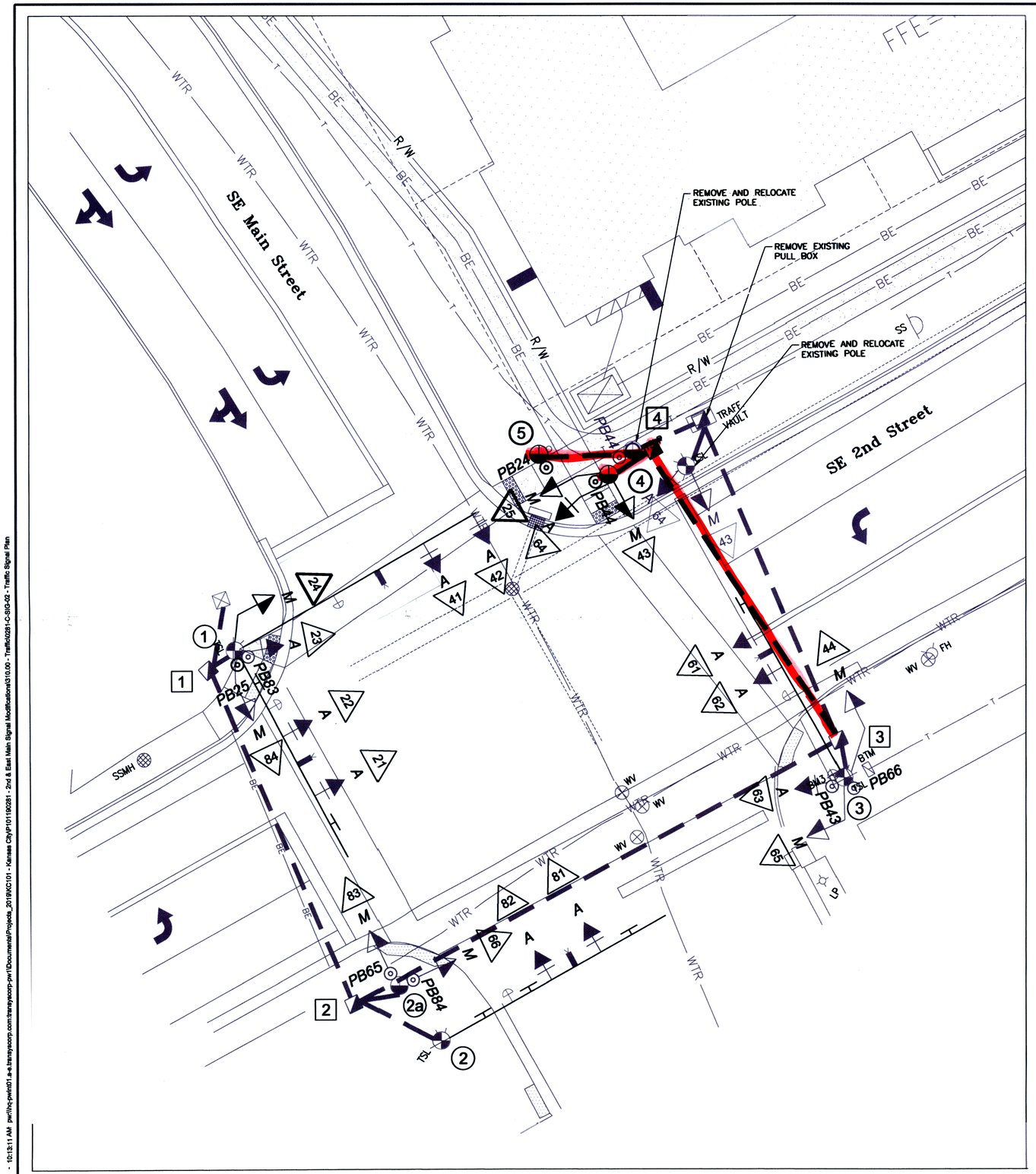
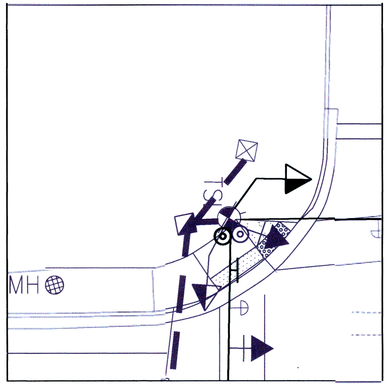
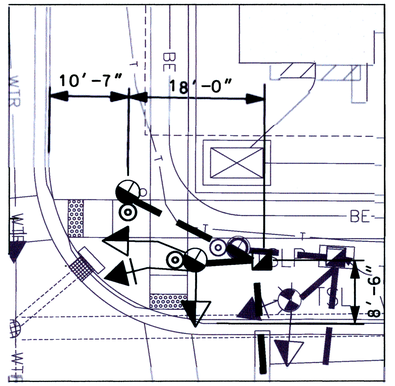


