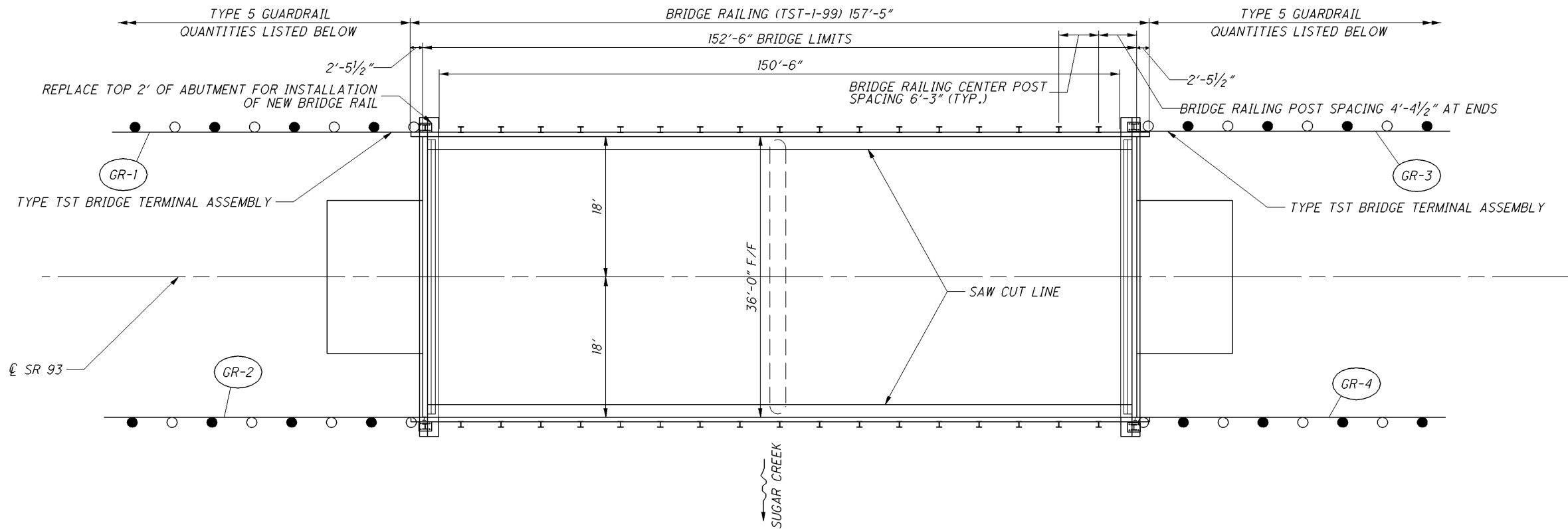


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GUARDRAIL SUBSUMMARY

REF NO.	SHEET NO.	SLM	BRIDGE CORNER	202		606	606	606	606			
				GUARDRAIL REMOVED		GUARDRAIL, TYPE 5	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T (8' R)	BRIDGE TERMINAL ASSEMBLY, TYPE TST			
				FT		FT	EACH	EACH	EACH			
GR-1	1/9	4.30	SW	175		125	1		1			
GR-2	1/9	4.30	SE	106.5		100		1	1			
GR-3	1/9	4.30	NW	262.5		212.5	1		1			
GR-4	1/9	4.30	NE	362.5		312.5	1		1			
TOTALS CARRIED TO ESTIMATED QUANTITIES				907		750	3	1	4			

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM
SPANS: 2 @ 72'-7 1/2"
ROADWAY: 44'-0" F/F GUARDRAIL
LOADING: CF 130
SKEW: 0°0'0"
APPROACH SLABS: 2AS-4-47 (15'-0" LONG)
ALIGNMENT: TANGENT
STRUCTURAL FILE NUMBER: 7604831



ITEM 519 - PATCHING CONCRETE STRUCTURES,
AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 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.

