SPECIAL - STRUCTURES: STRUCTURAL DEBRIS NETTING INSTALLATION (SUM-261D-0.664 & SUM-261-10.237R)

THIS WORK SHALL CONSIST OF THE PLACEMENT OF A "STACKED" DEBRIS NETTING SYSTEM TO BE PLACED UNDER SPECIFIED STRUCTURES AND PORTIONS OF STRUCTURES SPANNING FROM FASCIA GIRDER TO 🗸 FASCIA GIRDER. THE STRUCTURAL DEBRIS NETTING SHALL BE INSTALLED ON SPECIFIED STRUCTURES FOR PROTECTION OF PEDESTRIAN OR VEHICLE TRAFFIC BELOW AND SHALL MEET ALL APPLICABLE GUIDELINES AND FOLLOW MANUFACTURERS SPECIFICATIONS.

THE DEBRIS NETTING SYSTEMS UTILIZED FOR THESE INSTALLATIONS SHALL BE FROM THE FOLLOWING MANUFACTURERS OR AN APPROVED EQUAL.

NETTINGNOW, LLC *885 MAIN STREET, UNIT #445* SOUTH GLASTONBURY, CT 06073 PHONE: 800-481-9534 WWW.NETTINGNOW.COM CONTACT: HERVE RIVARD

ROC BLOC (N820H WITH WS70BK) FALLPROOF NETWORK SYSTEMS, INC. SECOND AVENUE (REAR) TRENTON, NJ 08619 *PHONE: 800-452-0222* WWW.FALLPROOFNETWORKS.COM CONTACT: GEOFF KLINE

INCORD 226 UPTON RD. COLCHESTER, CT 06415 PHONE: 800-596-1066 WWW.INCORD.COM CONTACT: BRIAN HILLERY

NO EXTRA PAYMENT WILL BE MADE FOR REMOVAL OF ANY DELAMINATED CONCRETE. THIS WORK, IF REQUIRED, SHALL BE PERFORMED UNDER A SEPARATE PAY ITEM.

THE COMBINATION OF THE HEAVY DEBRIS NETTING MESH TOGETHER WITH THE LIGHTWEIGHT NETTING OR DEBRIS LINER SPECIFIED SHALL BE CONSIDERED A "SYSTEM". THE "SYSTEM" SHALL BE UTILIZED AS SPECIFIED IN THESE NOTES AND SHALL BE CONSIDERED A UNIT.

THE CONTRACTOR SHALL UTILIZE THE RECOMMENDED MEANS AS SPECIFIED BY THE MANUFACTURER OF THE NETTING TO ATTACH THE "SYSTEM" TO THE STRUCTURE. IT SHALL BE SECURED USING ANCHORS, CABLES, WIRE ROPE CABLE, EYEBOLTS, THIMBLES, TURNBUCKLES, ETC. AND SHALL INCLUDE ALL ASSOCIATED HARDWARE NECESSARY TO SECURELY FASTEN THE "SYSTEM" TO THE BRIDGE. STRUCTURAL NET HARDWARE SHALL BE DROP FORGED, PRESSED OR FORMED STEEL OR MATERIAL OF EQUAL QUALITY OR BETTER QUALITY. SURFACES SHALL BE SMOOTH AND FREE OF SHARP EDGES. ALL HARDWARE SHALL HAVE A CORROSION RESISTANT FINISH CAPABLE OF WITHSTANDING A FIFTY HOUR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B1117.

SPECIFICATIONS FOR HEAVY DUTY NETTING: STYLE: RASCHEL KNOTLESS MONOFILAMENT FIBER NETTING FIBER: HIGH TENACITY POLYPROPYLENE (HTPP) COLOR: BLACK

NAME/DESCRIPTION TEST DESIGNATION ACCEPTANCE RANGE (IF APPLICABLE) CHORD DIAMETER: 3/16" MESH SIZE: 2.5" SQUARE OPENING MESH BREAK: ASTM D5034 > 700 LBF DYNAMIC DROP TEST: ANSI 10. 11350 LB DROPPED 34.5 FEET LOAD TEST: 6000 LB

