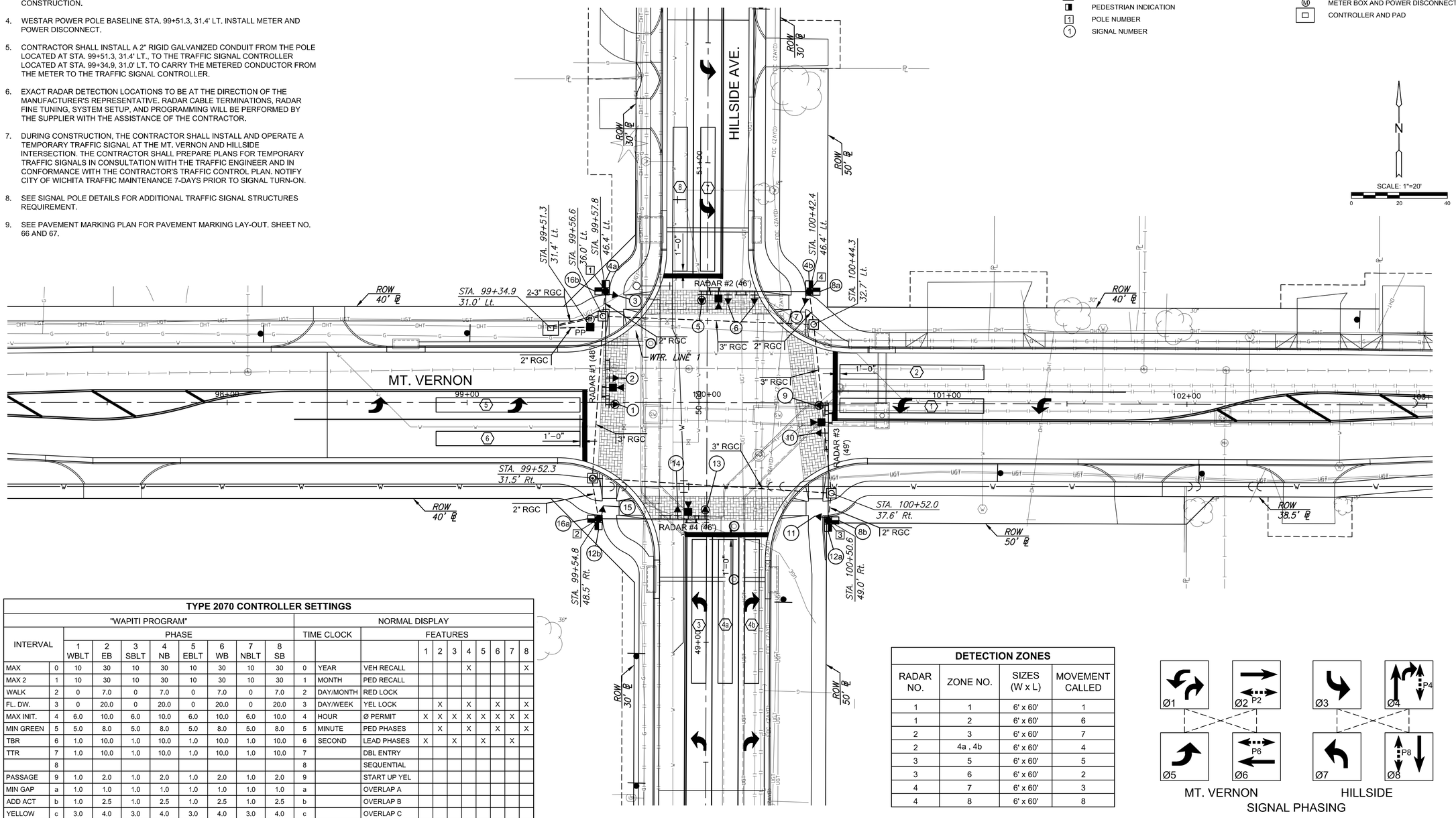
PLOTTED: Wednesday, April 17, 2019 @ 11:42AM

## 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, CONDUIT RUNS AND CONTROLLER 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. WESTAR POWER POLE BASELINE STA. 99+51.3, 31.4' LT. INSTALL METER AND POWER DISCONNECT.
5. CONTRACTOR SHALL INSTALL A 2" RIGID GALVANIZED CONDUIT FROM THE POLE LOCATED AT STA. 99+51.3, 31.4' LT., TO THE TRAFFIC SIGNAL CONTROLLER LOCATED AT STA. 99+34.9, 31.0' LT. TO CARRY THE METERED CONDUCTOR FROM THE METER TO THE TRAFFIC SIGNAL CONTROLLER.
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. SHEET NO. 66 AND 67.

