

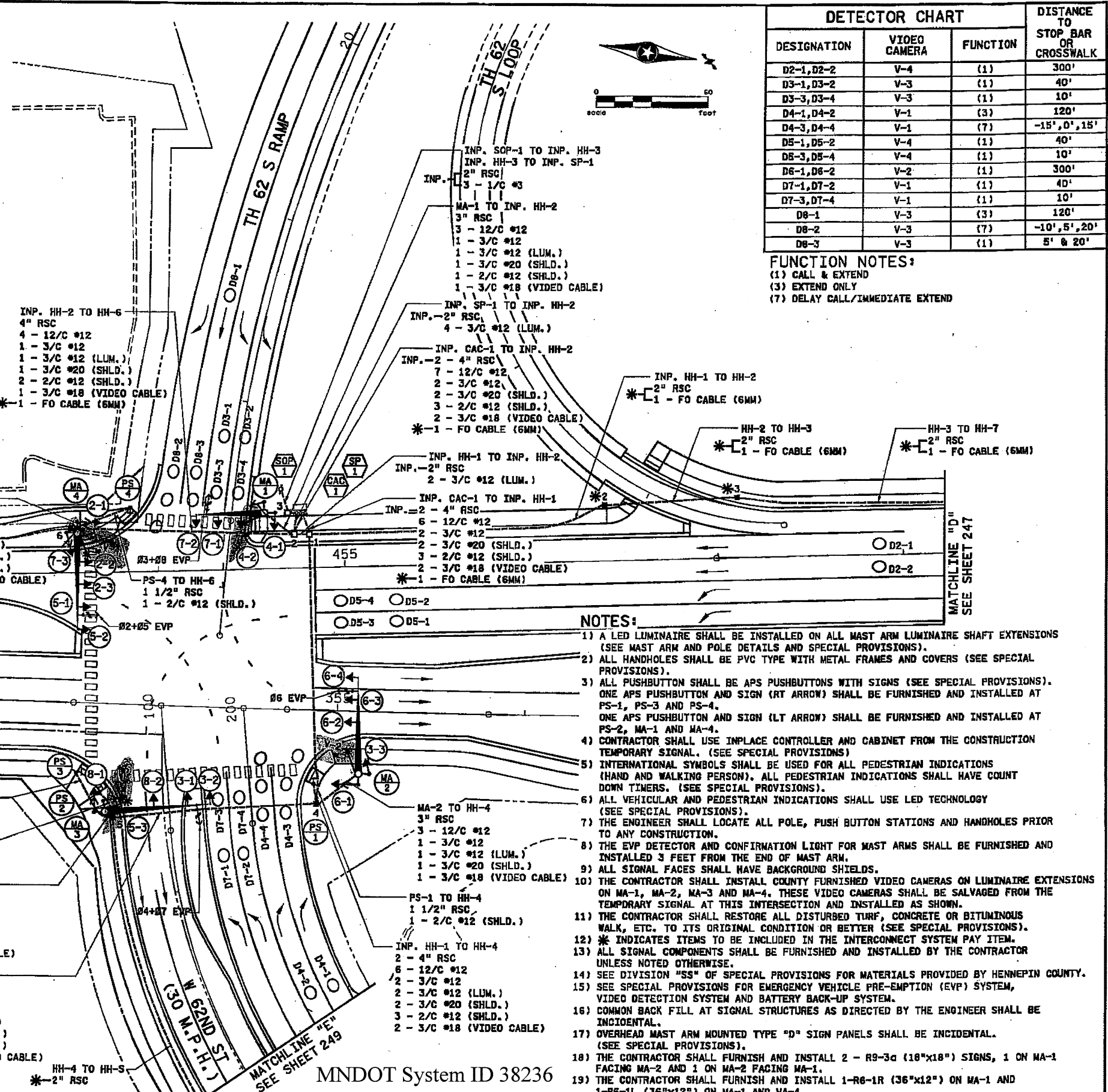
SIGNAL INDICATION AND BRACKETING

SIG. POLE NO.	SIGNAL FACE MOUNT	SIG. #	VEHICULAR INDICATION SIZE AND TYPE			PEDESTRIAN DON'T WALK	BRACKET MOUNTING ANGLE, TYPE AND STANDARD PLATE NO.
			CIRCULAR	TURN ARROWS	RED		
MA-1	MAST ARM (END)(7-2)	7		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-1	MAST ARM (MID)(7-1)	7		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-1	MAST ARM (MID)(4-2)	4,5	12"	12" RTA	12" RTA		** STRAIGHT MNT. PLUMBIZER
MA-1	POLE MOUNT (4-1)	4,5	12"	12" RTA	12" RTA		180° TYPE 10A PLATE 8110E
MA-1	POLE MOUNT (P2-1)	2				12" 12"	90° TYPE 30A PLATE 8110E
MA-2	MAST ARM (END)(6-4)	6	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-2	MAST ARM (MID)(6-2)	6	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-2	MAST ARM (MID)(6-3)	6	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-2	POLE MOUNT (6-1)	6	12"	12"	12"		180° TYPE 10B PLATE 8110E
MA-2	POLE MOUNT (P6-2)	6				12" 12"	90° TYPE 10A PLATE 8110E
MA-2	POLE MOUNT (3-3)	3		12" LTA	12" LTA	12" LTA	90° TYPE 10A PLATE 8110E
MA-3	MAST ARM (END)(3-2)	3		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-3	MAST ARM (MID)(3-1)	3		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-3	MAST ARM (MID)(8-2)	8	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-3	POLE MOUNT (8-1)	8	12"	12"	12"		180° TYPE 10B PLATE 8110E
MA-3	POLE MOUNT (P8-2)	8				12" 12"	270° TYPE 10B PLATE 8110E
MA-3	POLE MOUNT (5-3)	5		12" LTA	12" LTA	12" LTA	12" 12"
MA-3	POLE MOUNT (P8-1)	6				12" 12"	12" 12"
