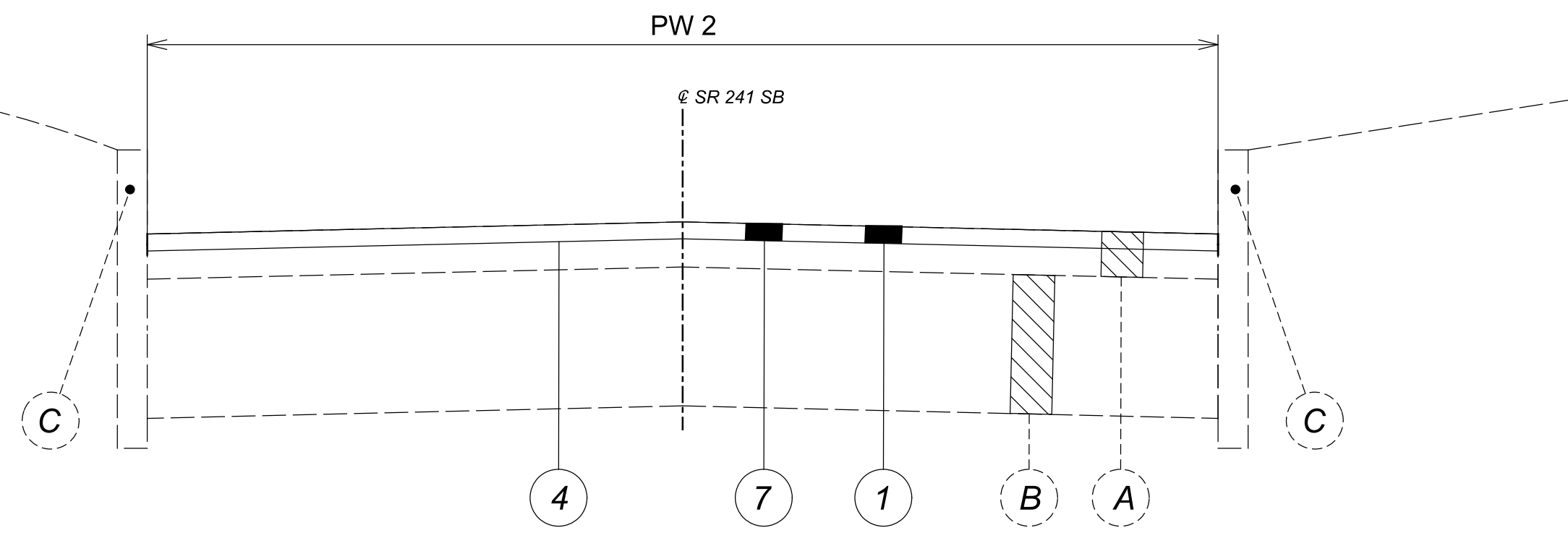
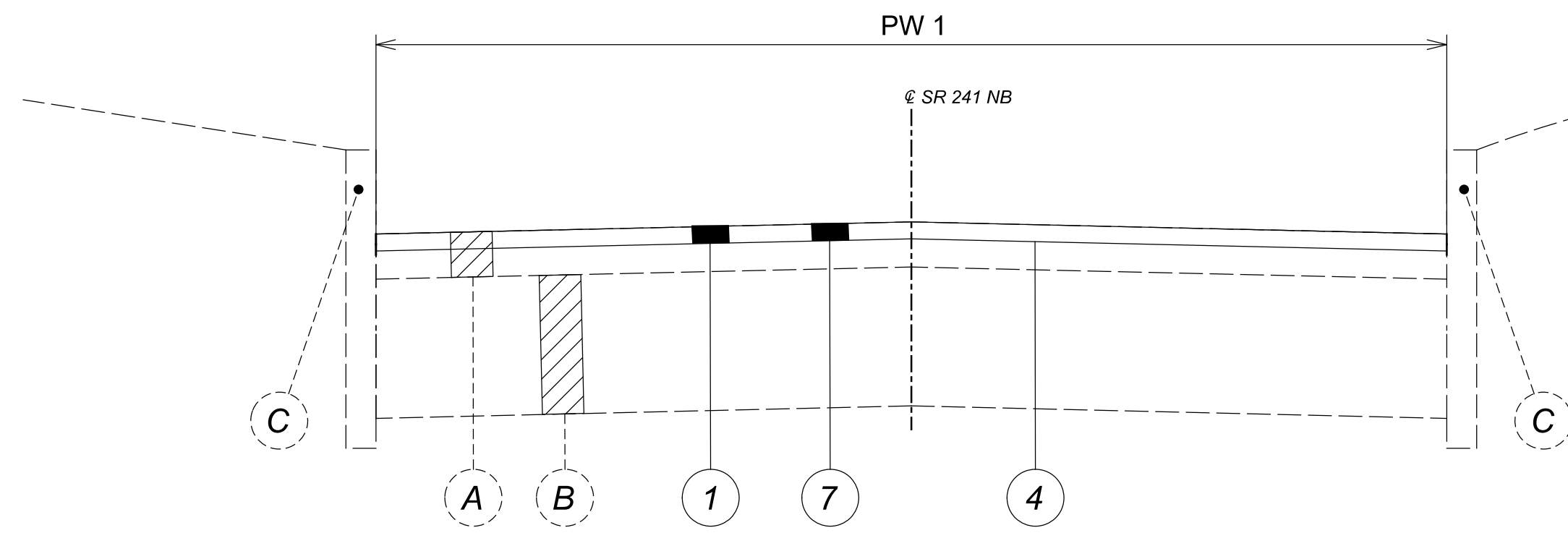