FIBER: HIGH TENACITY POLYPROPYLENE (HTPP) COLOR: BLACK

NAME/DESCRIPTION TEST D (IF AF MESH SIZE BREAKING STRENGTH ASTN

BURSTING STRENGTH ASTN

EACH NETTING OR DEBRIS LINER SHALL COVER THE ENTIRE AREA BETWEEN THE FASCIA GIRDERS AND SHALL ALLOW FOR A 12" TO 24" OVERLAP AT BORDERS AND EDGES OF NETS, BEAMS, ARCHES, ETC. IN ORDER FOR PLACEMENT OF THE "SYSTEM", NETS SHALL BE CAPABLE OF A MINIMUM SERVICE LIFE OF TEN YEARS UNDER NORMAL ON-THE-JOB EXPOSURE TO WEATHER, SUNLIGHT AND HANDLING, EXCLUDING DAMAGE FROM MISUSE, MISHANDLING AND EXPOSURE TO CHEMICALS AND AIRBORNE CONTAMINENTS. GROMMETS SHALL BE STAINLESS STEEL AND SPACED AT 12" ALONG THE SIDES OF THE NETTING PANEL.

EACH STRUCTURAL NET SHALL BE PERMANENTLY LABELED WITH THE FOLLOWING INFORMATION: 1) NAME OF MANUFACTURER 2) IDENTIFICATION OF NET MATERIAL 3) DATE OF MANUFACTURE 4) DATE OF PROTOTYPE TEST 5) NAME OF TESTING AGENCY 6) SERIAL NUMBER

NETTING SYSTEM HARDWARE SHALL CONNECT TO GIRDER STIFFENER PLATES AND CROSS FRAMES. NETTING SYSTEM HARDWARE SHALL NOT CONNECT TO GIRDER WEB OR FLANGES.

ALL WORK VEHICLES AND EQUIPMENT NECESSARY TO ACCESS THE UNDERSIDE OF THE STRUCTURE, OR THE AREAS WHERE THE NETTING IS TO BE PLACED, SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURAL DEBRIS NETTING INSTALLATION. CARE SHALL BE TAKEN WHEN WORKING AROUND TRAFFIC, ACCESS ROADS, PARKS, METROPARK TRAILS AND ANY AREAS WHERE THE GENERAL PUBLIC MAY HAVE ACCESS TO THE UNDERSIDE OF THE STRUCTURE AND ASSOCIATED RIGHT-OF-WAY. TRAFFIC SHALL BE MAINTAINED ON ALL PARK ROADS, TRAIL PATHS, AND ACCESS ROADS AT ALL TIMES. NO EXTRA PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC IN THESE AREAS; IT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM SPECIAL STRUCTURAL DEBRIS NETTING INSTALLATION.

THE CONTRACTOR IS REQUIRED TO SUBMIT THEIR PLANS FOR THE INSTALLATION, REMOVAL, AND INSPECTION, INCLUDING THE REMOVAL OF ACCUMULATED DEBRIS. OF THE STRUCTURAL DEBRIS NETTING SYSTEM TO THE DISTRICT AND W&LE RAILROAD BEFORE ANY WORK IS PERFORMED.

PAYMENT FOR THIS ITEM AS DESCRIBED ABOVE SHALL BE MADE UNDER ITEM SPECIAL - STRUCTURAL DEBRIS NETTING INSTALLATION.

SEE STRUCTURE SHEETS 3-9 FOR NETTING LOCATIONS.

SUM-261D-0.664 ITEM 530, SPECIAL - STRUCTURES: STRUCTURAL DEBRIS NETTING INSTALLATION

SUM-261-10.237R ITEM 530, SPECIAL - STRUCTURES: STRUCTURAL DEBRIS NETTING INSTALLATION

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SPECIFICATIONS FOR LIGHT DUTY NETTING OR DEBRIS LINER: STYLE: RASCHEL KNOTLESS MONOFILAMENT FIBER NETTING

