

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D1-3	1-6x6	INPLACE
D1-2, D1-4	1-6x6	INPLACE
D2-1, D2-2	1-6x6	INPLACE
D3-1	2-6x6	INPLACE
D3-2	2-6x6	INPLACE
D4-1	1-6x6	120'
D4-2, D4-3	2-6x6	5' & 20'
D5-1, D5-3	1-6x6	INPLACE
D5-2, D5-4	1-6x6	INPLACE
D6-1, D6-2	1-6x6	INPLACE
D7-1	2-6x6	20' & 50'
D7-2	2-6x6	5' & 35'
D8-1	1-6x6	INPLACE
D8-2	1-6x6	INPLACE
D8-3	1-6x6, 1-6x10	INPLACE

-ALL NEW LOOP DETECTORS SHALL BE PVC UNLESS OTHERWISE NOTED  
-LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET

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(3) INPLACE:  
PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
3-ONE WAY SIGNALS OVERHEAD  
(0', 17' AND 29' FROM END OF MAST ARM)  
1-TYPE 10A-POLE MOUNTED AT 90 DEG  
1-TYPE 10A-POLE MOUNTED AT 180 DEG  
LUMINAIRE-200 WATT H.P.S.  
1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)  
2-R6-1 SIGN PANELS (36"x12")-POLE MOUNTED AT 0 AND 180 DEG  
1-R9-3a SIGN FACING POLE 2  
1-TYPE D SIGN PANEL OVERHEAD

REMOVE:  
1-R9-3a SIGN FACING POLE 4  
FURNISH AND INSTALL:  
1-C.D. PED HEAD AT 180 DEG (TYPE 10B BRACKET)  
RAKE BACK POLE TO GET 17'-4" CLEARANCE FROM BOTTOM OF LOWEST SIGNAL HEAD TO PAVEMENT SURFACE  
PULL BACK (TO HH-8):  
1-3/C #12

INPLACE:  
EXTEND INTO HH-8:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

FURNISH AND INSTALL:  
PED PB STATION  
1-PB AND SIGN (RT ARROW) (PB6-2)  
EXTEND INTO HH-8:  
1" CONDUIT  
REINSTALL:  
1-3/C #12

ABANDON:  
2" CONDUIT  
PULL BACK:  
4-2/C #14 (TO HH 8)  
F&I:  
2" CONDUIT  
REINSTALL:  
4-2/C #14

REMOVE:  
HH 17  
F&I:  
HH 17

ABANDON:  
2" CONDUIT  
PULL BACK:  
1-2/C #14 (TO HH 16)  
F&I:  
2" CONDUIT  
REINSTALL:  
1-2/C #14

REMOVE:  
HH 16  
F&I:  
HH 16

(4) INPLACE:  
PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
2-ONE WAY SIGNALS OVERHEAD  
(0' AND 17' FROM END OF MAST ARM)  
1-TYPE 10A-POLE MOUNTED AT 90 DEG  
1-TYPE 10B-POLE MOUNTED AT 180 DEG  
LUMINAIRE-200 WATT H.P.S.  
1-PEDESTRIAN PUSH BUTTON AND SIGN (R10-4b)  
1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)  
1-TYPE D SIGN PANEL OVERHEAD

REMOVE:  
1-R9-3a SIGN FACING POLE 3  
FURNISH AND INSTALL:  
1-C.D. PED HEAD AT 180 DEG (TYPE 10B BRACKET)  
1-PEDESTRIAN PUSH BUTTON AND SIGN (R10-4b)

INPLACE:  
EXTEND INTO HH-9:  
3" RSC  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

(1) INPLACE:  
PA100 POLE FOUNDATION  
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
3-ONE WAY SIGNALS OVERHEAD  
(0', 17', AND 29' FROM END OF MAST ARM)  
1-TYPE 10B-POLE MOUNTED AT 90 DEG  
1-TYPE 10B-POLE MOUNTED AT 180 DEG  
LUMINAIRE-200 WATT H.P.S.  
2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-4b)  
1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)  
2-R6-1 SIGN PANELS (36"x12")-POLE MOUNTED AT 0 AND 180 DEG  
1-TYPE D SIGN PANEL OVERHEAD

\* RAKE BACK POLE TO GET 17'-4" CLEARANCE FROM BOTTOM OF LOWEST SIGNAL HEAD TO PAVEMENT SURFACE  
EXTEND INTO HH-1:  
3" RSC  
2-12/C #12  
4-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

