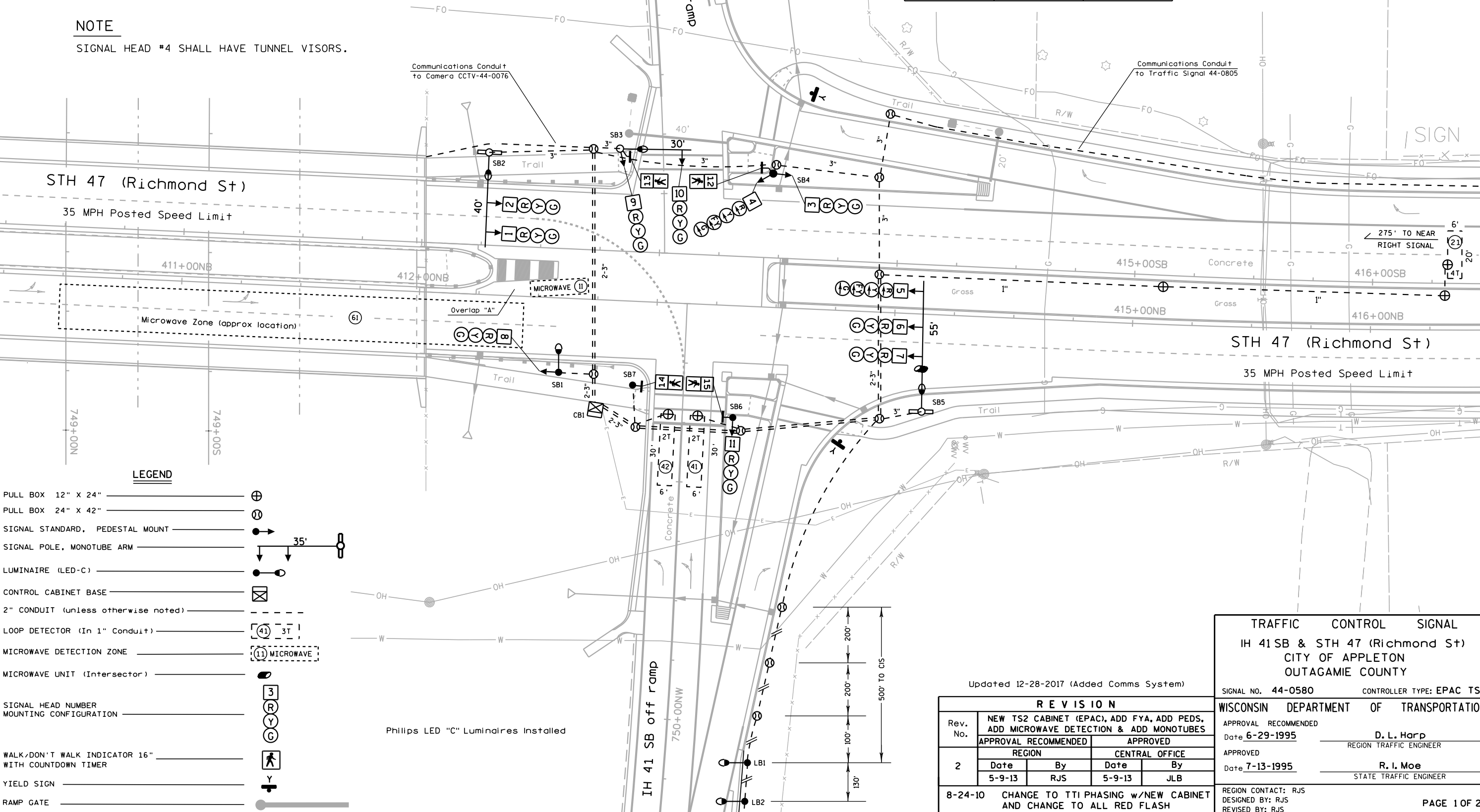**2**

## GENERAL NOTE

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.
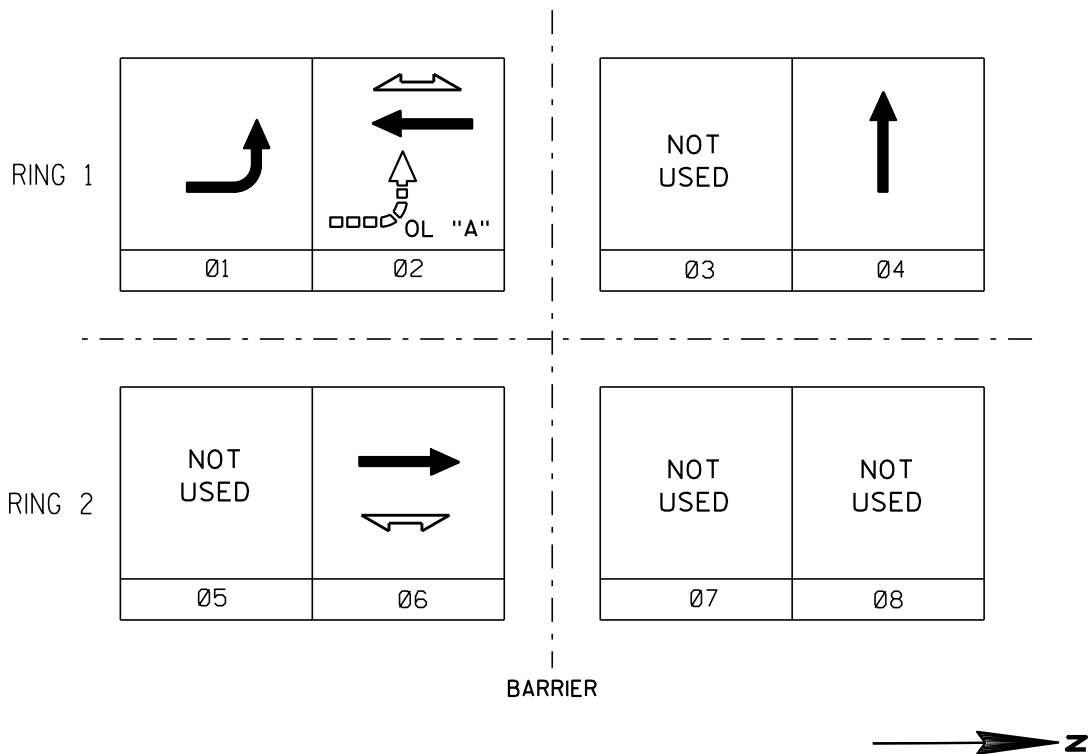
### NOTE

SIGNAL HEAD #4 SHALL HAVE TUNNEL VISORS.

IH 41 SB on ramp
747+00SW

Communications Conduit to Camera CCTV-44-0076

Communications Conduit to Traffic Signal 44-0805

SB3

SB2

**STH 47 (Richmond St)**

35 MPH Posted Speed Limit

MICROWAVE

Microwave Zone (approx location)

Overlap "A"

411+00NB    412+00NB

415+00SB    Concrete    416+00SB

**STH 47 (Richmond St)**

35 MPH Posted Speed Limit

415+00NB    Grass    416+00NB

275' TO NEAR RIGHT SIGNAL

749+00N    749+00S

SB1    SB7

CB1

SB6    SB5

Trail

IH 41 SB off ramp    750+00W

500' TO C/S

### CONFIGURATION WITH HEAD NUMBERS

| 3-V | 4-VLFY | 1-P |
|-----|--------|-----|
| R 1, 2, 3 | R | 12, 13 |
| Y 6, 7, 8 | Y 4, 5 | 14, 15 |
| G 9, 10, 11 | FY | |
| | G | |

