

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)	ELECTION DAY ((NOV)
MEMORIAL DAY	THANKSGIVING
FOURTH OF JULY (OBSERVED)	CHRISTMAS (OBSERVED)
LABOR DAY	

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES OR SPECIAL EVENT MUST BE OPEN TO TRAFFIC

SUNDAY	12:00N	FRIDAY THROUGH 6:00 AM	MONDAY
MONDAY	12:00N	FRIDAY THROUGH 6:00 AM	TUESDAY
TUESDAY	12:00N	MONDAY THROUGH 6:00 AM	WEDNESDAY
TUESDAY	(GEN./REG. ELECTION)		
	5:00 AM	TUESDAY THROUGH 12:00 AM	WEDNESDAY
WEDNESDAY	12:00N	TUESDAY THROUGH 6:00 AM	THURSDAY
THURSDAY	12:00N	WEDNESDAY THROUGH 6:00 AM	FRIDAY
THURSDAY	(THANKSGIVING ONLY)		
	6:00 AM	WEDNESDAY THROUGH 6:00 AM	MONDAY
FRIDAY	12:00N	THURSDAY THROUGH 6:00 AM	MONDAY
SATURDAY	12:00N	FRIDAY THROUGH 6:00 AM	MONDAY

LANE/RAMP CLOSURES ARE NOT PERMITTED 2 HOURS BEFORE TO 2 HOURS AFTER ALL EVENTS AT RIVERBEND MUSIC CENTER; BALLOON GLOW, FIRE UP THE NIGHT, AND CHRISTMAS NIGHTS OF LIGHTS AT CONEY ISLAND; AND, KENTUCKY DERBY VIEWING AT BELTERRA PARK.

RAMP CLOSURES FOR INSTALLATION OF PHASE 1 AND PHASE 2 MAINTENANCE OF TRAFFIC ITEMS AND RAMP CLOSURES FOR PRE-PHASE 1A CONSTRUCTION OF PAVEMENT WEDGE ARE RESTRICTED FROM 6AM TO 9PM. THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$XXX FOR EACH MINUTE THE RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE FLEXIBLE WINDOW CONTRACT (PN 129).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES AND SHALL BE CONTROLLED WITH FLAGGERS AND TRAFFIC CONTRAOL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SEQUENCE OF CONSTRUCTION

PRE-PHASE 1A

PLANE APPROACH PAVEMENT AND TRANSITION TO THE EXISTING BRIDGE DECK ELEVATION PER BP-3.1. PROVIDE A BUTT JOINT AS PER BP-3.1. INSTALL PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B.

PRE-PHASE 1B

REMOVE AND REPLACE ALL EXISTING FORWARD AND REAR ABUTMENT BEARINGS.

PHASE 1

PLACE ALL TRAFFIC CONTROL ITEMS FOR MAINTAINING TRAFFIC AS SHOWN IN THE PLANS. PERFORM ALL STRUCTURE REMOVALS & PAVEMENT PLANING IN THE OUTSIDE LANE AND SHOULDER OF EASTBOUND US-52 AND WESTBOUND US-52. CONSTRUCT BACKWALL, INSTALL EXPANSION JOINTS, & RECONSTRUCT DECK ENDS IN THE OUTSIDE LANE AND SHOULDER OF EASTBOUND US-52 AND WESTBOUND US-52. PLACE ASPHALT SURFACE COURSE TO THE DIMENSIONS AND ELEVATIONS SHOWN IN THE CROSS SECTIONS. ALL RAMPS SHALL REMAIN OPEN. PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B FOR PHASE 2 MAY BE PLACED UNDER PHASE 1 CLOSURE.

PHASE 2

PLACE ALL TRAFFIC CONTROL ITEMS FOR MAINTAINING TRAFFIC AS SHOWN IN THE PLANS. PERFORM ALL STRUCTURE REMOVALS & PAVEMENT PLANING IN THE INSIDE LANE AND SHOULDER OF EASTBOUND US-52 AND WESTBOUND US-52. CONSTRUCT BACKWALL, INSTALL EXPANSION JOINTS, & RECONSTRUCT DECK ENDS IN THE INSIDE LANE AND SHOULDER OF EASTBOUND US-52 AND WESTBOUND US-52. PLACE ASPHALT SURFACE COURSE TO THE DIMENSIONS AND ELEVATIONS SHOWN IN THE CROSS SECTIONS. ALL RAMPS SHALL REMAIN OPEN.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN

THE TEMPORARY PAVEMENT WILL REMAIN IN PLACE. THEREFORE, 6" OF AGGREGATE SHALL BE PLACED AND SHALL NOT BE SUBSTITUTED WITH ASPHALT.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

WINDOW CONTRACT TABLE
USE THE FOLLOWING TABLE AS REFERRED TO IN THE PROPOSAL:

DESCRIPTION OR LOCATION OF CRITICAL WORK	CALENDER DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
COMPLETE ALL PRE-PHASE 1A WORK	30	PER C&MS TABLE 108.07-1	CONTRACT EXECUTION DATE	8/31/2024
COMPLETE ALL PHASE 1 WORK (EXCLUDING SEALING OF CONCRETE SURFACES, AND FIELD PAINTING)	28	PER C&MS TABLE 108.07-1	CONTRACT EXECUTION DATE	PROJECT COMPLETION DATE
COMPLETE ALL PHASE 2 WORK (EXCLUDING SEALING OF CONCRETE SURFACES, AND FIELD PAINTING)	28	PER C&MS TABLE 108.07-1	CONTRACT EXECUTION DATE	PROJECT COMPLETION DATE

