THE WORK PROPOSED BY THIS PROJECT CONSISTS OF SLAB REPAIRS AND MICROSURFACING OF THE EXISTING PAVEMENT. THE ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR TO THAT OF THE EXISTING PAVEMENT.	IR IR PLA ROA REG
EQUIPMENT CALIBRATION	CON IN
THE CONTRACTOR SHALL CALIBRATE THE MIXING EQUIPMENT AS PER 421.07. THIS CALIBRATION SHALL BE PERFORMED DURING NORMAL BUSINESS HOURS - MONDAY THROUGH FRIDAY, FROM 7:00 AM TO 5:00 PM.	FOR AS SPE IN
ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	ON 6 Fi
THE PAVEMENT REPAIRS SHALL BE IN ACCORDANCE WITH ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, WITH THE FOLLOWING ADDITIONS:	FEE EXT
THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS OF THE AREAS TO BE REPAIRED. THE AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A NEAT LINE. THE DEPTH OF REMOVAL, AS DIRECTED BY THE ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT. THE REPLACEMENT MATERIAL SHALL BE ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG70-22M AND IT SHALL BE PLACED IN TWO LIFTS.	DIRE MAR ONE ON EAC THE
THE ESTIMATED PAVEMENT REPAIR AREAS SHALL BE A MINIMUM OF 4 FEET IN WIDTH. THE DEPTH SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.	ON THE INTE DIRE
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.	CUR ORI THE
CLA-70-SLM 0.51 TO 6.56 (EB & WB) = 500 SY CLA-70-SLM 20.86 TO 25.11 (EB & WB) = 1500 SY	TO
ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR (441); AS PER PLAN 2000 SY	TO PAY
COOPERATION WITH RAILROAD (NORFOLK SOUTHERN RAILROAD)	MAR USE
THE CONTRACTOR SHALL COORDINATE ALL WORK ON, OVER OR ADJACENT TO THE RAILROAD WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL CONTACT THE FOLLOWING, AT LEAST 30 DAYS IN ADVANCE, IN ORDER TO COORDINATE THE NECESSARY WORK. UNDER NO CIRCUMSTANCES SHALL THERE BE ANY WORK PERFORMED WITHIN THE RAILROAD RIGHT-OF-WAY WITHOUT THE PROPER WRITTEN AUTHORIZATION AND/OR FLAGGING PROTECTION FROM THE RAILROAD. SEE "PAVING AT RAILROAD CROSSINGS" NOTE FOR ADDITIONAL DETAILS.	BEEN DIRE THE PAV THE ITEN PAV
NORFOLK SOUTHERN RAILROAD CROSSING LOCATION: CLA-70-6.41	IT DOC INCL SUB DEP ANY
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ALIGNMENT AND PROFILE

SPEED MEASUREMENT MARKINGS

70 EB SLM 0.84 TO 1.84 70 WB SLM 3.80 TO 4.80

ACE A SERIES OF SPEED MEASUREMENT MARKINGS ON THE ADWAY TO ASSIST IN THE ENFORCEMENT OF SPEED GULATIONS. EACH SPEED MEASUREMENT MARKING SHALL NSIST OF ONE WHITE TRANSVERSE 24-INCH LINE MEASURED THE DIRECTION OF TRAVEL AND 4 FEET IN LENGTH. THE RKINGS SHALL BE PLACED AT ONE-QUARTER MILE INTERVALS R A MINIMUM OF 1 MILE ALONG THE ROADWAY. AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. EED MEASUREMENT MARKINGS SHOULD AVOID BEING LOCATED THE VICINITY OF A TAPER, ENTRANCE RAMP OR EXIT RAMP.

