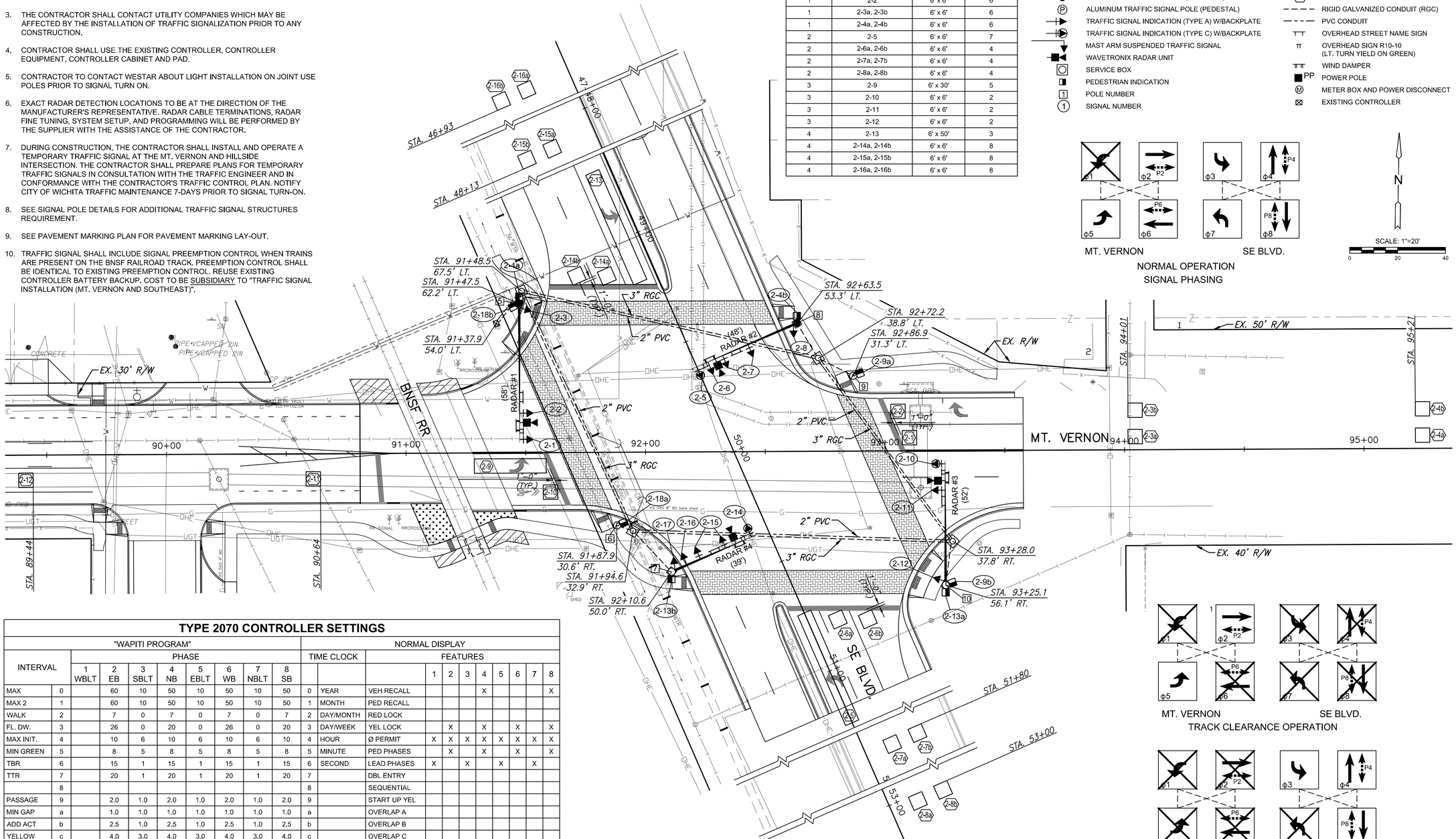
1. CONDUIT SHALL BE JACKED, BORED OR DIRECTIONAL DRILLED UNDER EXISTING PAVEMENT AND UNDER NEW PAVEMENT THAT HAS BEEN PLACED PRIOR TO CONDUIT INSTALLATION.
2. PLACEMENT OF SERVICE/JUNCTION BOXES, AND CONDUIT RUNS ARE TYPICAL AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO FACILITATE INSTALLATION.
3. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES WHICH MAY BE AFFECTED BY THE INSTALLATION OF TRAFFIC SIGNALIZATION PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR SHALL USE THE EXISTING CONTROLLER, CONTROLLER EQUIPMENT, CONTROLLER CABINET AND PAD.
5. CONTRACTOR TO CONTACT WESTAR ABOUT LIGHT INSTALLATION ON JOINT USE POLES PRIOR TO SIGNAL TURN ON.
6. EXACT RADAR DETECTION LOCATIONS TO BE AT THE DIRECTION OF THE MANUFACTURER'S REPRESENTATIVE. RADAR CABLE TERMINATIONS, RADAR FINE TUNING, SYSTEM SETUP, AND PROGRAMMING WILL BE PERFORMED BY THE SUPPLIER WITH THE ASSISTANCE OF THE CONTRACTOR.
7. DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL AND OPERATE A TEMPORARY TRAFFIC SIGNAL AT THE MT. VERNON AND HILLSIDE INTERSECTION. THE CONTRACTOR SHALL PREPARE PLANS FOR TEMPORARY TRAFFIC SIGNALS IN CONSULTATION WITH THE TRAFFIC ENGINEER AND IN CONFORMANCE WITH THE CONTRACTOR'S TRAFFIC CONTROL PLAN. NOTIFY CITY OF WICHITA TRAFFIC MAINTENANCE 7-DAYS PRIOR TO SIGNAL TURN-ON.
8. SEE SIGNAL POLE DETAILS FOR ADDITIONAL TRAFFIC SIGNAL STRUCTURES REQUIREMENT.
9. SEE PAVEMENT MARKING PLAN FOR PAVEMENT MARKING LAY-OUT.
10. TRAFFIC SIGNAL SHALL INCLUDE SIGNAL PREEMPTION CONTROL WHEN TRAINS ARE PRESENT ON THE BNSF RAILROAD TRACK. PREEMPTION CONTROL SHALL BE IDENTICAL TO EXISTING PREEMPTION CONTROL. REUSE EXISTING CONTROLLER BATTERY BACKUP. COST TO BE SUBSIDIARY TO "TRAFFIC SIGNAL INSTALLATION (MT. VERNON AND SOUTHEAST)".