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

SK MM-DD-YY

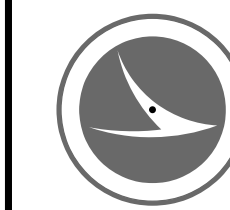
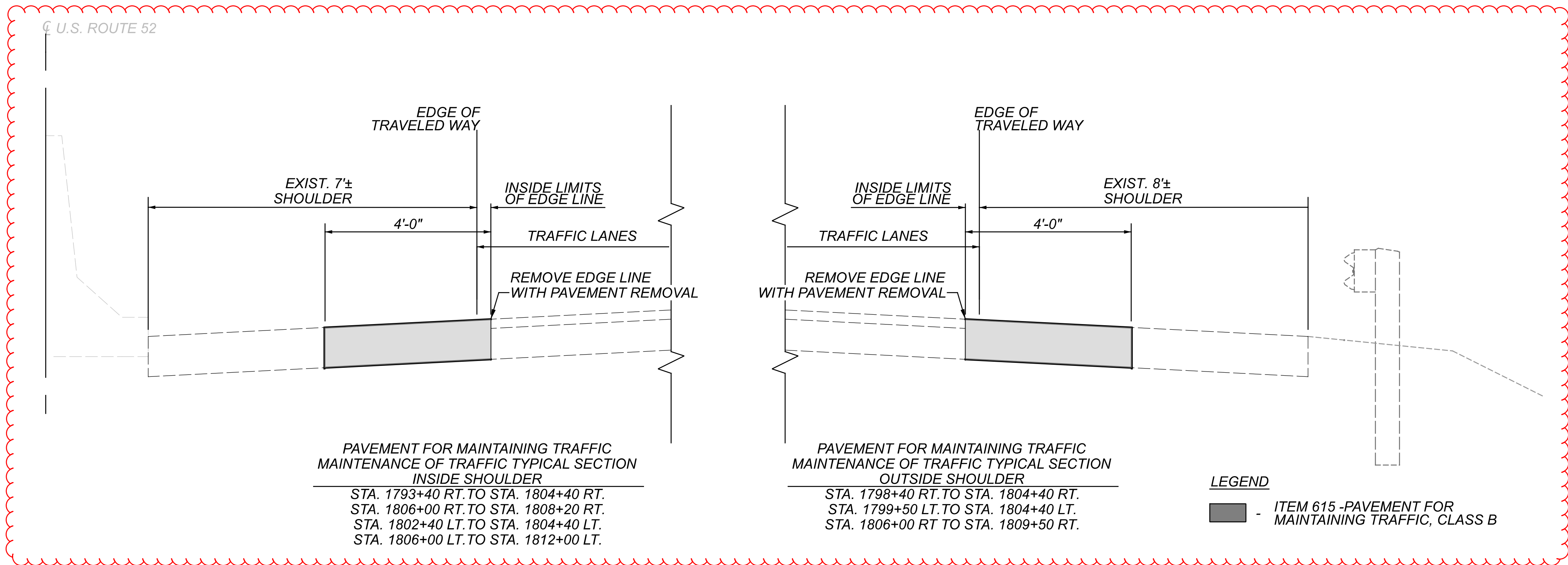
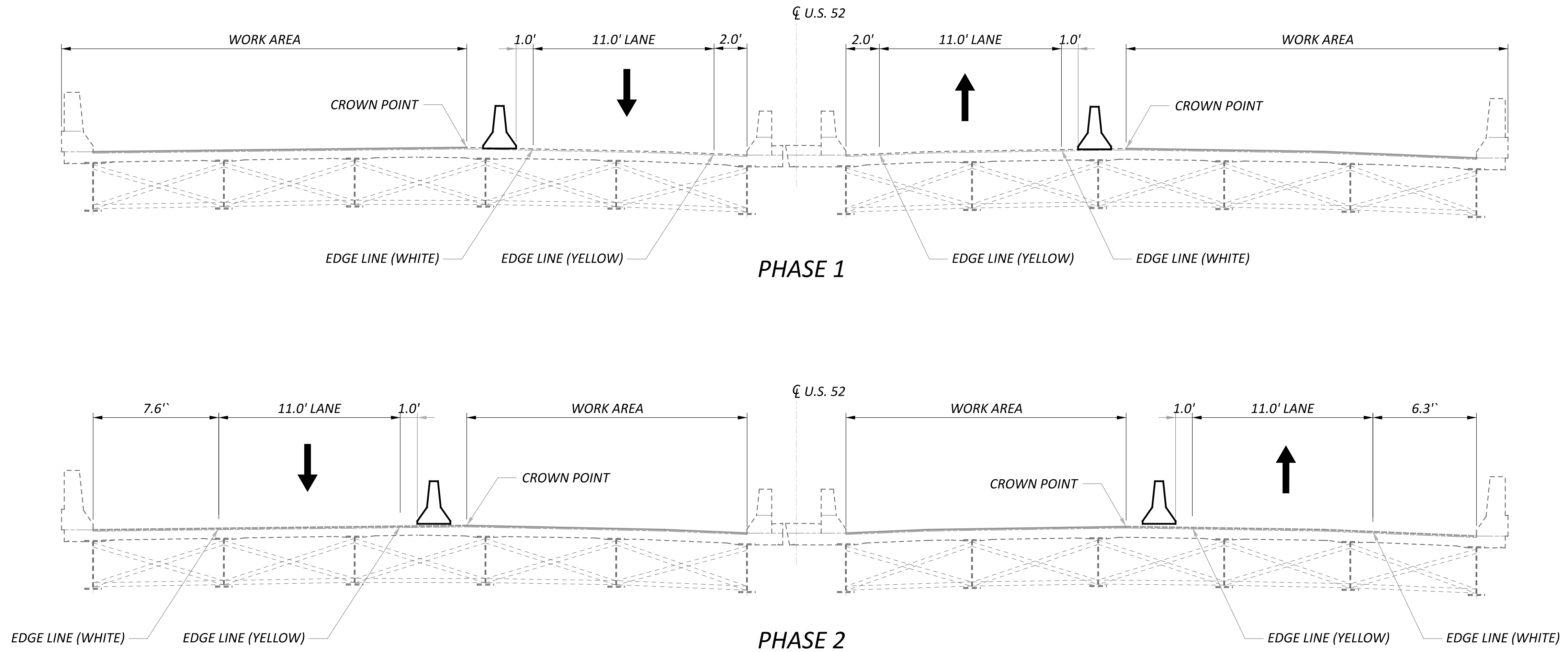
PROJECT ID