ROUTE	SLM		LENGTH (MILES)	PW 1 (FEET)	PW 2 (FEET)
	FROM	TO			
SR 241	8.53	9.20	0.67	24	24
SR 241	9.20	9.51	0.31	28	28
SR 241	9.79	10.03	0.24	28	38
SR 241	10.09	10.38	0.29	28	28
SR 241	10.38	10.41	0.03	28	46
SR 764	3.89	4.16	0.27	28	29



ROUTE	SLM		LENGTH (MILES)	PW 1 (FEET)	PW 2 (FEET)
	FROM	TO			
SR 241	8.46	8.53	0.07	24	24

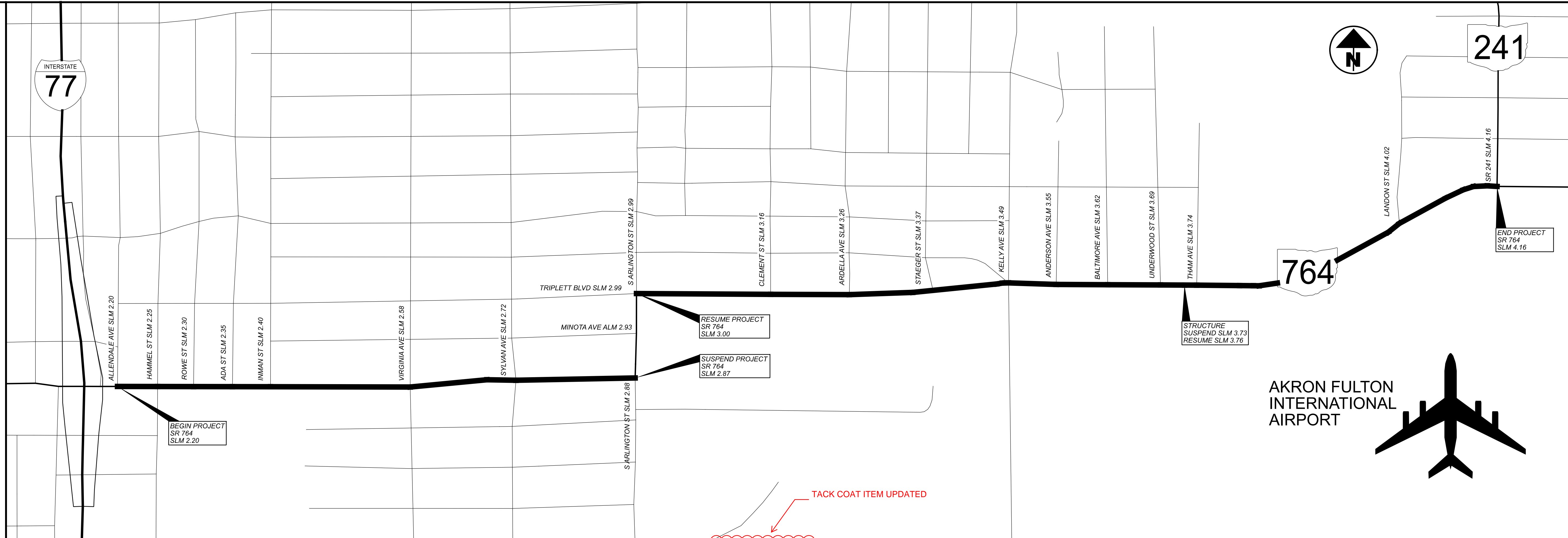
- 1 ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=1.25")
- 2 ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T=2")
- 3 ITEM 407, TACK COAT, 702.13 @ 0.05 GAL/SY
- 4 ITEM 407, TACK COAT, 702.13 @ 0.08 GAL/SY
- 5 ITEM 408, PRIME COAT, AS PER PLAN @ 0.4 GAL/SY