DESIGNATION	ACCEPTANCE RANGE
PPLICABLE)	
	1/16"
Л D5034	233 PSI WARP/79
	PSI FILL
M D3787	210 PSI

5,670 SQUARE YARDS

2,555 SQUARE YARDS

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ITEM 847 - MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN																	
ITEM 847 - FULL DEPTH REPAIR, AS PER PLAN ITEM 847 - WEARING COURSE REMOVED, ASPHALT, AS PER PLAN																	
											STING	CONC	RETE OV	/ERLA	Y REMOVED,		
									AS PER PLAN								
THESE ITEMS SHALL BE PERFORMED PER SUPPLEMENTAL																	
SPECIFICATION BRIDGE DECK REPAIR AND OVERLAY WITH																	
				AND CHI	PPINO	G WITH THE											
FOLLOWI	NG RE	VISIOI	vS:														
THE THIC	KNES	S OF TH	IE COI	VCRETE	OVERL	AY REMOVE	D,										
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BE AS SPE	:CIFIE	או ט IN IF	1E PLA	1185.													
CONSTRU	ICTIO	N JOIN	TS WI	LL NOT E	BE PER	MITTED IN T	ΉE										
WHEEL LI	NE.																
	1 A \		1000		•		•										
•						MICRO-SILICA FIONED AS FO											
VIUITIEL		UNL I É	JIIAL			ICIVLU AS FU											
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QUANTIT	IES PE	R CUB	IC YAF	'D													
AGGREGA	ATES (.	SSD)				1											
	FINE	#8 COARSE	AGG	CEMENT	MICRO		AIR	FIBER (1 ¼"									
AGG TYPE	AGG (LB)	AGG	TOTAL (LB)*	CONTENT (LB)	SILICA (LB)	CEMENTITIOUS RATIO	CONTENT +/- 2%	POLYPROPYLENE) (LB)**									
GRAVEL	1410	(LB)* 1430	2840	600	50	0.4	8	1									
LIMESTONE	1410	1450	2860	600	50	0.4	8	1									
SLAG	1300	1350	2650	600	50	0.4	8	1									
						N ABSORPTI STM C127	ÛN										
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** - ·	MESH	I SHALL	. BE 1	00% VIR	GIN PO	OLYPROPYLEI	NE										
↑↑ FIBER																	
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IN A FIBR		ED-NET	WOR	K FURIVI		SHALL BE 1 1,	/4"										
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847.25) THE WET CURE TIME IS REDUCED FROM 72 RS TO 24 HOURS OR UNTIL A BEAM BREAK OF 600 PSI HIEVED, WHICHEVER IS GREATER. AFTER THE 24 IR WET CURE. THE FINISHED OVERLAY SURFACE SHALL URED BY SPRAYING A UNIFORM APPLICATION OF CURING ERIAL OF 705.07, TYPE 1 OR 1D, AS PER CMS 511.14 HOD (B) MEMBRANE CURING. IF THE CURING COMPOUND NOT BE PLACED WITHIN THE SAME SHORT TERM CLOSURE OD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC O THE OVERLAY, AND SHALL, AT THE NEXT AVAILABLE RT TERM CLOSURE PERIOD, APPLY THE MEMBRANE CURING POUND.

847.25) TRAFFIC WILL NOT BE PERMITTED ON THE HED OVERLAY SURFACE UNTIL AFTER THE COMPLETION HE 24 HOUR WET CURE, AND AFTER TWO TEST BEAMS ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 600 4.2 Mpa).

847.26) THE OVERLAY SURFACE EVAPORATION RATE JIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. ARE NOT IN EFFECT FROM 11:00 PM TO 11:00 AM.

847.27) FOR EACH PHASE, THE CONTRACTOR SHALL IDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT OURS, 24 HOURS, 36 HOURS, AND 48 HOURS. THE ARTMENT WILL PERFORM THE BEAM BREAK TESTS AND UMENT THE TIME OF THE POUR, THE TIME OF THE BEAM AK TESTS, AND THE MODULUS OF RUPTURE FOR EACH BEAM L THE MODULUS OF RUPTURE OF THE TWO TESTS IS NOT THAN 650 PSI (4.5 MPa). TRAFFIC IS ALLOWED ON OVERLAY AT 600 PSI (4.5 Mpa).

THER REQUIREMENTS OF THE SUPPLEMENTAL IFICATION SHALL REMAIN IN EFFECT.

ICTURE IDENTIFICATION SIGNS

CTURE IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

SIGNS WILL BE MOUNTED AT THE CURRENT LOCATION OR LOCATION APPROVED BY THE PROJECT ENGINEER. SIGNS BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING .20, MOST CURRENT REVISION.

