

CUY-480-21.30WB

MODEL: Sheet2 PAPER: 17x11 (in.) DATE: 4/20/2021 TIME: 8:54:54 AM USER: mhay pvc:\patt\paw\benley.com\patt\koc-pw-07\Documents\DOT_CE\107657400-Engineering\Roadway\Sheets\107657_GC001.dgn


Table with columns: SHEET NUM., PART., ITEM, ITEM EXT, GRAND TOTAL, UNIT, DESCRIPTION, SEE SHEET NO. Includes rows for Pavement, Traffic Control, and Structure Repair.

GENERAL SUMMARY table with columns: SHEET, TOTAL, values: 20, 98

Design Agency: PATRICK ENGINEERING. Designer: MAH. Reviewer: WAA 1-11-21. Project ID: 107657. Sheet: 20, Total: 98.

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	302	304	407	407	442	442	442	442	442						
							SUBGRADE COMPACTION	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448)	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448)						
			FT	FT	SY	SY	SY	CY	CY	GAL	GAL	CY	CY	CY	CY	CY						
MAINLINE CUY-480										full		full	planning		full						variable depth	
1145+26.31 TO 1153+06.92			780.61	69.06		5989.75					838.57		249.57									
			780.61	34.49		2991.48									83.10							
			780.61	34.57		2998.32															122.43	
SFN 1813374																						
MAINLINE CUY-480																						
1158+11.46 TO 1160+70.39			258.93	71.65		2061.51					288.61		85.90									
			258.93	64.56		1857.33									51.59							
			258.93	7.10		204.17															8.34	
			258.93	4.59		132.02				43.57		5.50		11.00								
			258.93	5.59		160.79		44.66														
			258.93	6.09		175.18	175.18		29.20													
SFN 1813382																						
MAINLINE CUY-480 (INCLUDES RAMP OBS-E-B)																						
1162+52.96 TO 1188+05.08			2552.12	57.60		16332.34					2286.53		680.51									
			2552.12	43.17		12240.93									340.03						166.98	
			2552.12	14.42		4089.22																
			2552.12	14.81		4200.36				1386.12		175.01		350.03								
			2552.12	10.39		2946.76		818.55														
			2552.12	10.83		3070.65	3070.65		511.78													
RAMP B-OBS																						
12+21.64 TO 16+54.88			433.24	14.84		714.23					99.99		29.76								19.84	
			433.24	9.98		480.44				158.54		20.02		40.04								
			433.24	8.22		395.87		109.97														
			433.24	8.72		419.79	419.79		69.96													
SUBTOTALS							3665.62	973.18	610.94	1588.23	3513.70		200.53	1045.74		401.07		494.56		297.75		
TOTALS CARRIED TO GENERAL SUMMARY							3666	974	611	5102			1246		402		792					

PAVEMENT SUBSUMMARY

DESIGN AGENCY

 DESIGNER: MAH
 REVIEWER: WAA 01-11-21
 PROJECT ID: 107657
 SHEET: 22 TOTAL: 98

CALC: RY DATE: 1/24/2021
 CHECKED: RAP DATE: 1/25/2021

ESTIMATED QUANTITIES (SFN 1813374)

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	1/19
509	10000	31920	LB	EPOXY COATED REINFORCING STEEL	1579		30341		
509	20001	200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				200	1/19
510	10000	2567	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT (EPOXY)			2567		
511	34410	18	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			18		
511	34448	138	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			138		
511	44110	25	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	13				
512	10100	839	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			839		
513	21501	3528	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN			3528		1/19
516	11211	160	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	160				1/19, 9/19
625	29941	2	EACH	BARRIER JUNCTION BOX, AS PER PLAN				2	1/19
848	10200	3891	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION: 1/2 INCHES			3891		
848	20000	3891	SY	SURFACE PREPARATION USING HYDRODEMOLITION			3891		
848	30201	357	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			357		1/19, 4/19
848	50000	394	SY	HAND CHIPPING			394		
848	50320	3944	SY	EXISTING CONCRETE OVERLAY REMOVED: 2.5 INCHES			3944		

