

PURCHASING DIVISION ROOM 210 CITY HALL 142 EAST MAIN STREET MERIDEN, CONNECTICUT 06450-8022

RAWLE DUMMETT PURCHASING OFFICER

PHONE 203-630-4115

NOTICE TO BIDDERS ADDENDUM #002

TO THE BID FOR: B023-43 East Main Street Paving

FOR: City of Meriden

BID DUE DATE: March 5, 2024 at 11:00 AM

Please acknowledge receipt of all addenda on the Bid Form Page(s).

Please see the responses to RFIs below;

At this time the City does not have the infrastructure to accept electronic bids and therefore bids will only be accepted as directed in the bid documents.

Rawle Dummett Purchasing Officer Dated: February 23, 2024

East Main Street Paving B024-43

Pre Bid Questions 2024-02-23

 In the Special Provisions section, it states that City PD will have first option of providing traffic services. However, there is a significant price difference between standard Uniformed Traffic Control and Police. At this point we are not sure if the PD will provide TC, so how should we handle this for bidding purposes?

Police Officers will be paid by the City of Meriden Engineering Dept. therefore there is no pay Item for Police. The Uniform Flaggers should be paid for under Item 5 Trafficperson (Uniform Flagger) for the anticipated 360 hrs. This item will be paid for at the unit price for hrs. actually used.

 If the plan is to use City PD for TC, would you provide their rates and/or create a "pass through" line item with a predetermined Unit Prices and Extended Total since the City will be paying the bill directly?

No line item has been provided for Municipal Police Officer. The Meriden Police Department will bill the Meriden Engineering Department directly. The contractor is responsible for ordering officers for the work. Coordination time should be included with the Maintenance and Protection of Traffic line item.

3. Does the police dept. have a requirement for how many traffic control persons will be required at any given time?

No, a specific number of traffic control persons is not specified. The Police Department will supply one, two or no Municipal Officers as they determine is necessary. Per section 01540 of the special provisions the number of traffic control persons shall be the amount necessary to protect the construction site and maintain traffic movement in a safe manner.

4. Is there a pre-determined traffic control plan? Will construction signage be required on every side road? Any specific cone patterns the city will need to maintain?

There is no predetermined traffic control plan. Some signage will be required on side roads. Standard BMP traffic cone patterns should utilized to protect and maintain traffic through the construction zone.

5. Can traffic be limited to alternating one-way traffic or will there need to be 2 lanes at all times?

Please refer to Section 01540, Construction Methods c, d and e of the Special Provisions. In general 2 lanes of traffic will be required to be maintained for traffic unless otherwise approved by the Police and the Engineering/Public Works Department.

6. What is the dollar value of the funds given by the State for this project?

The amount of the project that will be paid for with State funding is \$546,941.00.

7. Can the work be performed in 2 shifts per day, i.e. daytime and evening work?

The work cannot be performed in 2 shifts.

8. Who is responsible for replacing loop detectors?

The contractor will be responsible for replacing the loop detectors. Please refer to Special provision section 09018 attached. The attached Bid forms have been revised to include item #9 "Wire Loop Detector". The traffic signal control plans for each intersection have been attached.

SECTION 09018

WIRE LOOP DETECTOR

1. **DESCRIPTION**

The work under this Item shall consist of installing an inductive wire loop detector in a pavement sawcut to the dimensions and at the locations shown on the Contract Drawings or as ordered by the Engineer and in conformance with these Specifications.

2. MATERIALS

The materials for this work shall conform to the following:

A. <u>XHHW Stranded Copper Wire</u>

XHHW stranded copper wire shall conform to the applicable requirements of the N.E.C. The insulation shall be cross-linked polyethylene conforming to the applicable requirements of ASTM D-2655 and D-1351.

B. Loop Embedded Sealer

The sealer shall be as manufactured by Preco of Plainview, New York or equal. The sealer shall have a hardener/resin ratio of 1.75:1 by volume and be flow able. When applying the sealer, allow the material to flow slowly into the sawcut enabling encapsulation of the loop wires and allowing the material to self-level. The sealant shall sufficiently cure within 45 minutes at 77' F. It shall also be possible to cure the sealant at temperatures below freezing. After curing, the sealer shall have sufficient strength and resiliency to withstand stresses set up by vibrations, expansion and seasonal thermal changes. The compound shall also be resistant to most chemicals and solvents including all salts, acids and hydro-carbons.