ALL SIGNS FOR THE FOLLOWING STRUCTURES: -261D-0.664 -261D-10.237R

FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH ROACH: M 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT M 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 1 EACH

DS RAILROA 7R \mathbf{M} & MRTA \sim 10 Η 9 ш \geq NOTI Ņ M ∞ ER TURE S ∞ >2 Ú Ó 4 STRU(D-0.6(Ū ЮН 61 YA \sim $\overline{\mathbf{O}}$ SUM. TLE C ЦК 20 VARIOUS ESIGN AGENCY ESIGNER CHECKER JF MJA REVIEWER TJP 01-03-25 ROJECT ID 122367 UBSET TOTAL 2 23 FOTAL P.7 28

SUM-261-10.25 MODEL: Sheet PAPERSIZE: 34x22 (in.) D

ΪŢ DATE: 4/1/2025 TIME: 7:38:46 AM USER: -pw-02\Documents\01 Active Projects\Dist

	ESTIMATED QUANTITIES								
	BRIDG	GE NO. / STR	UCTURE F	ILE NO.					
SUM-261D-0.664 7708645 01/NHS/47	SUM-261-10.237R 7708653 01/NHS/47					ITEM	EXTENSION	UNIT	DESCRIPTION
LS	LS					201	11001		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS
4841	4951					202	75001	FT	FENCE REMOVED, AS PER PLAN
6777	5498					512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
6685	5392					512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES
	m		$\gamma\gamma\gamma\gamma$	m	γ	m	\sim	\sim	
10381	10344				· · · · · ·	514	00050	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL
10381	10344	μ		m	ϕ	514	00056	SEL	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT
10381	10344					514	00060	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT
10381	10344					514	00066	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT
3	3					514	10000	EACH	FINAL INSPECTION REPAIR
8	8					514	00504	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL
166	172					516	10010	FT	ARMORLESS PREFORMED JOINT SEAL
100	50					519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN
59	66					519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C
12	12					SPECIAL	53000400	EACH	STRUCTURES: REFURBISHING AND LUBRICATING STEEL HINGES
35	35					SPECIAL	53000500	HOUR	STRUCTURES: SALT REMEDIATION FOR STRUCTURAL STEEL PAINTING
80	100					SPECIAL	53000800	SY	STRUCTURES: CONCRETE SPALL REMOVAL WITH ZINC RICH PRIMER APPLIED
5670	2555					SPECIAL	53000800	SY	STRUCTURES: STRUCTURAL DEBRIS NETTING INSTALLATION
						0.47	40004	0)(
	32					847	10001	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY, AS PER PLAN (T=2 1/4")
						847	20001	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
	LS					847 847	30000		TEST SLAB
	32					847	30201 30401	CY SY	FULL DEPTH REPAIR, AS PER PLAN EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (T=2")
	52					047	30401	51	EXISTING CONCRETE OVERLAT REMOVED, AS PER FLAN (1-2)
	2					847	50000	SY	HAND CHIPPING
2	2					630	80100	SF	SIGN, FLAT SHEET, 730.20
2	2					630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
									ALTERNATES
4841	4951					607	98000	FT	FENCE, MISC.: VANDAL PROTECTION FENCE, 7.50' STRAIGHT, COATED FABRIC (ALTERNATE 1)
4841	4951					607	39900	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC (ALTERNATE 2)
L	1	1		I I		1		1	

CALC:	JF
CHECKED:	MJA

DATE: A DATE:	11/27/2024 11/27/2024 11/27/2024 SEE SHEET 1 / 23 13 / 23 1 / 23 1 / 23 1 / 23 1 / 23 2 / 23 2 / 23 2 / 23 2 / 23 2 / 23		ESTIMATED QUANTITIES SUM-261D-0.664 & SUM-261-10.237R OVER LITTLE CUYAHOGA RIVER & WE&MRTA RAILROADS
	13 / 23		SFN 7708645 SFN 7708653 DESIGN AGENCY
			DESIGNERCHECKERJFMJAREVIEWERTJP01-03-25PROJECT ID122367SUBSETTOTAL323SHEETTOTALP.828