CALC: RY DATE: 1/24/2021
 CHECKED: RAP DATE: 1/25/2021

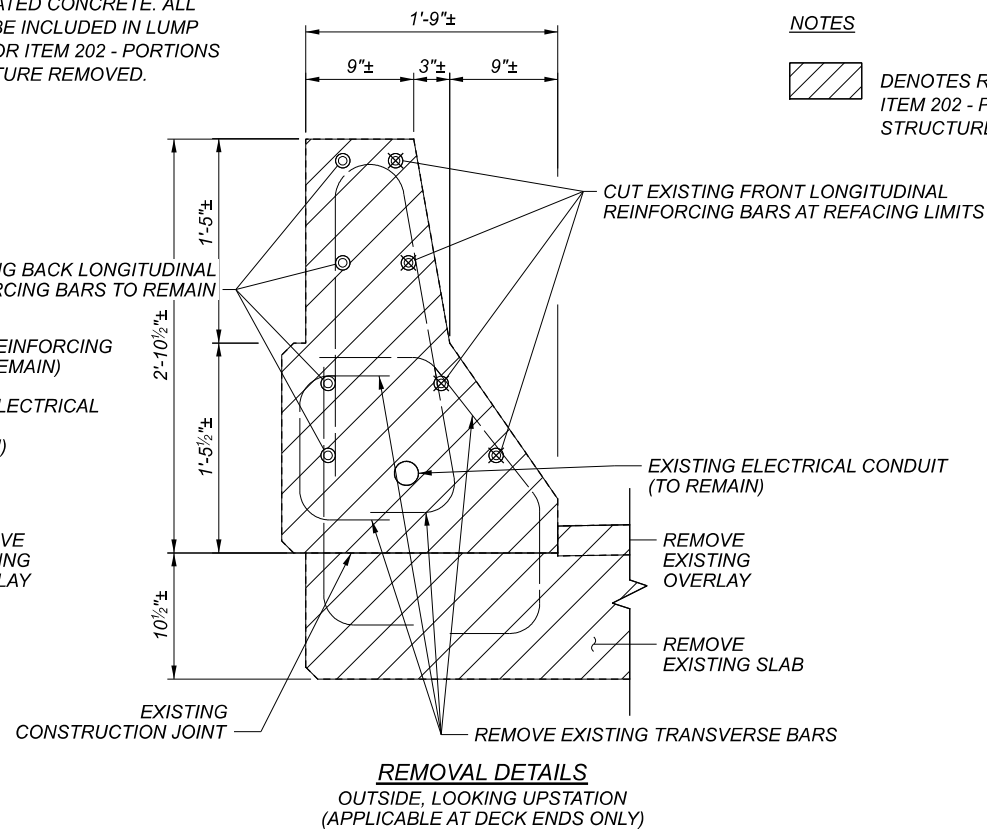
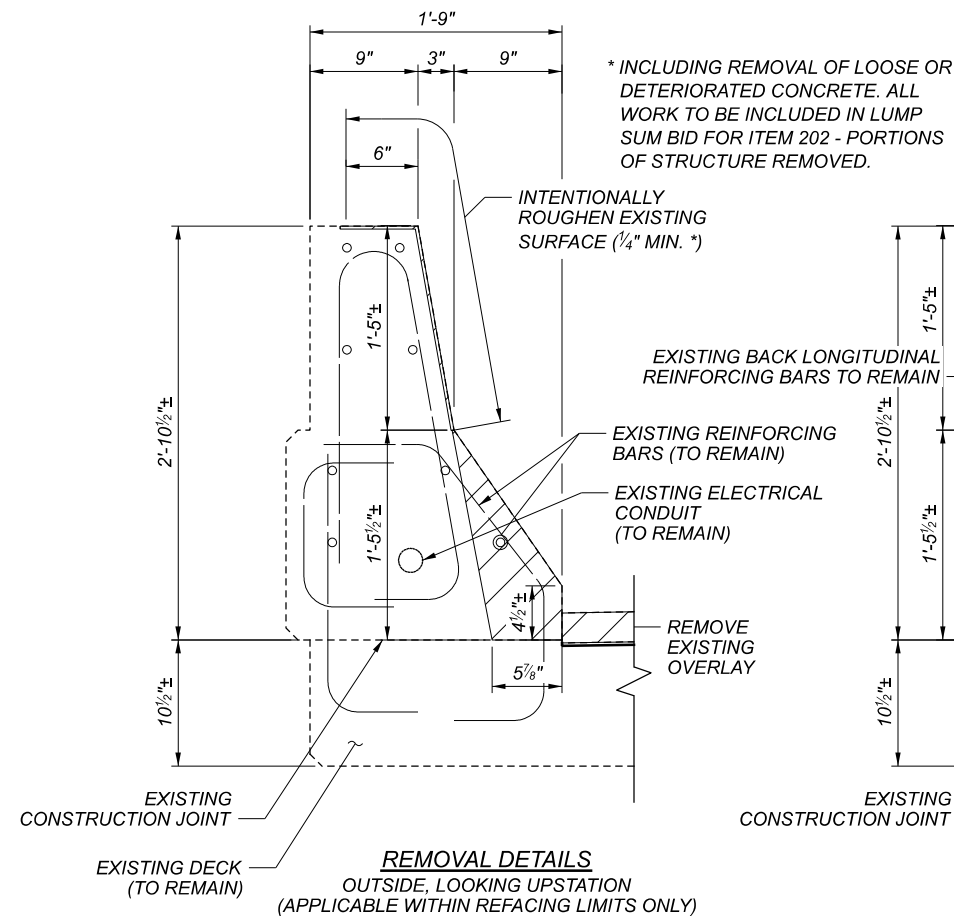
ESTIMATED QUANTITIES (SFN 1813382)


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202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	1/19
509	10000	14006	LB	EPOXY COATED REINFORCING STEEL	2093		11913		
509	20001	200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				200	1/19
510	10000	990	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT (EPOXY)			990		
511	34410	22	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			22		
511	34448	52	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			52		
511	44110	31	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	17				
512	10100	311	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			311		
513	21501	4410	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN			4410		1/19
516	11211	200	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	200				1/19, 17/19
625	29941	3	EACH	BARRIER JUNCTION BOX, AS PER PLAN				3	1/19
848	10200	1686	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION: 1/2 INCHES			1686		
848	20000	1686	SY	SURFACE PREPARATION USING HYDRODEMOLITION			1686		
848	30201	166	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN			166		1/19, 13/19
848	50000	175	SY	HAND CHIPPING			175		
848	50320	1753	SY	EXISTING CONCRETE OVERLAY REMOVED: 2.5 INCHES			1753		