### MONOTUBE STRUCTURE NUMBERS

| SB2 | S-44-106 |
|-----|----------|
| SB3 | S-44-107 |
| SB5 | S-44-108 |

## LEGEND

| | |
|---|---|
| PULL BOX 12" X 24" | ⊕ |
| PULL BOX 24" X 42" | ⬚ |
| SIGNAL STANDARD, PEDESTAL MOUNT | ●— |
| SIGNAL POLE, MONOTUBE ARM | 35' |
| LUMINAIRE (LED-C) | ●—● |
| CONTROL CABINET BASE | ⊠ |
| 2" CONDUIT (unless otherwise noted) | ----- |
| LOOP DETECTOR (In 1" Conduit) | 41  3T |
| MICROWAVE DETECTION ZONE | 11  MICROWAVE |
| MICROWAVE UNIT (Intersector) | ⬗ |
| SIGNAL HEAD NUMBER MOUNTING CONFIGURATION | 3 R Y G |
| WALK/DON'T WALK INDICATOR 16" WITH COUNTDOWN TIMER | 🚶 Y |
| YIELD SIGN | ▽ |
| RAMP GATE | ● |

Philips LED "C" Luminaires Installed

LB1
LB2

Updated 12-28-2017 (Added Comms System)

### TRAFFIC CONTROL SIGNAL
### IH 41 SB & STH 47 (Richmond St)
### CITY OF APPLETON
### OUTAGAMIE COUNTY

SIGNAL NO. 44-0580    CONTROLLER TYPE: EPAC TS2

**WISCONSIN DEPARTMENT OF TRANSPORTATION**

APPROVAL RECOMMENDED
Date 6-29-1995
D. L. Harp
REGION TRAFFIC ENGINEER

APPROVED
Date 7-13-1995
R. I. Moe
STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RJS

PAGE 1 OF 2

#### REVISION

| Rev. No. | NEW TS2 CABINET (EPAC), ADD FYA, ADD PEDS, ADD MICROWAVE DETECTION & ADD MONOTUBES | | | |
|----------|-------------|------|------|------|
| | APPROVAL RECOMMENDED | | APPROVED | |
| | REGION | | CENTRAL OFFICE | |
| 2 | Date | By | Date | By |
| | 5-9-13 | RJS | 5-9-13 | JLB |
| 8-24-10 | CHANGE TO TTI PHASING w/NEW CABINET AND CHANGE TO ALL RED FLASH | | | |

PROJECT NO: 1130-33-71    HWY: IH 41    COUNTY: OUTAGAMIE    TRAFFIC CONTROL SIGNAL  S44-0580    SHEET    E

FILE NAME : F:\d3_traffi\S-580,rev2.up.dgn    PLOT DATE : 28-DEC-2017 12:26    PLOT BY : dotc5s    PLOT NAME : S-580,rev2.up    PLOT SCALE : 40:1    WISDOT/CADDS SHEET 42

| HEAD NUMBERS | | FLASH |
|---|---|---|
| 01 | 4, 5 | - |
| 02 | 1, 2, 3 | R |
| 03 | | |
| 04 | 9, 10, 11 | R |
| 05 | | |
| 06 | 6, 7, 8 | R |
| 07 | | |
| 08 | | |
| 02P | 12, 13 | |
| 04P | | |
| 06P | 14, 15 | |
| 08P | | |
| OLA | 4, 5 | R ← |
| OLB | | |
| OLC | | |
| OLD | | |

**RING 1**

| 01 | 02 OL "A" |
|---|---|

| NOT USED 03 | ↑ 04 |
|---|---|

**RING 2**

| NOT USED 05 | 06 |
|---|---|

| NOT USED 07 | NOT USED 08 |
|---|---|

BARRIER

→ z

## CONTROLLER LOGIC

| PHASE NUMBER | PHASE LOCKING | DUAL ENTRY W / Ø | PHASE RECALL | PHASE ACTIVE |
|---|---|---|---|---|
| 1 | | | | YES |
| 2 | | | PED | YES |
| 3 | | | | |
| 4 | | | | YES |
| 5 | | | | |
| 6 | | | PED | YES |
| 7 | | | | |
| 8 | | | | |