3. CONSTRUCTION METHODS

The size of the loop shall be as shown on the Contract Drawings and shall be made using a power saw having an abrasive or diamond blade ¹/4" wide. The depth of the slot shall be as indicated on the Contract Drawings and shall extend from the loop to the location shown. The corners of the loop shall be mitered to full depth as shown on the details and the sharp edges shall be rounded off with a chisel to allow the wire to take a natural turn. When the cutting has been completed, the slot shall be cleaned of all cutting dust and grit with oil-free compressed air. The slot must be completely dry before inserting the wire.

The entire loop and lead-in shall consist of one continuous run if XHHW stranded copper wire unless otherwise directed on the Contract Drawings. The wire shall follow the sawcut to the location shown where it will enter flexible plastic tubing as shown on the installation detail sheet. The flexible tubing shall then be placed into a rigid steel conduit. The lead-in wires shall be

09018 - 1 of 2

twisted together and taped at 2' intervals beginning at the point where the wires leave the saw cut and enters the conduit to the terminals in the control cabinet, or where spliced to a 2/C twisted pair shielded cable at a foundation or pull box. The twisted wire shall remain together and shall not be coiled at any point. Splices will not be permitted at any point of the loop or lead-in. The 2/C twisted pair shall be grounded at the "DETECTOR UNIT ONLY" and shall be labeled as ground. The ground at the other end shall be clipped off and be prevented from grounding itself.

The saw cuts on all lead-ins shall be as shown on the Contract drawings or as directed by the Engineer. The number of turns of wire for each loop shall be as shown on the Contract Drawings. After installation, the wire shall be checked for slack or raised portions in the roadway slot. A paint mix stick or similar blunt instrument shall be used to push the wire in the slot. The wire shall be held in the slot with wooden pegs or by wrapping tape around the wire a sufficient number of times so that it fills the width of the slot and holds itself at the bottom of the sawcut. Prior to sealing the loop wire shall be checked for circuit continuity by the Contractor. No sealant shall be placed until this check is complete. The saw cut shall then be filled with plastic sealing compound (ONLY) to a level of approximately 1/16" below the roadway surface. In no case shall the plastic compound overflow the sawcut and all excess material shall be struck off with a straight edge. The plastic compound shall be applied in accordance with the manufacturer's recommendations. No sand filler will be allowed.

Each pair of lead-in wires in the cabinet shall be tagged and identified to determine phase and physical location of loop in the roadway.