(A) INPLACE:  
CONTROLLER CABINET FOUNDATION  
EXTEND INTO HH-14:  
2" RSC  
3-1/C #6 (LUM)  
EXTEND INTO HH-13:  
4" RSC  
4-12/C #12  
7-3/C #12  
2-3/C #20  
10-2/C #14  
1-FIBER OPTIC (INTERCONNECT)  
\* F&I:  
1-2/C #14

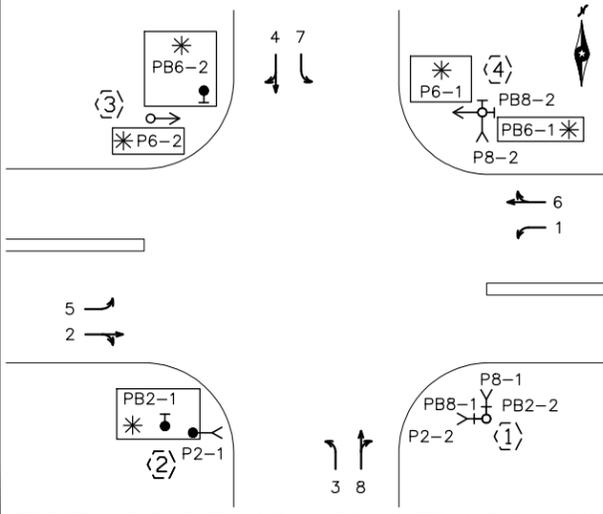
EXTEND INTO HH-1:  
4" RSC  
4-12/C #12  
7-3/C #12  
2-3/C #20  
11-2/C #14  
1-FIBER OPTIC CABLE  
STUB OUT 2-3" RSC (THREAD AND CAP BOTH ENDS-FOR FUTURE USE)

(B) INPLACE:  
SERVICE CABINET CABINET FOUNDATION  
EXTEND INTO HH-14:  
UNMETERED STREET LIGHT SERVICE  
2" RSC  
4-3/C #12 (LUM)  
METERED SIGNAL SERVICE  
3-1/C #6  
EXTEND INTO HH-15:  
2" RSC  
3-1/C #12

- NOTES:
- REFER TO "FOR INFORMATION ONLY" SHEETS FOR INPLACE SIGNAL COMPONENTS.
  - ENSURE THE EXACT LOCATION OF HANDHOLE AND LOOP DETECTORS ARE VERIFIED IN THE FIELD.
  - FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS AND CONCRETE WALK, SEE CIVIL SHEET.
  - THIS PLAN SPECIFICS CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD.
  - USE PVC OR HDPE FOR ALL NEW CONDUIT.
  - NEW CONDUIT SIZES ARE NOMINAL DIAMETER.
  - ALL NEW WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
  - THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
  - ALL COSTS FOR ANY REQUIRED RELOCATION OF SIGNAL HEAD AND REMOVAL OF BRACKETS SHALL BE INCIDENTAL. THE CONTRACTOR SHALL PLUG AND SEAL HOLES IN POLES AT REMOVED BRACKET LOCATIONS.
  - THE CONTRACTOR SHALL PLUG AND SEAL HOLES IN POLES AT REMOVED PUSH BUTTON LOCATIONS.

(2) REMOVE:  
PA100 POLE FOUNDATION  
1-5' MAST ARM EXTENSION  
1-PEDESTRIAN PUSH BUTTON AND SIGN (R10-4b)  
SALVAGE AND REINSTALL:  
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)  
1-ONE WAY SIGNAL OVERHEAD (SALVAGE FROM END OF MAST ARM EXTENSION AND REINSTALL ON ANGLE MOUNT AT 0')  
1-TYPE 10A-POLE MOUNTED AT 90 DEG  
1-TYPE 10B-POLE MOUNTED AT 180 DEG  
LUMINAIRE-200 WATT H.P.S.  
1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)  
1-R9-3a SIGN FACING POLE 3  
1-TYPE D SIGN PANEL OVERHEAD  
FURNISH AND INSTALL:  
PA100 POLE FOUNDATION  
1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 12'  
ABANDON:  
3" RSC TO HH-3  
PULL BACK (TO HH-3):  
2-12/C #12  
3-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20  
FURNISH AND INSTALL:  
3" CONDUIT TO HH-3  
REINSTALL:  
2-12/C #12  
2-3/C #12  
1-3/C #12 (LUM)  
1-3/C #20

CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

SIGNAL SYSTEM OPERATION

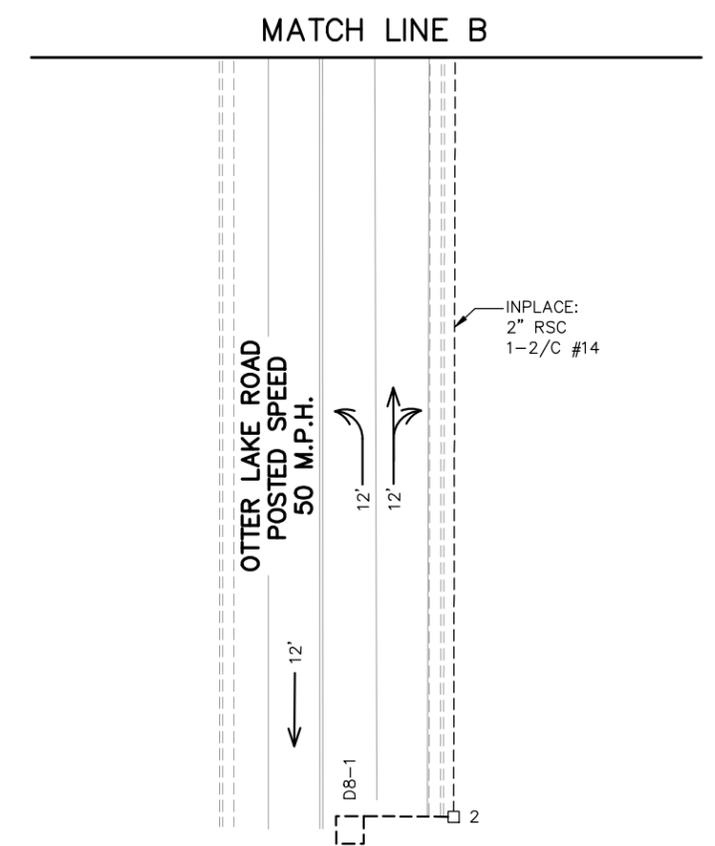
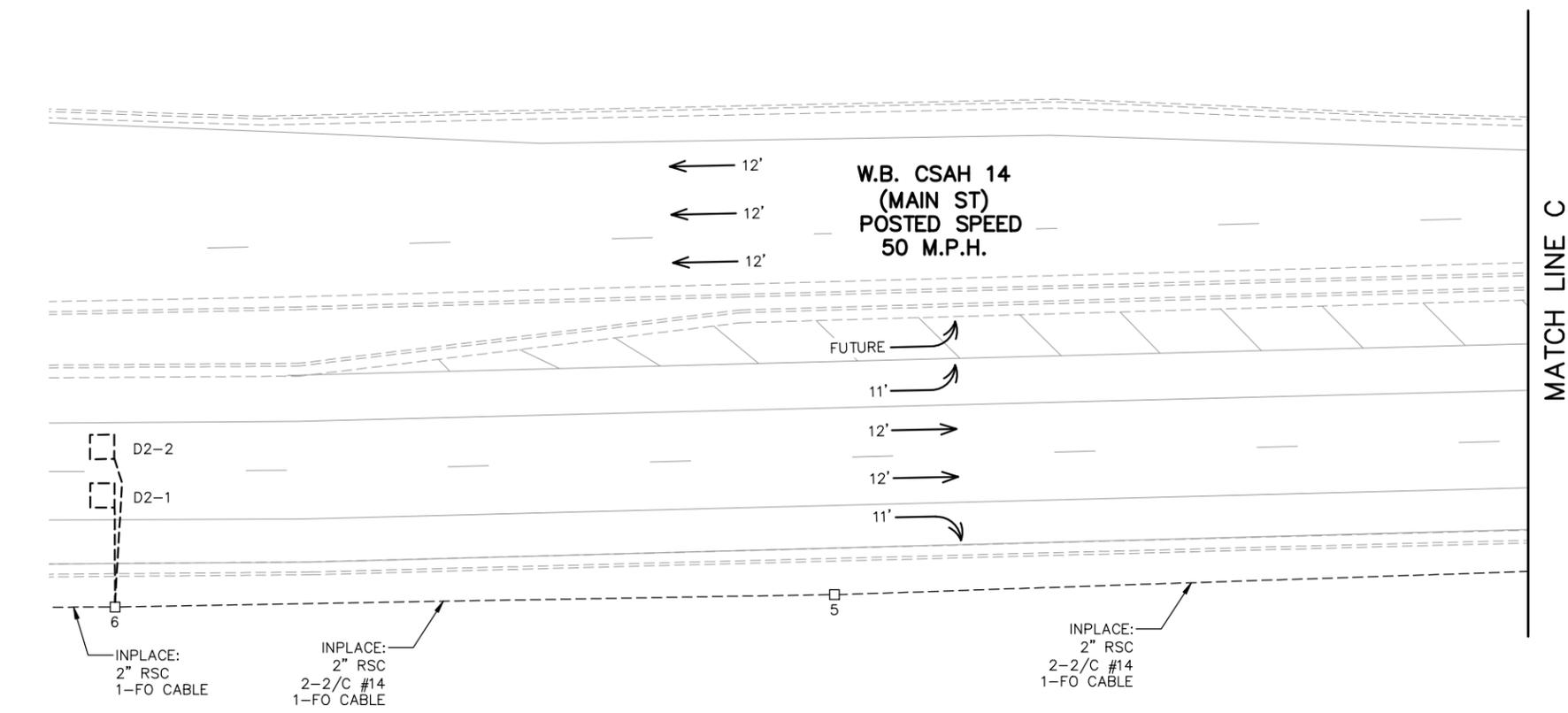
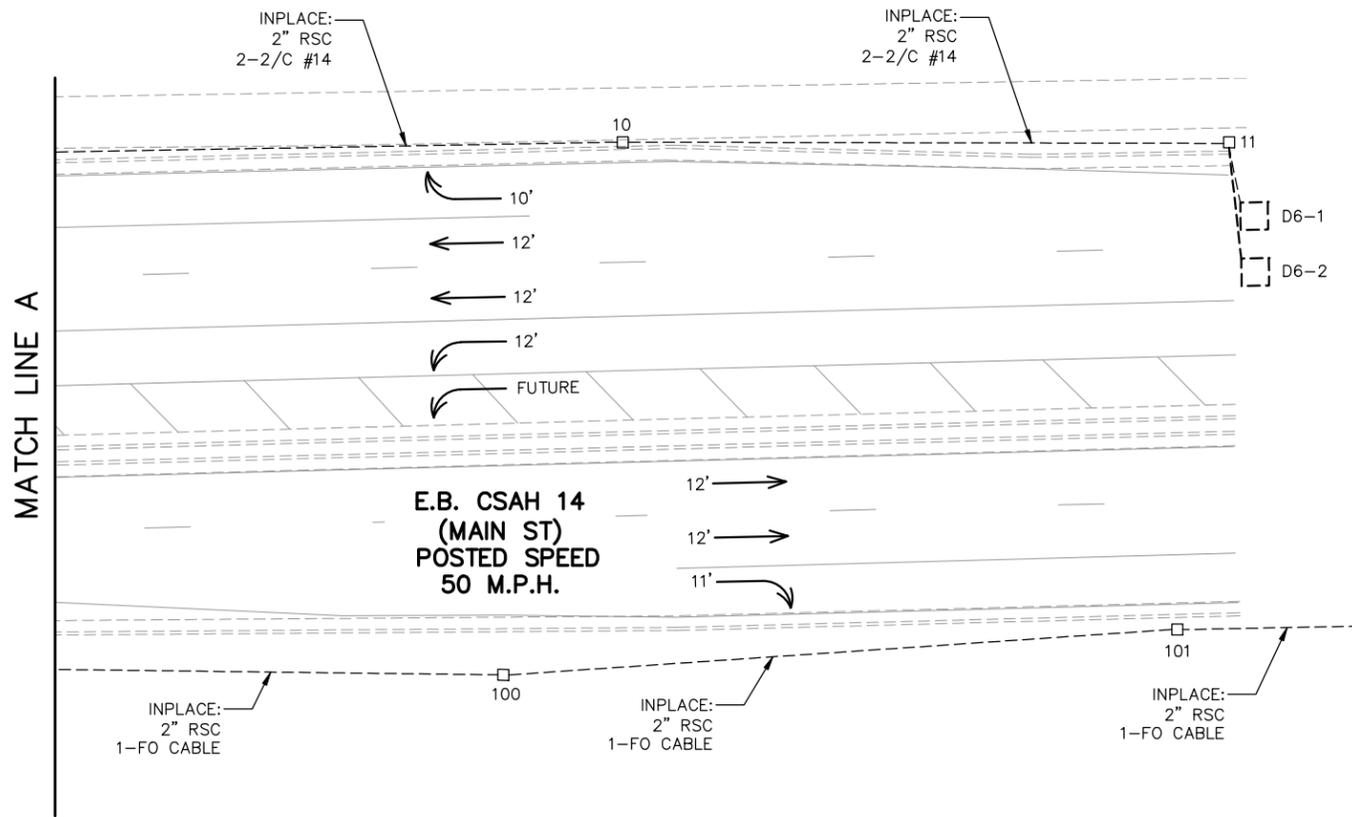
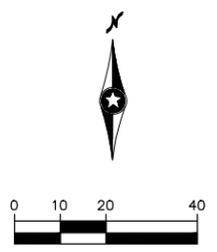
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED LEFT TURN PHASES, AND PHASES 3 AND 7 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

W.B. CSAH 14 (MAIN ST)  
POSTED SPEED 50 M.P.H.