## OVERLAP SPECIAL

| | Protected | Permissive |
|---|---|---|
| OL "A" | 1 | 2 |
| OL "B" | | |
| OL "C" | | |
| OL "D" | | |

| TYPE OF INTERCONNECT/COMMUNICATION | |
|---|---|
| CELL MODEM | |
| CLOSED LOOP | |
| TWISTED PAIR* | |
| FIBER OPTIC* | x |
| FIBER OPTIC (ETHERNET) | |
| RADIO | |

| TYPE OF COORDINATION | |
|---|---|
| NONE | |
| TBC | |
| TRAFFIC RESPONSIVE | |
| ADAPTIVE | |

*LOCATION OF MASTER
CONTROLLER NO:   S-580
SIGNAL SYSTEM #:   SS0153

| TYPE OF LIGHTING | |
|---|---|
| BY OTHER AGENCY | |
| IN TRAFFIC SIGNAL CABINET | x |
| IN SEPARATE DOT LIGHTING CABINET | |

| TYPE OF PRE-EMPT | |
|---|---|
| NONE | x |
| RAILROAD | |
| EMERGENCY VEHICLE | |
| GTT | |
| TOMAR | |
| HARDWIRE | |
| 3M | |
| LIFT BRIDGE | |
| QUEUE DETECTOR | |

## DETECTOR LOGIC

### RACK # 1

| DETECTOR CHANNEL | 3 | 1 | 7 | 5 | 11 | 9 | 15 | 13 |
|---|---|---|---|---|---|---|---|---|
| PLAN LOOP DETECTOR #(S) | 11 | 61 | 21 | | 41 | | | |
| ASSIGNED PHASE | 1 | 6 | 2 | | 4 | | | |
| OPERATION MODE | Veh | Veh | Veh | | Veh | | | |
| SWITCH TO PHASE | | | | | | | | |
| EXTEND | | | | | | | | |
| DELAY | | | | | | | | |
| DETECTOR CHANNEL | 4 | 2 | 8 | 6 | 12 | 10 | 16 | 14 |
| PLAN LOOP DETECTOR #(S) | | | | | 42 | | | |
| ASSIGNED PHASE | | | | | 4 | | | |
| OPERATION MODE | | | | | Veh | | | |
| SWITCH TO PHASE | | | | | | | | |
| EXTEND | | | | | | | | |
| DELAY | | | | | | | | |

### RACK # 2

| DETECTOR CHANNEL | 19 | 17 | 23 | 21 | 27 | 25 | 31 | 29 |
|---|---|---|---|---|---|---|---|---|
| PLAN LOOP DETECTOR #(S) | | | | | | | | |
| ASSIGNED PHASE | | | | | | | | |
| OPERATION MODE | | | | | | | | |
| SWITCH TO PHASE | | | | | | | | |
| EXTEND | | | | | | | | |
| DELAY | | | | | | | | |
| DETECTOR CHANNEL | 20 | 18 | 24 | 22 | 28 | 26 | 32 | 30 |
| PLAN LOOP DETECTOR #(S) | | | | | | | | |
| ASSIGNED PHASE | | | | | | | | |
| OPERATION MODE | | | | | | | | |
| SWITCH TO PHASE | | | | | | | | |
| EXTEND | | | | | | | | |
| DELAY | | | | | | | | |

GENERAL NOTES:

1. PROVIDE FOR HAND CONTROL.

Updated 12-28-2017 (Added Comms System)

IH 41 SB & STH 47 (Richmond St)
CITY OF APPLETON
OUTAGAMIE COUNTY

SIGNAL NO. 44-0580

CABINET: TS2     CONTROLLER: EPAC

DATE: 5-9-2013     PAGE NO. 2 OF 2

PROJECT NO: 1130-33-71   |   HWY: IH 41   |   COUNTY: OUTAGAMIE   |   SEQUENCE OF OPERATIONS   S44-0580   |   SHEET    E

FILE NAME : F:\d3_traffi\S-580.rev2.up.dgn    PLOT DATE : 28-DEC-2017 12:26    PLOT BY : dotc5s    PLOT NAME : S-580.seq.rev2.up   PLOT SCALE : 40:1    WISDOT/CADDS SHEET 42