

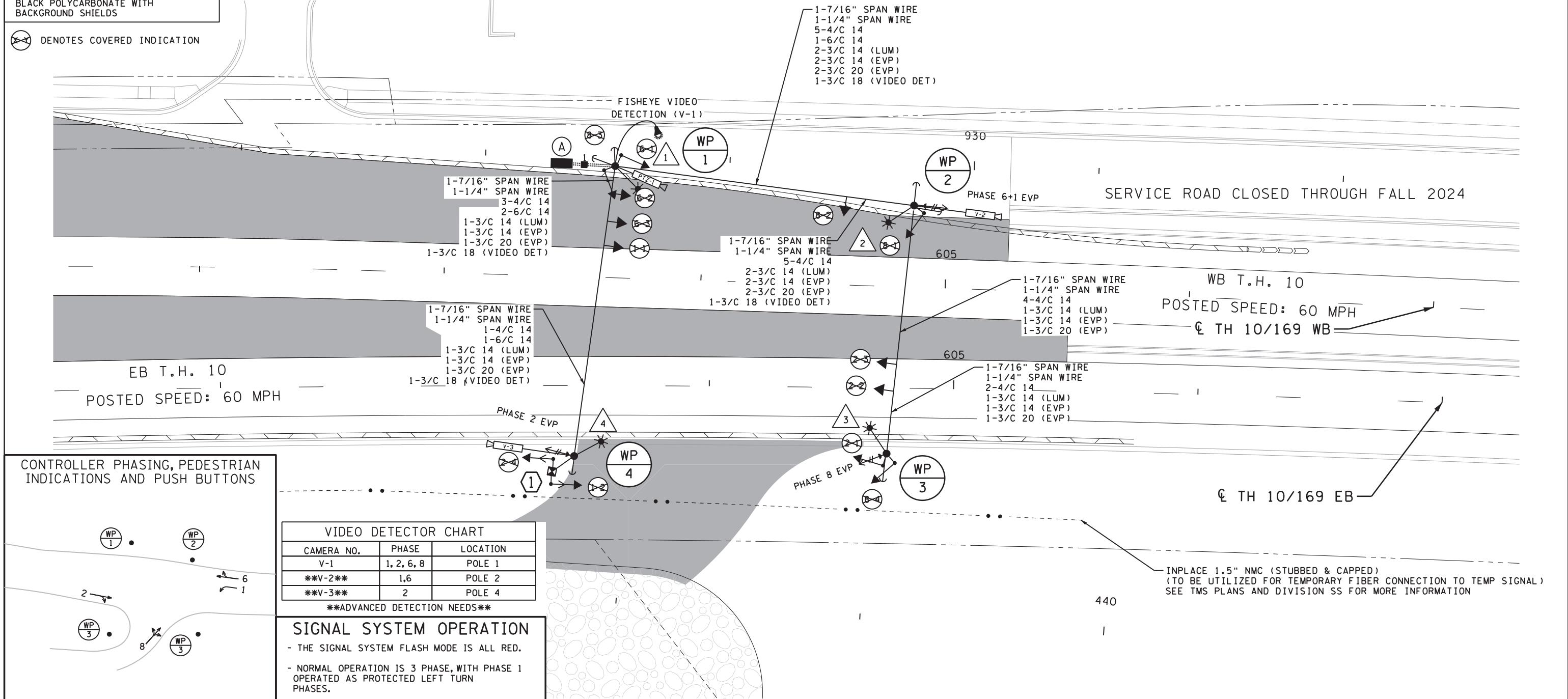
SIGNAL CONTROL POINTS		
POLE NUMBER	X	Y
WOOD POLE 1	460729.6783	166219.6698
WOOD POLE 2	460816.14	166131.6699
WOOD POLE 3	460744.7969	166058.5405
WOOD POLE 4	460643.3885	166136.4509

SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3, 2-4	●	●		●
6-1, 6-2, 6-3	●	●		●
8-1, 8-4	●	●		●
8-2, 8-3	←	←	←	←

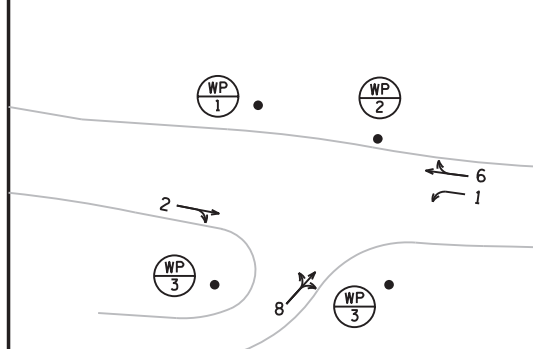
-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS

⊗ DENOTES COVERED INDICATION

- NOTES:
- SEE THE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - THE EXACT LOCATION OF HANDHOLES, POLES AND PEDESTALS SHALL BE VERIFIED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.
 - ALL NEW CONDUIT SHALL BE PVC - SCHEDULE 80 OR HDPE SCHEDULE 80 AND CARRY 1-1/C#6 INSULATED GROUNDING CONDUCTOR AS SHOWN IN PLAN.
 - SEE STAGING & TRAFFIC CONTROL PLANS FOR TEMPORARY PAVEMENT MARKINGS AND COMPLETE STAGING LAYOUTS.
 - COIL AS SUFFICIENT LENGTH OF CABLE AT ALL SPAN WIRE MOUNTED SIGNAL FACES AND ADJUST VIDEO DETECTION ZONES TO COORDINATE STAGING SHIFTS.
 - SEE DETAIL SHEET FOR WOOD POLE AND SPAN WIRE MOUNTING DETAILS.
 - BASED ON FIELD LOCATIONS ADDITIONAL DOWN GUYS/ANCHORS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
 - WOOD POLE SETTING DEPTH IS 7.5 FT., 42 FT. CLEAN.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TEMPORARY TRAFFIC SIGNAL SYSTEM WITH ANOKA ELECTRIC.
 - VIDEO DETECTION SHALL USE FISHEYE STYLE CAMERAS. MOUNTING BRACKETS MUST BE GROUNDED. ADJUST CAMERAS AS DIRECTED BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - CONTINUOUS CONNECTIVITY BETWEEN TEMPORARY SIGNAL SYSTEMS AND RTMC COMMUNICATIONS SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES. SEE DIVISION SS AND TMS PLANS FOR MORE INFORMATION.
 - TEMPORARY SIGNAL TO BE FURNISHED & INSTALLED DURING THIS STAGE, BUT WILL NOT BE TURNED ON UNTIL STAGE 2A TEMPORARY SIGNAL CONFIGURATION.
 - SEE TC 182 FOR TEMPORARY SIGNAL SYSTEM B POLE NOTES.



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



VIDEO DETECTOR CHART		
CAMERA NO.	PHASE	LOCATION
V-1	1, 2, 6, 8	POLE 1
V-2	1, 6	POLE 2
V-3	2	POLE 4

ADVANCED DETECTION NEEDS

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE, WITH PHASE 1 OPERATED AS PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 ON VEHICLE RECALL.

TEMPORARY SIGNAL SYSTEM B - STAGE 1 / 2023-2024 WINTER SUSPENSION

SYSTEM ID: ~~4608983~~ ID 4614517
 TE #: 81596
 METER ADDRESS: "CONTRACTOR TO DETERMINE"
 H:\AKCO\T44121316\CAD\MS\plans\Stage&TC\8_Temp_Signal\Stage_1\cd0202116_tsl003.dgn

BOLTON & MENK

12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burns@bolton-menk.com
 www.bolton-menk.com

REV. BY DATE

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.

CURT T. BREZINA
 LIC. NO. 59919 DATE 03-08-2023

DESIGNED KME	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006	SHEET TC180
DRAWN KME	TH 10/169 IMPROVEMENTS	OF TC193
CHECKED CTB	TEMPORARY SIGNAL PLAN	

bmi.tbi
 pdf-B and W.pltcfgr
 10:38:37 AM
 cur.tbr
 5/3/2023

(A) TEMPORARY SIGNAL CABINET BASE
 INSTALL: TEMPORARY CABINET WITH CONTROLLER
 (STATE FURNISHED)

3" CONDUIT FROM CONTROLLER CABINET TO HH 1 (POLES 1 AND 4):
 4-4/C 14
 3-6/C 14
 2-3/C 14 (LUM)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)
 1-CAT5E (VIDEO DET)
 1-CAT5E (PTZ)
 1-3/C 18 (VIDEO DET)
 1-1/C 6 INS. GR.

3" CONDUIT FROM CONTROLLER CABINET TO HH 1 (POLES 2 AND 3):
 5-4/C 14
 1-6/C 14
 2-3/C 14 (LUM)
 2-3/C 14 (EVP)
 2-3/C 20 (EVP)
 1-3/C 18 (VIDEO DET)
 1-1/C 6 INS. GR.