TACK COAT ITEM UPDATED

- 6 ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN (T=1")*
- 7 ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN (T=1.25")*
- 8 ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) (T=1")
- 9 ITEM 617, COMPACTED AGGREGATE, AS PER PLAN (T=2")
- 10 SAFETY EDGE, PER SCD BP-3.2

- A EXISTING ASPHALT PAVEMENT (VARIES FROM 3" TO 6")
- B EXISTING 4" BRICK PAVEMENT
- C EXISTING CURB

*TRUCK ADT < 1500



SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	254		407		408	424	424	441	617										
							PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, (T=1.25")	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, (T=2")	TACK COAT, 702.13 @ 0.05 GAL/SY	TACK COAT, 702.13 @ 0.08 GAL/SY															
			FT	FT	SY	SY	SY	SY	GAL	GAL	GAL	CY	CY	CY	CY										
SR 764																									
2.18	TO	2.25	5	L/R	369.60	48.00	1971.20		1971.20	98.56	157.70		54.76		54.76										
2.25	TO	2.87	5	L/R	3273.60	44.00	16004.27		16004.27	800.21	1280.34		444.56		444.56										
3.00	TO	3.47	5	L/R	2481.60	44.00	12132.27		12132.27	606.61	970.58		337.01		337.01										
3.47	TO	3.73	5	L/R	1372.80	42.00	6406.40		6406.40	320.32	512.51		177.96		177.96										
3.76	TO	3.88	5	L/R	633.60	48.00	3379.20		3379.20	168.96	270.34		93.87		93.87										
3.88	TO	3.89	5	L/R	52.80	80.00	469.33		469.33	23.47	37.55		13.04		13.04										
3.89	TO	4.16	1	L/R	1425.60	57.00	9028.80		9028.80	451.44	722.30		250.80		250.80										
INTERSECTIONS																									
2.18	TO	2.87					453.18		453.18	22.66	36.25		12.59		12.59										
3.00	TO	4.16					1291.29		1291.29	64.56	103.30		35.87		35.87										
TURNAROUNDS																									
3.00	TO	4.16					293.87		293.87	14.69	23.51		8.16		8.16										
SUBTOTALS							0.00	0.00	51429.81	2571.49	4114.38	0.00	1428.61	0.00	1428.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS CARRIED TO GENERAL SUMMARY							0	0	51430	2572	4115	0	1429	0	1429	0	0	0	0	0	0	0	0	0	0

PAVEMENT CALCULATIONS SR 764

DESIGN AGENCY

DESIGNER
CMW

REVIEWER
MJA 2-18-22

PROJECT ID
102737

SHEET TOTAL
P.19 | 24

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

"CORRECTING BRIDGE IDENTIFICATION SIGN NUMBER", "OBJECT MARKERS AND STRUCTURE/CULVERT IDENTIFICATION SIGNS", "ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN", "ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN NOTE" REMOVED

