

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN:

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACING. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO CMS 709.00.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE USABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

A QUANTITY OF 400 LBS HAS BEEN CARRIED TO THE ESTIMATED QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW REINFORCING STEEL OF THE SAME SIZE AND COATING AT NO COST TO THE DEPARTMENT.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN:

DESCRIPTION: THIS ITEM SHALL CONSIST OF DRILLING HOLES INTO CONCRETE AND FURNISHING AND PLACING GROUT INTO THE HOLES IN ACCORDANCE WITH CMS 510 AND MODIFIED BY THE FOLLOWING REQUIREMENTS.

MATERIALS: FURNISH AN ADHESIVE ANCHOR SYSTEM THAT MEETS THE REQUIREMENTS OF ACI 355.4-11, SUCH AS DAYTON SUPERIOR CORPORATION PRO-POXY 500, HILTI HIT HY 200, DEWALT PURE 110+, OR APPROVED EQUAL.

PLACING HOLES: PRIOR TO DRILLING DOWEL HOLES, LOCATE ALL EXISTING REINFORCING STEEL WITH AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR.

METHOD OF MEASUREMENT: THE QUANTITY MEASURED WILL BE THE NUMBER OF DOWEL HOLES COMPLETE IN PLACE.

BASIS OF PAYMENT: ACCEPTED QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH DOWEL HOLE COMPLETE IN PLACE. THIS PRICE SHALL INCLUDE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS INCLUDING LOCATING THE EXISTING REINFORCING STEEL, DRILLING DOWEL HOLES, AND INSTALLING AN ADHESIVE ANCHOR SYSTEM. PAYMENT WILL BE MADE UNDER ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):

THE COLOR OF THE FINISH COAT FOR ALL SURFACES SHALL BE FEDERAL COLOR NO. 595B-25630 (LIGHT GREY).

ITEM 514 - FIELD PAINTING OF STRUCTURAL STEEL:

COLOR OF THE FINISH COAT FOR FASCIA BEAMS SHALL BE FEDERAL COLOR NO. 595B-14066 (DARK GREEN, GLOSS).

COLOR OF THE FINISH COAT FOR ALL OTHER STEEL SHALL BE FEDERAL COLOR NO. 595B-14516 (LIGHT GREEN, GLOSS).

INSPECTION OF EXISTING STRUCTURAL STEEL:

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING BUTT-WELDED SPLICES AND/OR TOP FLANGE COVER PLATE FILLET WELDS TO ENSURE THE WELDS, PLATES AND BEAMS OR GIRDERS ARE FREE OF DEFECTS AND CRACKS. IF NECESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEER'S INSPECTION. THE INSPECTION WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO CMS 511.07, BUT IT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:

PRIOR TO THE SURFACE CLEANING SPECIFIED IN CMS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN:

DESCRIPTION: THIS ITEM SHALL CONSIST OF CONSTRUCTING REINFORCED CONCRETE APPROACH SLABS WITH SIDEWALKS AND SIDEWALK EXPANSION JOINT COVER PLATES IN ACCORDANCE WITH THE DETAILS IN THE STRUCTURE PLANS AND ODOT STANDARD DRAWINGS AS-1-15 AND AS-2-15.

MATERIALS: CONCRETE FOR THIS ITEM, INCLUDING APPROACH SLABS AND SIDEWALK SHALL BE ITEM 511 - CLASS QC2 WITH QC/QA. USE THE SAME MIX DESIGN FOR ITEM 526 AS IS USED FOR THE SUPERSTRUCTURE.

FURNISH AND FABRICATE STEEL EXPANSION JOINT COVER PLATES IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF CMS 516.

METHOD OF MEASUREMENT: THE AREA MEASURED WILL BE THE NUMBER OF SQUARE YARDS COMPLETE IN PLACE.

BASIS OF PAYMENT: ACCEPTED QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER SQUARE YARD COMPLETE IN PLACE. THIS PRICE SHALL INCLUDE FULL COMPENSATION FOR ALL CONCRETE APPROACH SLABS AND SIDEWALKS, INCLUDING SEALERS, EPOXY COATED REINFORCING STEEL, PREFORMED EXPANSION JOINT FILLER, EXPANSION JOINT MATERIALS, AND OTHER INCIDENTAL MATERIALS, LABOR AND EQUIPMENT. PAYMENT WILL BE MADE UNDER ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.32 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ITEM SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION:

MINIMUM REQUIRED SURVEY AND VIBRATION:
 AT A MINIMUM, A CONDITION SURVEY SHALL BE COMPLETED FOR ALL EXISTING BUILDINGS, STRUCTURES, AND UTILITIES AS DEPICTED ON SHEET 3 OF 42.