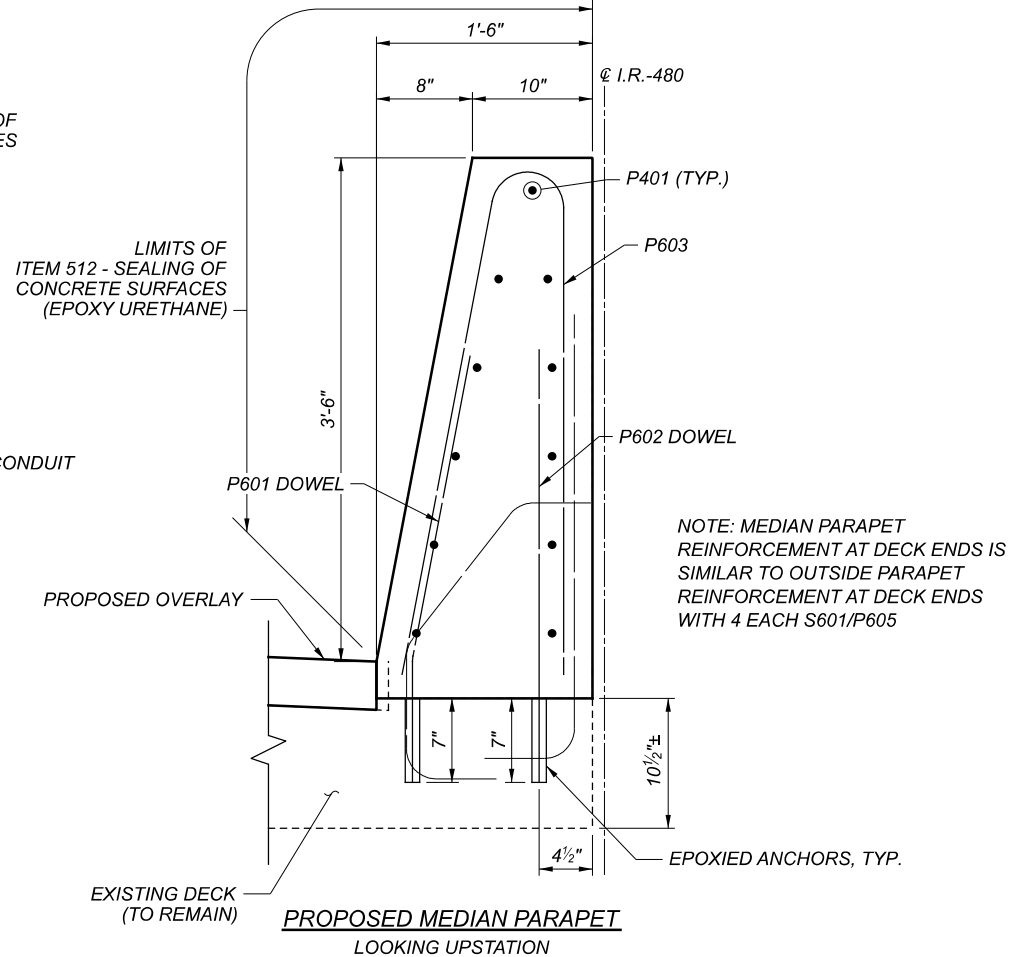
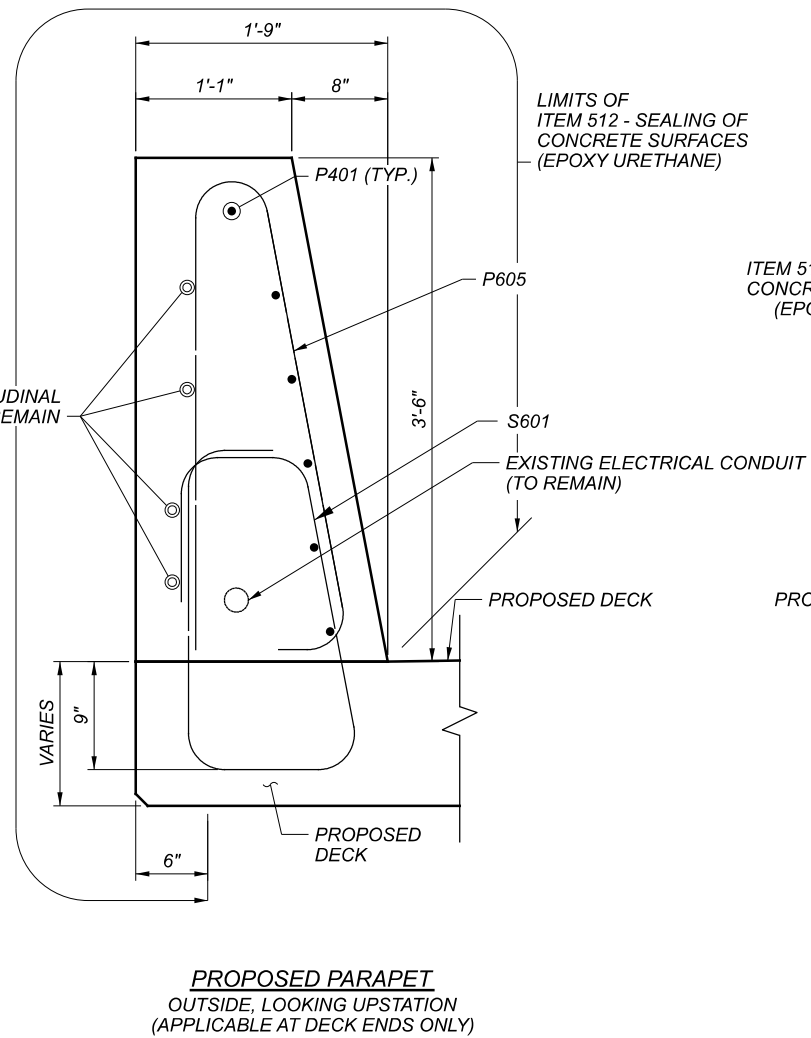
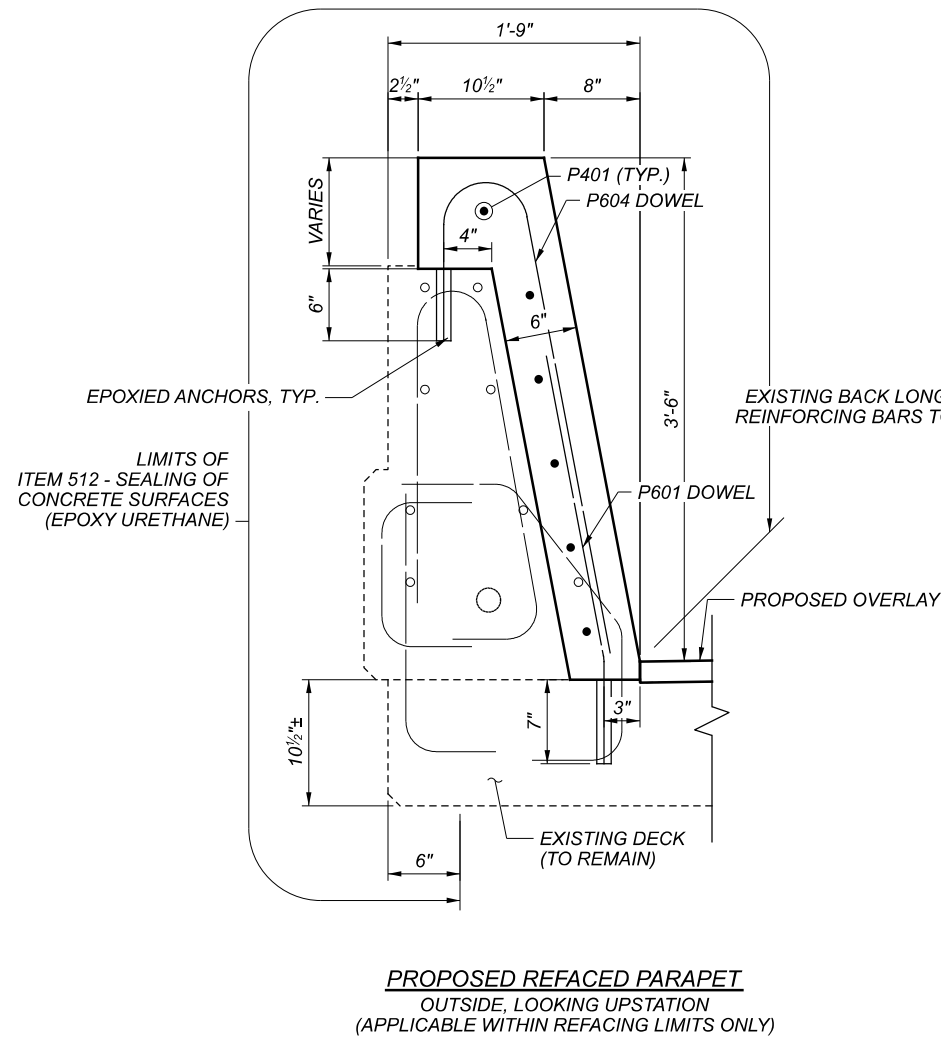
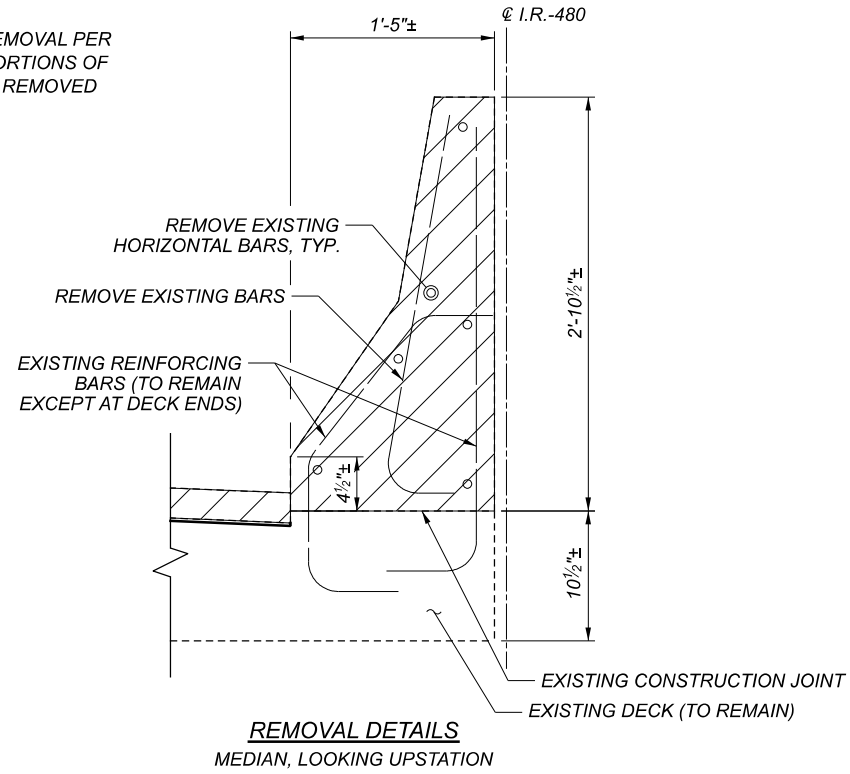
STRUCTURE ESTIMATED QUANTITIES
 BRIDGE NO. CUY-480-2139
 BRIDGE NO. CUY-480-2154