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

DS-1-92 DATED (REVISED) 7/19/03

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED 1/15/16

EXISTING STRUCTURE VERIFICATION

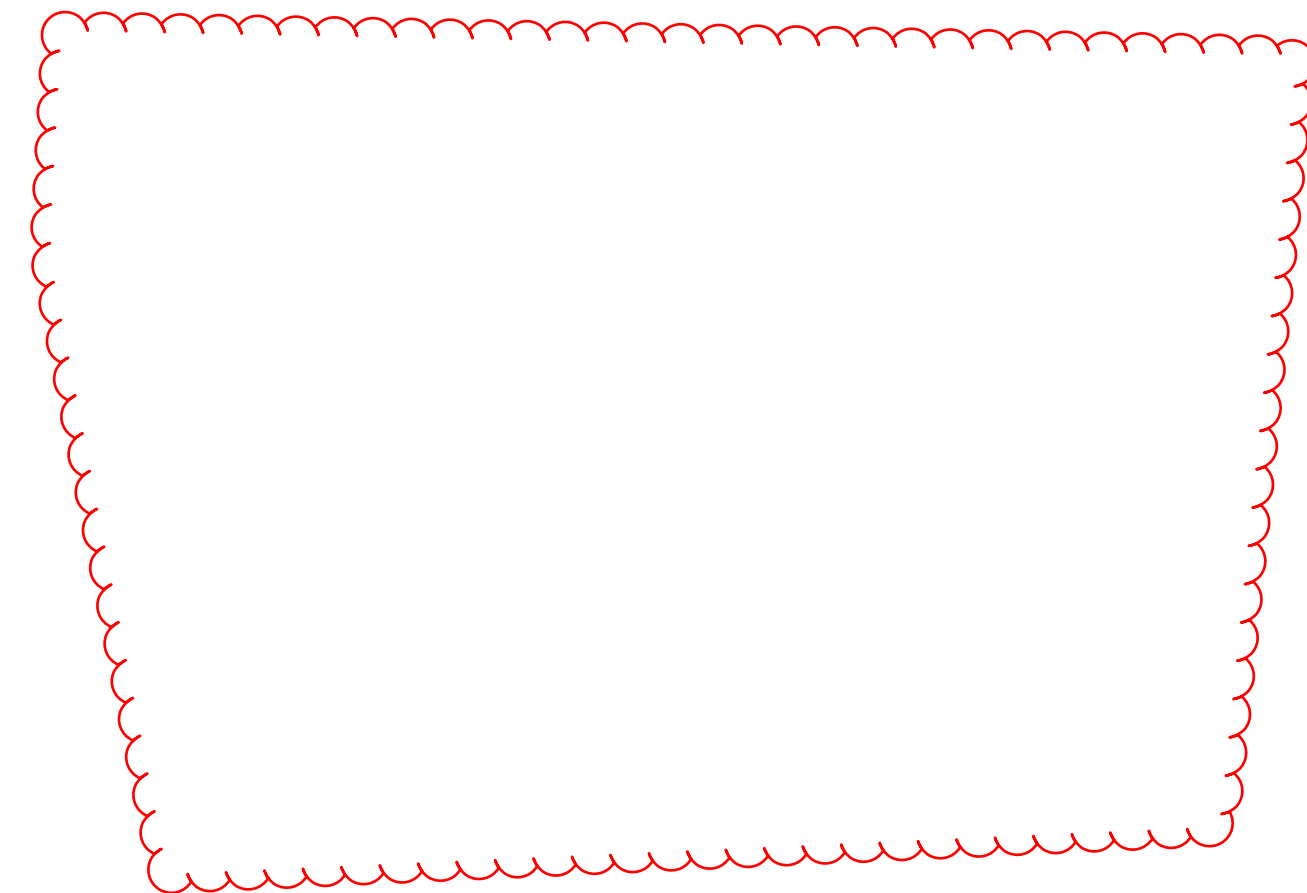
EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK

SUM-764-0375 (OVER METRO RTA RR)

- INSPECT AND SOUND THE CONCRETE SUBSTRUCTURE AND PARAPETS
- REMOVE ALL SPALLS ON THE DECK UNDERSIDE, INCORPORATE COMPOSITE FIBER WRAP ON REPAIRED SPALLS OVER RAIL TRAFFIC
- REMOVE AND REPLACE THE ELASTOMERIC COMPRESSION SEALS
- REPAIR STEEL BEAMS AND CROSS FRAMES
- PAINT STRUCTURAL STEEL AND BEARINGS WITH OZEU PAINT SYSTEM
- SEAL ABUTMENTS, PIERS, WINGWALLS, PARAPETS, AND SIDEWALKS WITH EPOXY URETHANE
- REPLACE TYPE A ANCHOR ASSEMBLY
- CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS



ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

SPECIAL - STRUCTURES: CONCRETE SPALL REMOVAL

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF STRUCTURE SUM-764-0375 WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