E.B. CSAH 14 (MAIN ST)  
POSTED SPEED 50 M.P.H.

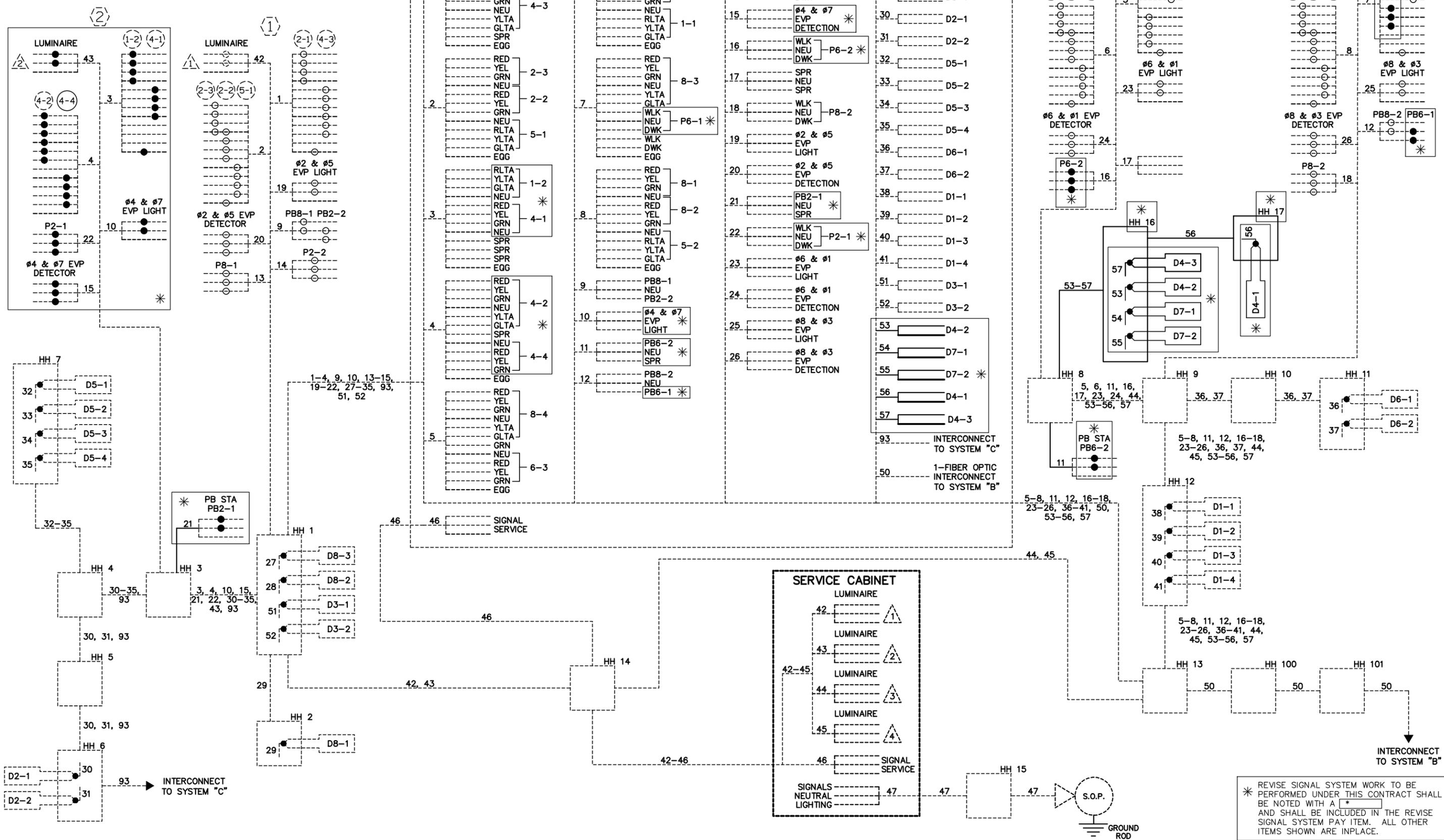
OTTER LAKE ROAD  
POSTED SPEED 30 M.P.H.

OTTER LAKE ROAD  
POSTED SPEED 50 M.P.H.



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# CONTROLLER CABINET



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