SERVICE CABINET TO HH 1:
 2" NMC
 4-3/C 14 (LUM)

(B) SOP (ANOKA ELECTRIC)
 2" CONDUIT FROM SOP TO SERVICE CABINET
 3-1/C #2

1 TEMPORARY ANCHORED PEDESTAL BASE
 13' PEDESTAL POLE
 2-STRAIGHT MOUNT SIGNAL AT 0 AND 180 DEG
 1-R9-3 SIGN FACING WP-1 AND WP-4
 1-6/C 14
 1-4/C 14

WP
1

45' WOOD POLE
 2-DOWN GUY, GUARD AND ANCHOR
 1-PTZ CAMERA (INSTALL, STATE FURNISHED) AND MOUNT
 1-FISHEYE VIDEO DETECTION CAMERA (V-1)
 2-ANGLE MOUNT SIGNAL AT 90 AND 180 DEG
 15' MAST ARM AND LUMINAIRE (LED) WITH PEC.
 1-R9-3 SIGN FACING WP-4
 METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT FROM HH1 TO JUNCTION BOX:
 4-4/C 14
 3-6/C 14
 2-3/C 14 (LUM)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)
 1-CAT5E (VIDEO DET)
 1-CAT5E (PTZ)
 1-3/C 18 (VIDEO DET)
 1-1/C 6 INS. GR.

3" CONDUIT RISER AND WEATHERHEAD ABOVE
 JUNCTION BOX TO SPAN WIRES WITH:
 3-4/C 14
 2-6/C 14
 2-3/C 14 (LUM)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)
 1-CAT5E (VIDEO DET)
 1-CAT5E (PTZ)
 1-3/C 18 (VIDEO DET)
 1-1/C 6 INS. GR.

3" CONDUIT RISER AND WEATHERHEAD FROM
 HH 1 TO SPAN WIRES:
 5-4/C 14
 1-6/C 14
 2-3/C 14 (LUM)
 2-3/C 14 (EVP)
 2-3/C 20 (EVP)
 1-3/C 18 (VIDEO DET)
 1-1/C 6 INS. GR.

1-1/2" CONDUIT RISER AND WEATHERHEAD ABOVE
 SPAN WIRE WITH:
 1-3/C 14 (LUM)
 1-CAT5E (VIDEO DET)
 1-CAT5E (PTZ)

WP
4

45' WOOD POLE
 1-DOWN GUY, GUARD AND ANCHOR
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 2)
 15' MAST ARM AND LUMINAIRE (LED) WITH PEC.
 1-R9-3 SIGN FACING WP-1
 1-R9-3 SIGN FACING WP-3

1-1/2" CONDUIT RISER AND WEATHERHEAD ABOVE
 SPAN WIRE WITH:
 1-3/C 14 (LUM)
 1-3/C 18 (VIDEO DET)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)

WP
2

45' WOOD POLE
 2-DOWN GUY, GUARD AND ANCHOR
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASES 6+1)
 1-VIDEO DETECTOR (V-2)
 1-ANGLE MOUNT SIGNAL AT 90 AND 180 DEG
 15' MAST ARM AND LUMINAIRE (LED) WITH PEC.
 1-R9-3 SIGN FACING WP-3
 METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT RISER AND WEATHERHEAD ABOVE JUNCTION
 BOX TO SPAN WIRES WITH:
 2-4/C 14

1-1/2" CONDUIT RISER AND WEATHERHEAD ABOVE
 SPAN WIRE WITH:
 1-3/C 14 (LUM)
 1-3/C 18 (VIDEO DET)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)

WP
3

45' WOOD POLE
 1-DOWN GUY, GUARD AND ANCHOR
 1-ONE WAY EVP DETECTOR AND LIGHT (PHASE 8)
 2-ANGLE MOUNT SIGNAL AT 90 AND 180 DEG
 15' MAST ARM AND LUMINAIRE (LED) WITH PEC.
 1-R9-3 SIGN FACING WP-2
 1-R9-3 SIGN FACING WP-4
 METAL JUNCTION BOX WITH TERMINAL BLOCK

3" CONDUIT RISER AND WEATHERHEAD ABOVE JUNCTION
 BOX TO SPAN WIRES WITH:
 2-4/C 14

1" CONDUIT RISER AND WEATHERHEAD ABOVE
 SPAN WIRE WITH:
 1-3/C 14 (LUM)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)

bmi.tbi

pdf-B and W.pltcfq
 10:38:37 AM

curtbr
 5/3/2023



BOLTON & MENK

12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: burns@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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.