STRUCTURE IDENTIFICATION SIGNS

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL BE HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:
STA-93-0430 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

- ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT

STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH DEMOLITION ACTIVITIES AND/OR THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL AREA. THIS PERTAINS TO ALL DEMOLITION ACTIVITIES AND ANY EXCAVATION OPERATION SUCH AS, BENCHING ADJACENT TO THE STREAM CHANNEL FOR EQUIPMENT ACCESS, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

MECHANICAL EQUIPMENT OPERATION AT STREAM CHANNEL

THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS OR STREAMS UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS, STREAMS OR OTHER WATERS OF THE UNITED STATES.

PAINTING AND SEALING OPERATIONS:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER MATERIALS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE AND CULVERT STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS, OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

CONSTRUCTION AND DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

INSTREAM WORK

INSTREAM WORK WILL BE LIMITED WERE PRACTICABLE AND ONLY CLEAN NON-ERODIBLE MATERIAL WILL BE USED FOR EQUIPMENT ACCESS PADS. THIS TEMPORARILY PLACED MATERIAL SHALL BE REMOVED AND THE STREAM BANKS AND CHANNEL BOTTOM RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED. WATER COLUMN AND SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL.

ALL MATERIALS REMOVED FROM DITCHES AND/OR STREAMS MUST BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E., SEEDED) TO PREVENT REDISTRIBUTION INTO ANY WATERS OF THE UNITED STATES. IMMEDIATE REMOVAL IS DEFINED BY THE UNITED STATES ARMY CORPS OF ENGINEERS AS DEPOSITING THE REMOVED MATERIALS DIRECTLY INTO A TRUCK AND REMOVING THE MATERIAL FROM THE SITE; PLACEMENT OF REMOVED MATERIALS INTO A WETLAND OR ON THE BANKS OF A STREAM EVEN TEMPORARILY IS CONSIDERED A FILL AND REQUIRES A PERMIT ACTION. ANY AREAS DISTURBED BY EQUIPMENT ACTIVITIES MUST BE SEEDED TO PREVENT EROSION OF SEDIMENTS INTO WATERS OF THE UNITED STATES.

ASBESTOS NOTIFICATION

AN ASBESTOS SURVEY OF THE SR 93 BRIDGE STRUCTURE OVER SUGAR CREEK (STRUCTURE NO. STA-93-0430, SFN 7604831) SCHEDULED FOR REHABILITATION WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURE.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO:

DIVISION OF AIR POLLUTION CONTROL
420 MARKET AVENUE N.
CANTON, OH 44702
ATTN: MR. BRUCE BLANKENSHIP, ADMIN.
(330) 489-3395
FAX: (330) 489-3335

AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR REHABILITATION. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER. INFORMATION REQUIRED ON THE FORM WILL INCLUDE:1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. A COPY OF THE OEPA FORM IS AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 4 OFFICE, 2088 SOUTH ARLINGTON, AKRON, OHIO 44306

BASIS FOR PAYMENT-THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202-PORCTIONS OF STRUCTURE REMOVED, AS PER PLAN.

