

ITEM 632, POWER SERVICE, AS PER PLAN

POWER SERVICE SHALL BE AS PER SPECIFICATION 632 AND STANDARD CONSTRUCTION DRAWING TC-83.10 WITH THE FOLLOWING EXCEPTIONS:

1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.
2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES.
3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.
4. THE POWER SERVICE BLIND HALF COUPLING SHALL BE TWENTY-SEVEN [27] INCHES ABOVE THE BOTTOM OF THE STRAIN POLE BASE PLATE AND SHALL BE WELDED TO THE STRAIN POLE.
5. CONDUIT FROM THE BOTTOM OF THE DISCONNECT SWITCH ENCLOSURE INTO THE BOTTOM OF THE CONTROLLER CABINET WILL NOT BE PERMITTED. POWER SERVICE WIRES FROM THE DISCONNECT SWITCH ENCLOSURE TO THE CONTROLLER CABINET SHALL BE ROUTED THROUGH THE STRAIN POLE.
6. IF INTERSECTION LIGHTING IS SPECIFIED THEN SEPARATE DISCONNECT SWITCHES SHALL BE INSTALLED AND LABELED "LIGHTING" AND "TRAFFIC SIGNAL" WITH A WEATHER PROOF STICKER. MARKER ON THE OUTSIDE OF THE ENCLOSURE IS NOT ACCEPTABLE.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ADDRESS STICKER WITH 4-INCH LETTERING TO THE METER BASE. THE ENGINEER WILL PROVIDE THE ADDRESS TO THE CONTRACTOR.

DISCONNECT SWITCH ENCLOSURES FURNISHED SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL CONTACT ODOT DISTRICT 8 TRAFFIC OPERATIONS TO OBTAIN THE POWER SERVICE ADDRESS TO BE USED FOR ON ALL INSPECTIONS. ONCE THE SIGNAL HAS PASSED INSPECTION, THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER WHO WILL IN TURN NOTIFY ODOT DISTRICT 8 TRAFFIC OPERATIONS. ODOT DISTRICT 8 TRAFFIC OPERATIONS WILL THEN MAKE APPLICATION FOR POWER FROM THE UTILITY.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE EXISTING METER, IF APPLICABLE, IS THE PROPERTY OF THE POWER COMPANY AND SHALL NOT BE REMOVED BY THE CONTRACTOR. PRIOR TO THE EXISTING TRAFFIC SIGNAL REMOVAL, ODOT DISTRICT 8 TRAFFIC OPERATIONS WILL REQUEST THE REMOVAL OF THE METER AND CLOSURE OF THE ACCOUNT.

THE DEPARTMENT WILL MEASURE ITEM 632, POWER SERVICE, AS PER PLAN, BY THE NUMBER OF COMPLETE UNITS AND WILL INCLUDE: WEATHERHEAD, CONDUIT, FITTINGS, CLAMPS, AND OTHER NECESSARY HARDWARE, INSTALLATION OF METER BASE, GROUND WIRE CONNECTIONS, DISCONNECT SWITCH WITH ENCLOSURE, AND COORDINATION WORK WITH UTILITIES.

ANY ADDITIONAL CABLE OR WOOD POLES NECESSARY TO ESTABLISH A POWER SERVICE WITH THE UTILITY COMPANY SHALL BE COVERED UNDER THE PERTINENT PAY ITEMS.

ITEM 632 COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-12.31 WITH MAST ARMS TC-81.22, INSTALLATION ONLY AND ITEM 632 COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-81.22, INSTALLATION ONLY

ALL SIGNAL SUPPORT ITEMS REQUIRED BY THE CMS ITEM 632.15 SHALL BE INCLUDED AS PART OF THIS SUPPORT. THE FOLLOWING ITEMS SHALL APPLY TO THE MATERIAL AND INSTALLATION OF SUPPLEMENT EQUIPMENT IN ADDITION TO THE INSTALLATION OF THE SIGNAL SUPPORT AND FOUNDATION:

THE CONTRACTOR IS TO PICKUP THE SIGNAL SUPPORTS FROM THE DISTRICT 8 CLERMONT OUTPOST GARAGE, 809 ROUTE 50, MILFORD, OH 45150. THE CONTRACTOR IS TO CONTACT DOMINGO MARTINEZ AT 513.933.6136 OR AT DOMINGO.MARTINEZ@DOT.OHIO.GOV TO COORDINATE PICKUP OF EQUIPMENT. THE SIGNAL SUPPORT WILL BE AVAILABLE FOR PICKUP ON JULY 1, 2021.