SPEC, STRUCTURES: CONCRETE SPALL REMOVAL, 20 SQ YD
 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 20 SQ YD

ITEM 513 - STRUCTURAL STEEL, MISC.: REPLACEMENT OF DAMAGED CROSSFRAMES

THIS WORK CONSISTS OF REPLACING DAMAGED CROSSFRAMES THAT ARE BENT OF HAVE SECTION LOSS. THIS ITEM WILL INCLUDE SUPPLYING NEW CROSSFRAMES AND WELDING THEM BACK TO THE ORIGINAL POSITIONS OF THE CROSSFRAMES THAT ARE BEING REPLACED. AFTER REMOVAL, ALL WELDS WILL BE GROUND SMOOTH IN PREPARATION OF WELDING THE NEW CROSSFRAMES IN PLACE. ALL CROSSFRAMES TO BE REPLACED WILL BE FIELD MEASURED TO VERIFY SIZE AND LENGTHS PRIOR TO ORDERING MATERIAL. THE NEW CROSSFRAMES WILL BE WELDED TO THE GIRDERS OR BEAMS ON BOTH SIDES OF THE VERTICAL LEG AND ON THE TOP SIDE OF THE HORIZONTAL LEG. THE ANGLE WILL BE WELDED USING A 1/4" CONTINUOUS FILLET WELD. STEEL MEMBERS TO BE FABRICATED UNDER THIS ITEM WILL NOT REQUIRE SHOP DRAWINGS PRIOR TO FABRICATION. AISC CERTIFICATION IS NOT REQUIRED. THE CONTRACTOR WILL TAKE THE NECESSARY FIELD MEASUREMENTS TO VERIFY MEASUREMENTS BEFORE ORDERING MATERIALS. THE ENGINEER WILL HAVE THE AUTHORITY AND THE RESPONSIBILITY FOR ENSURING THAT THE STEEL IS ACCEPTABLE. AFTER FABRICATION THE PAY WEIGHTS SHALL BE COMPUTED IN COMPLIANCE WITH ITEM 513 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM EXCEPT FOR PAINT WILL BE INCLUDED FOR PAYMENT UNDER ITEM 513 - STRUCTURAL STEEL MISC.: REPLACEMENT OF DAMAGED CROSSFRAMES.