<div><div>53</div><div>59</div></div>		<div>3</div> <div>9</div>	<div>STA-93/ 212-0.00/ 0.00</div> <div>PID No. 25432</div>	<div>STRUCTURE NOTES</div> <div>STA-93-0430</div> <div>OVER SUGAR CREEK</div>	<div>DESIGNED</div> <div>LMS</div> <div>CHECKED</div>	<div>DRAWN</div> <div>LMS</div> <div>REVISED</div>	<div>REVIEWED</div> <div>TJP</div> <div>STRUCTURE FILE NUMBER</div>	<div>DATE</div> <div>11-07-07</div> <div>7604831</div>	<div>DESIGN AGENCY</div> <div>ODOT --- DISTRICT 4</div> <div>PRODUCTION</div>
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						CALC: LMS		DATE: 11/5/2007	
						CHECKED: TJP		DATE: 11/7/2007	
ESTIMATED QUANTITIES									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11201	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN					2/9
202	23500	726	SQ YD	WEARING COURSE REMOVED			605	121	
202	38000	907	FT	GUARDRAIL REMOVED				907	
407	10000	19	GALLON	TACK COAT				19	
407	14000	30	GALLON	TACK COAT FOR INTERMEDIATE COURSE			25	5	
446	47020	32	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22			26	6	
448	46050	32	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22			26	6	
509	10000	4309	POUND	EPOXY COATED REINFORCING STEEL	190		4119		
509	20001	50	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN			50		2/9
511	32200	32	CU YD	CLASS S CONCRETE, SUPERSTRUCTURE			32		
511	45700	3	CU YD	CLASS C CONCRETE, ABUTMENT	3				
512	10100	249	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	61	128	60		
512	33010	605	SQ YD	TYPE 3 WATERPROOFING			605		
514	00050	8524	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			8524		
514	00056	8524	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			8524		
514	00060	8524	SQ FT	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			8524		
514	00066	8524	SQ FT	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			8524		
514	00504	13	MAN HOUR	GRINDING FINs, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			13		
514	10000	7	EACH	FINAL INSPECTION REPAIR			7		
516	13600	14	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	14				
517	70000	315	FT	RAILING (TWIN STEEL TUBE)			315		
SPEC	51822300	373	FT	STEEL DRIP STRIP			373		
519	11101	20	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN				20	3/9
606	13000	750	FT	GUARDRAIL, TYPE 5				750	
606	22010	3	EACH	ANCHOR ASSEMBLY, TYPE E-98				3	
606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T				1	
606	32160	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST				4	
630	02100	15	FT	GROUND MOUNTED SUPPORT, NO. 2 POST				15	
630	80100	2	SQ FT	SIGN, FLAT SHEET, 730.20				2	
843	50000	50	SQ FT	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR				50	



