



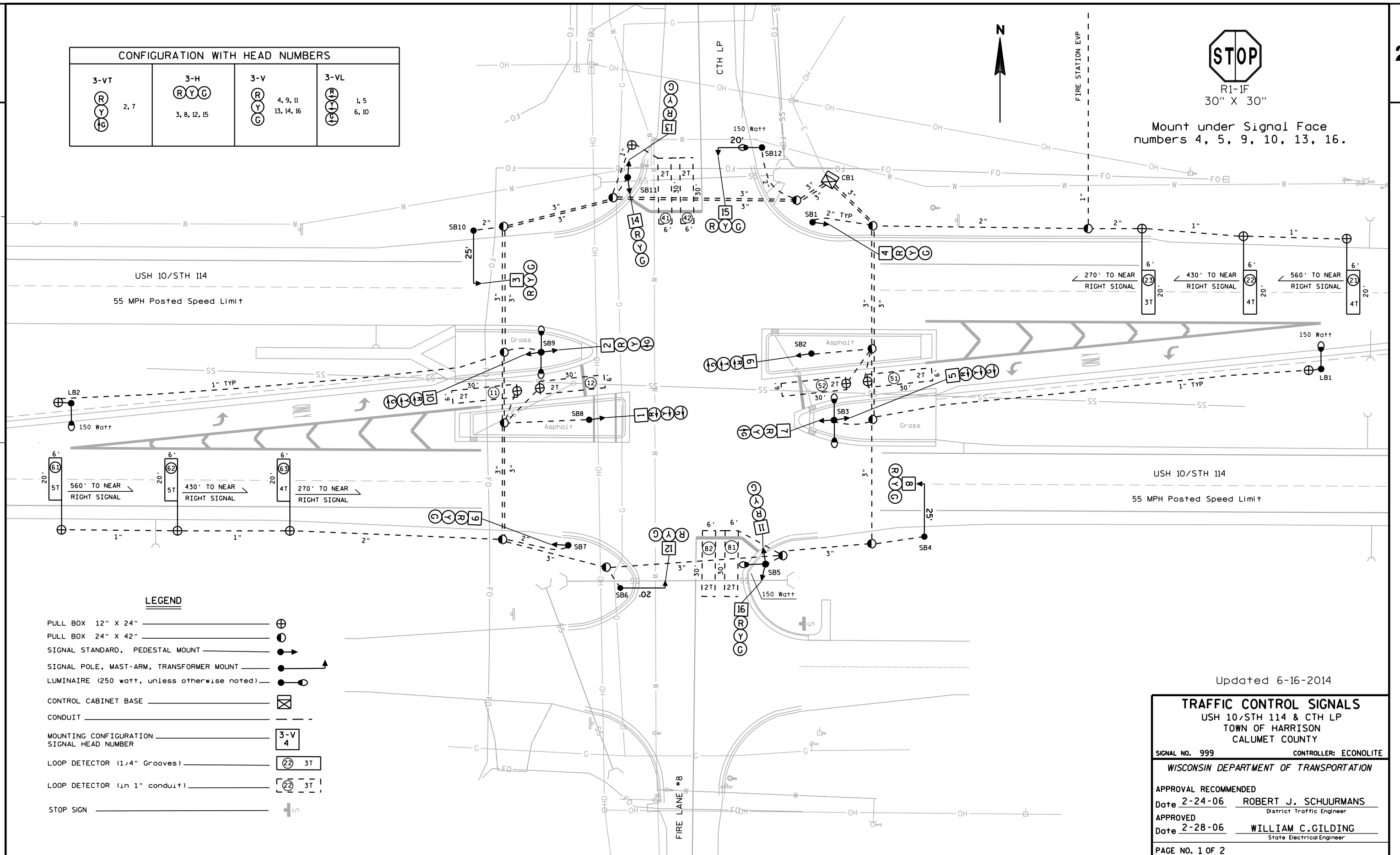


CONFIGURATION WITH HEAD NUMBERS

3-VT	3-H	3-V	3-VL
 2, 7	 3, 8, 12, 15	 4, 9, 11 13, 14, 16	 1, 5 6, 10



Updated 6-16-2014

TRAFFIC CONTROL SIGNALS

USH 10/STH 114 & CTH LP
TOWN OF HARRISON
CALUMET COUNTY

SIGNAL NO. 999 CONTROLLER: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED

Date 2-24-06 ROBERT J. SCHUURMANS
District Traffic EngineerAPPROVED
Date 2-28-06 WILLIAM C. GILDING
State Electrical Engineer