CURT T. BREZINA
 LIC. NO. 59919 DATE 03-08-2023

DESIGNED
KME
 DRAWN
KME
 CHECKED
CTB

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001,
 S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006

TH 10/169 IMPROVEMENTS

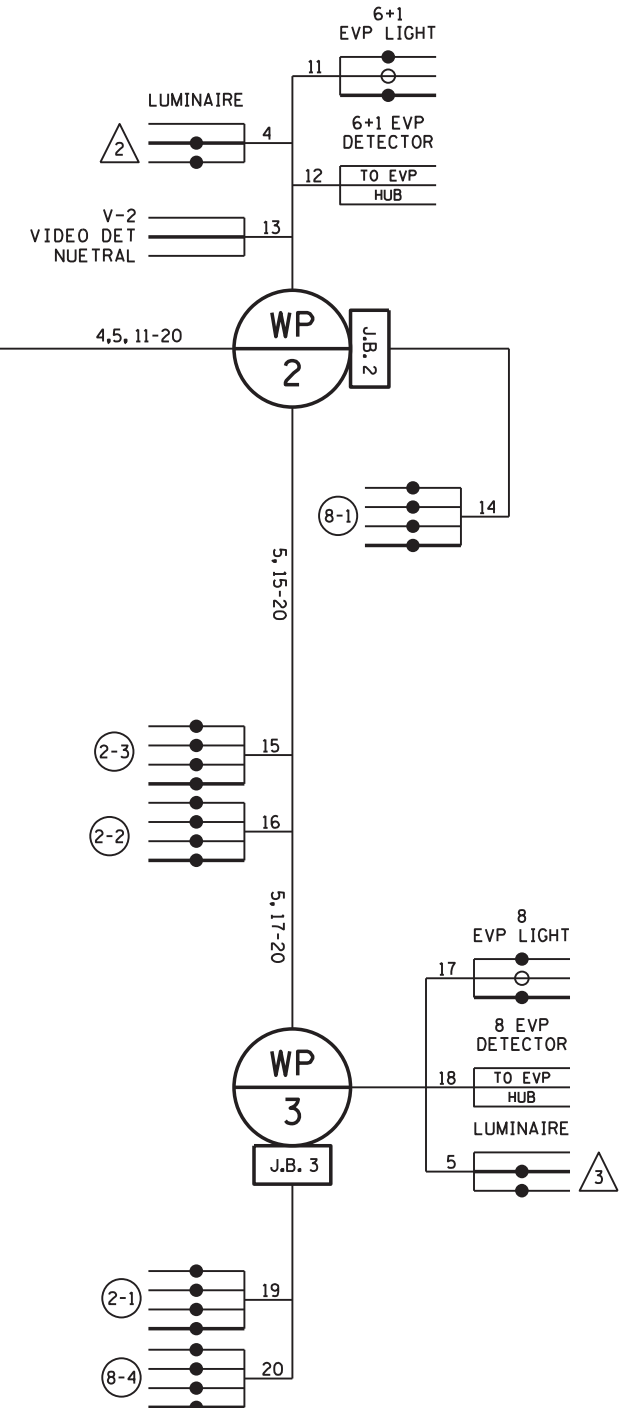
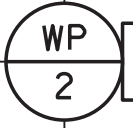
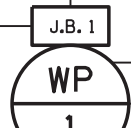
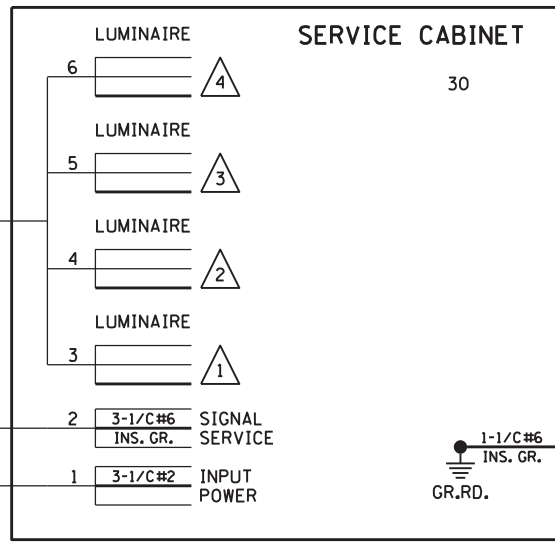
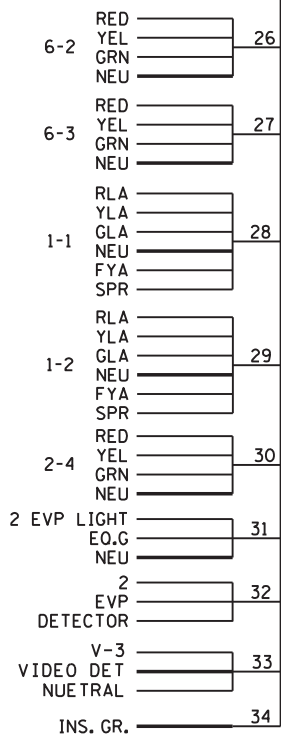
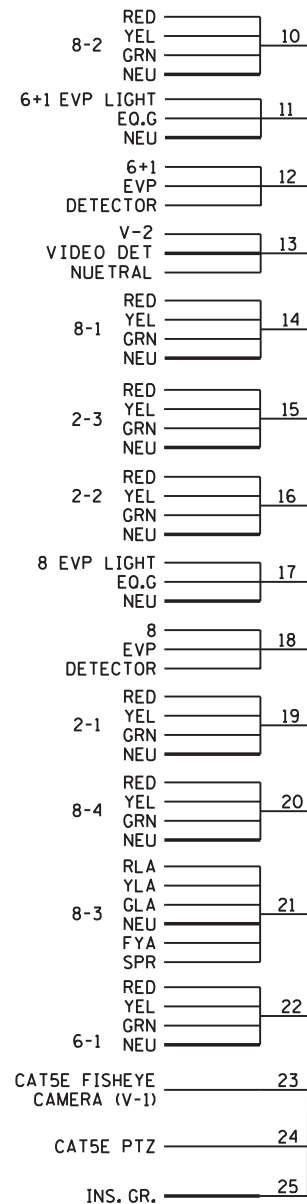
TEMPORARY SIGNAL PLAN