SFN 1813374/82
 DESIGN AGENCY

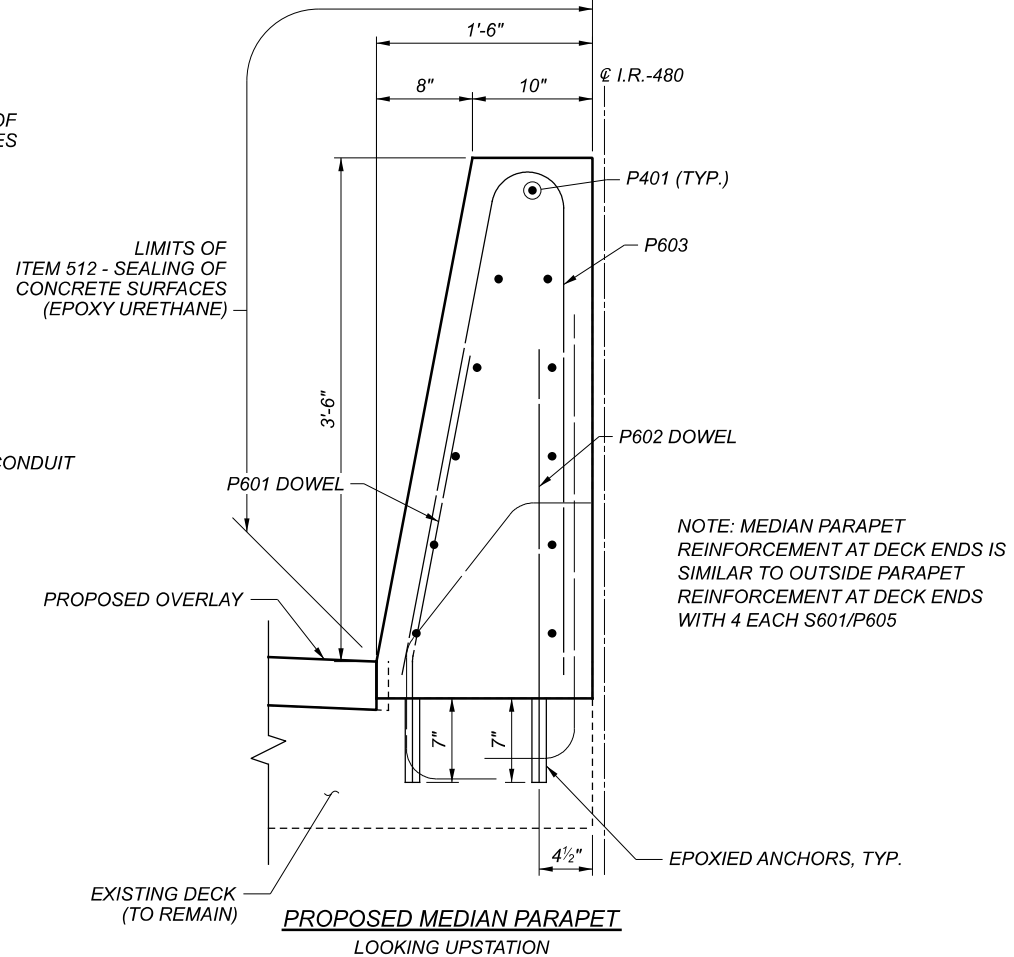
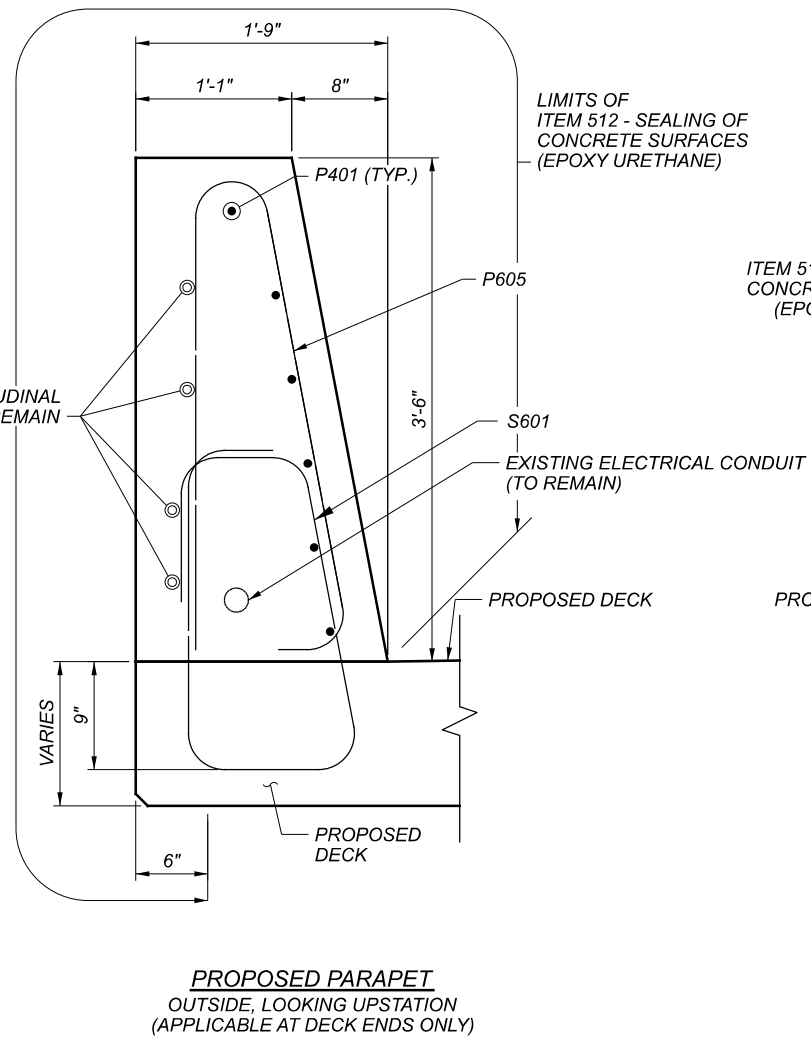
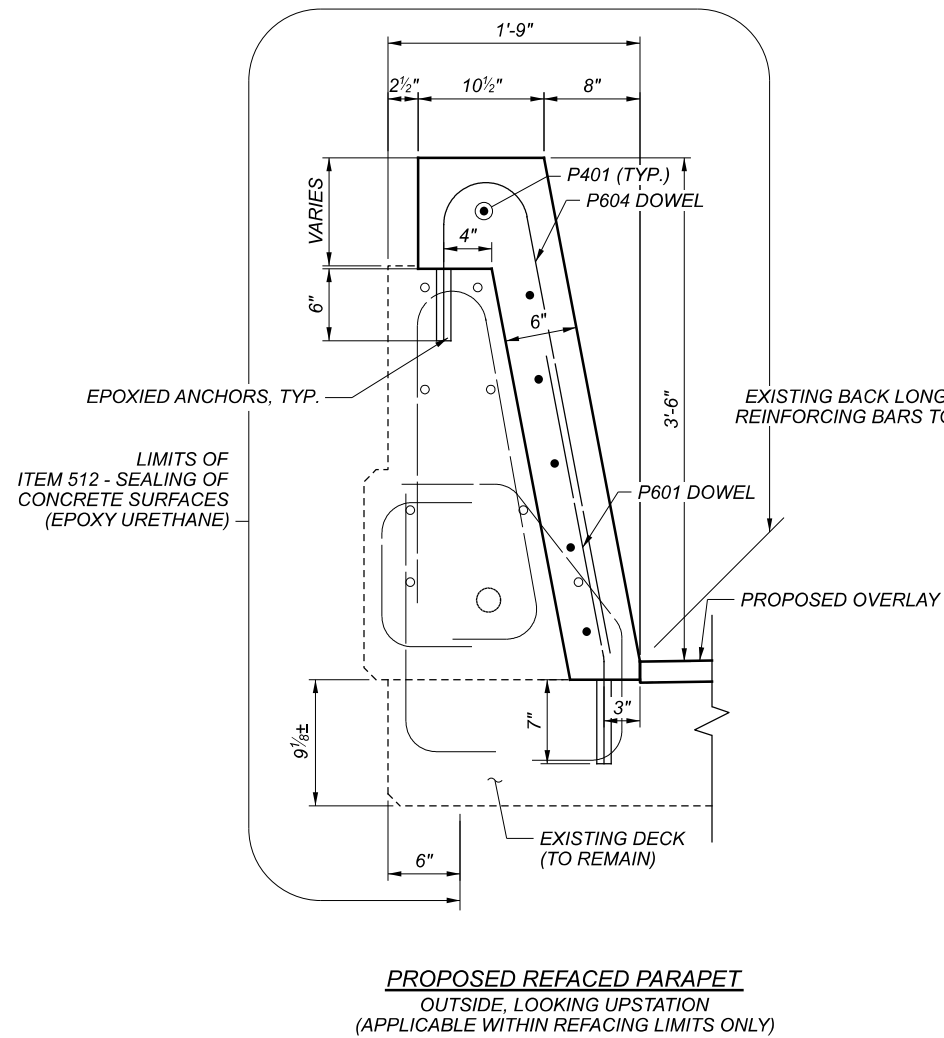
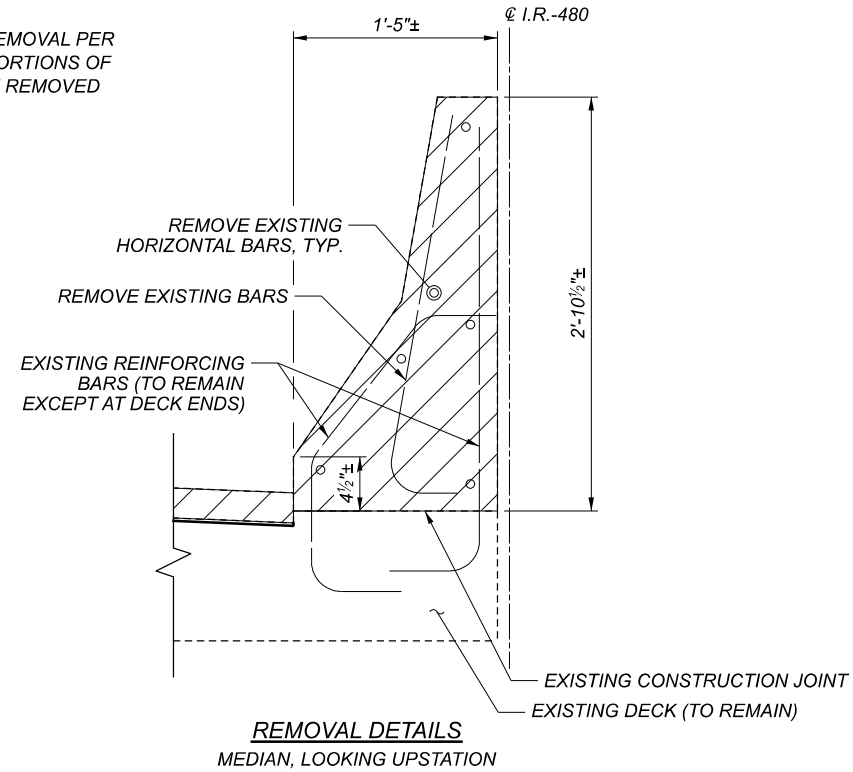
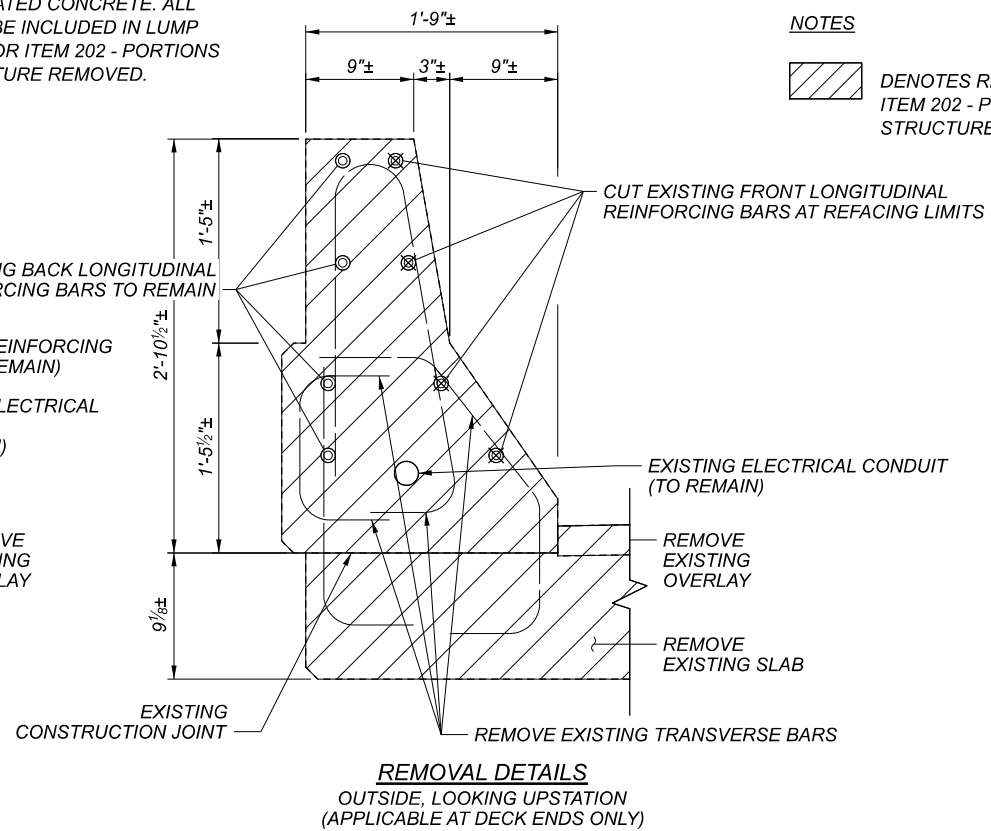