OTHER STRUCTURES WITHIN 300' OF THE EARTH WORK AND 500' FROM THE PILE DRIVING WORK MAY BE PRESENT ON THE PROJECT. THE CONTRACTOR SHALL IDENTIFY, SURVEY, AND MONITOR THOSE IN ADDITION TO THE MINIMUM REQUIRED PROPERTIES.

STRUCTURAL SURVEY:
 BEFORE ROADWAY WORK WITHIN 250' OF IDENTIFIED STRUCTURES OR PILE DRIVING WORK WITHIN 500' OF IDENTIFIED STRUCTURES BEGINS, CONDUCT A CONDITION SURVEY OF ALL EXISTING BUILDINGS, STRUCTURES, AND UTILITIES WITHIN 300-FT OF THE WORK, OR AS IDENTIFIED ON SHEET 3 OF 42. THE PURPOSE OF THE SURVEY IS TO DOCUMENT THE CONDITION OF THE BUILDINGS, STRUCTURES, OR UTILITIES PRIOR TO ROADWAY WORK, SO THAT CLAIMS OF DAMAGE CAUSED BY THE WORK CAN BE VERIFIED.

RETAIN AN EXPERIENCED VIBRATION SPECIALIST TO PERFORM OR SUPERVISE THE CONDITION SURVEY. USE A VIBRATION SPECIALIST THAT MEETS THE QUALIFICATION REQUIREMENTS FOR VIBRATION MONITORING.

RECORD THE CONDITION OF EXISTING STRUCTURES AND BUILDING MATERIALS, USING WRITTEN TEXT, PHOTOGRAPHS, AND VIDEO RECORDINGS. INSPECT INTERIOR WALLS, CEILINGS, AND FLOORS THAT ARE ACCESSIBLE. INSPECT THE EXTERIOR OF THE BUILDING THAT IS VISIBLE FROM GROUND LEVEL. ALSO RECORD THE LOCATION, SIZE, AND TYPE OF ALL CRACKS AND OTHER STRUCTURAL DEFICIENCIES.

IF OWNERS OR OCCUPANTS FAIL TO ALLOW ACCESS TO THE PROPERTY FOR THE PRECONSTRUCTION CONDITION SURVEY, SEND A CERTIFIED LETTER TO THE OWNER OR OCCUPANT. DOCUMENT THE NOTIFICATION EFFORT AND THE CERTIFIED LETTER IN THE REPORT.

SUBMIT THREE COPIES OF A STRUCTURAL SURVEY REPORT TO THE ENGINEER THAT SUMMARIZES THE PRECONSTRUCTION CONDITION OF THE BUILDINGS, STRUCTURES, AND UTILITIES, AND THAT IDENTIFIES AREAS OF CONCERN.

VIBRATION MONITORING:
 MONITOR GROUND VIBRATIONS CAUSED BY ROADWAY WORK WITHIN 250' OF IDENTIFIED STRUCTURES AND PILE DRIVING WORK WITHIN 500' OF IDENTIFIED STRUCTURES TO MINIMIZE THE POTENTIAL DAMAGE TO EXISTING STRUCTURES.

RETAIN AN EXPERIENCED VIBRATION SPECIALIST TO ESTABLISH THE ACCEPTABLE VIBRATION LIMITS AND TO PERFORM THE VIBRATION MONITORING. USE A VIBRATION SPECIALIST THAT IS AN EXPERT IN THE INTERPRETATION OF VIBRATION DATA, AND WHO MEETS ONE OF THE FOLLOWING CRITERIA: 1) IS A REGISTERED ENGINEER WITH AT LEAST TWO YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS, OR 2) HAS AT LEAST FIVE YEARS OF PROVEN EXPERIENCE IN MONITORING VIBRATIONS ON SIMILAR CONSTRUCTION PROJECTS. DO NOT USE A VIBRATION SPECIALIST THAT IS AN EMPLOYEE OF THE CONTRACTOR.

