LOCATION MAP

INTERSTATE HIGHWAY FEDERAL ROUTES _____ STATE ROUTES _____ COUNTY & TOWNSHIP ROADS._____

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

HAM-EASTERN CORRIDOR TSG

VARIOUS LOCATIONS HAMILTON COUNTY

INDEX OF SHEETS:

SEE SHEET 8 FOR SIGNING PROJECT LOCATIONS

SEE SHEET 31 FOR SIGNAL PROJECT LOCATIONS

TITLE SHEET	1
GEMERAL NOTES	2-6
GENERAL SUMMARY	7
SIGNING PROJECT LOCATIONS	8
SIGNING PLANS	9-30
SIGNAL PROJECT LOCATIONS	31
TRAFFIC SIGNAL PLANS	<i>32-65</i>

PROJECT DESCRIPTION

THE PROJECT WILL INCLUDE LOW COST IMPROVEMENTS TO ENHANCE TRAFFIC CIRCULATION AND FLOW WITHIN THE EASTERN CORRIDOR SEGMENT II/III STUDY AREA. THE PROJECT WILL INCLUDE TRAFFIC SIGNING AND TRAFFIC SIGNAL UPGRADES AT VARIOUS LOCATIONS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: O.1 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: O.1 ACRES N/A ACRES NOTICE OF INTENT EARTH DISTURBED AREA: (MAINTENANCE PROJECT)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

DESIGN EXCEPTIONS

OTHER ROADS

NONE

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PLAN PREPARED BY:



NO.	DESCRIPTION	REV. BY	DATE
1	REMOVED SS 815	MJH	1-4-22

ENGINEERS SEAL		STANDAR	RD CONSTR	UCTION D	DRAWINGS			EMENTAL FICATIONS	
Mark J. Hunter 56376 NAL NAL NAL NAL NAL NAL NAL NA	HL-10.11		TC-41.50	10-18-13	, , , , ,	7-19-19	800	7-16-21	ĺ ,
TOTAL OF COM	HL-10.13	4-17-20	TC-42.10	10-18-13		\sim	809 ~~	~~ 7~16~21 ~	~~~
A SOLUTION OF THE SOLUTION OF	HL-20.11	1-15-21	TC-42.20	10-18-13		}			}
			TC-51.11	1-15-16			82µw	~4~20~12~	س
*/ Mark *	TC-12.31	7-16-21	TC-51.12	1-15-16	MT-95.40	1-17-20	824	1-18-19	
T. J. YESS	TC-16.22	7-16-21	TC-52.10	10-18-13	MT-101.70	1-17-20	906	10-15-10	
Hunter Light	TC-21.21	7-16-21	TC-52.20	1-15-21			909	7-16-21	
 	TC-21 . 50	4-17-20	TC-71.10	7-16-21			921	4-20-12	
MAN COLSTERES OF	TC-22.20	1-17-14							
Man 1 1 1 E E E E E E E E E E E E E E E E	TC-41.10	7-19-13							
WA L	TC-41.20	10-18-13							
	TC-41.30	10-18-13							
Mark & Hunter	TC-41.40	10-18-13							
SIGNED:									
7 (20 (2021									
DATE:		·							

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED	
DATE	DISTRICT DEPUTY DIRECTOR

APPROVED _	
DATE	DIRECTOR, DEPARTMENT OF TRANSPORTATION
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THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER WITH 72-HOUR NOTICE OF ANY SIGNAL WORK TO BE PERFORMED AT THE INTERSECTION SITE(S) SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

ITEM 809 HIGH SPEED ETHERNET RADIO

THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGH SPEED ETHERNET RADIO SYSTEM IN CONFORMANCE WITH SS 809 AND SS 909. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING A SYSTEM WHICH IS FULLY RELIABLE AND CONFORMS WITH ALL MANUFACTURER'S RECOMMENDATIONS. THIS SYSTEM IS INCLUSIVE OF ANTENNAS, CABLING, AND ANY REPEATER STATIONS, PARTICULARLY AT LOCATIONS WHICH DO NOT HAVE DIRECT LINE OF SIGHT. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ACHIEVE OPTIMAL PLACEMENT OF ANTENNAS AND RADIOS.

HIGH SPEED ETHERNET RADIOS SHALL BE USED TO REPLACE THE EXISTING MODEM COMMUNICATION AT ODOT TRAFFIC SIGNALS. THE CONTRACTOR SHALL ENSURE THAT THE MODEM AT THE MASTER LOCATION (US 50 AT NEWTOWN RD) IS PROPERLY COMMUNICATING THE SYSTEM INFORMATION TO ODOT'S CENTRACS CENTRAL MONITOR. ONCE THE COMMUNICATION SYSTEM IS TESTED AND ACCEPTED, THE EXISTING MODEMS WHICH ARE NOT DESIGNATED FOR REUSE SHALL BE RETURNED TO ODOT.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR 809 HIGH SPEED ETHERNET RADIO FOR EACH INTERSECTION WHERE RADIOS ARE PROVIDED. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO PROVIDE RELIABLE COMMUNICATIONS, FULLY TESTED, AND ACCEPTED BY THE PROJECT ENGINEER.

ITEM 633 - CONTROLLER ITEM, MISC .: CONTROLLER SETTING **ADJUSTMENTS**

THE EXISTING CONTROLLER SETTINGS SHOWN IN THE PLAN ARE BASED ON EXISTING RECORD PLAN INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ALL TRAFFIC SIGNAL CONTROLLER LOCAL SETTINGS, AND ADJUST THE SETTINGS IF NECESSARY TO MATCH WHAT IS SHOWN IN THIS PLAN.