' MULTILANE HIGHWAYS WITH SHOULDER WIDTHS OF AT LEAST FEET, CENTER THE SPEED MEASUREMENT MARKING ENTIRELY THE SHOULDER. IF THE SHOULDER WIDTH IS LESS THAN 6 ET. CENTER THE MARKING ON THE EDGE LINE SUCH THAT IT TENDS 2 FEET ON EITHER SIDE. TO ASSURE VISIBILITY OF MARKINGS AND REDUCE PARALLAX ERRORS, FOR EACH RECTION UTILIZING AN AIR SPEED CHECK ZONE, A SET OF TWO RKINGS (LEFT AND RIGHT SIDE) SHALL BE USED AT EACH E-QUARTER MILE INTERVAL.

TWO-LANE ROADWAYS, ONE MARKING SHOULD BE USED AT CH ONE-QUARTER MILE INTERVAL AND INSTALLED ACROSS CENTER LINE SUCH THAT IT EXTENDS 2 FEET ON EITHER SIDE.

MARKINGS SHALL BE LAID OUT BY A REGISTERED SURVEYOR. SECTIONS WITH CURVES, THE MARKINGS ON THE INSIDE OF CURVE SHALL MEET THE REQUIRED ONE-QUARTER MILE ERVALS. MARKINGS ON THE OUTSIDE OF THE CURVE SHALL BE PECTLY ACROSS FROM THE MARKINGS ON THE INSIDE OF THE RVE, NOT STAGGERED. A RECORD IS TO BE KEPT AND ONE IGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO DISTRICT TRAFFIC ENGINEER AND ONE COPY IS TO BE SENT THE DISTRICT CONSTRUCTION ENGINEER.

TERIALS. EQUIPMENT AND APPLICATION SHALL BE ACCORDING THE TYPE OF PAVEMENT MARKING MATERIAL USED.

YMENT WILL BE FOR EACH 24-INCH-WIDE BY 4 FEET LONG RKING AND SHALL INCLUDE THE PAVEMENT MARKING MATERIAL ED AND THE SURVEYING WORK.THE FOLLOWING QUANTITIES HAS EN CARRIED TO THE GENERAL SUMMARY TO BE USED AS PECTED BY THE ENGINEER:

FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE EMENT MARKING SUMMARY FOR MARKINGS ON BOTH INSIDE AND OUTSIDE SHOULDERS OF IR 70 EB & WB.

M 646 SPEED MEASURMENT MARKING. 20 EACH

EMENT MARKINGS

SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CUMENT THE LAYOUT OF THE EXISTING PAVEMENT MARKINGS LUDING EXISTING LANE AND SHOULDER WIDTHS IN A LOG AND BMIT TO THE DEPARTMENT FOR ACCEPTANCE. THE PARTMENT WILL NOT ALLOW THE CONTRACTOR TO PERFORM PAVEMENT WORK FUNCTIONS (MILLING, OVERLAY, ETC.) TIL ACCEPTANCE OF THE SUBMITTED EXISTING MARKING LOG.

RKINGS SHALL REPLACED IN KIND EXCEPT WHERE EXISTING RKINGS DO NOT MEET THE CURRENT STANDARD CONSTRUCTION WINGS. THE CONTRACTOR SHALL COORDINATE AND RRABORATE THE PROPOSED LAYOUT OF ALL PAVEMENT RKINGS PER APPLICABLE STANDARD CONSTRUCTION WINGS WITH ODOT.

PERMANENT PAVEMENT MARKINGS OR RAISED PAVEMENT RKERS SHALL BE PLACED UNTIL THE ODOT PROJECT GINEER HAS APPROVED THE LOCATION AND/OR LAYOUT OF THE RK ZONE PAVEMENT MARKINGS.