APPROACH PAVEMENT SHOWN,
TRAILING PAVEMENT SIMILAR

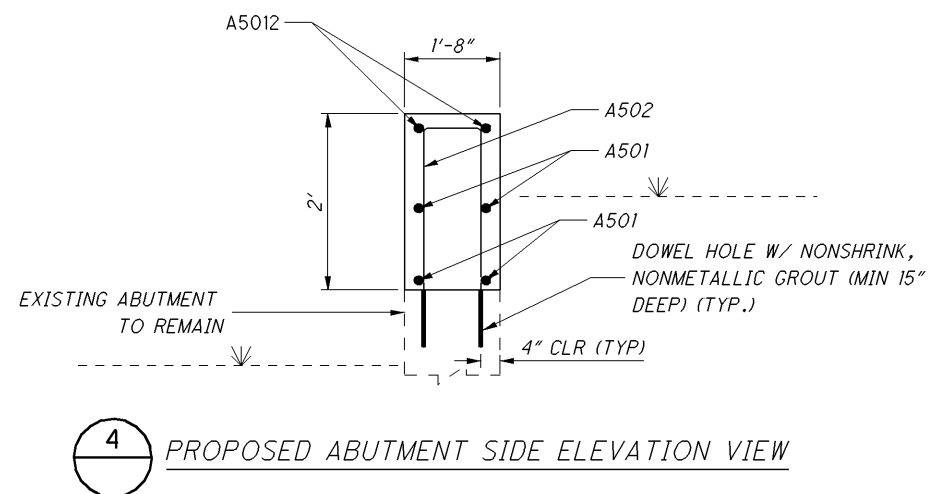
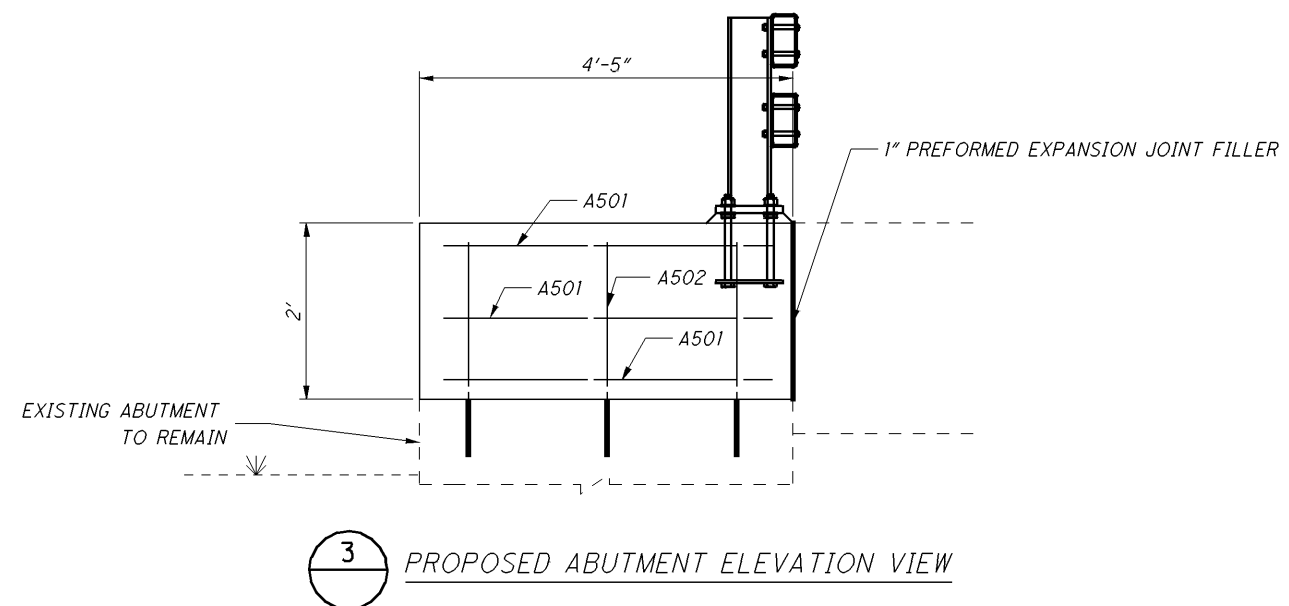
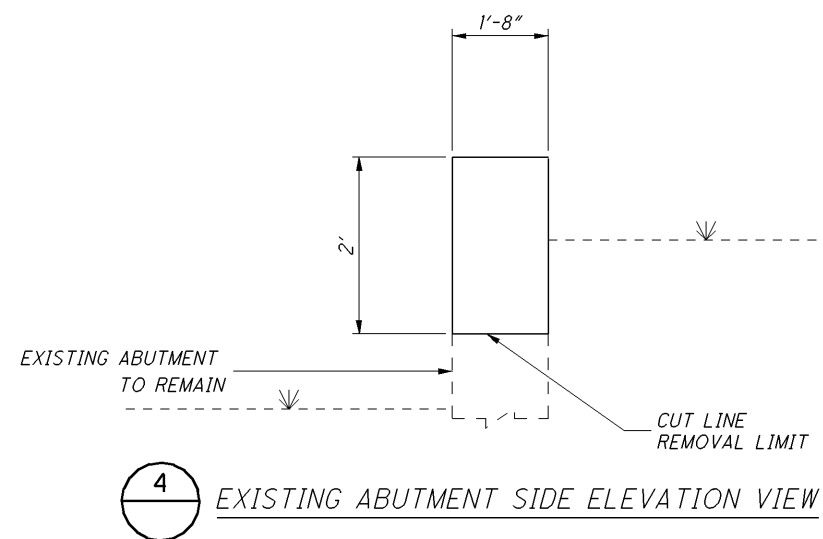
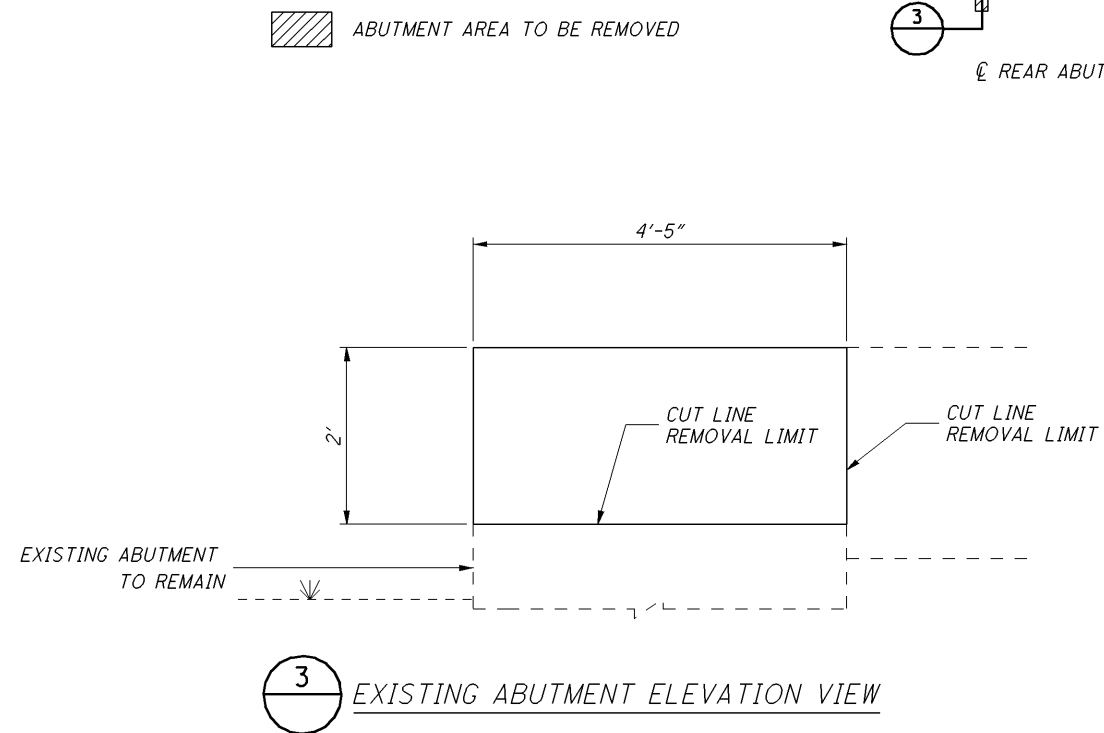
SUPERSTRUCTURE DETAILS