THE CONTRACTOR SHALL ALSO PROVIDE AN "AS-BUILT" PLANS TO EACH MAINTAINING AGENCY LISTED ON SHEET 32. AT MINIMUM, THE AS-BUILT PLAN SET SHALL NOTE ACTUAL DETECTION ZONES AND THE DETECTOR UNIT NUMBER AND CHANNEL THAT EACH DETECTION ZONE IS CONNECTED TO. IN ADDITION, THE CONTRACTOR SHALL NOTE SPECIAL FUNCTIONS (E.G., DETECTOR DELAY, DUAL ENTRY, DETECTOR SWITCHING, ETC.), IF DIFFERENT FROM WHAT IS SHOWN IN THE PLANS. THE AS-BUILT PLAN SET MAY BE HAND-MARKED CHANGES TO THE RECORD DESIGN PLANS, AS LONG AS ALL MARKINGS ARE CLEARLY LEGIBLE, AND THE ENGINEER ACCEPTS THE APPEARANCE AND ACCURACY OF THE AS-BUILT DRAWINGS.

AS PART OF THIS ITEM, OVERLAPS SHALL BE IDENTIFIED AS EITHER HARD WIRED INTO A PARENT PHASE, OR DRIVEN VIA LOAD SWITCH AND CONTROLLER SOFTWARE. THIS INFORMATION SHALL BE INCLUDED IN THE AS-BUILT DRAWINGS.

AT EACH LOCATION, THE CONTRACTOR SHALL CHECK THE CONTROLLER SETTINGS TO CONFIRM THAT THE CONTROLLER DOES NOT BACK UP FROM \$2+\$\phi6\$ DIRECTLY TO \$1 OR \$5. IF THE YELLOW TRAP PROTECTION IS NOT ENABLED, THE CONTRACTOR SHALL PROGRAM DETECTOR SWITCHING: "DURING \$\phi 2+\phi 6 A CALL TO \$\phi\$1 OR \$\phi\$5 SHALL ALSO CAUSE A CALL TO \$\phi4+\phi8''\$ OR OTHER PROTECTION AS APPROVED BY THE ENGINEER.

PAYMENT FOR THIS ITEM WILL BE ON A LUMP SUM BASIS, WHICH SHALL INCLUDE PROVIDING ALL MATERIALS, LABOR, POSTAGE, AND INCIDENTALS AS NECESSARY TO CONFIRM/UPDATE LOCAL CONTROLLER SETTINGS, AND PROVIDE/ DELIVER A RECORD SET OF DRAWINGS TO EACH MAINTAINING AGENCY.

809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200F). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- 4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE
- 6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
- 7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- 8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
- 9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

809 STOP LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM. AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- 4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE
- 6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
- 7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- 8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
- 9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION. WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

NO.	DESCRIPTION	REV. BY	DATE	
1	REPLACED 2ND PLAN NOTE	MJH	1-4-22	1

		SHE	ET NU				<u> </u>		PARTICI			ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	
				9	10	11	12	32	01/SAF/OT- LARGE URBAN	NHS ROUTES		LXI.	TOTAL			SEE SHEE NO
															ROADWAY	
									LUMP		201	11000	LUMP		CLEARING AND GRUBBING	
															TRAFFIC CONTROL	
						1			1		625	10480	1	EACH	LIGHT POLE, DECORATIVE	
						1			1		625	14500	1	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
						2	1		3		625	32000	3	EACH	GROUND ROD	
					074	100			770		070	07100	770		CROUND MOUNTED CURRENT NO. 7 DOCT	
					274	102	27.6		376	27.6	630 630	03100 06400	376 27.6	FT FT	GROUND MOUNTED SUPPORT, NO. 3 POST GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
							331.7		331.7	27.0	630	07600	331.7	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, WIOX12	
											070	2222			CYON DOCT DEEL SOLOD	
					2		14		2 12	2	630 630	08600 09000	2	EACH EACH	SIGN POST REFLECTOR BREAKAWAY STRUCTURAL BEAM CONNECTION	
							4		4	2	630	09001	4	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION, AS PER PLAN	3
							1		1		630	72320	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6	
					6	1	1		3	5	630 630	72550 79500	8	EACH EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13 SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
		+			O	/	'		<i>J</i>	3	650	13500	0	CAUH	STON SOLF ON E ASSEMBLE, FOLE MOUNTED	
					211.7	87			245.2	53.5	630	80100	298.7	SF	SIGN, FLAT SHEET	
							644		580	64	630	80200	644	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
							98		98		630	80224	98	SF	SIGN, OVERHEAD EXTRUSHEET	
							1		1		630	84011	1	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50, AS PER PLAN	3
							18		16	2	630	84500	18	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
						1			1		630	84510	1	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
					21	13	3		37		630	84900	37	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					1	13	3		1		630	85100	37	EACH EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					15	10			25		630	86002	25	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							2		2		630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
					7	2			6	3	630	87500	9	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
						1			1		630	97700	1	EACH	SIGNING, MISC: SIGNAL AHEAD (W3-3) SIGN WITH FLASHING BEACONS	3
						<u> </u>	2		2		630	97700	2	EACH	SIGNING, MISC: REPOSITION EXISTING SIGNS ON BEAM	3
				0.05					0.05		644 644	00100 00200	0.05	MILE MILE	EDGE LINE, 4" LANE LINE, 4"	
				0.03				0.01	0.03		644	00300	0.01	MILE	CENTER LINE	
				170				36	206		644	00400	206	FT	CHANNELIZING LINE, 8"	
								25 80	25 80		644 644	00500 00620	25 80	FT FT	STOP LINE CROSSWALK LINE, 12"	
				115				- 00	115		644	00700	115	FT	TRANSVERSE/DIAGONAL LINE	
				50					50		644	00900	50	SF	ISLAND MARKING	
				6 3				1	7 3		644 644	01300 01410	7 3	EACH EACH	LANE ARROW WORD ON PAVEMENT, 96"	
				93					93		644	01500	93	FT	DOTTED LINE, 4"	
				850					850		644	01514	850	FT	DOTTED LINE, 8"	
				850				12	862		644	30000	862	FT	REMOVAL OF PAVEMENT MARKING	
		+											+		TRAFFIC SIGNALS	
								LS	LS		633	99300	LS		CONTROLLER ITEM, MISC.: CONTROLLER SETTING ADJUSTMENTS	5
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								4	8	<u> </u>	809 809	64500	4	EACH EACH	HIGH-SPEED ETHERNET RADIO ADVANCE DETECTION, AS PER PLAN	5
								8 1	8		809 809	69101	1	EACH EACH	STOP LINE RADAR DETECTION, AS PER PLAN	5
								,	LS		824	00011	LS		SYSTEM ANALYSIS, AS PER PLAN	6
									1.0		C11	11001	1.0		INCIDENTALS MAINTAINING TRAFFIC AS DED DI AN	1 2
									LS LS		614 624	11001	LS LS		MAINTAINING TRAFFIC, AS PER PLAN MOBILIZATION	2
	DESCRIPTION	REV. BY	DATE													
CO	PRRECTED ITEM NUMBER		11/2/21	[
	PLACED RADIO ITEM		1-4-22	1 L												