AN APPROVED DAMPER DEVICE SHOULD BE FURNISHED BY THE CONTRACTOR AND INSTALLED WITHIN 24 HOURS OF INSTALLATION PER THE REQUIREMENTS OF CMS 632.15. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMEDY ANY OBSERVED STRUCTURE GALLOPING JUDGED BY THE ENGINEER TO BE EXCESSIVE.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH AND WILL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR INSTALLATION OF ITEM 632 COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-12.31 WITH MAST ARMS TC-81.22, INSTALLATION ONLY AND ITEM 632 COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-81.22, INSTALLATION ONLY

ITEM 632 PEDESTAL, MISC.: PEDESTAL, TRANSFORMER BASE, INSTALLATION ONLY

ALL PEDESTAL ITEMS REQUIRED BY THE CMS ITEM 632.19 SHALL BE INCLUDED AS PART OF THIS SUPPORT. THE FOLLOWING ITEMS SHALL APPLY TO THE MATERIAL AND INSTALLATION OF SUPPLEMENT EQUIPMENT IN ADDITION TO THE INSTALLATION OF THE PEDESTAL AND FOUNDATION:

THE CONTRACTOR IS TO PICKUP THE PEDESTAL AND TRANSFORMER BASE FROM THE DISTRICT 8 CLERMONT OUTPOST GARAGE, 809 ROUTE 50, MILFORD, OH 45150. THE CONTRACTOR IS TO CONTACT DOMINGO MARTINEZ AT 513.933.6136 OR AT DOMINGO.MARTINEZ@DOT.OHIO.GOV TO COORDINATE PICKUP OF EQUIPMENT. THE PEDESTAL WILL BE AVAILABLE FOR PICKUP ON JULY 1, 2021.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD DRILLING OF POLES TO PROVIDE A RACEWAY FOR PEDESTRIAN SIGNAL HEADS AND PUSHBUTTONS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH AND WILL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR INSTALLATION OF ITEM 632 PEDESTAL, MISC.: PEDESTAL, TRANSFORMER BASE, INSTALLATION ONLY.

DETECTION MAINTENANCE

IF VEHICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, REQUIRES MODIFICATION, OR IS SCHEDULED TO BE TEMPORARILY REMOVED DURING THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER.

IF THE LOSS OF VEHICLE DETECTION IS KNOWN PRIOR TO THE START OF CONSTRUCTION, IT SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. AT SUCH TIME, THE DISTRICT TRAFFIC ENGINEER SHALL ADVISE THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE ACTION TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE PLACING THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL, MODIFYING THE MINIMUM GREEN TIMES, AND REMOVING THE MALFUNCTIONING DETECTION FROM SERVICE. WHERE NON-INTRUSIVE DETECTION (I.E. VIDEO, RADAR) ALREADY EXISTS, THE CONTRACTOR SHALL INSURE THAT DETECTION IS OPERATING AND MAINTAINED BY RECONFIGURING THE DETECTION UNITS ACCORDINGLY DURING ALL CONSTRUCTION PHASES. THIS IS TO AVOID THE SIGNAL FROM MAXING OUT THE EFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS.

LOCATIONS WHERE NON-INTRUSIVE DETECTION IS PROPOSED AND THE EXISTING VEHICLE DETECTION IS TO BE ABANDON, THE NON-INTRUSIVE VEHICLE DETECTION SHALL BE INSTALLED, CONFIGURED AND MADE FULLY FUNCTIONAL PRIOR TO THE EXISTING DETECTION BEING DISABLED. THE CONTRACTOR SHALL CONTINUE TO MAINTAIN AND MODIFY THE DETECTION UNTIL FINAL ACCEPTANCE OF THE TRAFFIC SIGNAL. THIS IS TO ENSURE VEHICLE DETECTION REMAINS FULLY FUNCTIONAL THROUGHOUT CONSTRUCTION.

633 COMMUNICATIONS, AS PER PLAN

FURNISH A CELLULAR MODEM, ONE 3-ANTENNA ASSEMBLY (PART #6001136), AND A 10' ETHERNET CABLE FOR REMOTE WIRELESS CELLULAR COMMUNICATION.

FOR NETWORK CONSISTENCY CELLULAR MODEMS SHALL BE THE SIERRA WIRELESS: MODEM, AIRLINK MP70 ETHERNET WITH AC TO DC POWER CABLE - MODEL 11027209KIT

THIS ITEM SHALL INCLUDE THE FURNISHING A MOUNTING BRACKET FOR THE ANTENNA WITH ALL NECESSARY HARDWARE INCLUDING BUT NOT LIMITED TO SPRING NUTS, WASHERS, AND BOLTS THAT INSTALLS TO THE MOUNTING CHANNEL ON THE SIDE OF THE SIGNAL CABINET.