SUBMIT A RESUME OF THE CREDENTIALS OF THE PROPOSED VIBRATION SPECIALIST AT OR BEFORE THE PRECONSTRUCTION MEETING. INCLUDE IN THE RESUME A LIST OF CONSTRUCTION PROJECTS ON WHICH THE VIBRATION SPECIALIST WAS RESPONSIBLY IN CHARGE OF MONITORING THE VIBRATIONS. LIST A DESCRIPTION OF THE PROJECTS, WITH DETAILS OF THE VIBRATION INTERPRETATIONS MADE ON THE PROJECT. LIST THE NAMES AND TELEPHONE NUMBERS OF PROJECT OWNERS WITH SUFFICIENT KNOWLEDGE OF THE PROJECTS TO VERIFY THE SUBMITTED INFORMATION. OBTAIN THE ENGINEER'S ACCEPTANCE OF THE VIBRATION SPECIALIST BEFORE BEGINNING ANY ROADWAY WORK NEAR EXISTING STRUCTURES. ALLOW 30 DAYS FOR THE REVIEW OF THIS DOCUMENTATION.

USE SEISMOGRAPHS CAPABLE OF CONTINUOUSLY RECORDING THE PEAK PARTICLE VELOCITY FOR THREE MUTUALLY PERPENDICULAR COMPONENTS OF VIBRATION, AND OF PROVIDING A PERMANENT RECORD OF THE ENTIRE VIBRATION EVENT. USE A SUFFICIENT NUMBER OF SEISMOGRAPHS TO PROVIDE REDUNDANCY IN CASE ONE DEVICE SHOULD FAIL. SUBMIT A PLAN OF THE PROPOSED SEISMOGRAPH LOCATIONS TO THE ENGINEER FOR REVIEW.

THE VIBRATION SPECIALIST SHALL PERFORM THE FOLLOWING:

1. MEASURE THE AMBIENT GROUND VIBRATIONS NEAR EXISTING STRUCTURES BEFORE ROADWAY WORK BEGINS WITHIN THE SPECIFIED DISTANCE.
2. ESTABLISH VIBRATION LIMITS TO MINIMIZE POTENTIAL DAMAGE TO EXISTING STRUCTURES AND EXPLAIN WHY THEY ARE BEING USED TO THE ENGINEER BEFORE ROADWAY WORK NEAR EXISTING STRUCTURES.
3. MONITOR GROUND VIBRATIONS DURING ROADWAY WORK WITHIN THE SPECIFIED DISTANCE.
4. IMMEDIATELY INFORM THE CONTRACTOR AND ENGINEER IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED.
5. FURNISH THE DATA RECORDED AND INCLUDE THE FOLLOWING:
 - A. IDENTIFICATION OF SEISMOGRAPH.
 - B. DISTANCE AND DIRECTION OF SEISMOGRAPH FROM ROADWAY WORK.
 - C. START TIME AND DURATION OF ROADWAY WORK.
 - D. DESCRIPTION OF ROADWAY WORK PERFORMED DURING EACH MONITORING INTERVAL.

IMMEDIATELY SUSPEND ALL ROADWAY WORK WITHIN THE SPECIFIED DISTANCE IF THE VIBRATION LIMITS ARE REACHED OR EXCEEDED. EVALUATE ALTERNATIVE CONSTRUCTION PROCEDURES TO REDUCE THE VIBRATIONS. SUBMIT THREE COPIES OF THE FINAL REPORT WHICH CONTAINS ALL MEASUREMENTS, INTERPRETATIONS, AND RECOMMENDATIONS TO THE ENGINEER.

BASIS OF PAYMENT:
 THE DEPARTMENT WILL PAY FOR THIS ITEM AT THE CONTRACT LUMP SUM PRICE FOR SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION. THE DEPARTMENT WILL PAY THE INITIAL 20% AFTER THE ENGINEER RECEIVES ALL STRUCTURAL SURVEY REPORTS. THE DEPARTMENT WILL PAY THE FINAL 20% AFTER THE ENGINEER RECEIVES THE FINAL VIBRATION MONITORING REPORT. THE DEPARTMENT WILL PAY ACCORDING TO CMS 109.05 FOR ALTERNATIVE CONSTRUCTION PROCEDURES THAT THE ENGINEER DETERMINES ARE NECESSARY TO REDUCE VIBRATIONS.