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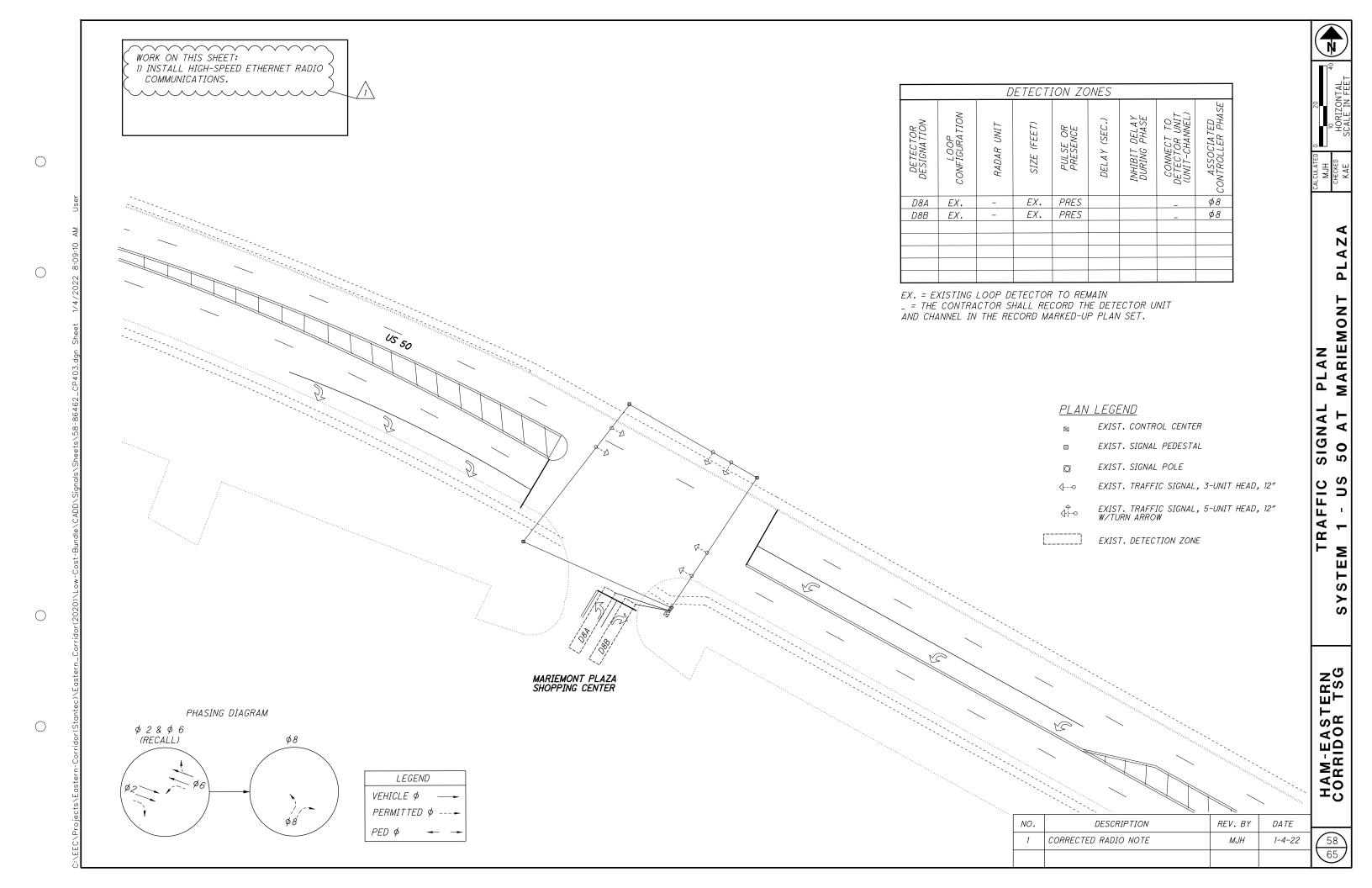
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					633		1		644			8	09 (809					
SHEET NO.	SYSTEM NUMBER	LOCATION	MAINTAINING AGENCY	SIDE	CONTROLLER ITEM, MISC.: CONTROLLER SETTING ADJUSTMENTS	CENTER LINE, DOUBLE SOLID YELLOW	CHANNELIZING LINE, 8"	I STOP LINE	T CROSSWALK LINE	H LANE ARROW	REMOVAL OF PAVEMENT MARKING	M ADVANCE RADAR DETECTION, AS PER PLAN	STOP LINE RADAR DETECTION, AS PER PLAN	HIGH-SPEED ETHERNET RADIO					
					- }														
5	ALL	GENERAL NOTES			LUMP														
34	1	SR 32 AT CHURCH ST	VILLAGE OF NEWTOWN				36	12			12								
36		SR 32 AT ROUND BOTTOM			\longrightarrow	0.01			0.0			2							
38 40	1 1	SR 32 AT IVY HILLS PL SR 32 AT LITTLE DRY RUN		+	\rightarrow	0.01			80										
42	1	VALLEY AT CHURCH ST			1					1		2	1						
44	1	VALLEY AT ROUND BOTTOM	<u> </u>	+								2							
46 48	2 2	RED BANK AT COLBANK RED BANK AT WOOSTER	VILLAGE OF FAIRFAX	+				13				2							
40		NED DANK AT WOOSTEN																	
50	3	US 50 AT WOOSTER PK																	
52	3	US 50 AT WATTERSON	,	+	\longrightarrow														
54	4	US 50 AT MAD/MIAMI	VILLAGE OF MARIEMONT	+															
55	4	US 50 AT MIAMI	VILLAGE OF MARIEMONT		\rightarrow														
57	4	US 50 AT POCHAHONTIS	ODOT											,					
59 61	4	US 50 AT MAR. PLAZA US 50 AT SPRING HILL												1					
63	4	US 50 AT WALTON CREEK												1					
65	4	US 50 AT NEWTOWN RD	<u> </u>		\longrightarrow									1					
					1														
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				+ >											NO.		DESCRIPTION	REV. BY	DATE
	1	1		,											1	EL IMINA TED	GPS & REVISED RADIO ITEM	1 MJH	1-4-22
Τ.	T A I C	S CARRIED TO	SENERAL SUMMAI	$_{RY}$ $\;\;$	LUMP	0.01	36	25	80	,	12	8	,	4				1	1