PAGE NO. 1 OF 2

STATE PROJECT NUMBER: 0083-03-01

HWY: USH 10/STH 114

COUNTY: CALUMET


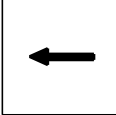

TRAFFIC CONTROL SIGNAL S-999

SCALE, FEET 



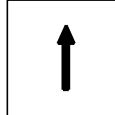
SHEET NO:

E

SEQUENCE OF OPERATION

										NOT USED							
		01				02				03				04			
		CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO			
		R/W	*	*		R/W	*	*		R/W	*	*		R/W	*	*	
RING 1	01	6,10	G	Y	R					R	R	R					
	02	2,3,4	R	R	R					G	Y	R					
	03																
	04	11,12,13	R	R	R					R	R	R					
	05	1,5	R	R	R					R	R	R					
	06	7,8,9	R	R	R					R	R	R					
	07																
	08	14,15,16	R	R	R					R	R	R					
02P																	
04P																	
06P																	
08P																	

RING 2

										NOT USED							
		05				06				07				08			
		CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO			
		R/W	*	*		R/W	*	*		R/W	*	*		R/W	*	*	
RING 2	01	6,10	R	R	R					R	R	R					
	02	2,3,4	R	R	R					R	R	R					
	03																
	04	11,12,13	R	R	R					R	R	R					
	05	1,5	G	Y	R					R	R	R					
	06	7,8,9	R	R	R					G	Y	R					
	07																
	08	14,15,16	R	R	R					R	R	R					
02P																	
04P																	
06P																	
08P																	

BARRIER

- * * CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)
* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK.
D = DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
01	5 OR 6	2,4,8
02	5 OR 6	1,4,8
03		
04	8	1,2,5,6
05	1 OR 2	4,6,8
06	1 OR 2	4,5,8
07		
08	4	1,2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR RACK CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE (feet)	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11	3	x			φ1	φ1				6X30	2
12	4	x			φ1	φ1				6X30	2
21	1	x			φ2	φ2				6X20	4
22	2	x			φ2	φ2			x	6X20	4
23	7	x			φ2	φ2				6X20	3
41	11	x			φ4	φ4		x		6X30	2
42	12	x			φ4	φ4		x		6X30	2
51	19	x			φ5	φ5				6X30	2
52	20	x			φ5	φ5				6X30	2
61	17	x			φ6	φ6				6X20	5
62	18	x			φ6	φ6			x	6X20	5
63	23	x			φ6	φ6				6X20	4
81	27	x			φ8	φ8		x		6X30	2
82	28	x			φ8	φ8		x		6X30	2

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				YES
2			MIN.	YES
3				
4		W/8		YES
5				YES
6			MIN.	YES
7				
8		W/4		YES

EMERGENCY VEHICLE PRE-EMPTION

- UPON PRE-EMPTION, THE SIGNAL SHALL CLEAR TO PHASES 4 & 8
- ANY GREEN INTERVAL IN EFFECT SHALL TIME A MINIMUM 5 SECOND DURATION BEFORE ENTERING THE PRE-EMPT SEQUENCE. ELAPSED GREEN TIME PRIOR TO THE PRE-EMPT SHALL BE CONSIDERED THE MINIMUM TIME.
- ANY CLEARANCE INTERVAL IN EFFECT SHALL TIME ITS FULL NORMAL DURATION BEFORE ENTERING THE PRE-EMPT SEQUENCE.
- THE SIGNAL SHALL DWELL IN PHASE 4 & PHASE 8 DURING PRE-EMPTION.
- UPON ACTIVATION FROM THE FIRE STATION PUSH BUTTON, THE SIGNAL SHALL DWELL FOR 60-120 SECONDS BEFORE RETURNING TO NORMAL OPERATION.

TYPE OF INTERCONNECT	
NONE	
TBC	<input checked="" type="checkbox"/>
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	<input checked="" type="checkbox"/>

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	<input checked="" type="checkbox"/>
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1)
3. PROVIDE FOR HAND CONTROL.

Updated 6-16-2014

TRAFFIC CONTROL SIGNALS

USH 10/STH 114 & CTH LP
TOWN OF HARRISON
CALUMET COUNTY

SIGNAL NO. 999

CONTROLLER TYPE: ECONOLITE

DATE: 2-28-2006

PAGE NO. 2 OF 2

PROJECT NO: 0083-03-01

HWY: USH10/STH114

COUNTY: CALUMET

SEQUENCE OF OPERATIONS S-999

SHEET NO:

E