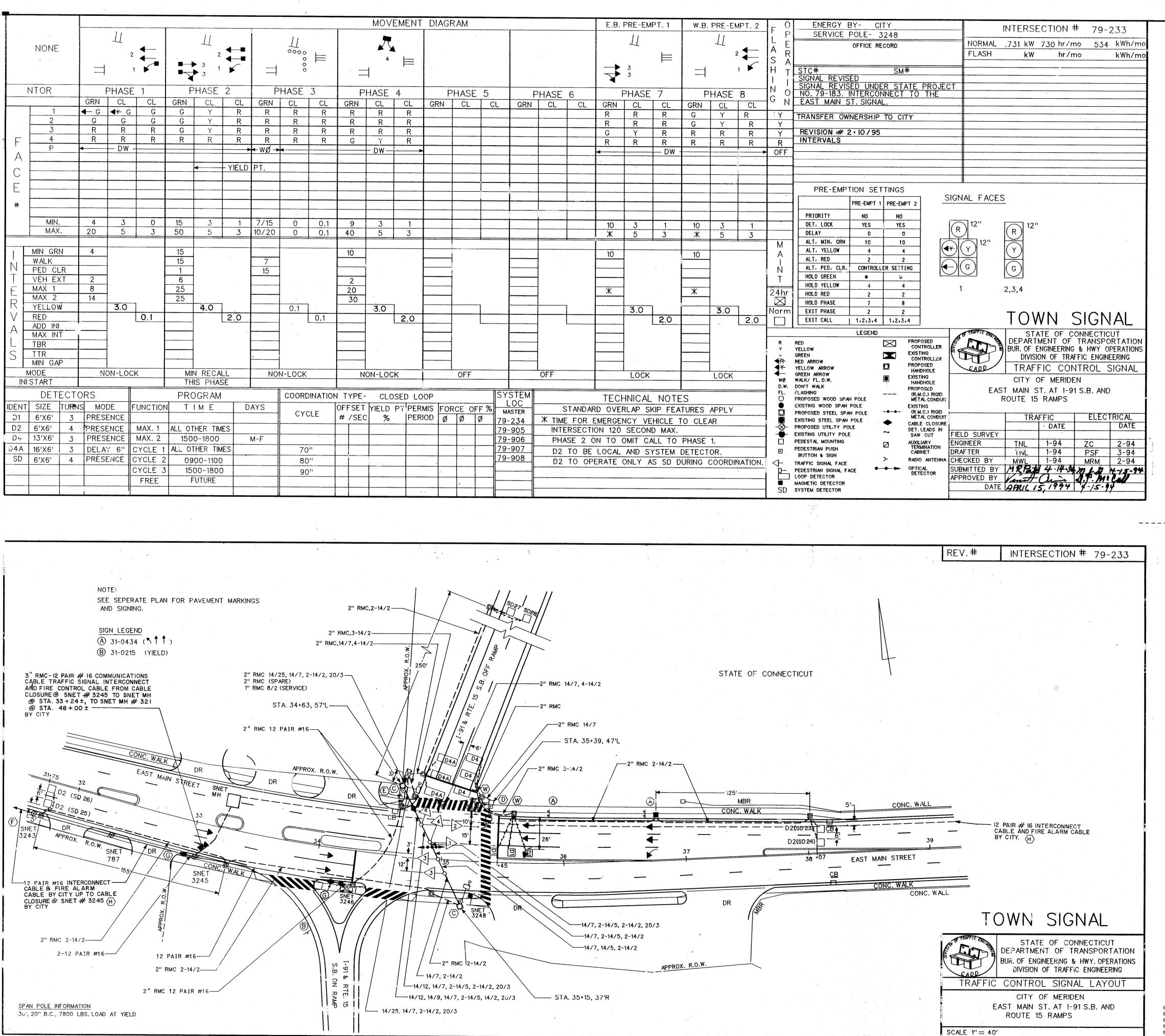
4. <u>METHOD OF MEASUREMENT</u>

Wire loop detectors will be measured for payment by the actual number of linear feet of saw cut regardless of the number of turns of wire.

5. BASIS OF PAYMENT

Wire loop detectors will be paid for at the contract unit price bid per linear foot, which price shall include sawcut, XHHW wire, sealing compound, cleaning, loop layout, flexible tubing and all other materials, equipment, tools and labor necessary for or incidental to the satisfactory completion of the item.

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CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT AND APPURTENANCES ARE NEW.

LOOP FEEDER CABLE TO BE RUN FROM CONTROLLER TO HANDHOLE OR SPLICE BOX WITH NO SPLICES BETWEEN.

ALL REMOVED EQUIPMENT TO BE RETURNED TO STATE.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

INSTALL SYSTEM DETECTORS IN CENTER OF LANE. CONTRACTOR TO FIELD LOCATE PRIOR TO INSTALLATION TO AVOID DAMAGED PAVEMENT.

LOCATION OF HANDHOLES ARE APPROXIMATE AND SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

ALL CONDUIT RISERS ON WOOD POLES TO BE ON OFF-TRAFFIC SIDE OF POLE UNLESS OTHERWISE SPECIFIED.

ATTACHMENTS TO WOOD POLES AND ALL CLEARANCES TO CONFORM TO NESC AND DPUC REQUIREMENTS. NO ATTACHMENTS TO WOOD UTILITY POLES SHALL BE MADE WITHOUT FIRST OBTAINING THE APPROVAL OF ALL APPLICABLE UTILITY COMPANIES.

INSTALL TYPE IV CONTROLLER FOUNDATION, 8 PHASE LMD 8000 CONTROLLER AND OPTICAL FIRE PRE-EMPTION SYSTEM. CABINET DOOR TO OPEN FIELD SIDE.

- $\langle \overline{C} \rangle$ install steel span pole foundation adjacent to back edge of walk. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
- $\langle D \rangle$ INSTALL PEDESTAL FOUNDATION ADJACENT TO BACK EDGE OF WALK. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
- (E) INSTALL 4' WIDE BY 7' LONG CONCRETE WALK TO THE PEDESTRIAN PUSH BUTTON
- (F) 12 PAIR #16 IMSA 40-4-1984 TELEPHONE INTERCONNECT CABLE (SELF) SUPPORT) INCLUDED UNDER THIS CONTRACT TO ALL SIGNALIZED INTERSECTIONS IN PROJECT LIMITS. (IMSA 40-2-1984 CABLE IN CONDUIT).
- G INSTALL TYPE "A" CABLE CLOSURE FOR INTERCONNECT CABLE.
- $\langle W \rangle$ INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.
- (H) TWELVE (12) PAIR #16 IMSA 40 4 1984 INTERCONNECT CABLE (SELF SUPPORTING), BY CITY TO ALL SIGNALIZED INTERSECTIONS IN PROJECT LIMITS (IMSA 40-2-1984 CABLE IN CONDUIT). FIRE CONTROL BY CITY SHALL UTILIZE SPARE CONDUCTORS. CABLE ALONG EAST MAIN STREET BY CITY. RUNS TO CONTROLLER FROM CABLE CLOSURE OR MANHOLE BY CONTRACTOR.