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	ITEM	QUANTITY	UNIT	ITEM DESCRIPTION
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>	809	1	EACH	HIGH-SPEED ETHERNET RADIO
1	٠			

	TOD - COORDINATION TIMING PLANS										
DAY OF WEEK	PLAN NAME	HOURS	PLAN NUMBER	CYCLE LENGTH							
1,7	OVERNIGHT	000-0900	-	FREE							
1,7	WEEKEND	0900-1900	_	FREE							
1,7	OVERNIGHT	01900-0000	-	FREE							
2,3,4,5,6	OVERNIGHT	0000-0600	-	FREE							
2,3,4,5,6	AM	0600-0930	1	120							
2,3,4,5,6	MID	0930-1400	2	100							
2,3,4,5,6	PM	1400-1900	3	120							
2,3,4,5,6	OVERNIGHT	1900-0000	-	FREE							

TOD = TIME OF DAY COORDINATION

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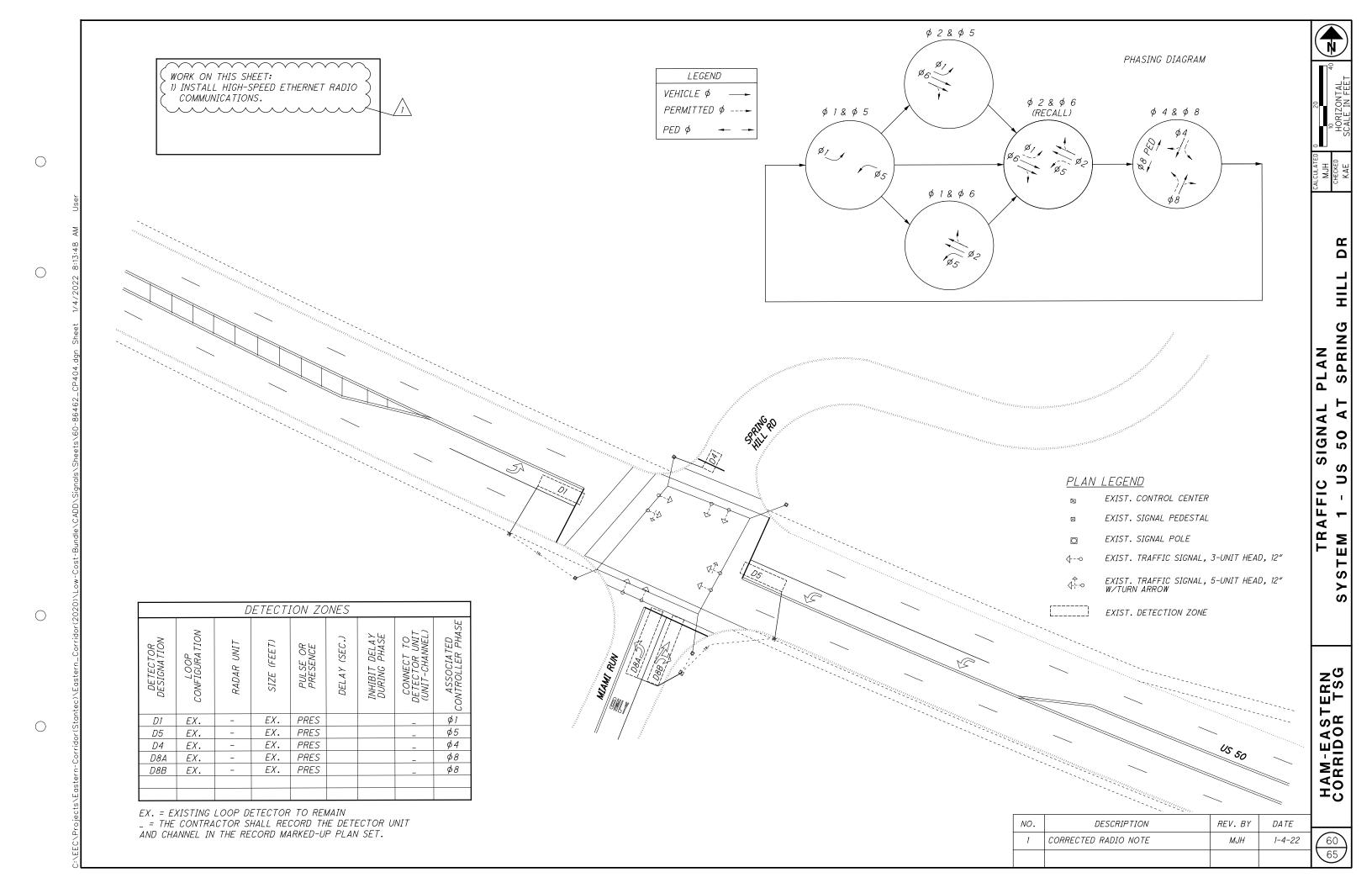
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START-UP START IN: ALL RED TIME FOR FLASH: 6 SEC		DUAL ENTRY: PHASE 2 AND PHASE 6 REST IN RED: NO								
FIRST PHASE			OVE	RLAP			А	В	С	D
COLOR DISFLA	AIED. GREEN		PHAS	SES			-	-	-	-
INTERVAL OR F	EATURE					PHASE				
INTERSECTION	MOVEMENT		1	2	3	4	5	6	7	8
DIRECTION			-	EΒ	-	-	-	WB	-	NB
MIN GREEN (INI	TIAL)		-	20	-	-	-	20	-	10
ADD INITIAL	*(SEC/ACT	UATION)	-	-	-	-	-	-	-	-
MAX INITIAL		*(SEC.)	-	-	ı	-	-	-	-	-
PASSAGE TIME	(PRESET GAP)	(SEC.)	-	ı	ı	ı	ı	-	-	3.0
TIME BEFORE R	REDUCTION	*(SEC)	-	ı	ı	-	-	-	-	_
MINIMUM GAP		*(SEC)	-	ı	İ	ı	ı	-	-	-
TIME TO REDUC	Œ	*(SEC)	-	-	-	-	-	-	-	-
MAXIMUM GREEI	V I	(SEC)	-	60	ı	-	-	60	-	45
MAXIMUM GREEI	V II	(SEC)	-	75	-	-	-	75	-	60
YELLOW CHANGE	E	(SEC)	-	4.5	ı	-	-	4.5	-	3.0
ALL RED CLEAR	PANCE	(SEC)	-	1.0	1	-	-	1.0	-	1.5
WALK		(SEC)	-	ı	ı	-	-	-	-	-
PEDESTRIAN CL	EAR	(SEC)	-	ı	ı	-	-	-	_	-
	MAXIMUM (O.	N/OFF)	-	-	-	-	-	-	-	_
RECALL	MINIMUM (OI	V/OFF)	-	ON	ı	-	-	ON	-	_
	PED (ON/OF	F)	-	1	ı	-	-	-	-	-
MEMORY	(ON/OF	F)	-	-	-	_	-	-	-	_