SHEET
TC181
 OF
TC193

ID 4614517

TEMPORARY SIGNAL SYSTEM B - POLE NOTES (ALL STAGES)

CONTROLLER CABINET



- NOTES:
 1. LUMINAIRES ARE METERED.
 2. SEE SPECIAL PROVISIONS, DIVISION SS FOR REQUIRED FIBER CONNECTIONS.

ID 4614517

TEMPORARY SIGNAL SYSTEM B - WIRING DIAGRAM (ALL STAGES)



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burnsville@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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.

CURT T. BREZINA
 LIC. NO. 59919 DATE 03-08-2023

DESIGNED KME	S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
DRAWN KME	TH 10/169 IMPROVEMENTS
CHECKED CTB	TEMPORARY SIGNAL PLAN

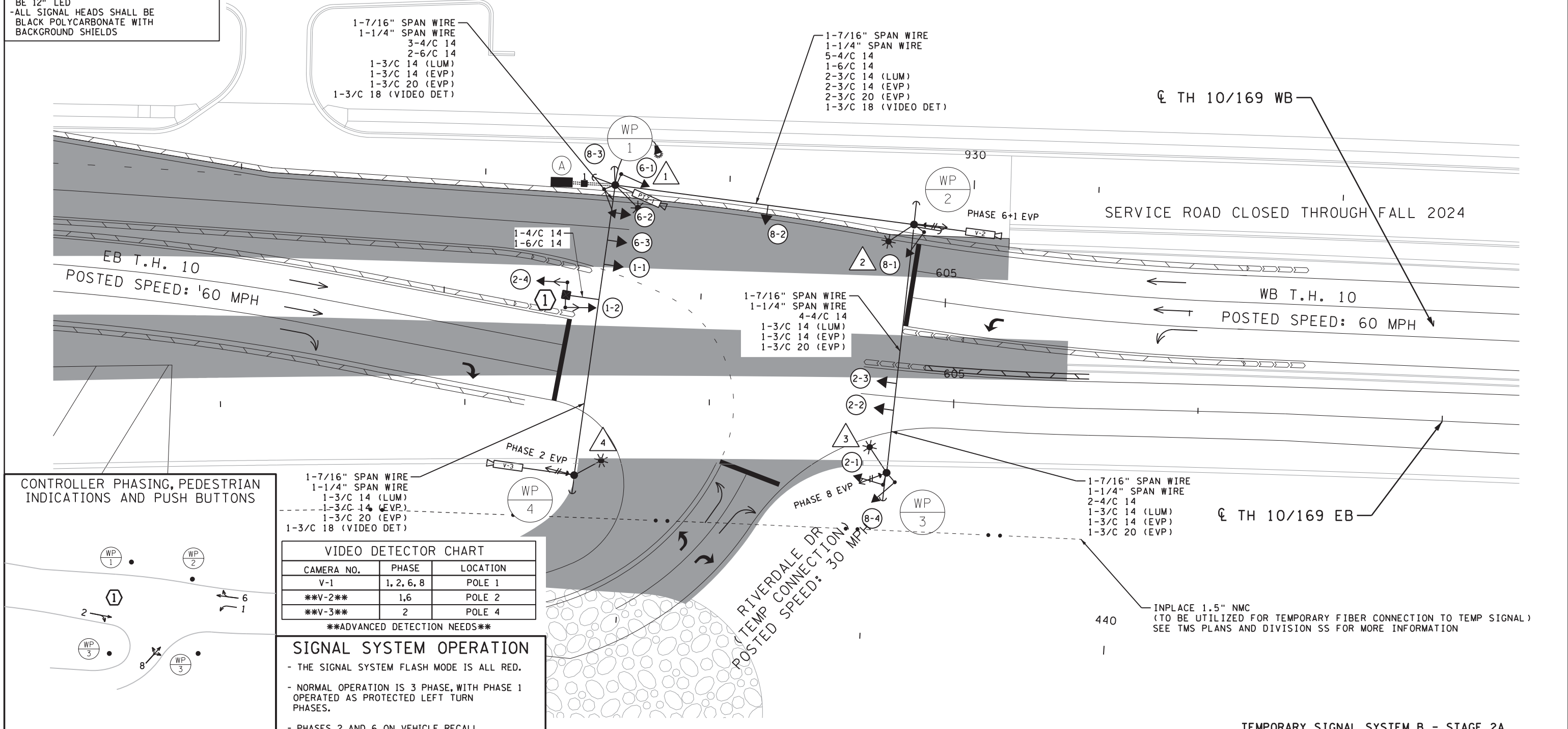
SHEET
 TC182
 OF
 TC193

SIGNAL CONTROL POINTS		
POLE NUMBER	X	Y
WOOD POLE 1	460729.6783	166219.6698
WOOD POLE 2	4608194.7435	166130.2383
WOOD POLE 3	460744.7969	166058.5405
WOOD POLE 4	460643.3885	166136.4509

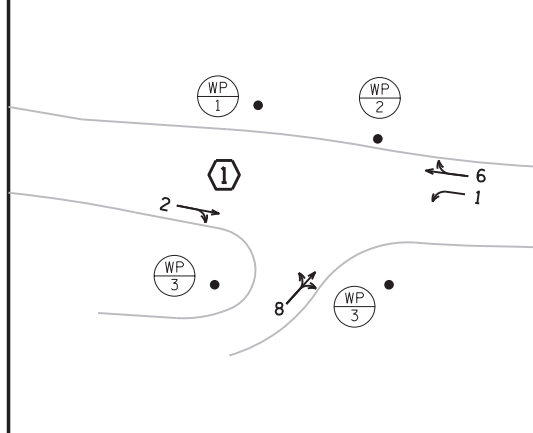
SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3, 2-4	●	●		●
6-1, 6-2, 6-3	●	●		●
8-1, 8-4	●	●		●
8-2, 8-3	←	←	←	←

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS

- NOTES:
- SEE THE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - THE EXACT LOCATION OF HANDHOLES, POLES AND PEDESTALS SHALL BE VERIFIED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.
 - ALL NEW CONDUIT SHALL BE PVC - SCHEDULE 80 OR HDPE SCHEDULE 80 AND CARRY 1-1/C#6 INSULATED GROUNDING CONDUCTOR AS SHOWN IN PLAN.