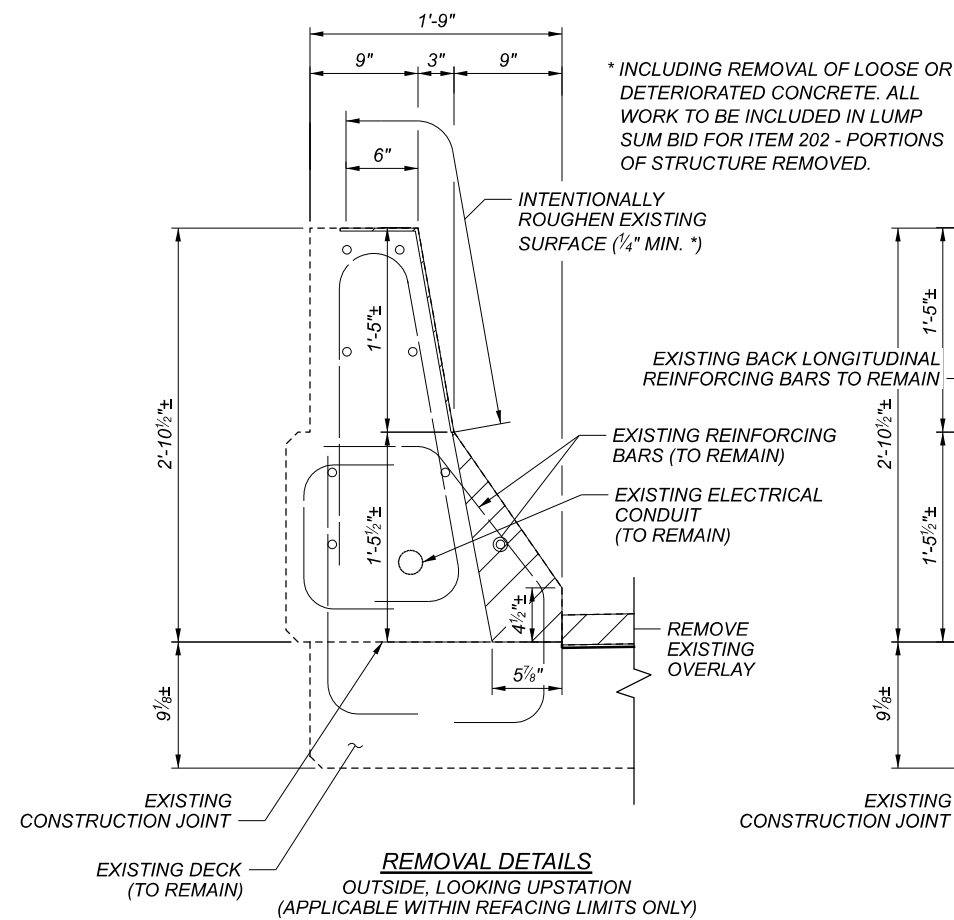
 KS Associates Inc.
 260 Burns Road
 Elyria, Ohio 44035
 DESIGNER CHECKER
 RAP RY
 REVIEWER
 HVH 12-11-20
 PROJECT ID
 107657
 SUBSET TOTAL
 2 19
 SHEET TOTAL
 81 98