^{*} VOLUME DENSITY CONTROLS

COORDINATION SPLITS (G+Y+AR) IN SECONDS										
PHASE	1	2	3	4	5	6	7	8	OFFSET 1	OFFSET 2
DIRECTION	-	EB	-	-	-	WB	-	SB	(SEC)	(SEC)
PLAN NO.			S	PLITS	(G+Y+	AR) SE	CONDS	5		
1		95				95		25	<i>51</i>	ı
2		75				75		25	4	-
3		95				95		25	14	-
-	-	-		-		-			-	-
-	-	-		-		-			-	_
_	-	-		-		-			-	_
-	-	_		_		-			-	-

NO.	DESCRIPTION	REV. BY	DATE	
1	CORRECTED PAY ITEM	MJH	1-4-22	1



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	ITEM	QUANTITY	UNIT	ITEM DESCRIPTION
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$\left \cdot \right $	809	1	EACH	HIGH-SPEED ETHERNET RADIO
1	~~~			· · · · · · · · · · · · · · · · · · ·

	TOD	- COORDIN	IATION TIMING PLA	NS
DAY OF WEEK	PLAN NAME	HOURS	PLAN NUMBER	CYCLE LENGTH
1,7	OVERNIGHT	000-0900	-	FREE
1,7	WEEKEND	0900-1900	-	FREE
1,7	OVERNIGHT	01900-0000	-	FREE
2,3,4,5,6	OVERNIGHT	0000-0600	-	FREE
2,3,4,5,6	AM	0600-0930	1	120
2,3,4,5,6	MID	0930-1400	2	100
2,3,4,5,6	PM	1400-1900	3	120
2,3,4,5,6	OVERNIGHT	1900-0000	-	FREE