119272

SHEET

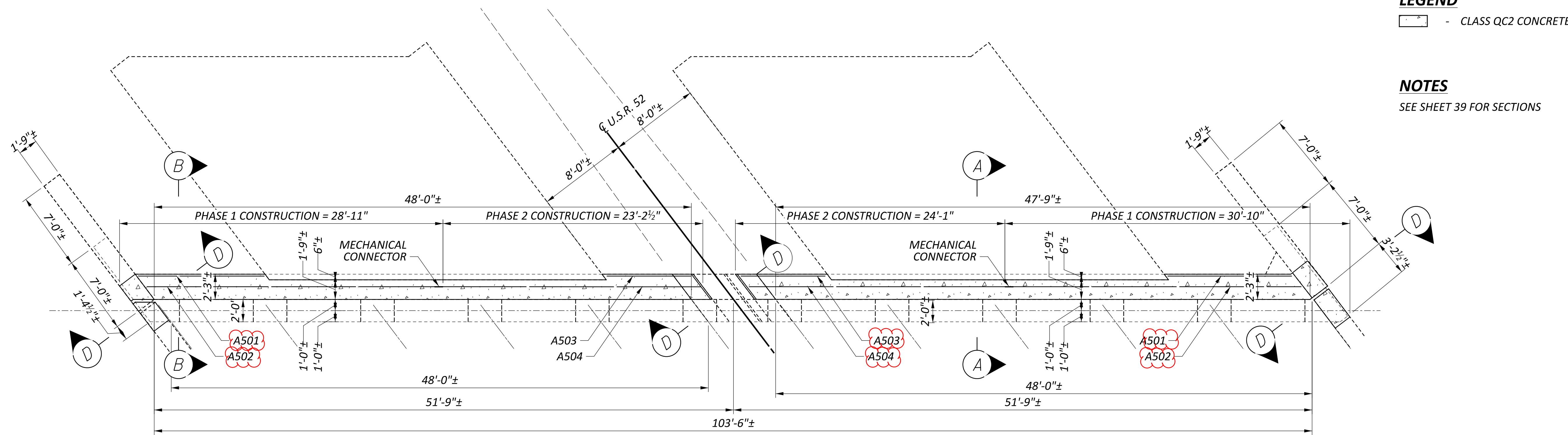
TOTAL

5 | 42



ESTIMATED QUANTITIES - STRUCTURE No.: HAM-52-3589 (01/NHS/21 FUNDING SPLIT)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP			31
509	10000	2029	LB	EPOXY COATED STEEL REINFORCEMENT			2029			
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	50		50			31
510	10001	10	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	5		5			31
511	34410	32	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	22		10			
511	34448	5	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			5			
511	81200	LS	LS	CONCRETE MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION				LUMP		
512	10100	20	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)					20	
512	44450	20	SY	TYPE E WATERPROOFING	20					
512	74000	10	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES					10	
513	10200	5686	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			5686			
514	21000	LS	LS	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN				LUMP		32
516	11210	208	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			208			
516	31010	198	FT	2" DEEP JOINT SEALER, HOT APPLIED, 705.04			198			
516	44201	24	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (T = 3.378)	24					31
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP		31

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
ABUTMENT BACKWALL										
A501	4	11'-2"	47	STR						
A502	3	26'-5"	83	STR						
A503	3	7'-7"	24	STR						
A504	3	23'-8"	74	STR						
A505	1	30'-1"	31	STR						
	SUB-TOTAL		259							
MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
DECK SLAB										
S601	18	24'-3"	656	STR						
S602	24	22'-10"	823	STR						
S603	6	32'-3"	291	STR						
	SUB-TOTAL		1,770							