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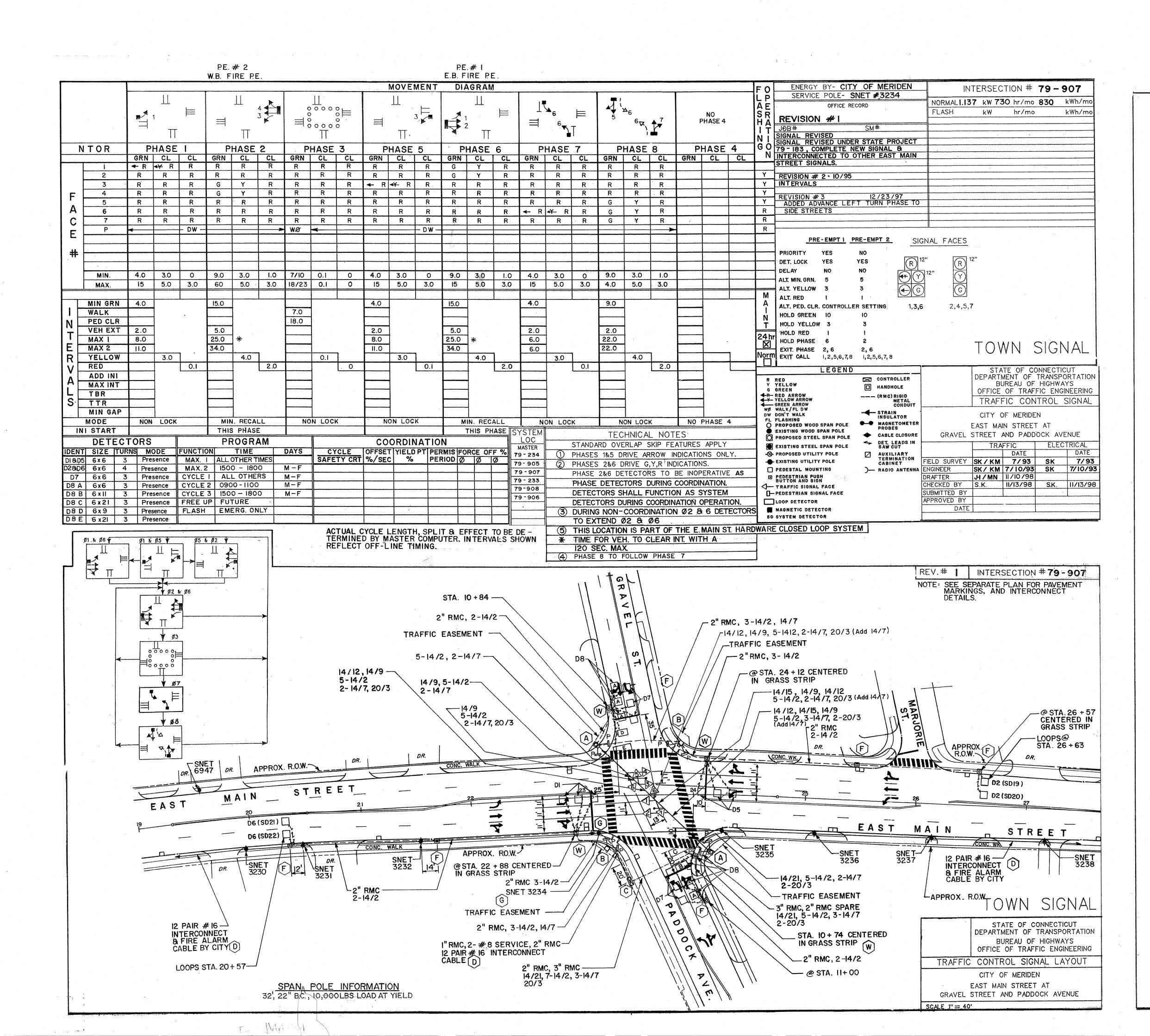
DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & HIGHWAY OPERATIONS DIVISION OF TRAFFIC ENGINEERING