NORTHWEST QUADRANT

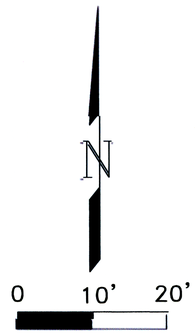


NORTHEAST QUADRANT



NOTES:

1. Install PB25 on the south side of signal pole 1 with the face of the button parallel to the crosswalk across SE Main Street.
2. Relocate existing pole 4, including signal heads 43 and 64 to the location shown. Install signal head 25 and push button 44 on the pole.
3. Relocate existing pole 5, including push button, to the location shown.
4. Disconnect existing cables from signal heads 43, 64, and push button 44. Pull these existing cables into box 3, and coil them in the box while work is in progress on the northeast corner of the intersection. After poles 4 and 5 are installed, reconnect the existing cables to the relocated equipment.
5. Construct new pole bases adjacent to the proposed sidewalk. Use isolation joint between sidewalk and base.
6. All other existing signal equipment shall be used in place, and remain operational throughout construction.
7. Dimensions shown are measured from the backs of curbs to the center of signal equipment.



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12-11-19

CONSULTANTS:

2ND STREET AND SE MAIN STREET
TRAFFIC SIGNAL MODIFICATION

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

REVISIONS:		
MARK	DATE	DESCRIPTION

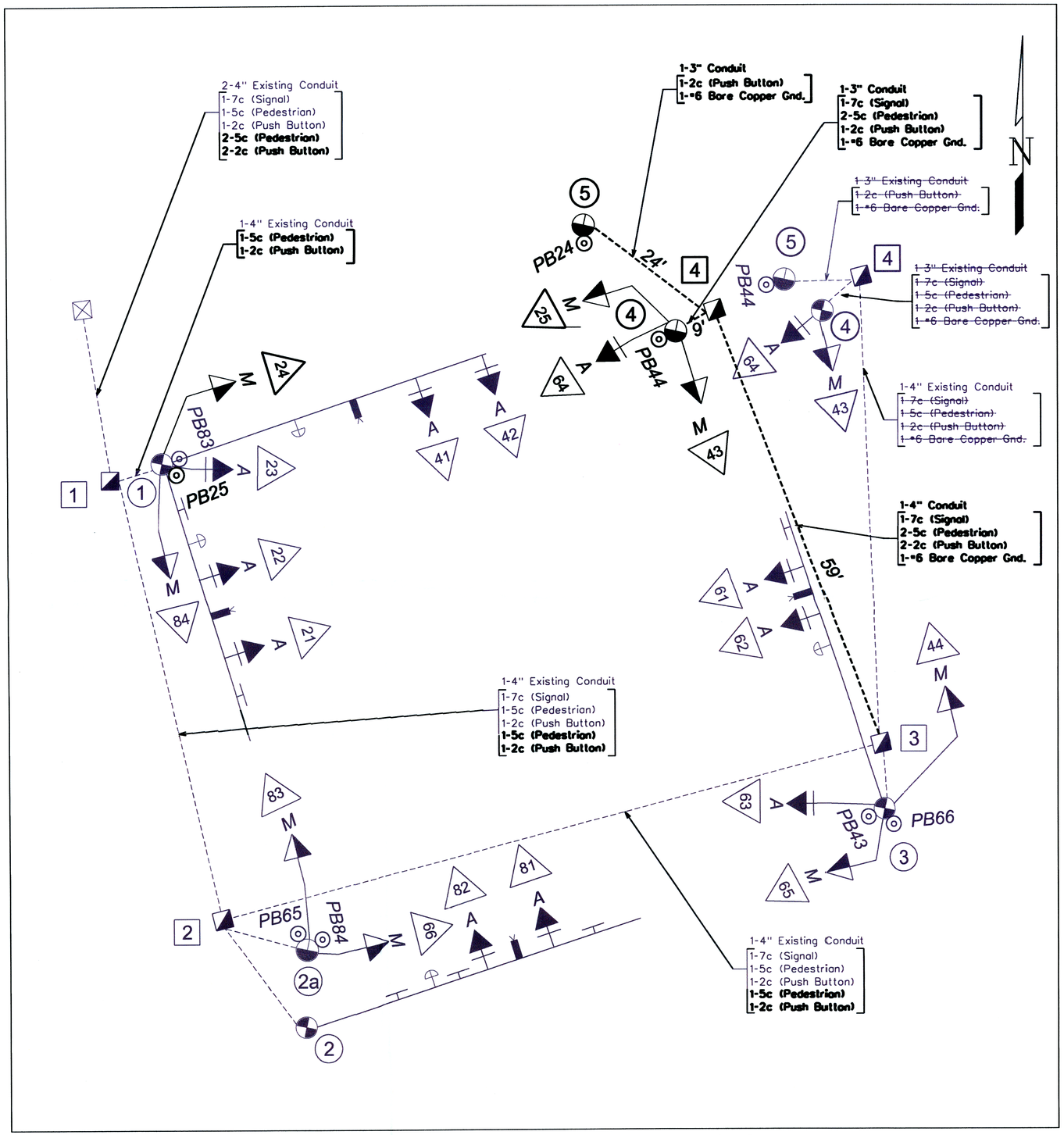
PROJ NO: P101190281
SCALE: AS SHOWN
DATE: 12/11/2019
DESIGNED BY: EHM
DRAWN BY: EHM
CHECKED BY: JJW