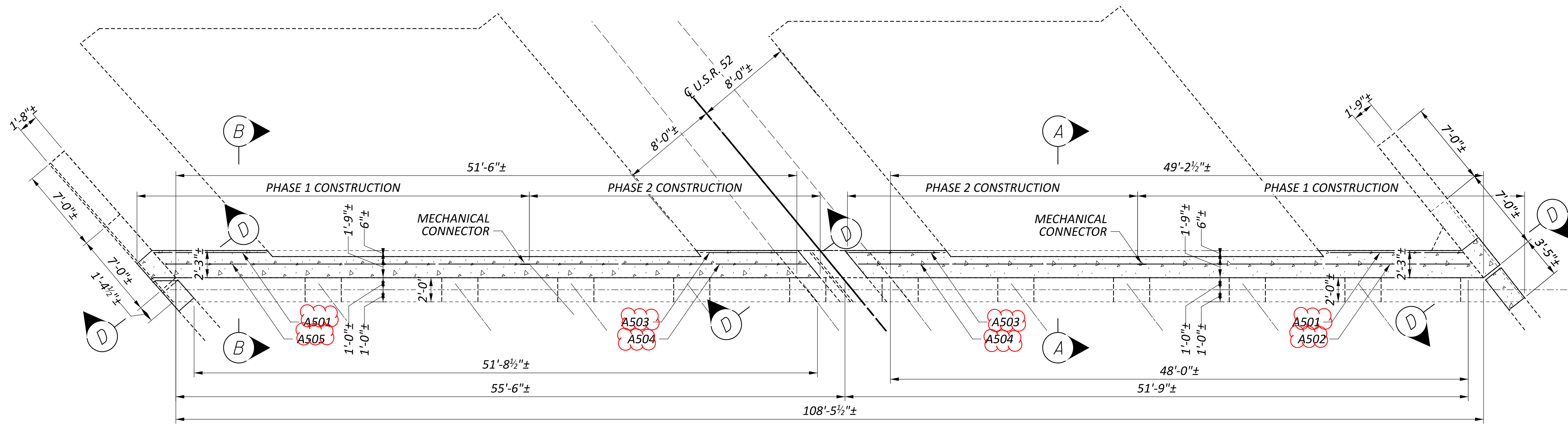
REAR ABUTMENT CONSTRUCTION PLAN

LEGEND

□ - CLASS QC2 CONCRETE

NOTES

SEE SHEET 39 FOR SECTIONS



FORWARD ABUTMENT CONSTRUCTION PLAN

ABUTMENT CONSTRUCTION PLAN
 BRIDGE No.: HAM-52-3589
 U.S. 52 OVER KELLOGG AVE.