DETECTION ZONES

RADAR NO.	ZONE NO.	SIZES (W x L)	MOVEMENT CALLED
1	2-1	6' x 6'	6
1	2-2	6' x 6'	6
1	2-3a, 2-3b	6' x 6'	6
1	2-4a, 2-4b	6' x 6'	6
2	2-5	6' x 6'	7
2	2-6a, 2-6b	6' x 6'	4
2	2-7a, 2-7b	6' x 6'	4
2	2-8a, 2-8b	6' x 6'	4
3	2-9	6' x 30'	5
3	2-10	6' x 6'	2
3	2-11	6' x 6'	2
3	2-12	6' x 6'	2
4	2-13	6' x 50'	3
4	2-14a, 2-14b	6' x 6'	8
4	2-15a, 2-15b	6' x 6'	8
4	2-16a, 2-16b	6' x 6'	8

LEGEND

- STEEL TRAFFIC SIGNAL POLE (JOINT USE)
- STEEL TRAFFIC SIGNAL POLE (STD. POLE)
- ALUMINUM TRAFFIC SIGNAL POLE (PEDESTAL)
- TRAFFIC SIGNAL INDICATION (TYPE A) W/BACKPLATE
- TRAFFIC SIGNAL INDICATION (TYPE C) W/BACKPLATE
- MAST ARM SUSPENDED TRAFFIC SIGNAL
- WAVETRONIX RADAR UNIT
- SERVICE BOX
- PEDESTRIAN INDICATION
- POLE NUMBER
- SIGNAL NUMBER
- VEHICLE DETECTION ZONE
- DETECTOR NUMBER
- RIGID GALVANIZED CONDUIT (RGC)
- PVC CONDUIT
- OVERHEAD STREET NAME SIGN
- OVERHEAD SIGN R10-10 (LT. TURN YIELD ON GREEN)
- WIND DAMPER
- POWER POLE
- METER BOX AND POWER DISCONNECT
- EXISTING CONTROLLER



MT. VERNON / SE BLVD. NORMAL OPERATION SIGNAL PHASING

TYPE 2070 CONTROLLER SETTINGS

INTERVAL		"WAPITI PROGRAM" PHASE 1 WBLT	2 EB	3 SBLT	4 NB	5 EBLT	6 WB	7 NBLT	8 SB	TIME CLOCK		NORMAL DISPLAY FEATURES	1	2	3	4	5	6	7	8
MAX	0		60	10	50	10	50	10	50	0	YEAR	VEH RECALL				X				X
MAX 2	1		60	10	50	10	50	10	50	1	MONTH	PED RECALL								
WALK	2		7	0	7	0	7	0	7	2	DAY/MONTH	RED LOCK								
FL. DW.	3		26	0	20	0	26	0	20	3	DAY/WEEK	YEL LOCK		X		X		X		X
MAX INIT.	4		10	6	10	6	10	6	10	4	HOUR	Ø PERMIT	X	X	X	X	X	X	X	X
MIN GREEN	5		8	5	8	5	8	5	8	5	MINUTE	PED PHASES		X		X		X		X
TBR	6		15	1	15	1	15	1	15	6	SECOND	LEAD PHASES	X		X		X		X	
TTR	7		20	1	20	1	20	1	20	7		DBL ENTRY								
	8									8		SEQUENTIAL								
PASSAGE	9		2.0	1.0	2.0	1.0	2.0	1.0	2.0	9		START UP YEL								
MIN GAP	a		1.0	1.0	1.0	1.0	1.0	1.0	1.0	a		OVERLAP A								
ADD ACT	b		2.5	1.0	2.5	1.0	2.5	1.0	2.5	b		OVERLAP B								
YELLOW	c		4.0	3.0	4.0	3.0	4.0	3.0	4.0	c		OVERLAP C								
RED CLR.	d		1.5	1.0	1.5	1.0	1.5	1.0	1.5	d		OVERLAP D								
RED REV.	e		0.0	0.0	0.0	0.0	0.0	0.0	0.0	e		EXCLUSIVE								
WALK II	f		0.0	0.0	0.0	0.0	0.0	0.0	0.0	f		SIM GAP								

LTT-2

MT. VERNON / SE BLVD. TRACK CLEARANCE OPERATION

MT. VERNON / SE BLVD. LIMITED SERVICE OPERATION SIGNAL PHASING

MKEC
Wichita, KS • 316-684-9600

MT. VERNON IMPROVEMENTS

STREET IMPROVEMENTS FOR
BROADWAY TO SOUTHEAST BLVD.

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TRAFFIC SIGNAL PLAN - MT. VERNON AND SE BLVD.

PROJECT NO.	87 N-0660-01
DATE	8/19/2019
SCALE	1"=20'

DESIGNED	DRAWN	CHECKED
JRA	WNJ	JRA

NO.	REVISION	DATE

SHEET NO.
123 OF 198

Sh. No. 123

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