EAST MAIN STREET

TRAFFIC CONTROL SIGNAL

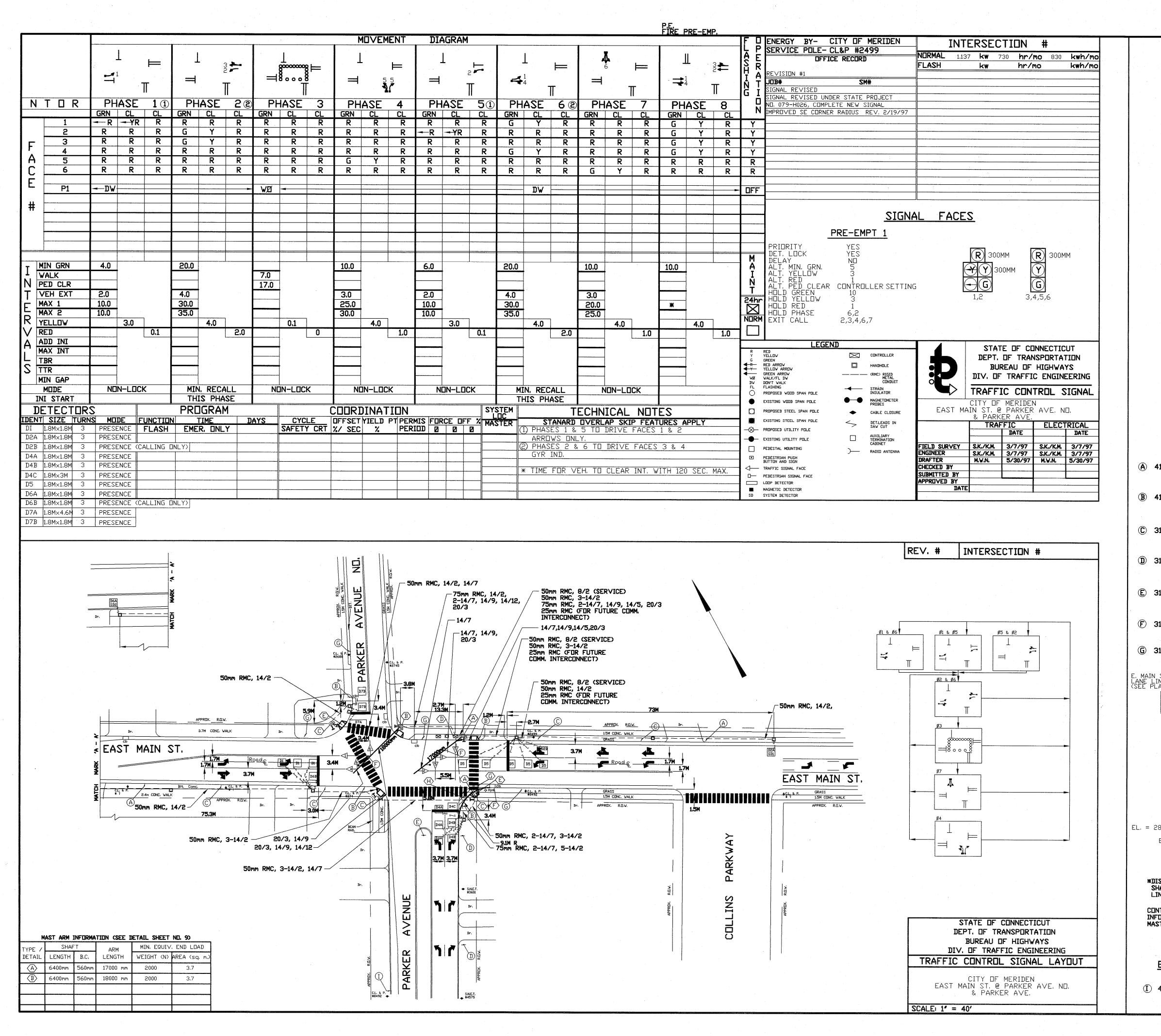
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& ROUTE 15 RAMPS