SFN
 3105857
 DESIGN AGENCY



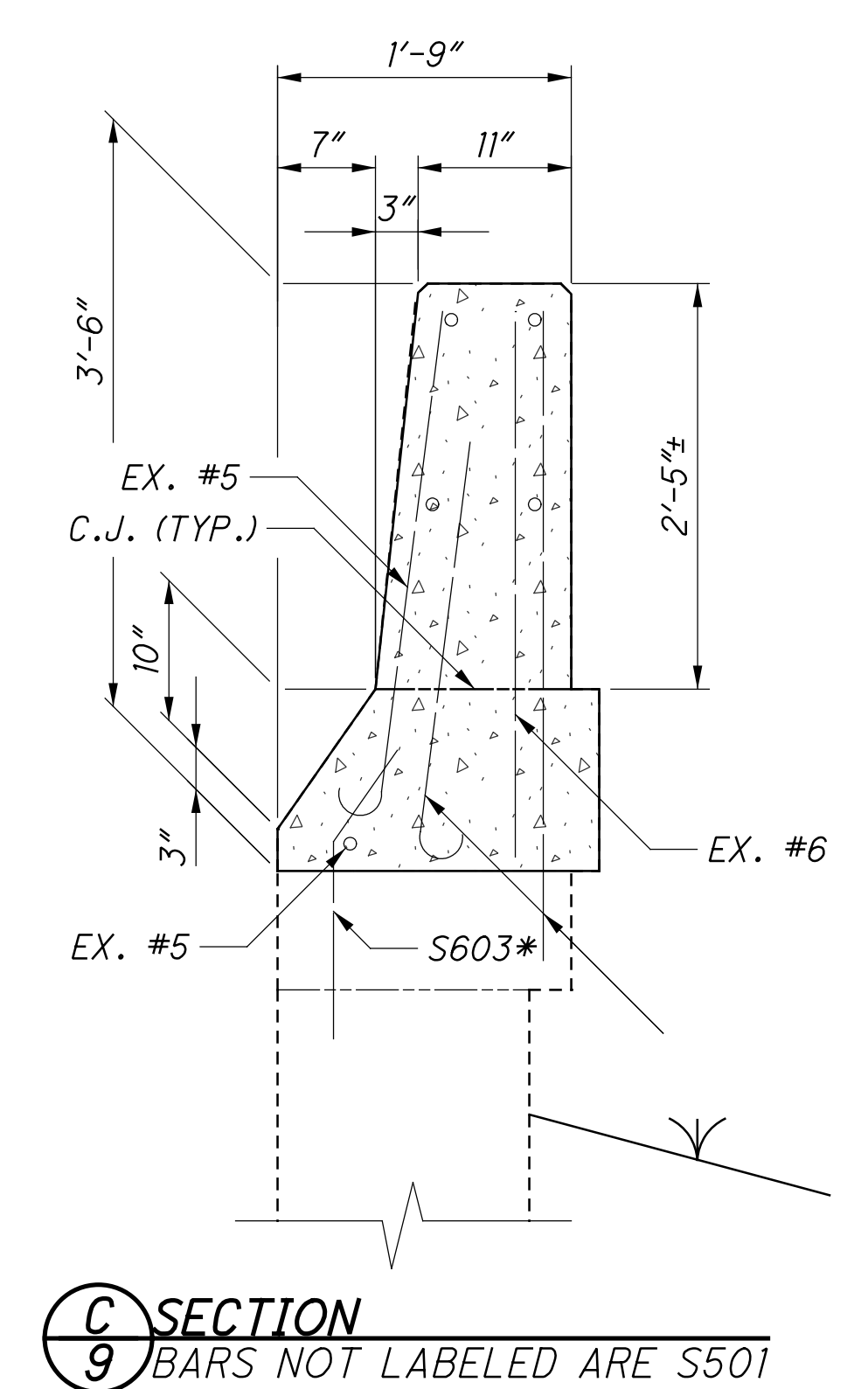
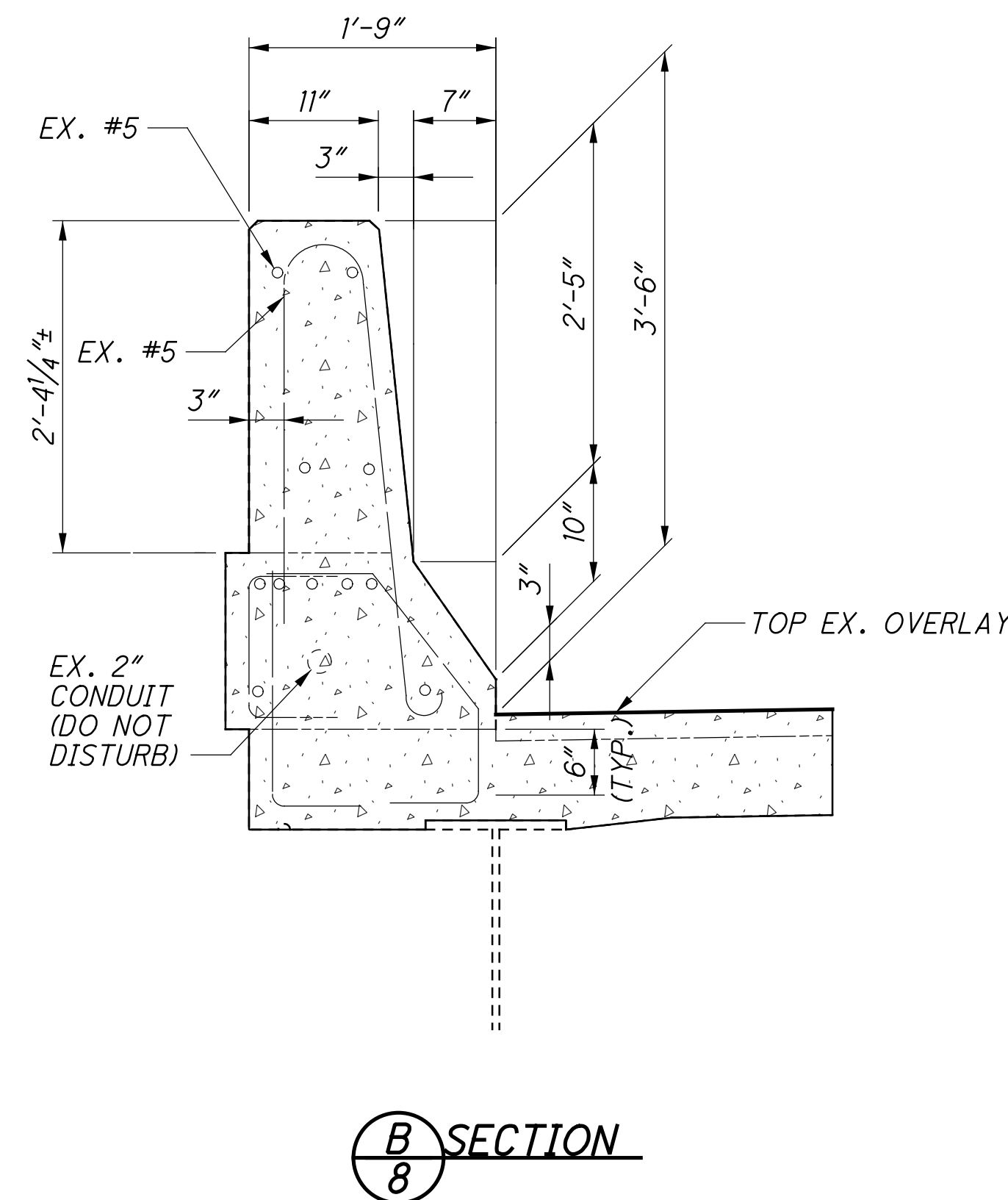