## LEGEND

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




## TYPE 2070 CONTROLLER SETTINGS

"WAPITI PROGRAM"

| INTERVAL | | 1 WBLT | 2 EB | 3 SBLT | 4 NB | 5 EBLT | 6 WB | 7 NBLT | 8 SB |
|---|---|---|---|---|---|---|---|---|---|
| MAX | 0 | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 |
| MAX 2 | 1 | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 |
| WALK | 2 | 0 | 7.0 | 0 | 7.0 | 0 | 7.0 | 0 | 7.0 |
| FL. DW. | 3 | 0 | 20.0 | 0 | 20.0 | 0 | 20.0 | 0 | 20.0 |
| MAX INIT. | 4 | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 10.0 | 6.0 | 10.0 |
| MIN GREEN | 5 | 5.0 | 8.0 | 5.0 | 8.0 | 5.0 | 8.0 | 5.0 | 8.0 |
| TBR | 6 | 1.0 | 10.0 | 1.0 | 10.0 | 1.0 | 10.0 | 1.0 | 10.0 |
| TTR | 7 | 1.0 | 10.0 | 1.0 | 10.0 | 1.0 | 10.0 | 1.0 | 10.0 |
| | 8 | | | | | | | | |
| PASSAGE | 9 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| MIN GAP | a | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ADD ACT | b | 1.0 | 2.5 | 1.0 | 2.5 | 1.0 | 2.5 | 1.0 | 2.5 |
| YELLOW | c | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 |
| RED CLR. | d | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 | 1.5 |
| RED REV. | e | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WALK II | f | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

NORMAL DISPLAY

| TIME CLOCK | | FEATURES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | YEAR | VEH RECALL | | | | X | | | | X |
| 1 | MONTH | PED RECALL | | | | | | | | |
| 2 | DAY/MONTH | RED LOCK | | | | | | | | |
| 3 | DAY/WEEK | YEL LOCK | | X | | X | | X | | X |
| 4 | HOUR | Ø PERMIT | X | X | X | X | X | X | X | X |
| 5 | MINUTE | PED PHASES | | X | | X | | X | | X |
| 6 | SECOND | LEAD PHASES | X | | X | | X | | X | |
| | | DBL ENTRY | | | | | | | | |
| 8 | | SEQUENTIAL | | | | | | | | |
| 9 | | START UP YEL | | | | | | | | |
| a | | OVERLAP A | | | | | | | | |
| b | | OVERLAP B | | | | | | | | |
| c | | OVERLAP C | | | | | | | | |
| d | | OVERLAP D | | | | | | | | |
| e | | EXCLUSIVE | | | | | | | | |
| f | | SIM GAP | | | | | | | | |

LTT-2

## DETECTION ZONES

| RADAR NO. | ZONE NO. | SIZES (W x L) | MOVEMENT CALLED |
|---|---|---|---|
| 1 | 1 | 6' x 60' | 1 |
| 1 | 2 | 6' x 60' | 6 |
| 2 | 3 | 6' x 60' | 7 |
| 2 | 4a , 4b | 6' x 60' | 4 |
| 3 | 5 | 6' x 60' | 5 |
| 3 | 6 | 6' x 60' | 2 |
| 4 | 7 | 6' x 60' | 3 |
| 4 | 8 | 6' x 60' | 8 |




MT. VERNON HILLSIDE
SIGNAL PHASING

MKEC
Wichita, KS • 316-684-9600

STREET IMPROVEMENTS FOR

# MT. VERNON & HILLSIDE INTERSECTION

PAVING PLANS

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TRAFFIC SIGNAL PLAN

| | |
|---|---|
| PROJECT NO. | 472-85286 |
| DATE | DATE |
| SCALE | 1"=20' |

| DESIGNED | DRAWN | CHECKED |
|---|---|---|
| JRA | WNJ | JRA |

| NO. | REVISION | DATE |
|---|---|---|

SHEET NO.

60 OF 101

Sh. No. 60

J:\PROJECTS\2016\160101\51_MT. VERNON AND HILLSIDE_160151 CAD\SHTS\05 CIVIL\SIGNALS\160151-SP01.DWG