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ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD. A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

* DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

* DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC. OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

* FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS. SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NO WORK SHALL BEGIN ON THIS PROJECT BEFORE APRIL 1. 2025.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT. THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 400 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

WORK SCHEDULE

NOTES ENERAL (ワ

ESIGN AGENCY



SHEET NUM. 18 20 19 5 16 7 8 2,000 275 650 772,755 462,739 82.4 7,963 9,588 1,973 1,973 41.2 41.2 7,693 9*,*858 667 20 0.04 20 30 667 20 41.2 41.2 7,693 7,963 1,895 TIME: 1:40:58 PM USER: tknapke ive Projects\District 07\Clark\10536 11/26/2024 nents\01 Acti DATE CLA-70-0.51/20.86 34x22 (in) SIZE: et PA DEL Β

	PART.		ITEM	GRAND		
21	01/IMS/05		EXT	TOTAL	UNIT	
	2,000	251	01001	2,000	SY	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN
	275	255	15000	275	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACE
	650	255	20000	650	FT	FULL DEPTH PAVEMENT SAWING
	772,755	421	10010	772,755	SY	MICROSURFACING, SURFACE COURSE
	462,739	421	10020	462,739	SY	MICROSURFACING, LEVELING COURSE
	82.4	850	10010	82.4	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (AS
	7,963	850	10110	7,963	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (AS
	9,588	850	10130	9,588	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (A
	1,973	621	00100	1,973	FACH	RPM
	1,973	621	54000	1,973	EACH	RAISED PAVEMENT MARKER REMOVED
	41.2	642	30030	41.2	MILE	REMOVAL OF PAVEMENT MARKING, EDGE LINE, 6", TYP
	41.2	642	30030	41.2	MILE	REMOVAL OF PAVEMENT MARKING, LANE LINE, 6", TYP
	7,693	643	30000	7,693	FT	REMOVAL OF PAVEMENT MARKING, CHANNELIZING LIN
	9,858	643	30000	9,858	FT	REMOVAL OF PAVEMENT MARKING, DOTTED LINE
	667	643	30000	667	FT	REMOVAL OF PAVEMENT MARKING, TRANSVERSE/DIAG
	20	643	30020	20	EACH	REMOVAL OF PAVEMENT MARKING, SPEED MEASUREM
	0.04	646	10010	0.04	MILE	EDGE LINE, 6"
	20	646	10310	20	FT	CHANNELIZING LINE, 12"
	30	6/6	10/00	30		
	667	646	10400	667	FT	TRANSVERSE/DIAGONALLINE
	20	646	20710	20	FACH	SPEED MEASUREMENT MARKING
	41.2	807	14010	41.2	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
	41.2	807	14110	41.2	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
	7,693	807	14310	7,693	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
	 7,963	807	14410	7,963	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
	1,895	807	14430	1,895	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING
						STRUCT
14	14	519	12300	14	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
3	3	519	12300	3	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
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4	4	519	12300	4	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
						STRUCTU
1	1	519	12300	1	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
2		F40	40000	2	01	
3	3	519	12300	3	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
						STRUCTU
3	3	519	12300	3	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
						STRUCTU
2	2	519	12300	2	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
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2	2	519	12300	2	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
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8	8	519	12300	8	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B
						STRUCTU
8	8	519	12300	8	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B

DESCRIPTION	SEE SHEET NO.	
PAVEMENT		
MENT, TYPE 1, CLASS QC MS	5	
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C EDGE LINE 6"		AL
G, LANE LINE, 6"		NER
G, CHANNELIZING LINE, 12"		GEI
G, DOTTED LINE, 12"		
URE REPAIR (CLA-70-0156)		
URE REPAIR (CLA-70-0173)		
URE REPAIR (CLA-70-0265)		
JRE REPAIR (CLA-70-0634R)		
IRE REDAIR (CLA-70-1576L)		
JRE REPAIR (CLA-70-1898R)		
JRE REPAIR (CLA-70-2079L)		
JRE REPAIR (CLA-70-2079R)		DESIGN AGENCY
JRE REPAIR (CLA-70-2092L)		
JKE KEPAIK (ULA-70-2092K)		DESIGNER
		TMK
		RPH 4-22-24 PROJECT ID
		105361 SHEET TOTAL
		P.14 21