GENERAL NOTES - 2
 BRIDGE NO. CUY-CR187-00.977
 MILLER ROAD OVER I.R. 77

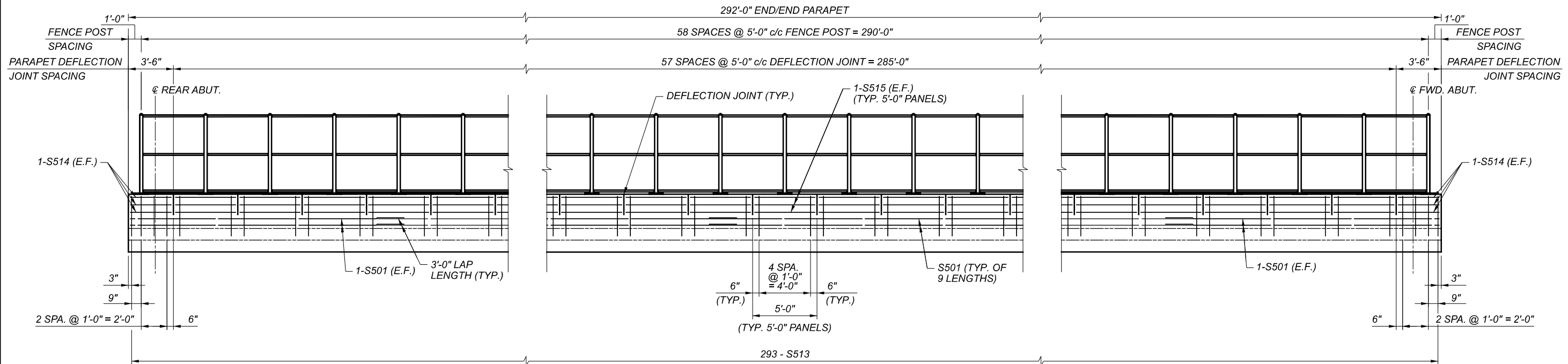
SFN	1805673
DESIGN AGENCY	EUTHENICS 833 Mohawk Dr. Cleveland, OH 44138
DESIGNER	OOS
CHECKER	BPS
REVIEWER	LAB
DATE	02/24/22
PROJECT ID	104983
SUBSET	5
TOTAL	42
SHEET	P.339
TOTAL	P.445

FUNDING		ESTIMATED QUANTITIES					CALC. BY: SRW CHKD. BY: BPS				DATE: 02/21/22 DATE: 02/28/22	
02/NFP/BR	07/IMS/BR	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	REAR ABUTMENT	FOWARD ABUTMENT	PIERS	SUPER-STRUCTURE	GENERAL	REF. SHEET NUMBER
	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	4
	178	202	22900	178	SY	APPROACH SLAB REMOVED					178	
	LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					LS	4
	255	503	21100	255	CY	UNCLASSIFIED EXCAVATION	53	53	149			
	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS	
	3200	507	00100	3200	FT	STEEL PILES HP10X42, FURNISHED	560	600	2040			
	2940	507	00150	2940	FT	STEEL PILES HP10X42, DRIVEN	520	560	1860			
	148,598	509	10001	148,598	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	2845	2692	23,180	119,881		5 & 16
	400	509	20001	400*	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN					400	5
	780	510	10001	780	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	29	27		724		5
	2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	1	1				
	497	511	34446	497	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK				497		
	58	511	34450	58	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)				58		
	76	511	41012	76	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS			76			
	82	511	43512	82	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	41	41				
	77	511	46512	77	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING			77			
	529	512	10050	529	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				529		
	1383	512	10100	1383	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	40	40	638	665		
	8	512	33000	8	SY	TYPE 2 WATERPROOFING	4	4				
	261,000	513	10240	261,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2				261,000		
	20,280	514	00050	20,280	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				20,280		
	20,280	514	00056	20,280	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				20,280		
	32,330	514	00060	32,330	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				32,330		
	32,330	514	00066	32,330	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				32,330		
	34	514	00504	34	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				34		
	16	514	10000	16	EACH	FINAL INSPECTION REPAIR				16		
	163	516	10010	163	FT	ARMORLESS PREFORMED JOINT SEAL					163	
	81	516	13400	81	SF	3/4" PREFORMED EXPANSION JOINT FILLER			81			
	59	516	13900	59	SF	2" PREFORMED EXPANSION JOINT FILLER				59		
	68	516	14020	68	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	34	34				
	8	516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 13" x 17" x 1.50", NEOPRENE 12" x 16" x 3.55")	4	4				24
	8	516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 16" x 19" x 1.50", NEOPRENE 15" x 18" x 3.00")			8			25
	4	516	44201	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 16" x 27" x 1.50", NEOPRENE 15" x 18" x 3.00")			4			25
	46	518	21200	46	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	23	23				
	88	518	40000	88	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	44	44				
	24	518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	12	12				
	17	519	11101	17 *	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	4	3	10			5
	352	526	15001	352	SY	REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN					352	5
	163	526	90030	163	FT	TYPE C INSTALLATION					163	
	LS	SPECIAL	53014000	LS		STRUCTURAL SURVEY AND MONITORING OF VIBRATION					LS	5
	270	601	21100	270	SY	SLOPE PROTECTION, MISC.: GROUT FILLED FABRIC MATS	135	135				6
	584	607	39900	584	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				584		
	864	607	39994	864	FT	TEMPORARY VANDAL FENCE, TYPE B				664	200	
LS		607	98200	LS		FENCE, MISC.: ALUMINUM LETTERING					LS	37
	931	847	10000	931	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY				931		
	4	847	20000	4	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				4		
	LS	847	30000	LS		TEST SLAB				LS		
	2	847	30200	2	CY	FULL DEPTH REPAIR				2		
	56	847	50000	56	SY	HAND CHIPPING				56		