MA-4	MAST ARM (END)(5-2)	5		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-4	MAST ARM (MID)(5-1)	5		12" LTA	12" LTA	12" LTA	** STRAIGHT MNT. PLUMBIZER
MA-4	MAST ARM (MID)(2-2)	2	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-4	MAST ARM (MID)(2-3)	2	12"	12"	12"		** STRAIGHT MNT. PLUMBIZER
MA-4	POLE MOUNT (2-1)	2	12"	12"	12"		180° TYPE 10B PLATE 8110E
MA-4	POLE MOUNT (P2-2)	2				12" 12"	90° TYPE 10B PLATE 8110E
MA-4	POLE MOUNT (7-3)	7		12" LTA	12" LTA	12" LTA	90° TYPE 10B PLATE 8110E
MA-4	POLE MOUNT (P8-1)	8				12" 12"	12" 12"

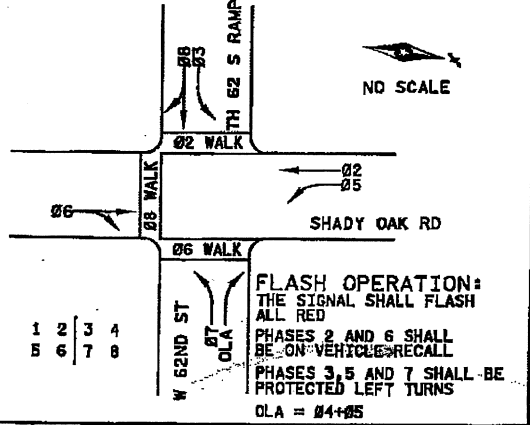
** STRAIGHT MOUNT PLUMBIZER (SEE SPECIAL PROVISIONS)

DETECTOR CHART			DISTANCE TO STOP BAR OR CROSSWALK
DESIGNATION	VIDEO CAMERA	FUNCTION	
D2-1, D2-2	V-4	(1)	300'
D3-1, D3-2	V-3	(1)	40'
D3-3, D3-4	V-3	(1)	10'
D4-1, D4-2	V-1	(3)	120'
D4-3, D4-4	V-1	(7)	-15', 0', 15'
D5-1, D5-2	V-4	(1)	40'
D5-3, D5-4	V-4	(1)	10'
D6-1, D6-2	V-2	(1)	300'
D7-1, D7-2	V-1	(1)	40'
D7-3, D7-4	V-1	(1)	10'
D8-1	V-3	(3)	120'
D8-2	V-3	(7)	-10', 5', 20'
D8-3	V-3	(1)	5' @ 20'

FUNCTION NOTES:
 (1) CALL & EXTEND
 (3) EXTEND ONLY
 (7) DELAY CALL/IMMEDIATE EXTEND



PHASING LAYOUT



NOTES, CONTINUED:
 20) ANY REQUIRED RELOCATION OF THE VIDEO OR EVP DETECTORS BECAUSE OF INSUFFICIENT SIGHT DISTANCE AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE SIGNAL SYSTEM.
 21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM WITH THE POWER COMPANY.
 22) SEE SHEET 250 FOR STATION AND OFFSET OF SIGNAL EQUIPMENT.