 - SEE STAGING & TRAFFIC CONTROL PLANS FOR TEMPORARY PAVEMENT MARKINGS AND COMPLETE STAGING LAYOUTS.
 - COIL AS SUFFICIENT LENGTH OF CABLE AT ALL SPAN WIRE MOUNTED SIGNAL FACES AND ADJUST VIDEO DETECTION ZONES TO COORDINATE STAGING SHIFTS.
 - SEE DETAIL SHEET FOR WOOD POLE AND SPAN WIRE MOUNTING DETAILS.
 - BASED ON FIELD LOCATIONS ADDITIONAL DOWN GUYS/ANCHORS MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
 - WOOD POLE SETTING DEPTH IS 7.5 FT, 42 FT. CLEAN.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TEMPORARY TRAFFIC SIGNAL SYSTEM WITH ANOKA ELECTRIC.
 - VIDEO DETECTION SHALL USE FISHEYE STYLE CAMERAS. MOUNTING BRACKETS MUST BE GROUNDED. ADJUST CAMERAS AS DIRECTED BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - CONTINUOUS CONNECTIVITY BETWEEN TEMPORARY SIGNAL SYSTEMS AND RTMC COMMUNICATIONS SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES. SEE DIVISION SS AND TMS PLANS FOR MORE INFORMATION.
 - SEE TC 182 FOR TEMPORARY SIGNAL SYSTEM B POLE NOTES.



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



1-7/16" SPAN WIRE
 1-1/4" SPAN WIRE
 1-3/C 14 (LUM)
 1-3/C 14 (EVP)
 1-3/C 20 (EVP)
 1-3/C 18 (VIDEO DET)

VIDEO DETECTOR CHART		
CAMERA NO.	PHASE	LOCATION
V-1	1, 2, 6, 8	POLE 1
V-2	1, 6	POLE 2
V-3	2	POLE 4

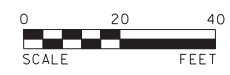
ADVANCED DETECTION NEEDS

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE, WITH PHASE 1 OPERATED AS PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 ON VEHICLE RECALL.