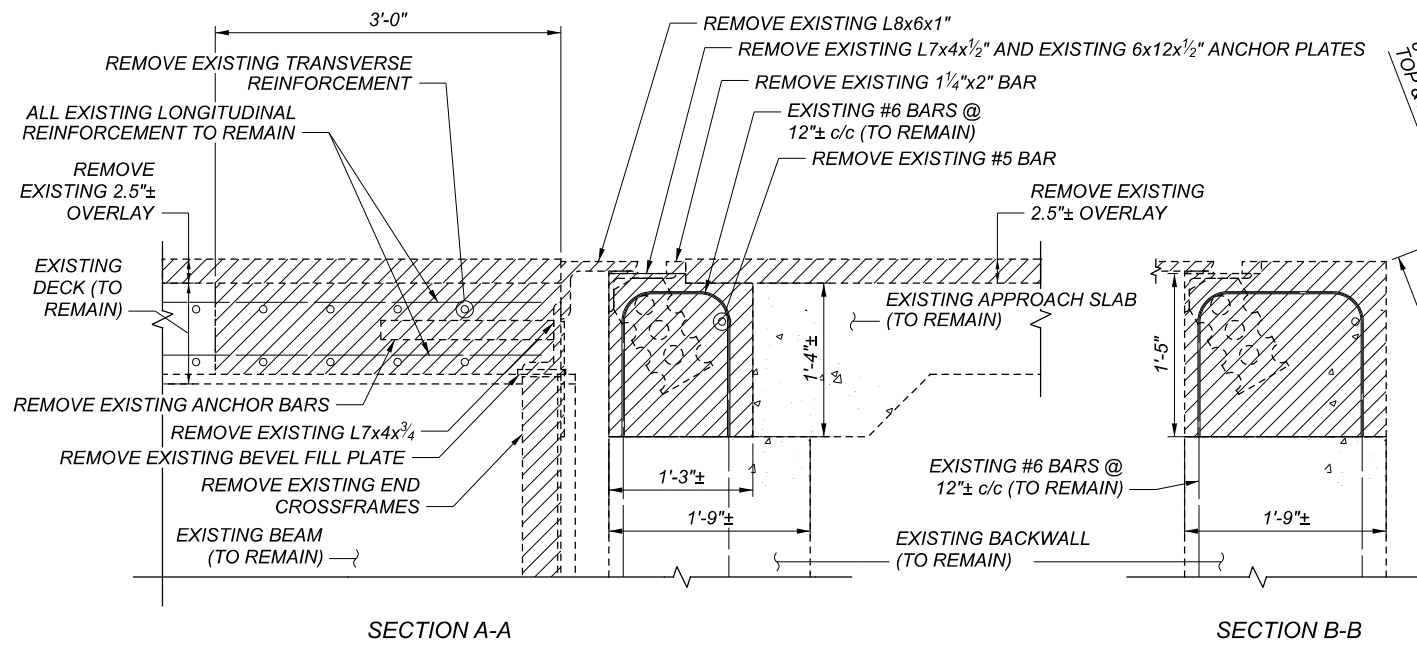
NOTES
 DENOTES REMOVAL PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED



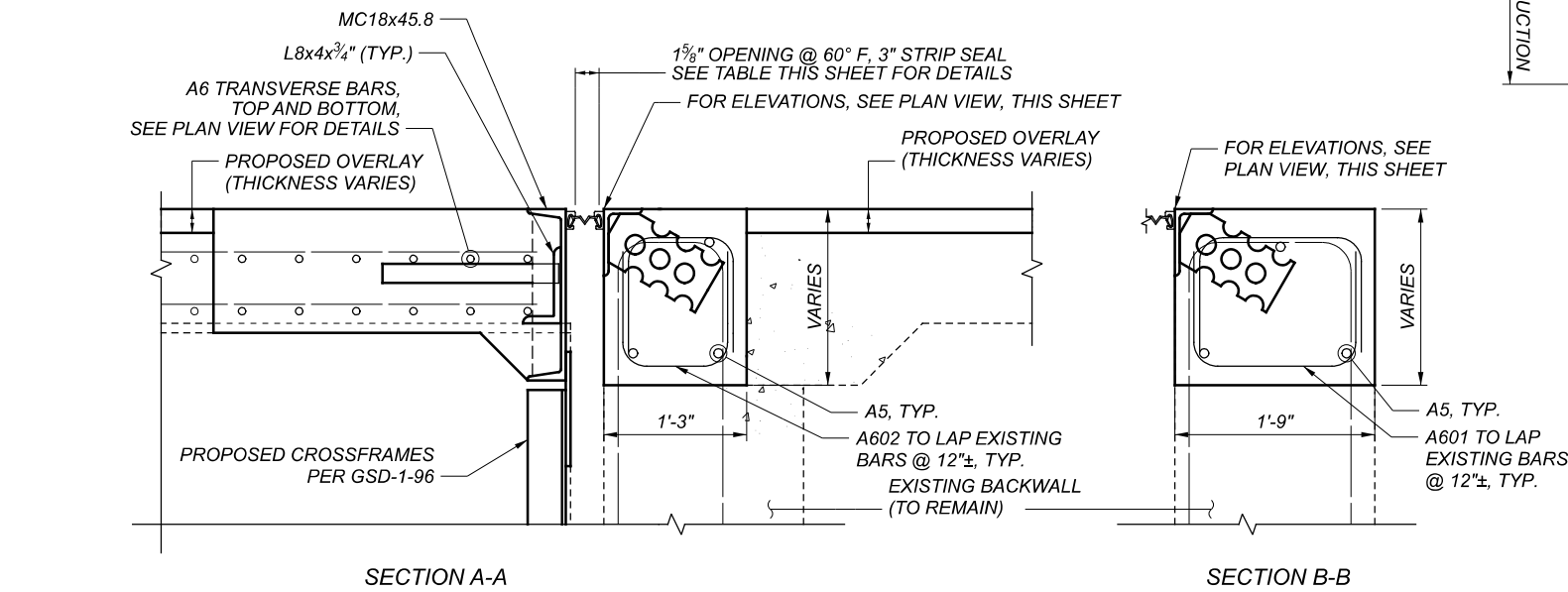
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DESIGN AGENCY	
DESIGNER/CHECKER	RAP RY
REVIEWER	HVH 12-11-20
PROJECT ID	107657
SUBSET	5 TOTAL 19
SHEET	84 TOTAL 98