- NOTES:**
- 1) A LED LUMINAIRE SHALL BE INSTALLED ON ALL MAST ARM LUMINAIRE SHAFT EXTENSIONS (SEE MAST ARM AND POLE DETAILS AND SPECIAL PROVISIONS).
 - 2) ALL HANDHOLES SHALL BE PVC TYPE WITH METAL FRAMES AND COVERS (SEE SPECIAL PROVISIONS).
 - 3) ALL PUSHBUTTON SHALL BE APS PUSHBUTTONS WITH SIGNS (SEE SPECIAL PROVISIONS). ONE APS PUSHBUTTON AND SIGN (RT ARROW) SHALL BE FURNISHED AND INSTALLED AT PS-1, PS-3 AND PS-4. ONE APS PUSHBUTTON AND SIGN (LT ARROW) SHALL BE FURNISHED AND INSTALLED AT PS-2, MA-1 AND MA-4.
 - 4) CONTRACTOR SHALL USE INPLACE CONTROLLER AND CABINET FROM THE CONSTRUCTION TEMPORARY SIGNAL. (SEE SPECIAL PROVISIONS)
 - 5) INTERNATIONAL SYMBOLS SHALL BE USED FOR ALL PEDESTRIAN INDICATIONS (HAND AND WALKING PERSON). ALL PEDESTRIAN INDICATIONS SHALL HAVE COUNT DOWN TIMERS. (SEE SPECIAL PROVISIONS).
 - 6) ALL VEHICULAR AND PEDESTRIAN INDICATIONS SHALL USE LED TECHNOLOGY (SEE SPECIAL PROVISIONS).
 - 7) THE ENGINEER SHALL LOCATE ALL POLE, PUSH BUTTON STATIONS AND HANDHOLES PRIOR TO ANY CONSTRUCTION.
 - 8) THE EVP DETECTOR AND CONFIRMATION LIGHT FOR MAST ARMS SHALL BE FURNISHED AND INSTALLED 3 FEET FROM THE END OF MAST ARM.
 - 9) ALL SIGNAL FACES SHALL HAVE BACKGROUND SHIELDS.
 - 10) THE CONTRACTOR SHALL INSTALL COUNTY FURNISHED VIDEO CAMERAS ON LUMINAIRE EXTENSIONS ON MA-1, MA-2, MA-3 AND MA-4. THESE VIDEO CAMERAS SHALL BE SALVAGED FROM THE TEMPORARY SIGNAL AT THIS INTERSECTION AND INSTALLED AS SHOWN.
 - 11) THE CONTRACTOR SHALL RESTORE ALL DISTURBED TURF, CONCRETE OR BITUMINOUS WALK, ETC. TO ITS ORIGINAL CONDITION OR BETTER (SEE SPECIAL PROVISIONS).
 - 12) * INDICATES ITEMS TO BE INCLUDED IN THE INTERCONNECT SYSTEM PAY ITEM.
 - 13) ALL SIGNAL COMPONENTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
 - 14) SEE DIVISION "SS" OF SPECIAL PROVISIONS FOR MATERIALS PROVIDED BY HENNEPIN COUNTY.
 - 15) SEE SPECIAL PROVISIONS FOR EMERGENCY VEHICLE PRE-EMPTION (EVP) SYSTEM, VIDEO DETECTION SYSTEM AND BATTERY BACK-UP SYSTEM.
 - 16) COMMON BACK FILL AT SIGNAL STRUCTURES AS DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL.
 - 17) OVERHEAD MAST ARM MOUNTED TYPE "D" SIGN PANELS SHALL BE INCIDENTAL. (SEE SPECIAL PROVISIONS).
 - 18) THE CONTRACTOR SHALL FURNISH AND INSTALL 2 - R9-3d (18"x18") SIGNS, 1 ON MA-1 FACING MA-2 AND 1 ON MA-2 FACING MA-1.
 - 19) THE CONTRACTOR SHALL FURNISH AND INSTALL 1-R6-1R (36"x12") ON MA-1 AND 1-R6-1L (36"x12") ON MA-1 AND MA-4.

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NO	DATE	BY	CHKD	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: NICHOLAS J. ERPELDING
Nick Erpelding
 Date 8-21-12 License 44582