THE CELLULAR MODEM EQUIPMENT SHALL BE DELIVERED TO ODOT DISTRICT 8 TRAFFIC FOR PROGRAMMING AND INSTALLATION.

ODOT DISTRICT 8 TRAFFIC OPERATIONS
ATTN: JIM JUDD
505 SOUTH SR 741
LEBANON, OH 45036
513-933-6692

THE CONTRACTOR SHALL PROVIDE THE MODEM SERIAL NUMBERS AND NECESSARY ESN NUMBERS FOR ODOT TO ESTABLISH WIRELESS SERVICE.

THE DEPARTMENT WILL MEASURE "COMMUNICATIONS, AS PER PLAN" BY THE NUMBER OF COMPLETE UNITS FURNISHED, RECEIVED, AND ACCEPTED BY ODOT DISTRICT 8 TRAFFIC OPERATIONS.

ITEM 625 BRACKET ARM, MISC.: 15', INSTALLATION ONLY

THE CONTRACTOR IS TO PICKUP THE BRACKET ARMS FROM THE DISTRICT 8 CLERMONT OUTPOST GARAGE, 809 ROUTE 50, MILFORD, OH 45150. THE CONTRACTOR IS TO CONTACT DOMINGO MARTINEZ AT 513.933.6136 OR AT DOMINGO.MARTINEZ@DOT.OHIO.GOV TO COORDINATE PICKUP OF EQUIPMENT. THE BRACKET ARMS WILL BE AVAILABLE FOR PICKUP ON JULY 1, 2021.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH AND WILL BE FULL COMPENSATION FOR ALL LABOR, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR INSTALLATION OF ITEM 625 BRACKET ARM, MISC.: 15', INSTALLATION ONLY.

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SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	LWB	CHECKED	JDO						
2	5	11	12	19						01/SAE/OT	EXT	TOTAL														
ROADWAY																										
5										5	203	10000	5	CY	EXCAVATION											
5										5	203	20000	5	CY	EMBANKMENT											
		49								49	202	32000	49	FT	CURB REMOVED											
		28								28	608	10000	28	SF	4" CONCRETE WALK											
		347								347	608	52000	347	SF	CURB RAMP											
EROSION CONTROL																										
15										15	659	00300	15	CY	TOPSOIL											
135										135	659	10000	135	SY	SEEDING AND MULCHING											
7										7	659	14000	7	SY	REPAIR SEEDING AND MULCHING											
0.02										0.02	659	20000	0.02	TON	COMMERCIAL FERTILIZER											
0.03										0.03	659	31000	0.03	ACRE	LIME											
0.7										0.7	659	35000	0.7	MGAL	WATER											
										2,500	832	30000	2,500	EACH	EROSION CONTROL											
DRAINAGE																										
	80									80	611	00400	80	FT	4" CONDUIT, TYPE E											
SANITARY SEWER																										
		1								1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE											
TRAFFIC CONTROL																										
			9							9	621	00100	9	EACH	RPM											
			9							9	621	54000	9	EACH	RAISED PAVEMENT MARKER REMOVED											
			39							39	630	03100	39	FT	GROUND MOUNTED SUPPORT, NO. 3 POST											
			2							2	630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION											
			3							3	630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL											
			117							117	644	00500	117	FT	STOP LINE											
			508							508	644	00600	508	FT	CROSSWALK LINE											
			240							240	644	30000	240	FT	REMOVAL OF PAVEMENT MARKING											
TRAFFIC SIGNALS																										
			3							3	625	18600	3	EACH	BRACKET ARM, MISC.:15', INSTALLATION ONLY					7						
			523							523	625	23304	523	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE											
			75							75	625	23400	75	FT	NO. 10 AWG POLE AND BRACKET CABLE											
			189							189	625	25604	189	FT	CONDUIT, 4", 725.051											
			357							357	625	25900	357	FT	CONDUIT, JACKED OR DRILLED, 4"											
			3							3	625	26252	3	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 111W, 120 VOLT, WITH PHOTOCCELL											
			161							161	625	29000	161	FT	TRENCH											
			8							8	625	30706	8	EACH	PULL BOX, 725.08, 24"											
			10							10	625	32000	10	EACH	GROUND ROD											
			13							13	630	79100	13	EACH	SIGN HANGER ASSEMBLY, MAST ARM											
			88							88	630	80100	88	SF	SIGN, FLAT SHEET											
			7							7	632	05006	7	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE											
			3							3	632	05086	3	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE											
			8							8	632	20730	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN											
			10							10	632	25000	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD											
			8							8	632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD											
			8							8	632	26000	8	EACH	PEDESTRIAN PUSHBUTTON											
			1,288							1,288	632	40500	1,288	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG											
			2,458							2,458	632	40700	2,458	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG											
			3							3	632	64010	3	EACH	SIGNAL SUPPORT FOUNDATION											
			6							6	632	64020	6	EACH	PEDESTAL FOUNDATION											
			55							55	632	68300	55	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG											
			118							118	632	69800	118	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG											
			1							1	632	70001	1	EACH	POWER SERVICE, AS PER PLAN					7						
			1							1	632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-12.31 WITH MAST ARMS TC-81.22, INSTALLATION ONLY					7						
			2							2	632	81700	2	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-81.22, INSTALLATION ONLY					7						
			6							6	632	90010	6	EACH	PEDESTAL, MISC.: 8', TRANSFORMER BASE, INSTALLATION ONLY					7						
			1							1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION											