TOD = TIME OF DAY COORDINATION

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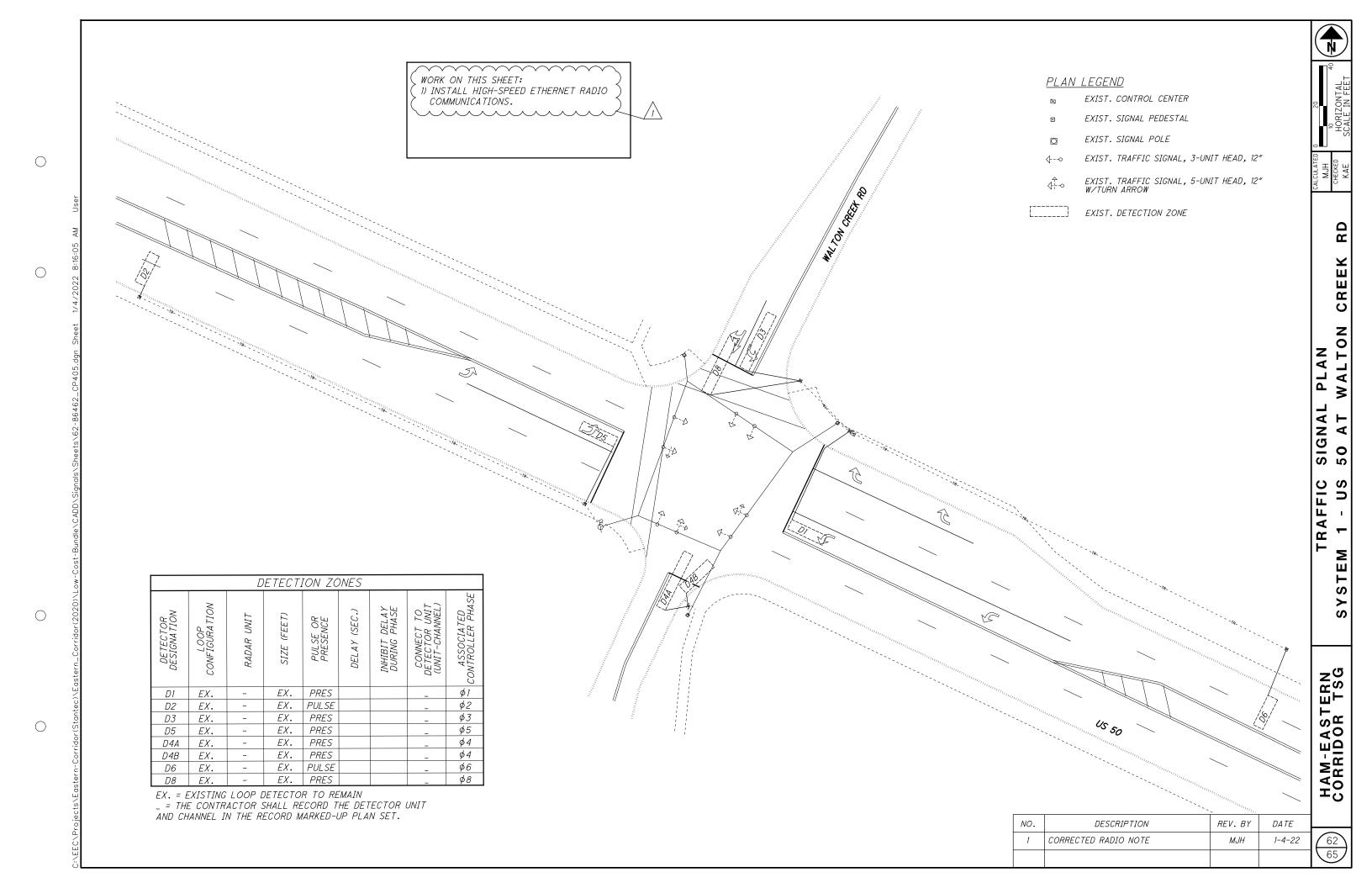
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START-UP START IN: ALL RED TIME FOR FLASH: 6 SEC FIRST PHASE: 2 COLOR DISPLAYED: GREEN		DUAL ENTRY: \$2+\$6, \$4+\$8 REST IN RED: NO								
		OVEF	RLAP			А	В	С	D	
COLOR DISPLA	ATED: GREEN		PHAS	SES			-	-	-	-
INTERVAL OR F	EATURE					PHASE		I		
INTERSECTION	MOVEMENT		1	2	3	4	5	6	7	8
DIRECTION			<i>EBLT</i>	WB	-	SB	WBLT	EΒ	-	NB
MIN GREEN (INI	TIAL)		7	20	ı	10	7	20	-	10
ADD INITIAL	*(SEC/ACT	TUATION)	-	1	I	-	ı	-	-	-
MAX INITIAL		*(SEC.)	-	1	-	-	-	-	-	-
PASSAGE TIME	(PRESET GAP)	(SEC.)	3.0	-	ı	3.0	3.0	-	-	3.0
TIME BEFORE R	REDUCTION	*(SEC)	-	-	ı	-	-	-	-	_
MINIMUM GAP		*(SEC)	-	-	ı	-	ı	-	-	-
TIME TO REDUC	CE	*(SEC)	-	-	1	-	-	-	-	-
MAXIMUM GREEN	V I	(SEC)	15	60	ı	45	<i>15</i>	60	-	45
MAXIMUM GREEN	V II	(SEC)	20	75	-	60	20	75	-	60
YELLOW CHANGE	E	(SEC)	<i>3.5</i>	4.5	-	3.5	<i>3.5</i>	4.5	-	<i>3.5</i>
ALL RED CLEAR	PANCE	(SEC)	1.5	1.0	-	1.0	1.5	1.0	-	1.0
WALK		(SEC)	-	-	-	-	-	-	-	11
PEDESTRIAN CL	EAR	(SEC)		-	-	-	-	-	-	13
	MAXIMUM (O	N/OFF)	-	-	ı	-	-	-	-	-
RECALL	MINIMUM (ON	V/OFF)	-	ON	-	-	_	ON	-	_
	PED (ON/OF	F)	-	-	-	-	-	-	-	-
MEMORY	(ON/OF	F)	-	-	_	-	_	-	-	_

* VOLUME DENSITY CONTROLS NOTE: ALL PEDESTRIAN PHASES ARE PUSHBUTTON ACTUATED.

COORDINATION SPLITS (G+Y+AR) IN SECONDS 3 4 5 6 7 8 OFFSET 1 (SEC) PHASE 2 OFFSET 2 (SEC) -SB WBLT EB NB EBLT WB DIRECTION PLAN NO. SPLITS (G+Y+AR) SECONDS 18 14 81 25 77 25 53 2 14 49 37 14 49 37 36 14 76 30 16 74 30 3 111 ---

NO.	DESCRIPTION	REV. BY	DATE	L
1	CORRECTED PAY ITEM	MJH	1-4-22	1
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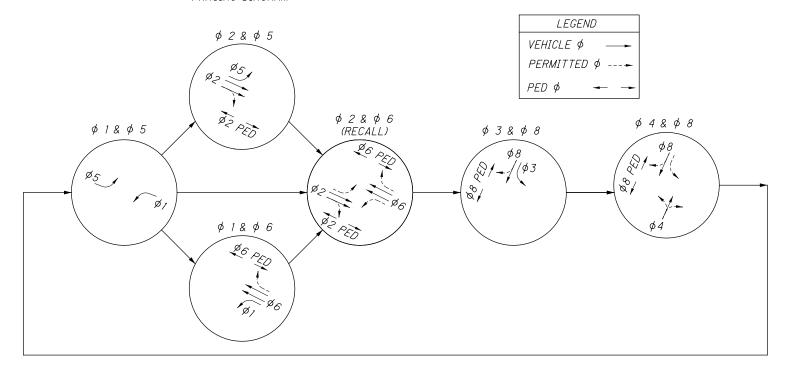
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DESCRIPTION	REV. BY	DATE	
TED PAY ITEM	MJH	1-4-22	63
			11 65 /