TEMPORARY SIGNAL SYSTEM B - STAGE 2A

SYSTEM ID: 4608983 ID 4614517
 TE #: 81596
 METER ADDRESS:
 H:\AKCO\T44121316\CAD\MS\plans\Stage&TC\8_Temp Signal\Stage 2A\cd0202116_tsl003.dgn



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burnsville@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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.

CURT T. BREZINA
 LIC. NO. 59919 DATE 03-08-2023

DESIGNED KME
DRAWN KME
CHECKED CTB

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006
 TH 10/169 IMPROVEMENTS
 TEMPORARY SIGNAL PLAN

SHEET
 TC183
 OF
 TC193

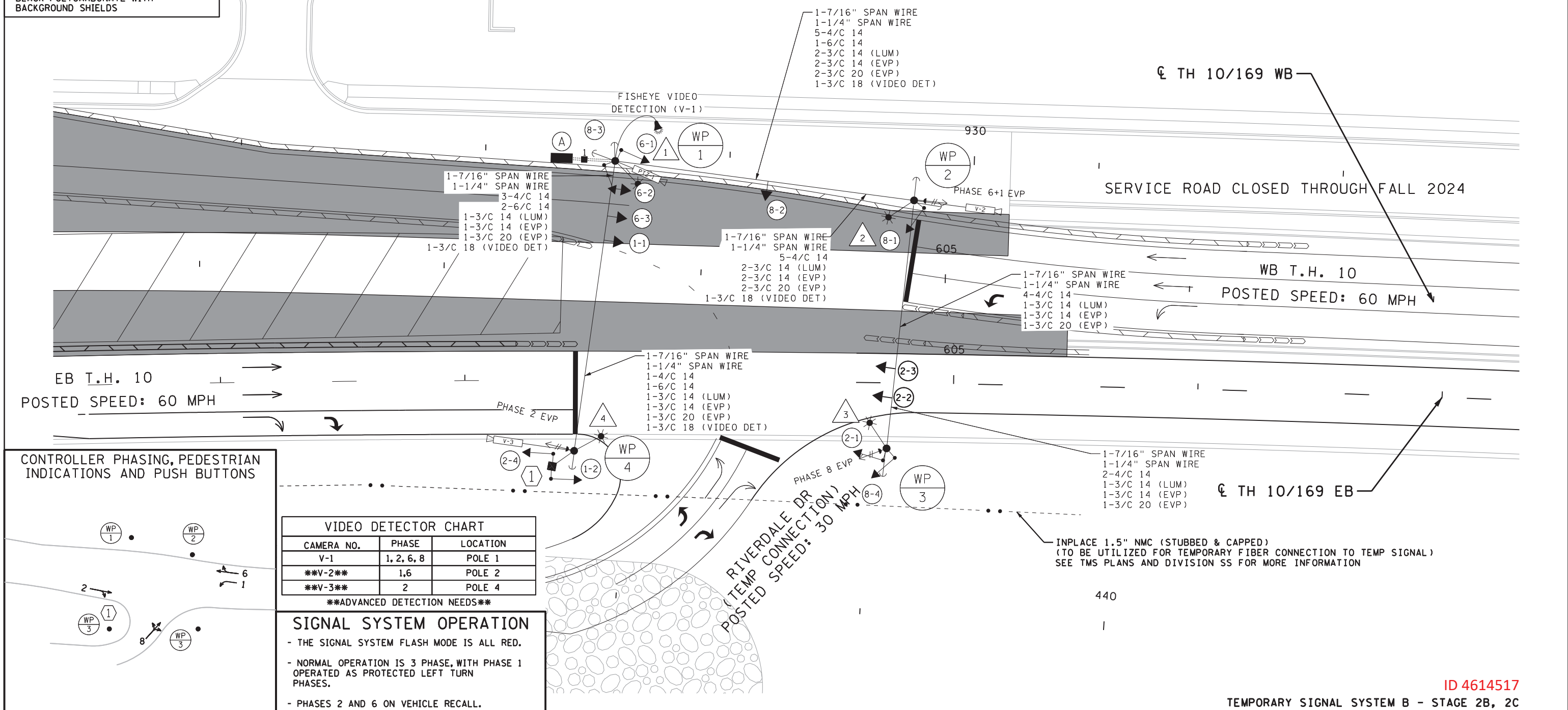
bmi.tbi
 pdf-B and W.pitcfcg
 11:58:07 AM
 triciala
 7/6/2023