SHEET TITLE:
TRAFFIC SIGNAL LAYOUT

SHEET NO.
TS-2

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

ehmarth
12/11/2019 - 10:13:11 AM pw:\\lrs-pwint01.ae.transystems.com:transystems-pw1\Documents\Projects_2019\KC101 - Kansas City\P101190281 - 2nd & East Main Signal Modification\910.00 - Traffic\0281-C-SIG-02 - Traffic Signal Plan



2ND STREET AND SE MAIN STREET - WIRING DIAGRAM

SEQUENCING

Ø2+Ø6	Ø4+Ø8						
← →	↓ ↑						

PHASE DIAGRAM

Ø1	Ø2 PED	Ø3	Ø4 PED
Ø5	Ø6 PED	Ø7	Ø8 PED

OUTPUT FILE ASSIGNMENTS

FR1	Ø1	Ø2	PED Ø2	Ø3	Ø4	PED Ø4	MONITOR
FR2								
FR3	Ø5	Ø6	PED Ø6	Ø7	Ø8	PED Ø8	
FR4								

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		VIDEO/RADAR		COMBO		DETECTION					PED Ø2	PED Ø4	FLH
											PED Ø6	PED Ø8	STOP TIME

FLASHING	OPERATIONS
EMERGENCY	SCHEDULED
Peds Dark	Peds Dark
FR–All Ø's	FR–All Ø's

Legend

1-7c (Signal) – Existing equipment

~~1-7c (Signal)~~ – Existing equipment to be removed

1-7c (Signal) – New equipment to be installed

Wiring and Phasing General Notes

1. The outboard signal head (furthest on the mast arm from the pole) for each phase shall each be served by one 7c #14 cable extending from the head back to the controller. Each of the remaining same phase vehicle signal heads located on the mast arm shall be connected to like phase signal heads via a 7c#14 cable connected within the signal head terminal box. A maximum of three vehicle heads may be joined together, any additional signal heads would require a separate cable extending from the head back to the controller. All vehicular signal heads located on the pole shall each be served by one 7c#14 cable extending from the head back to the controller. No cable splices are allowed, including at the base of the pole and inside pull boxes.

2. Street lighting cable, not signal cable, may be spliced inside of pull boxes using a split bolt connector and resin filled splice kit as described in Section 2800 of the Technical Specifications.

3. A continuous 1c #6 AWG bare solid copper ground wire shall be provided in addition to ground rods. All grounding and ground rods shall be tied together using 1c #6 AWG bare solid copper wire to bond the system.

4. Wiring diagram reflects signal modifications only and is not a comprehensive diagram of all existing wiring.

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REVISIONS:			
	MARK	DATE	DESCRIPTION

PROJ NO: P101190281
SCALE: NONE
DATE: 12/11/2019
DESIGNED BY: EHM
DRAWN BY: EHM
CHECKED BY: JJW

SHEET TITLE:
WIRING DIAGRAM

SHEET NO.
TS-3

ehmarth
12/11/2019 - 10:13:13 AM pw:\\kc-pwint01.e-a.transystems.com:transystemscorp-pw1\Documents\Projects_2019\KC101 - Kansas City\P101190281 - 2nd & East Main Signal Modifications\310.00 - Traffic\Wiring Diagram

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