FORM TRA-035 REV. 1-88

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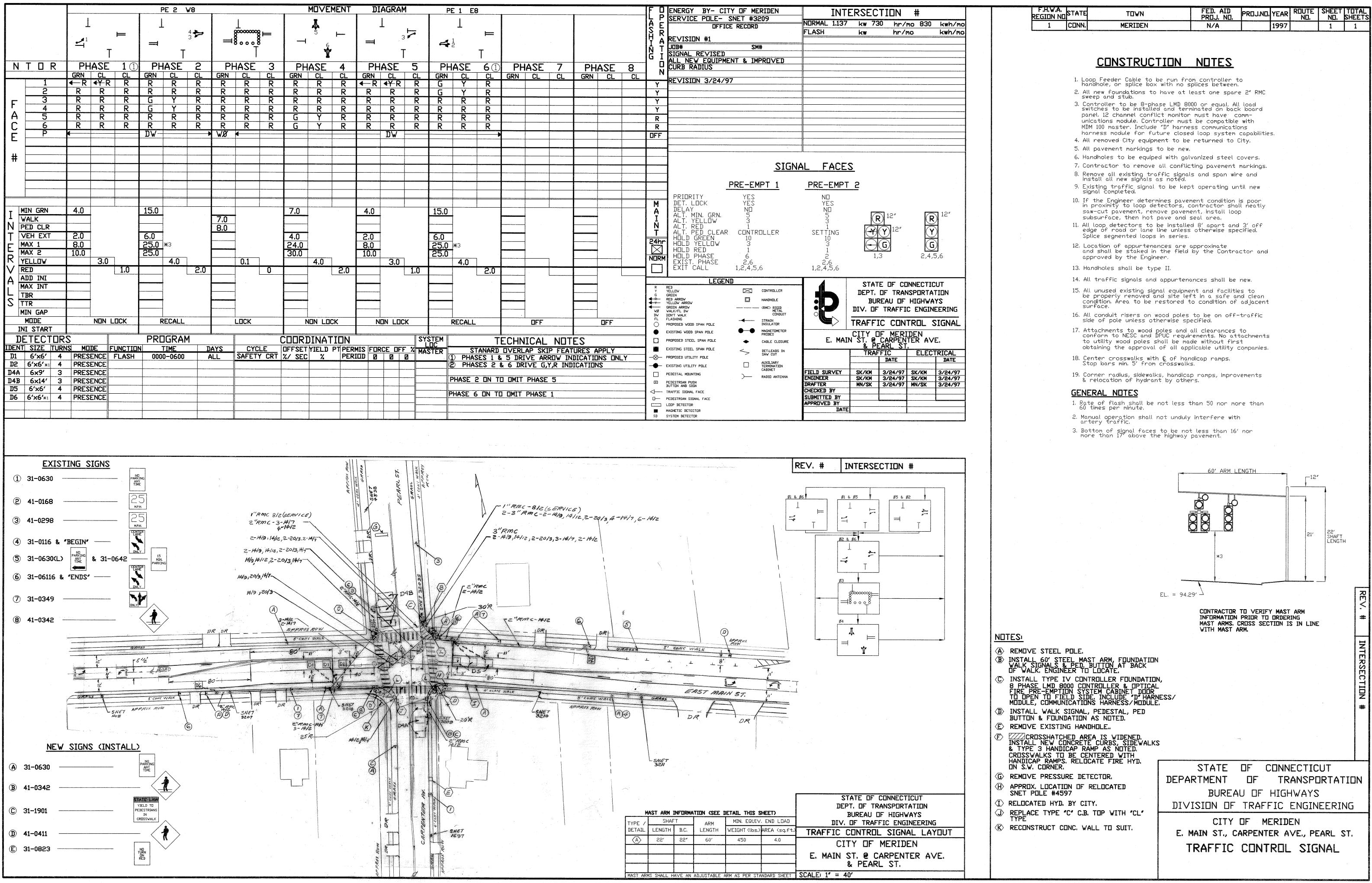