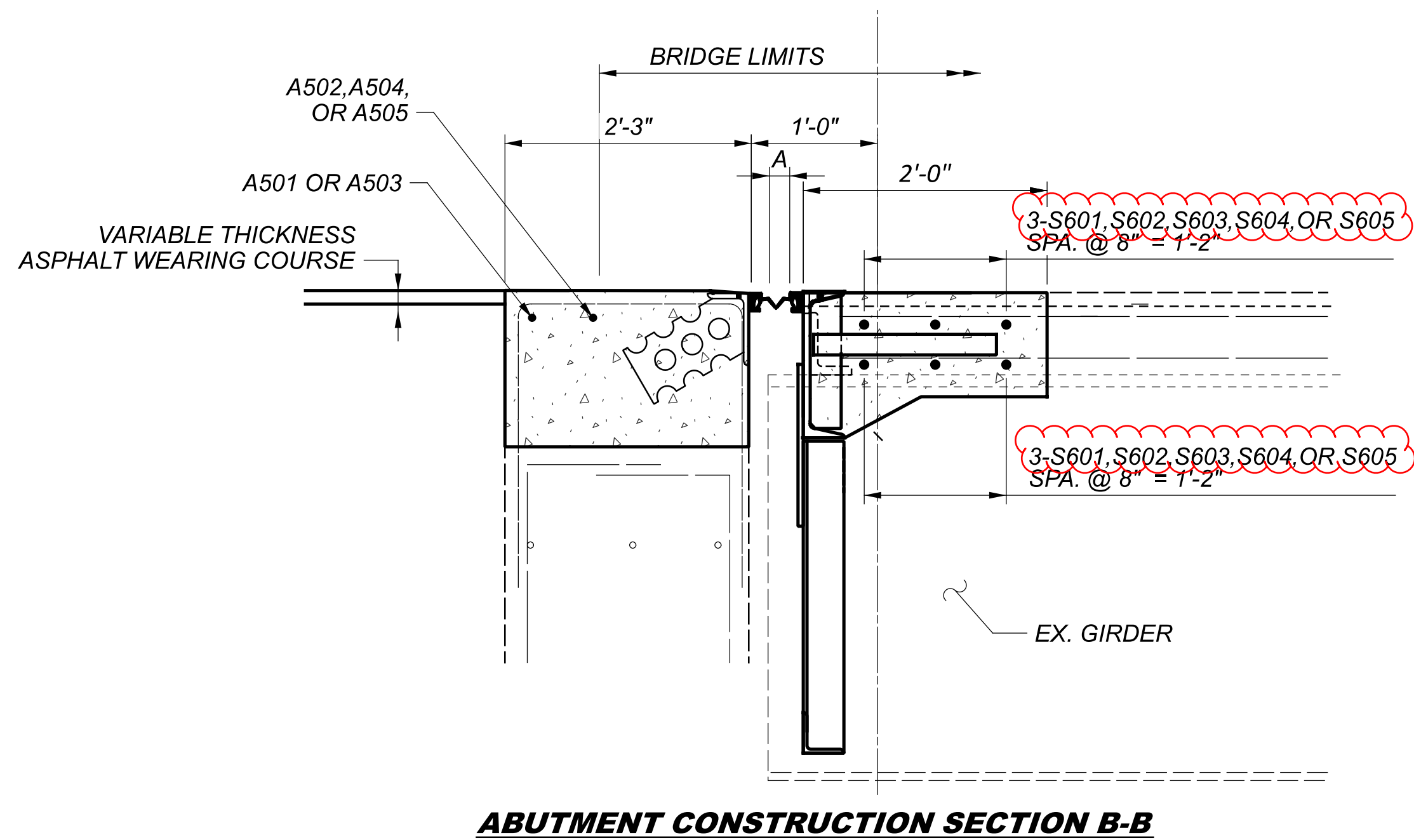
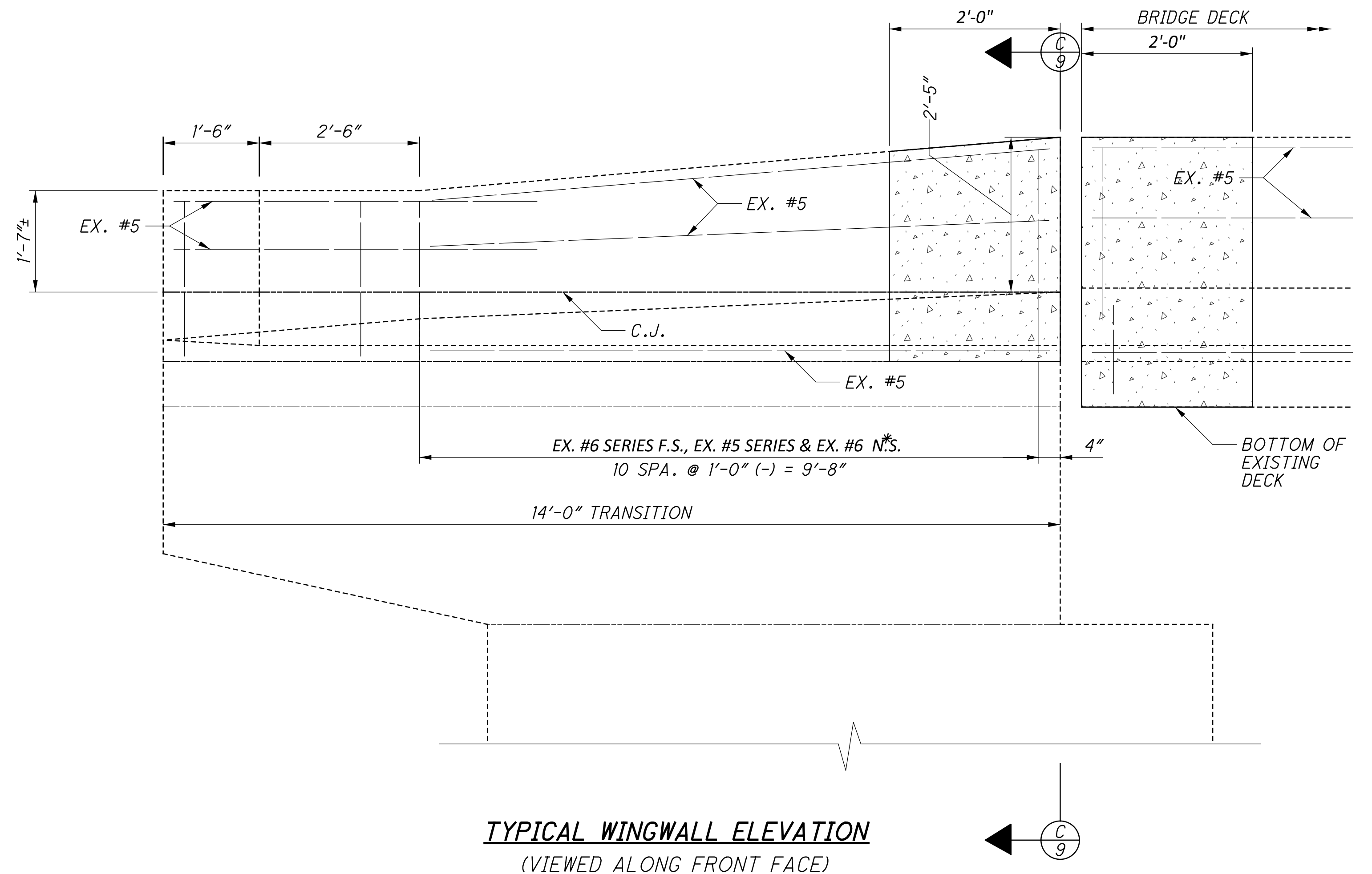
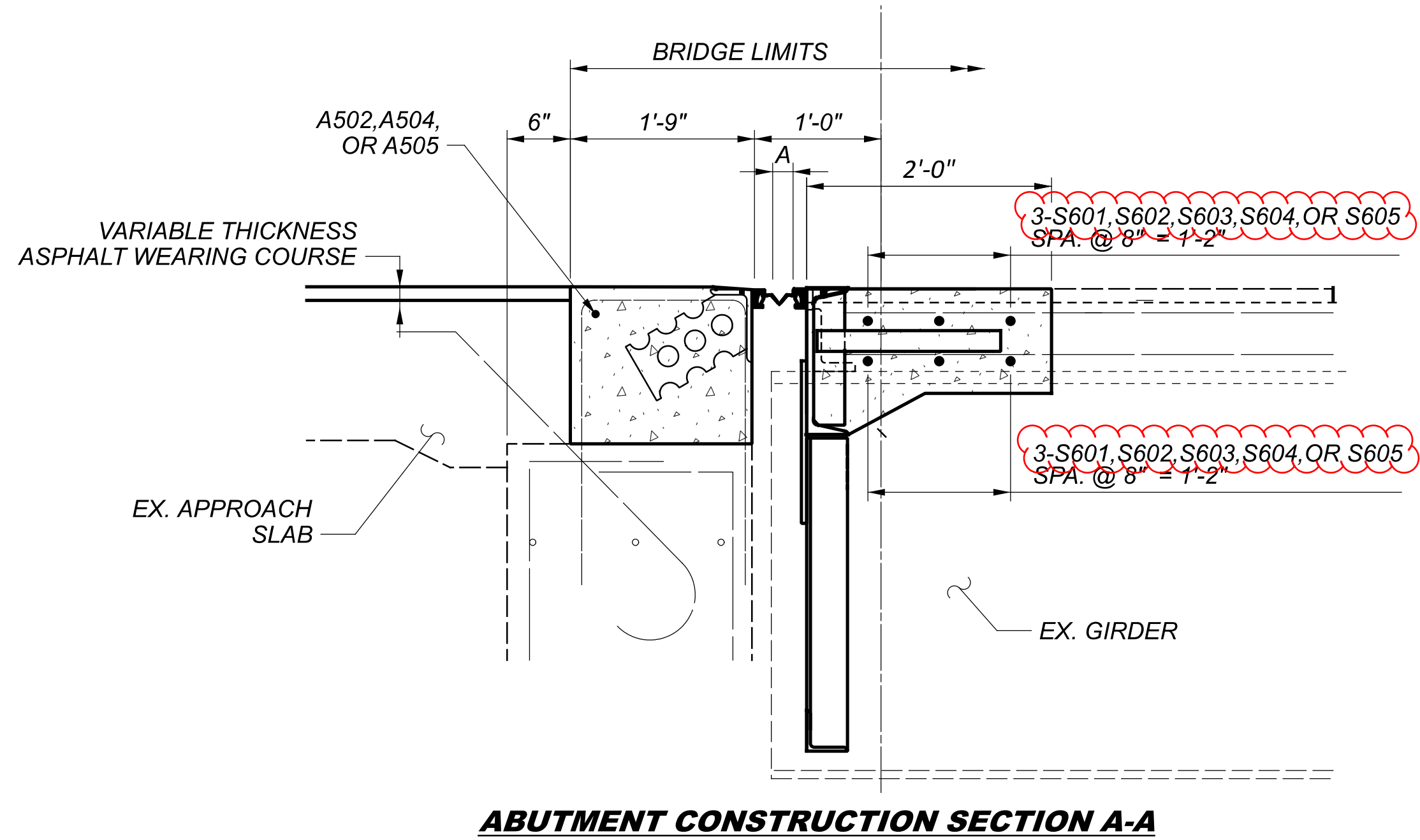