SIGNAL CONTROL POINTS		
POLE NUMBER	X	Y
WOOD POLE 1	460729.6783	166219.6698
WOOD POLE 2	4608194.7435	166130.2383
WOOD POLE 3	460744.7969	166058.5405
WOOD POLE 4	460643.3885	166136.4509

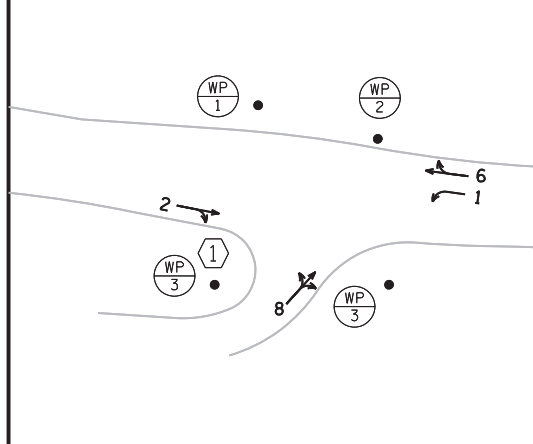
SIGNAL HEAD CHART				
FACE	R	Y	FYA	G
1-1, 1-2	←	←	←	←
2-1, 2-2, 2-3, 2-4	●	●		●
6-1, 6-2, 6-3	●	●		●
8-1, 8-4	●	●		●
8-2, 8-3	←	←	←	←

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS

- NOTES:
- SEE THE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - THE EXACT LOCATION OF HANDHOLES, POLES AND PEDESTALS SHALL BE VERIFIED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - THE CONTRACTOR SHALL LOCATE AND VERIFY INPLACE UTILITIES PRIOR TO COMMENCING WORK.
 - ALL NEW CONDUIT SHALL BE PVC - SCHEDULE 80 OR HDPE SCHEDULE 80 AND CARRY 1-1/4" #6 INSULATED GROUNDING CONDUCTOR AS SHOWN IN PLAN.
 - SEE STAGING & TRAFFIC CONTROL PLANS FOR TEMPORARY PAVEMENT MARKINGS AND COMPLETE STAGING LAYOUTS.
 - COIL AS SUFFICIENT LENGTH OF CABLE AT ALL SPAN WIRE MOUNTED SIGNAL FACES AND ADJUST VIDEO DETECTION ZONES TO COORDINATE STAGING SHIFTS.
 - SEE DETAIL SHEET FOR WOOD POLE AND SPAN WIRE MOUNTING DETAILS.
 - BASED ON FIELD LOCATIONS ADDITIONAL DOWN GUYS/ANCHORS MAY BE REQUIRED AS APPROVED BY THE ENGINEER.
 - WOOD POLE SETTING DEPTH IS 7.5 FT, 42 FT. CLEAN.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TEMPORARY TRAFFIC SIGNAL SYSTEM WITH ANOKA ELECTRIC.
 - VIDEO DETECTION SHALL USE FISHEYE STYLE CAMERAS. MOUNTING BRACKETS MUST BE GROUNDED. ADJUST CAMERAS AS DIRECTED BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - CONTINUOUS CONNECTIVITY BETWEEN TEMPORARY SIGNAL SYSTEMS AND RTMC COMMUNICATIONS SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES. SEE DIVISION SS AND TMS PLANS FOR MORE INFORMATION.
 - SEE TC 182 FOR TEMPORARY SIGNAL SYSTEM B POLE NOTES.



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS

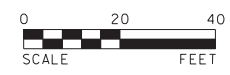


VIDEO DETECTOR CHART		
CAMERA NO.	PHASE	LOCATION
V-1	1, 2, 6, 8	POLE 1
V-2	1, 6	POLE 2
V-3	2	POLE 4

ADVANCED DETECTION NEEDS

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE, WITH PHASE 1 OPERATED AS PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 ON VEHICLE RECALL.



12224 NICOLLET AVENUE
 BURNSVILLE, MINNESOTA 55337
 Phone: (952) 890-0509
 Email: Burns@bolton-menk.com
 www.bolton-menk.com

REV.	BY	DATE

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.

CURT T. BREZINA
 LIC. NO. 59919
 DATE 03-08-2023

DESIGNED	DRAWN	CHECKED
KME	KME	CTB

TEMPORARY SIGNAL SYSTEM B - STAGE 2B, 2C

S.P. 0202-116 (TH10), S.P. 002-596-026, S.P. 002-656-001, S.P. 002-657-003, S.P. 199-113-003, S.P. 199-115-006

TH 10/169 IMPROVEMENTS

TEMPORARY SIGNAL PLAN

440

ID 4614517

SHEET
 TC184
 OF
 TC193

bmi.tbi
 pdf-B and W.pitcfcg
 11:58:32 AM
 7/6/2023