SFN	1813382
DESIGN AGENCY	
KS	KS Associates Inc. 260 Burns Road Elyria, Ohio 44035
DESIGNER/CHECKER	RAP RY
REVIEWER	HVH 12-11-20
PROJECT ID	107657
SUBSET	14 TOTAL 19
SHEET	93 TOTAL 98



REMOVAL DETAILS



PROPOSED JOINT DETAILS

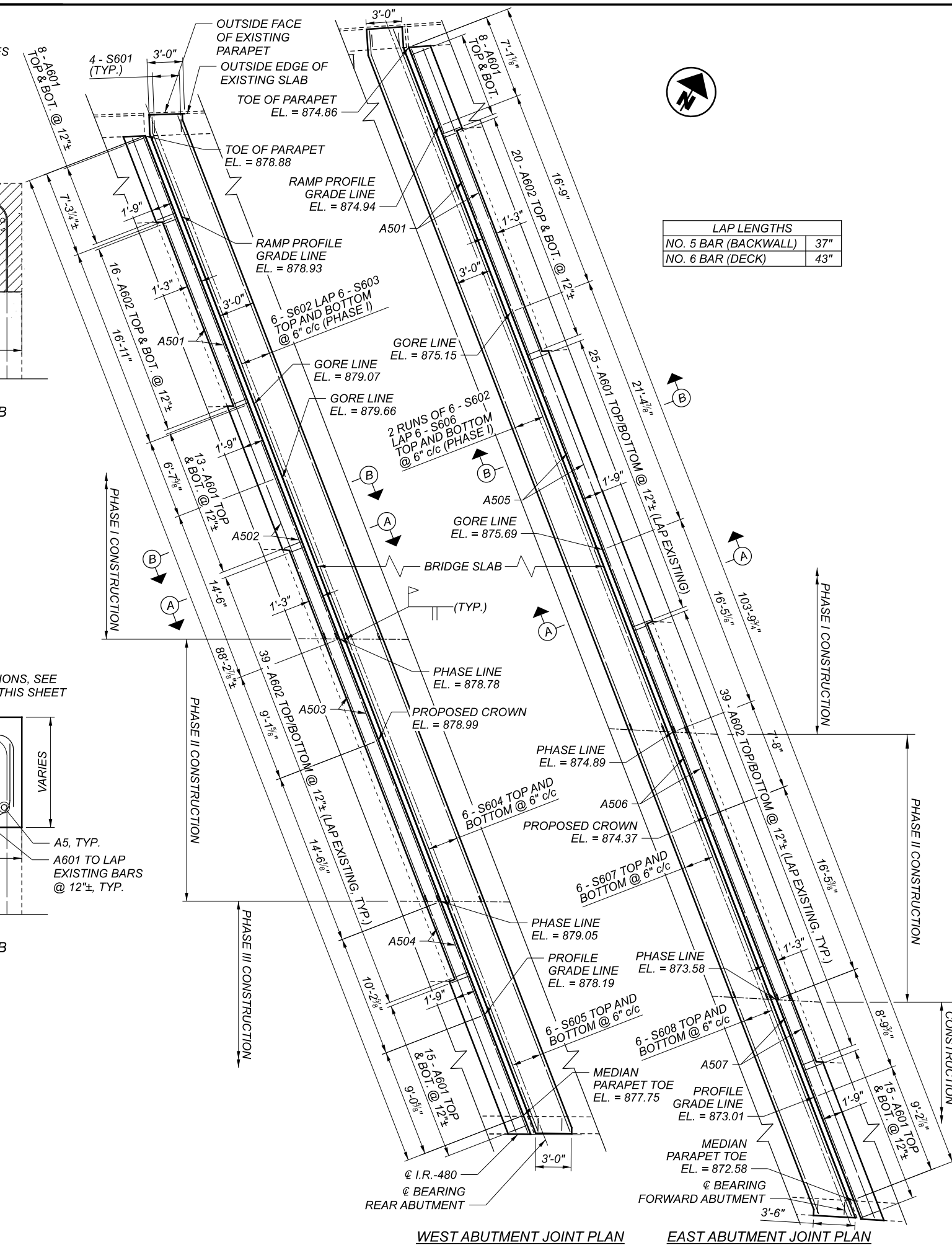
LEGEND

DENOTES ITEM 202 - PORTIONS OF STRUCTURE REMOVED

NOTES

- FOR ADDITIONAL DETAILS, SEE ODOT SCD EXJ-4-87 AND GSD-1-96
- FOR SHOULDER DETAILS, SEE ROADWAY TYPICAL SECTIONS
- MECHANICAL CONNECTORS TO BE PROVIDED AT PHASE LINES FOR TRANSVERSE BARS AS SHOWN. COST IS INCIDENTAL TO REINFORCEMENT.
- NEW CROSSFRAMES SHALL BE FRABICATED FROM A709 GRADE 50W WEATHERING STEEL

JOINT OPENING 3" STRIP SEAL (TYP.)		
TEMP. (°F)	REAR	FWD.
30	2 ¹⁵ / ₁₆ "	2 ³ / ₄ "
40	1 ¹³ / ₁₆ "	2 ¹ / ₁₆ "
50	1 ³ / ₄ "	2 ²¹ / ₃₂ "
60	1 ⁵ / ₈ "	1 ⁹ / ₈ "
70	1 ¹ / ₂ "	2 ¹⁹ / ₃₂ "
80	1 ⁷ / ₁₆ "	2 ⁹ / ₁₆ "
90	2 ⁵ / ₁₆ "	2 ¹ / ₂ "



WEST ABUTMENT JOINT PLAN

EAST ABUTMENT JOINT PLAN

LAP LENGTHS	
NO. 5 BAR (BACKWALL)	37"
NO. 6 BAR (DECK)	43"

EXPANSION JOINT DETAILS
 BRIDGE NO. CUY-480-2154
 IR-480 OVER S.R. 14 (BROADWAY AVENUE)

SFN	1813382
DESIGN AGENCY	
DESIGNER/CHECKER	RAP RY
REVIEWER	HVH 12-11-20
PROJECT ID	107657
SUBSET	17
TOTAL	19
SHEET	96
TOTAL	98