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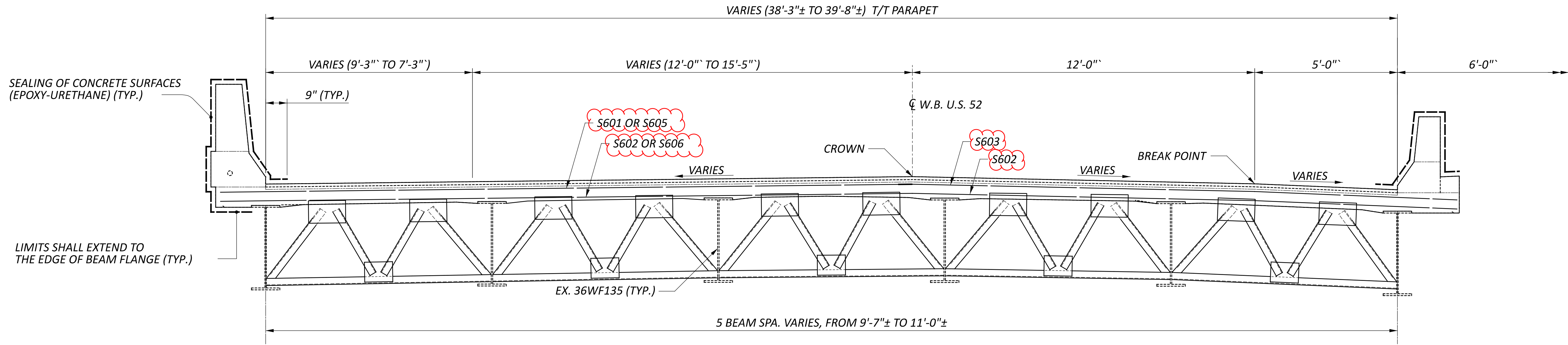
PROJECT ID: 119272