GENERAL SUMMARY

CLE-131-2.09

FIELD WIRING HOOKUP CHART

SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH	SIGNAL HEAD	INDICATION	FIELD TERMINAL	FLASH
2A, 2B (EB)	R	φ2R	R	8A, 8B (NB)	R	φ8R	R
	Y	φ2Y			Y	φ8Y	
	G	φ2G			G	φ8G	
4A (SB LT)	R	φ4R	R	-	-	-	-
	Y	φ4Y		-	-	-	
	G	φ4G		-	-	-	
	←-Y-←	φ7Y		-	-	-	
4B (SB)	R	φ4R	R	-	-	-	-
	Y	φ4Y		-	-	-	
	G	φ4G		-	-	-	
5A (EB LT)	←-R-←	φ5R	R	PEDESTRIAN MOVEMENTS			OUT
	←-Y-←	φ5Y		P2A,P2B SOUTH	W	φLS 2P G	
	←-G-←	φ5G		DW	φLS 2P R		
6A (WB LT)	R	φ6R	R	P4A,P4B WEST	W	φLS 4P G	OUT
	Y	φ6Y		DW	φLS 4P R		
	G	φ6G		P6A,P6B NORTH	W	φLS 6P G	OUT
	←-Y-←	φ1Y		DW	φLS 6P R		
6B (WB RT)	R	φ6R	R	P8A,P8B EAST	W	φLS 8P G	OUT
	Y	φ6Y		DW	φLS 8P R		
	G	φ6G		OVERLAPS			OUT
	---Y-->	φ7Y		OLA	---Y-->	φ7Y	
---G-->	φ7G	OLA	---G-->	φ7G	OUT		
LS = LOAD SWITCH							

TRAFFIC SIGNAL SUBSUMMARY

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
625	18600	3	EACH	BRACKET ARM, MISC.: 15', INSTALLATION ONLY
625	23304	523	FT	NO. 8 AWG 800 VOLT DISTRIBUTION CABLE
625	23400	75	FT	NO. 10 AWG POLE AND BRACKET CABLE
625	25604	189	FT	CONDUIT, 4", 725.01
625	25900	357	FT	CONDUIT, JACKED OR DRILLED, 4"
625	26252	3	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), 111W, 120 VOLT, WITH PHOTOCCELL
625	29000	161	FT	TRENCH
625	30706	8	EACH	PULL BOX, 725.08, 24"
625	32000	10	EACH	GROUND ROD
630	79100	13	EACH	SIGN HANGER ASSEMBLY, MAST ARM
630	80100	88	SF	SIGN, FLAT SHEET
632	05006	7	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE
632	05086	3	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE
632	20730	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN
632	25000	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	26000	8	EACH	PEDESTRIAN PUSHBUTTON
632	40500	1288	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	40700	2458	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	64010	3	EACH	SIGNAL SUPPORT FOUNDATION
632	64020	6	EACH	PEDESTAL FOUNDATION
632	68300	55	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	69801	118	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG, AS PER PLAN
632	70001	1	EACH	POWER SERVICE, AS PER PLAN
632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-12.31 WITH MAST ARMS TC-81.22, INSTALLATION ONLY
632	81700	2	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TYPE TC-81.22, INSTALLATION ONLY
632	90010	6	EACH	PEDESTAL, MISC.: 8', TRANSFORMER BASE, INSTALLATION ONLY
632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	65521	1	EACH	CABINET, TYPE 332, AS PER PLAN
633	67100	1	EACH	CABINET FOUNDATION
633	67200	1	EACH	CONTROLLER WORK PAD
633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN
633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
633	99300	LS	LS	CONTROLLER ITEM, MISC.: RELOCATE PREEMPTION
809	60040	1	EACH	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ
809	69000	2	EACH	ADVANCE RADAR DETECTION
809	69100	4	EACH	STOP-BAR RADAR DETECTION
809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN

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TRAFFIC SIGNAL DETAILS

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