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION
~~~	<b>~~~~</b>	<b>~~~~</b>	······
809	1	EACH	HIGH-SPEED ETHERNET RADIO
			1

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COORDINATION SPLITS (G+Y+AR) IN SECONDS										
PHASE	1	2	3	4	5	6	7	8	OFFSET 1 OF	OFFSET 2
DIRECTION	WBLT	EB	SBLT	NB	EBL	WB	-	SB	(SEC)	(SEC)
PLAN NO.	PLAN NO. SPLITS (G+Y+AR) SECONDS									
1	14	81	0	25	14	81		25	52	-
2	14	47	13	26	14	47		39	40	-
3	14	63	21	22	14	63		43	10	ı
-	-	-		-		-			-	-
-	-	_		-		-			_	_
_	-	-		-		-			-	-
-	-	-		-		-			-	-

## PHASING DIAGRAM



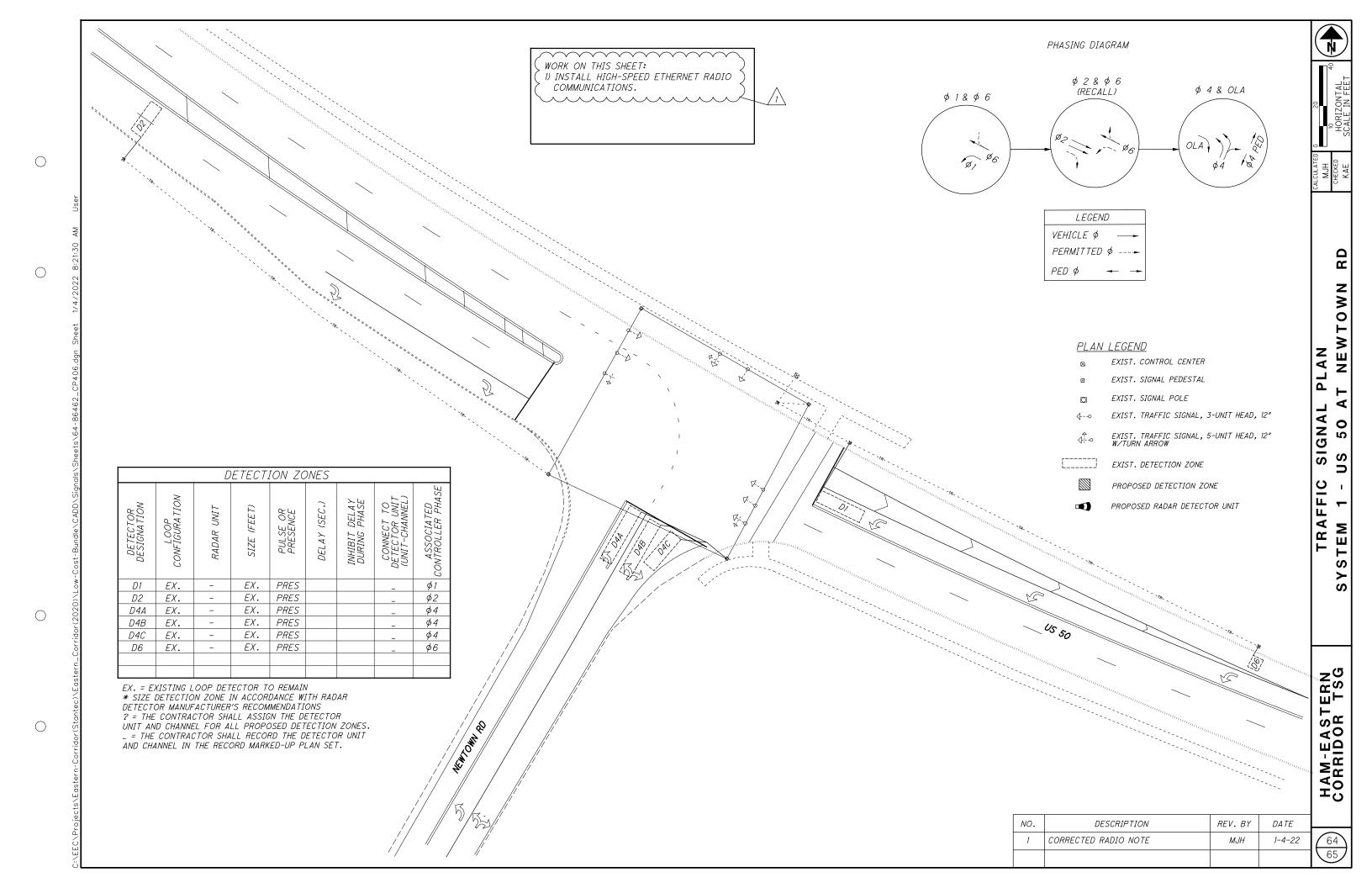
START-UP START IN: ALL RED TIME FOR FLASH: 6			DUAL ENTRY: \$2+\$6, \$4+\$8 REST IN RED: NO								
FIRST PHASE: 2 COLOR DISPLAYED: 0	ODEEN.	OVE	RLAP			A	В	С	D		
COLOR DISPLATED.	JNEEN	PHA:	SES			-	-	-	-		
INTERVAL OR FEATUR	E				PHASE						
INTERSECTION MOVEM	<i>IENT</i>	1	2	3	4	5	6	7	8		
DIRECTION		WBLT	EΒ	SBLT	NB	EBLT	WB	-	SB		
MIN GREEN (INITIAL)		7	20	7	10	7	20	-	10		
ADD INITIAL *(St	EC/ACTUATION)	-	-	-	-	-	-	-	-		
MAX INITIAL	*(SEC.)	_	-	_	-	_	-	-	-		
PASSAGE TIME (PRESE	PASSAGE TIME (PRESET GAP) (SEC.)		5.0	3.0	3.0	3.0	5.0	-	3.0		
TIME BEFORE REDUCT	ION *(SEC)	-	-	-	-	-	_	-	-		
MINIMUM GAP	*(SEC)	-	-	_	-	-	-	-	-		
TIME TO REDUCE	*(SEC)	-	-	-	-	-	-	-	-		
MAXIMUM GREEN I	(SEC)	<i>15</i>	60	25	45	15	60	-	45		
MAXIMUM GREEN II	(SEC)	20	75	30	60	20	75	-	60		
YELLOW CHANGE	(SEC)	<i>3.5</i>	4.5	<i>3.5</i>	3.5	3.5	4.5	-	3.5		
ALL RED CLEARANCE	(SEC)	1.5	1.0	1.5	1.5	1.5	1.0	-	1.5		
WALK	WALK (SEC)		8	-	-	-	8	-	13		
PEDESTRIAN CLEAR	PEDESTRIAN CLEAR (SEC)		13	-	-	-	13	-	19		
MAXII	MUM (ON/OFF)	-	-	-	-	-	-	-	-		
RECALL MINIMUM (ON/OFF)		-	ON	-	-	-	ON	-	-		
PED (ON/OFF)		-	-	-	-	-	-	-	-		
MEMORY	(ON/OFF)	_	-	-	-	-	-	-	-		

* VOLUME DENSITY CONTROLS NOTE: ALL PEDESTRIAN PHASES ARE PUSHBUTTON ACTUATED.

DAY OF WEEK	PLAN NAME	HOURS	PLAN NUMBER	CYCLE LENGTH
1,7	OVERNIGHT	000-0900	-	FREE
1,7	WEEKEND	0900-1900	=	FREE
1,7	OVERNIGHT	01900-0000	-	FREE
2,3,4,5,6	OVERNIGHT	0000-0600	-	FREE
2,3,4,5,6	АМ	0600-0930	1	120
2,3,4,5,6	MID	0930-1400	2	100
2,3,4,5,6	PM	1400-1900	3	120