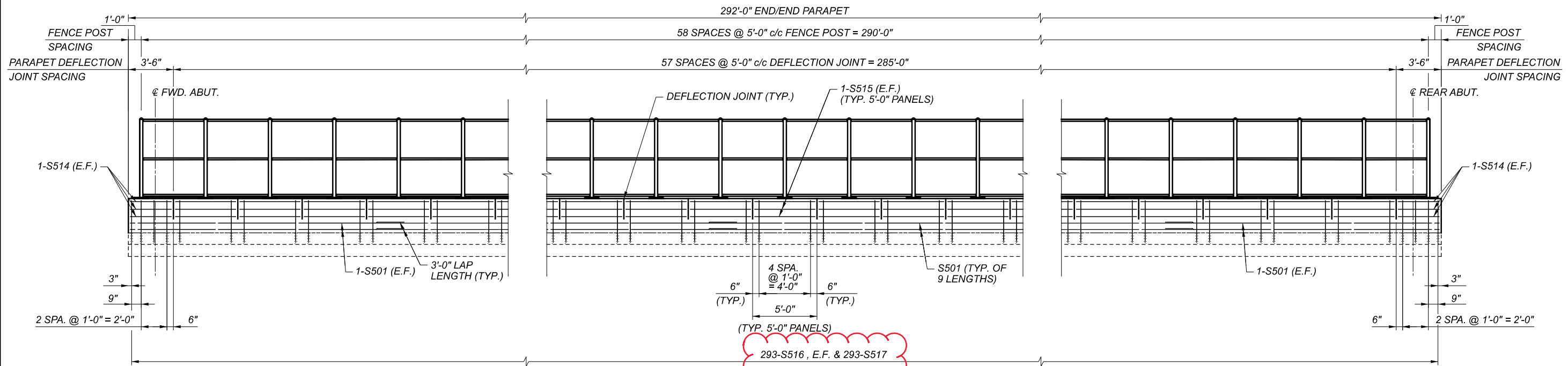
* DENOTES QUANTITY TO BE USED "AS DIRECTED BY THE ENGINEER"

ESTIMATED QUANTITIES
 BRIDGE NO. CUY-CR187-00.977
 MILLER ROAD OVER I.R. 77

SFN	1805673
DESIGNER	EUTHENICS
CHECKER	BPS
REVIEWER	SRW
LAB	02/24/22
PROJECT ID	104983
SUBSET	8
TOTAL	42
SHEET	P.342
TOTAL	P.445



LEFT PARAPET ELEVATION



RIGHT PARAPET ELEVATION

NOTES

1. FENCE ON SIDEWALK PARAPETS SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING VPF-1-90, 6'-0" TALL, POST TYPE PS-4 WITH BP-1 BASE PLATES AND COATED FABRIC, COLOR BLACK.
2. FOR ADDITIONAL PARAPET DETAILS, SEE ODOT STANDARD DRAWING BR-2-15 AND THE DETAILS ON SHEET 35/42.
3. FOR AESTHETIC DETAILS, SEE SHEET 37/42.

SFN	1805673
DESIGN AGENCY	EUTHENICS 6333 Mohawk Dr. Cleveland, OH 44130
DESIGNER/CHECKER	OOS BPS
REVIEWER	LAB 02/24/22
PROJECT ID	104983
SUBSET	36
TOTAL	42
SHEET	P.370
TOTAL	P.445