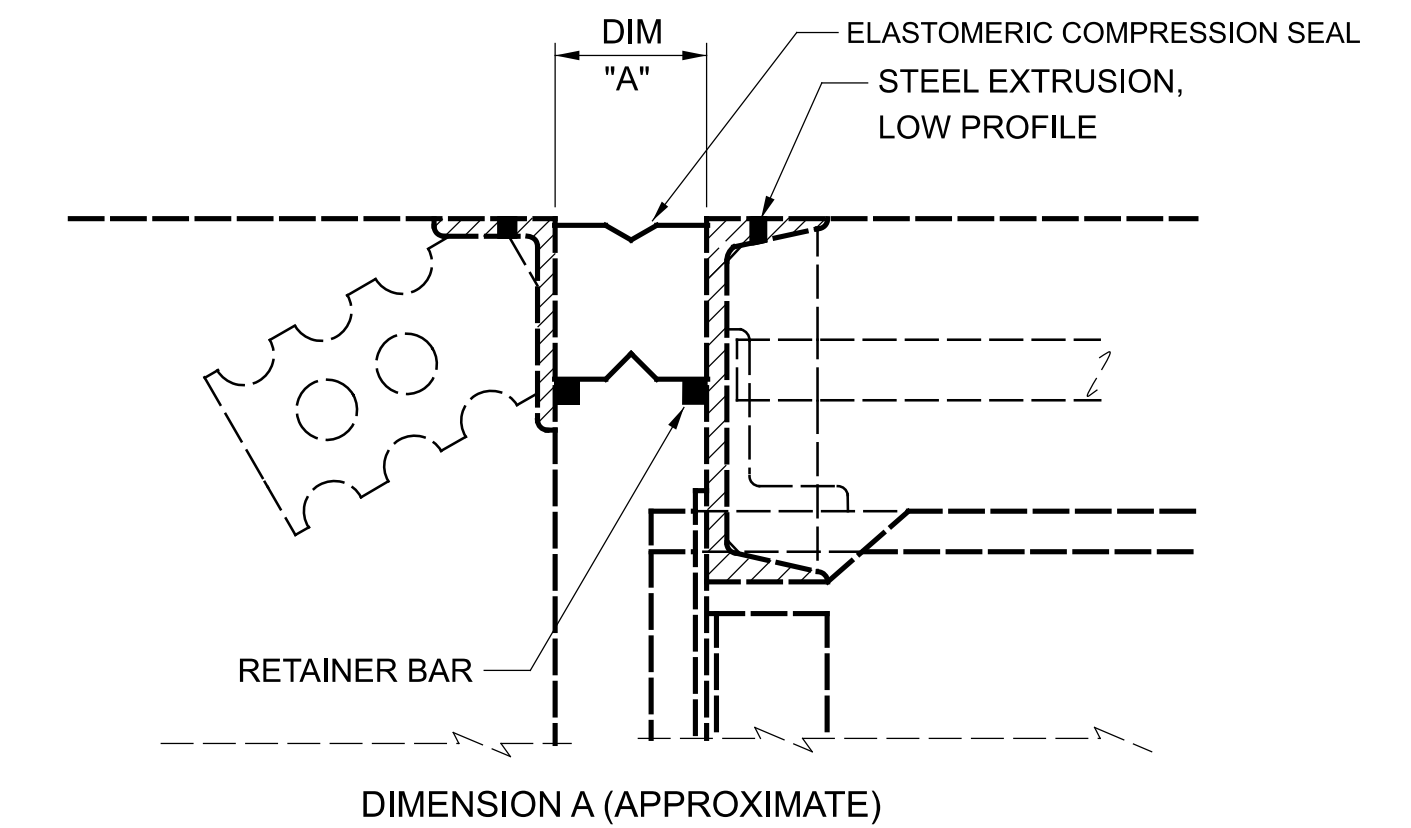
ITEM 514 - PAINTING OF STRUCTURAL STEEL

THE COLOR FOR THE FINISHED COAT OF STRUCTURE SUM-764-0375 WILL CONFORM TO FEDERAL COLOR NUMBER 10324 (BROWN).

ITEM 516 - ELASTOMERIC COMPRESSION SEAL, AS PER PLAN

THIS ITEM WILL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING SEALS FROM EDGE OF STRUCTURE SUM-764-0375 DECK. UPON REMOVAL OF THE SEAL, THE CONTRACTOR WILL ATTEMPT TO MATCH THE REPLACEMENT SEAL AS CLOSELY AS POSSIBLE WITH THE EXISTING SEAL SO AS TO PROVIDE A SNUG, WATERTIGHT SEAL. THE EXISTING SEAL WILL BE FIELD MEASURE PRIOR TO ORDERING MATERIAL.

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516, ELASTOMERIC COMPRESSION SEAL, AS PER PLAN. THIS PRICE WILL INCLUDE THE REMOVAL OF THE EXISTING SEAL, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO REPLACE THE SEAL.



DIMENSION A (APPROXIMATE)

TEMPERATURE, °F	SUM-764-0375
90°	3 3/8"
80°	3 7/16"
70°	3 1/2"
60°	3 5/16"
50°	3 5/8"
40°	3 9/8"
30°	3 1 1/16"

BRIDGE GENERAL NOTES
 SUM-764-03.75
 OVER METRO RTA RR

DESIGN AGENCY



DESIGNER
 CMW

REVIEWER
 MJA 2-18-22

PROJECT ID
 102737

SUBSET	TOTAL
1	4

SHEET	TOTAL
P.21	24

CALC: CMW DATE: 12/28/2021
 CHECKED: MJA DATE: 2/18/2022

ESTIMATED QUANTITIES

BRIDGE NO. / STRUCTURE FILE NO.							ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
SUM-764-0375	7711225	05/S>2/BR									
LS						201	11001		CLEARING AND GRUBBING, AS PER PLAN		1/4
1						202	42000	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A		
662						512	10050	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)		
662						512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		
720						513	90000	LB	STRUCTURAL STEEL, MISC.: REPLACEMENT OF DAMAGED CROSSFRAMES		
100						513	90000	LB	STRUCTURAL STEEL, MISC.: STEEL BEAM REPAIRS		
LS						514	00200		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
LS						514	00300		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
LS						514	00400		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
14						514	00504	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
6						514	10000	EACH	FINAL INSPECTION REPAIR		
LS						514	00100		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
72						516	10901	FT	ELASTOMERIC COMPRESSION SEAL, AS PER PLAN		1/4
450									PATCHING CONCRETE STRUCTURE, AS PER PLAN		1/4
1						606	26150	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016		2/4
20						SPECIAL	53000500	hour	STRUCTURES, SALT REMEDIATION FOR STRUCTURE STEEL PAINTING		2/4
150						SPECIAL	51900100	SF	COMPOSITE FIBER WRAP SYSTEM		
20						SPECIAL	53000800	SY	STRUCTURES, CONCRETE SPALL REMOVAL		
<p>REMOVED ITEMS</p> <p>516E47001, 516E45305, 630E80100, 630E84900, 630E02100, 630E86002</p>											