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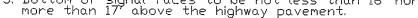
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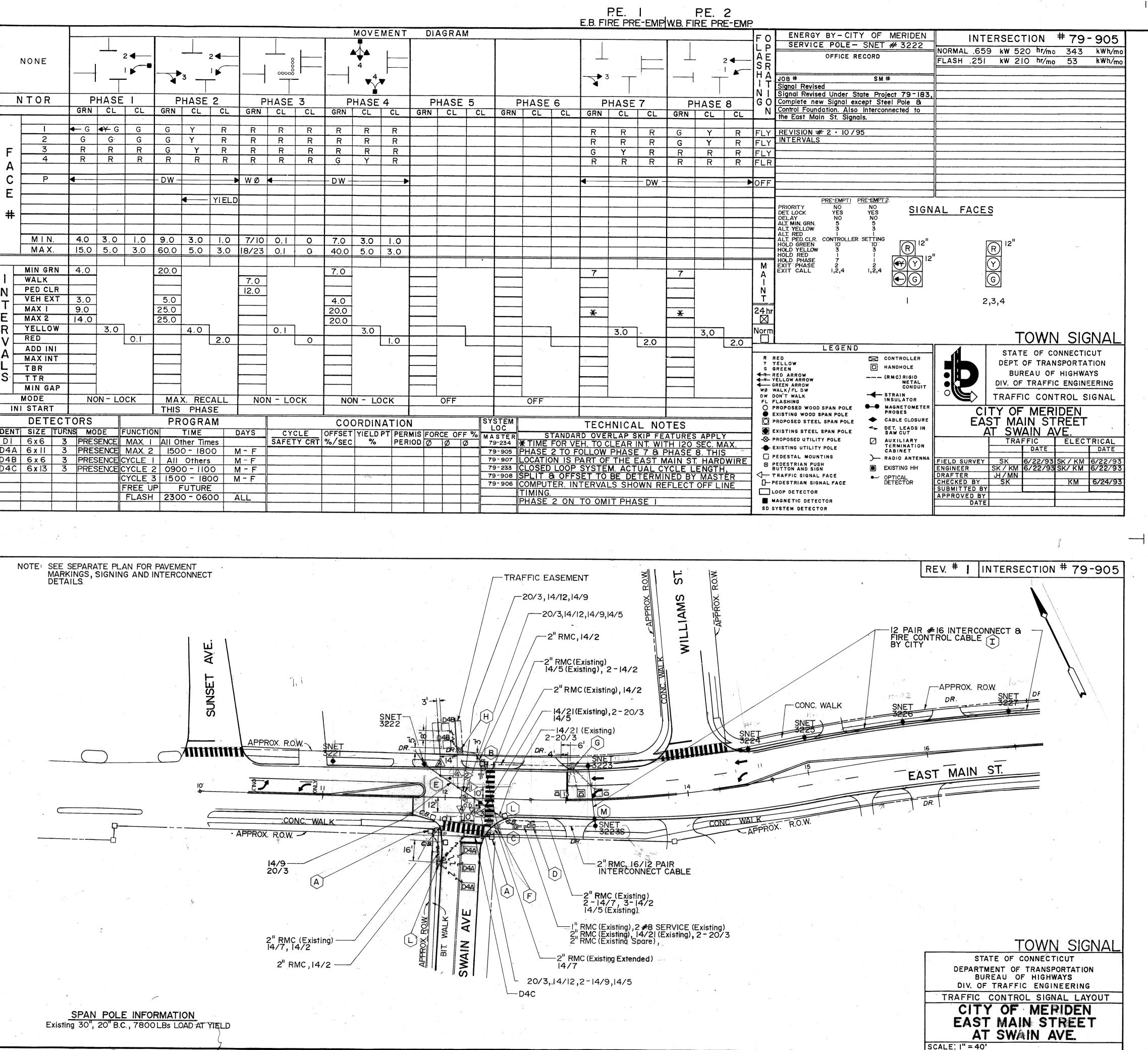


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)4F	and the second		SENCE	MAX. 2 CYCLE		0 - 180 Others		<u>M - F</u> M - F									79-905 79-907			
940	and the second			CYCLE 2		0 - 110		<u>И-</u> F			· · · · · · · · · · · · · · · · · · ·				-		79-233	CLOSE	D LOOP	'SI
				CYCLE 3		0 - 180		1 - F				the Tang		-			79-908	SPLIT	8 OFF	<u>SE</u>
				FREE U													79-906	TIMINO	<u>, , , , , , , , , , , , , , , , , , , </u>	NIC
				FLASH	230	0 - 060		ALL										PHASE		TC



.