2,3,4,5,6	OVERNIGHT	1900-0000	-	FREE

TOD = TIME OF DAY COORDINATION

NO.	DESCRIPTION	REV. BY	DATE
1	CORRECTED PAY ITEM	MJH	1-4-22



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COORDINATION SPLITS (G+Y+AR) IN SECONDS										
PHASE	1	2	3	4	5	6	7	8	OFFSET 1	OFFSET 2
DIRECTION	WBL	EB	_	NB	-	WB	1	-	(SEC)	(SEC)
PLAN NO.	PLAN NO. SPLITS (G+Y+AR) SECONDS									
1	15	50		55		65			8	-
2	15	48		37		63			47	-
3	16	64		40		80			57	-
-	-	-		-		-			_	_
ı	-	ı		-		_			-	-
_	-			_		-			-	_
_	-	-		_		_	·		-	-

START-UP START IN: ALL RED TIME FOR FLASH: 6 SEC		DUAL ENTRY: ¢2+¢6, ¢4+¢8 REST IN RED: NO								
FIRST PHASE COLOR DISPLA	_		OVE	RLAP			А	В	С	D
COLOR DISPLA	ATED: GREEN		PHAS	SES			4	-	-	-
INTERVAL OR F	EATURE					PHASE				
INTERSECTION	MOVEMENT		1	2	3	4	5	6	7	8
DIRECTION			WBLT	EΒ	-	NB	-	WB	-	-
MIN GREEN (INI	TIAL)		7	20	-	10	-	20	-	-
ADD INITIAL	*(SEC/ACT	UATION)	-	-	-	-	-	-	-	-
MAX INITIAL		*(SEC.)	ı	1	-	-	-	-	-	-
PASSAGE TIME	(PRESET GAP)	(SEC.)	3.0	5.0	-	3.0	-	5.0	-	-
TIME BEFORE R	PEDUCTION	*(SEC)	ı	1	-	-	-	-	-	-
MINIMUM GAP		*(SEC)	ı	ı	-	-	ļ	-	-	ı
TIME TO REDUC	Œ	*(SEC)	ı	1	-	-	-	-	-	-
MAXIMUM GREEI	V I	(SEC)	15	60	-	45	ı	60	-	-
MAXIMUM GREEI	V II	(SEC)	20	75	-	60	-	75	-	-
YELLOW CHANGE	E	(SEC)	3.0	4.5	-	3.5	-	4.5	-	-
ALL RED CLEAR	PANCE	(SEC)	3.0	1.0	-	2.0	-	1.0	-	-
WALK (SEC)		ı	-	-	14	-	-	-	-	
PEDESTRIAN CLEAR (SEC)			1	-	16	-	-	-	-	
	MAXIMUM (OI	N/OFF)	ı	-	-	-	-	-	-	-
RECALL MINIMUM (ON/OFF)		I/OFF)	ı	ON	-	-	_	ON	_	_
PED (ON/OFF)		ı	1	-	-	-	-	-	-	
MEMORY	(ON/OF	F)	ı	-	_	-	-	-	_	_

* VOLUME DENSITY CONTROLS NOTE: PEDESTRIAN PHASES ARE PUSHBUTTON ACTUATED.

			ATION TIMING PL	
DAY OF WEEK	PLAN NAME	HOURS	PLAN NUMBER	CYCLE LENGTH
1,7	OVERNIGHT	000-0900	-	FREE
1,7	WEEKEND	0900-1900	-	FREE
1,7	OVERNIGHT	01900-0000	-	FREE
2,3,4,5,6	OVERNIGHT	0000-0600	-	FREE
2,3,4,5,6	AM	0600-0930	1	120
2,3,4,5,6	MID	0930-1400	2	100
2,3,4,5,6	PM	1400-1900	3	120
2,3,4,5,6	OVERNIGHT	1900-0000	_	FREE

TOD = TIME OF DAY COORDINATION

NO.	DESCRIPTION	REV. BY	DATE
1	CORRECTED PAY ITEM	MJH	1-4-22

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