SUBSET	TOTAL
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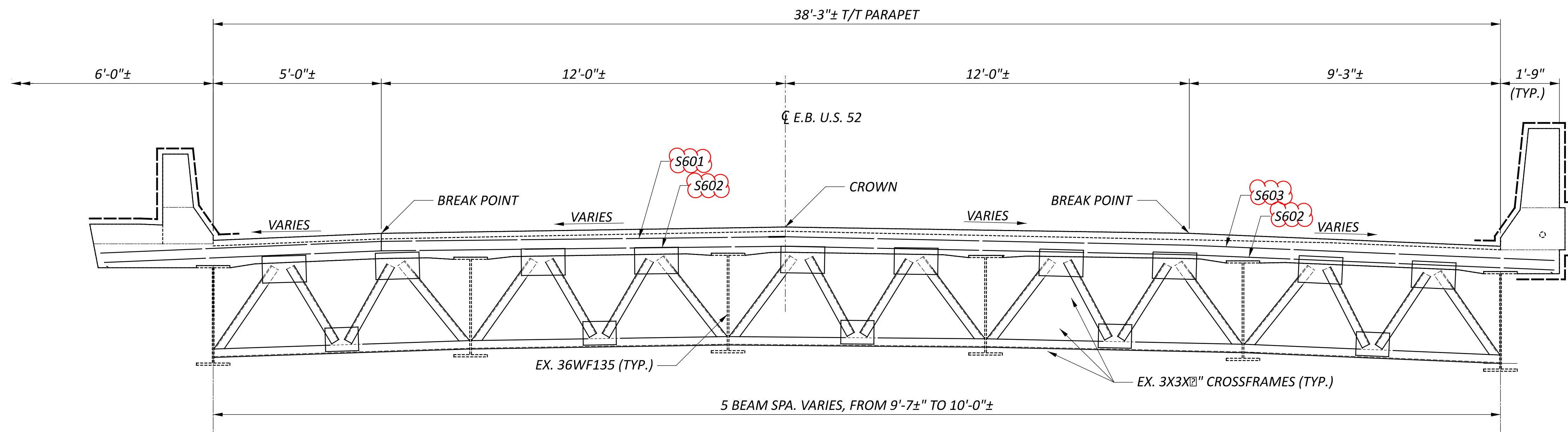
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SFN 3105857	
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REVIEWER	
CAH MM-DD-YY	
PROJECT ID 119272	
SUBSET	TOTAL
10	13
SHEET	TOTAL
39	42



TRANSVERSE SECTION (WESTBOUND)



TRANSVERSE SECTION (EASTBOUND)

DECK CONSTRUCTION DETAILS
 BRIDGE No.: HAM-52-3589
 U.S. 52 OVER KELLOGG AVE.

SFN
 3105857
 DESIGN AGENCY



DESIGNER: GTF
 CHECKER: AS

REVIEWER: CAH MM-DD-YY

PROJECT ID: 119272

SUBSET	TOTAL
11	13

SHEET	TOTAL
40	42