		E.H.W.A.	· · · · · · · · · · · · · · · · · · ·		· · · · ·	1	5 REV. 1-1		
		REGION NO. STATE		FED. AID PROJ. NO.	PROJ. NO.		ROUTE NO.	SHEET NO.	TOTAL SHEET
		1 CONN.	MERIDEN	STPN-2413(4	4) 79-183	1994		57	168
		CONST							
• •		<u>CONST</u>	RUCTION NOT					· ·	
	- 1.		able to be run from ice box with no splices						
	2.		tions to have at least o						
		sweep and stub.							
	3.	switches to be panel. 12	be 8-phase LMD 8000 or e installed and terminate channel conflict moni odule. Controller mus ster.	d on back board tor must have					
· .	4.	All removed Ci	ty equipment to be re equipment to be return	turned to City.					
	5.		kings to be thermoplasti						
			equipped with galvanized						
	1	\$12°	remove all conflic	·*			•		
		markings.							
	8	Remove all exi new signals as n	sting traffic signals noted.	and install all					
	9.	NESC and DPUC r wood poles sha	poles and all clearance requirements. No attachm all be made without firs applicable utility compa	ents to utility t obtaining the					
	10.	in proximity neatly saw-cut	er determines pavement co to loop detectors, co pavement, remove pavemen hot pave and seal area.	ntractor shall t, install loop		•			
	11.	All loop detect edge of road o	cors to be installed 8' a br lane line unless other d loops in series.	part and 3' off					
	12.								
	13.	staked in the	andholes are approximat field by the Contractor	e and shall be and verified by					
	14.	the Engineer. Handholes shall	be Type II.						
	15.	Reserved.		1.					
	16.		isting signals, equipment y removed and site lef		· · · ·				
	17.		isers on wood poles to be less otherwise specified.						
	18.	volumes for a traffic operati provide documen controllers.	or his agent shall minimum of l year a ions based on a cl ⁴⁶ osed ntation and training of	nd optimize the loop system and					
	NOT		h signal padastal	nod button and					
-	A.)	Existing wall foundation.	k signal, pedestal,	ped button and					
	В.		k signal, pedestal, remain at present locatio						
	(c.)		teel pole and foundation						
			8-phase LMD 8000 or e	:					
	\checkmark		pre-emption system ation. Door to open to						
	E.	Relocate exist	ing span to new SNET 322	2 location.					
	F.	Location of ex	isting handhole.						
5.4 -	G	location. Lo handhole and	ting handhole and ext cate closest conduit cou extend new conduit from red in grass strip.	pling west of new					
	H.	Install new ha	ndhole at approximate lo	cation shown.					
	I.		air #16 IMSA 40-4-1984 i						R
		intersections cable in cond spare conduct	ting), by City to in project limits. duit). Fire control by C cors. Cable along Ea as from cable closure Contractor.	st Main Street by					2EV. #
	····· (J.)	Reserved.							-
	К.	The Contracto City, install	or may, without additi I new signal cable and g existing fagilities.						INTERS
	L.	Install handl	hole at location shown	centered in grass					SEC
	<u>M</u> .	strip. Cable closure	type "A" for interconnec	t ashle he atte					NOLLO
		Capie Closule	Albe y for fure.couned	a cable by City.					NO
				1,					=

GENERAL NOTES:

- Rate of flash shall be not less than 50 nor more than 60 times per minute.
- 2. Manual operation shall not unduly interfere with artery traffic.
- 3. Bottom of signal faces to be not less than 16' nor more than 17' above the highway pavement.

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DIVISION OF TRAFFIC ENGINEERING

05

EAST MAIN STREET TRAFFIC CONTROL SIGNAL AT SWAIN AVENUE

B024-43 Option A (Daytime Work) rev. 1

For: Pavement Rehabilitation Project East Main Street (280 ft. west of Parker Ave to I91 Bridge)

For: ENGINEERING DIVISION, DPW

Date of Opening: March 5, 2024 <u>11:00 AM</u>, Prevailing Local Time

To: Rawle Dummett Purchasing Officer 142 East Main Street, Room 210 Meriden, CT 06450-8022

The undersigned,	doing business in the Cit	ty/Town
U /		2

of	in the State of	, submits herewith, in conformity with
the general instructions, conditions and	l specifications for the following:	-

(B024-43 East Main Street Pavement Rehabilitation)

ITEM	Approx. Qty & Unit Measure	Item Description With Unit of Measure, Written In Words:	Unit Price Dollars & Cents	Extended Total Dollars & Cents
1	1 Lump Sum	Maintenance and Protection of Traffic:	\$	\$
2	3,765 Ton	Hot Mix Asphalt (HMA) Class 2:	\$	\$
3	32,737 S.Y.	Milling of Existing Bituminous Pavement:	\$	\$
4	2,292 Gal.	Non-tracking Asphalt Tack Coat	\$	\$
5	360 Hr.	Trafficperson (Uniform Flagger):	\$	\$
6	1 Lump Sum	Epoxy Resin Pavement Marking:	\$	\$
7	1 Lump Sum	Temporary Pavement Marking	\$	\$
8	Lump Sum.	Adjust Utility gate Boxes and Manhole Frames	\$	\$

ſ	9	1,600 L.F.	Wire Loop Detector	¢	¢
				Φ	Φ

B024-43 Option A (Daytime Work) rev. 1

Receipt of A	Addenda is Acknowle	edged:		
-	Dated:	-		
No.:	Dated:			
	Name of Bidde	er:		
	Address:			
	City/State:		Zip Code	
	By:			
		(Please print or type)	Title	
Is your Con	npany Minority-Own	ed? Yes - If Yes, what type:		No:
	Signature:			
Dated:	Telephone:	Fax:	E-mail:	
PI FASE N	OTE: All spaces mus	t be filled in with figures or wo	ords or your bid may be	automatically rejected

PLEASE NOTE: All spaces must be filled in with figures or words or your bid may be automatically rejected. Attached your Certified Check or Bid Bond, the Non-Collusive Bid Statement and the Bidder's Qualifications.