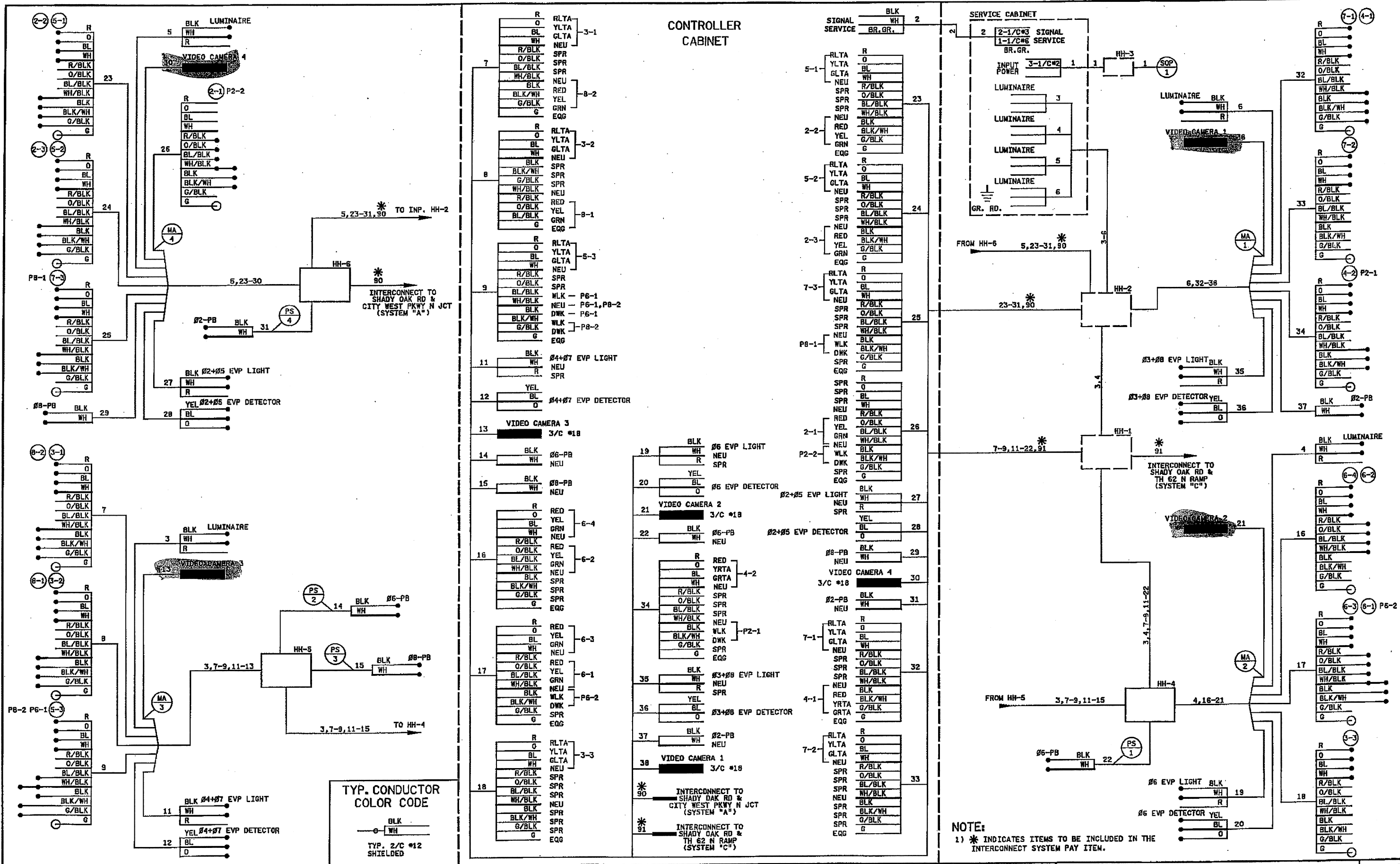
STATE AID PROJECT NO. 181-020-028 027-661-049
 STATE PROJECT NO. 2773-11
 COUNTY PROJECT NO. 1123
 CITY PROJECT NO. 11-5799
 DRAWN BY M. BRESSLER
 DESIGNED BY M. BRESSLER
 CHECKED BY N. ERPELDING
 COMM. NO. 0117566



ENGINEERS
 PLANNERS
 DESIGNERS

CITY OF EDEN PRAIRIE
 TRAFFIC SIGNAL PLANS
 C.S.A.H. 61 (SHADY OAK ROAD)
 SHADY OAK ROAD AT TH 62 SOUTH RAMP AND 62ND STREET

SHEET 245 OF 260



TYP. CONDUCTOR COLOR CODE

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TYP. 2/C #12 SHIELDED	

NOTE:
 1) * INDICATES ITEMS TO BE INCLUDED IN THE INTERCONNECT SYSTEM PAY ITEM.

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NO	DATE	BY	CHK	APPR	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Print Name: **NICHOLAS J. ERPELDING**
Nicholas J. Erpelding
 Date: 6-21-12 License: 44582

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SRH ENGINEERS PLANNERS DESIGNERS
 Consulting Group, Inc.

CITY OF EDEN PRAIRIE
 TRAFFIC SIGNAL PLANS
 C.S.A.H. 61 (SHADY OAK ROAD)
 FIELD WIRING DIAGRAM (SYSTEM "B")
 SHADY OAK ROAD AT TH 62 SOUTH RAMP/W 62ND STREET

SHEET
 246
 OF
 260