DESIGNED	DRAWN	REVIEWED	DATE
LMS	LMS	TJP	11-07-07
CHECKED	REVISED	STRUCTURE FILE NUMBER 7604831	

STA-93/212-
0.00/0.00
PID No. 25432

	5	9
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PID No. 25432

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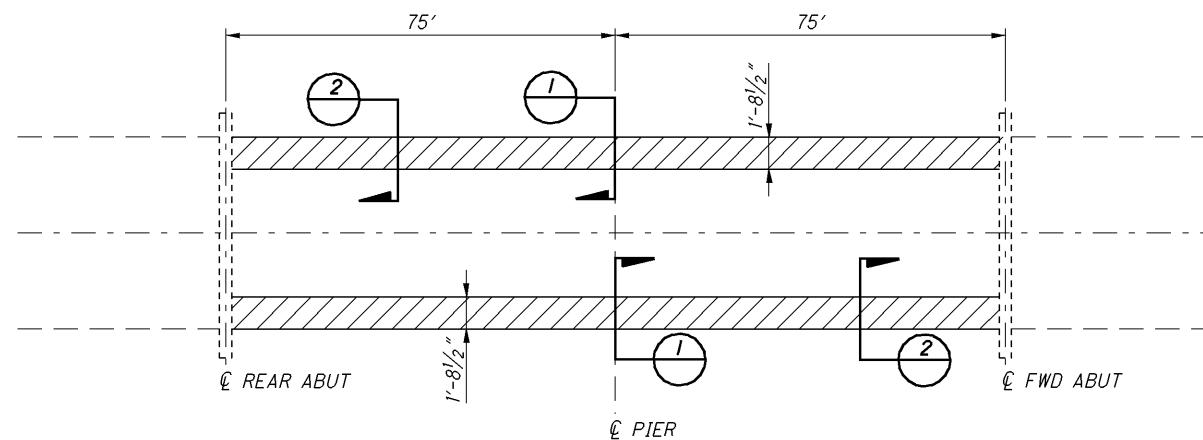
ABUTMENT REPLACEMENT
STA-93-0430
SUGAR CREEK

DESIGNED	LMS	CHECKED
DRAWN	LMS	REVISED
REVIEWED	TJP	STRUCTURE FILE NUMBER
DATE	11-07-07	7604831

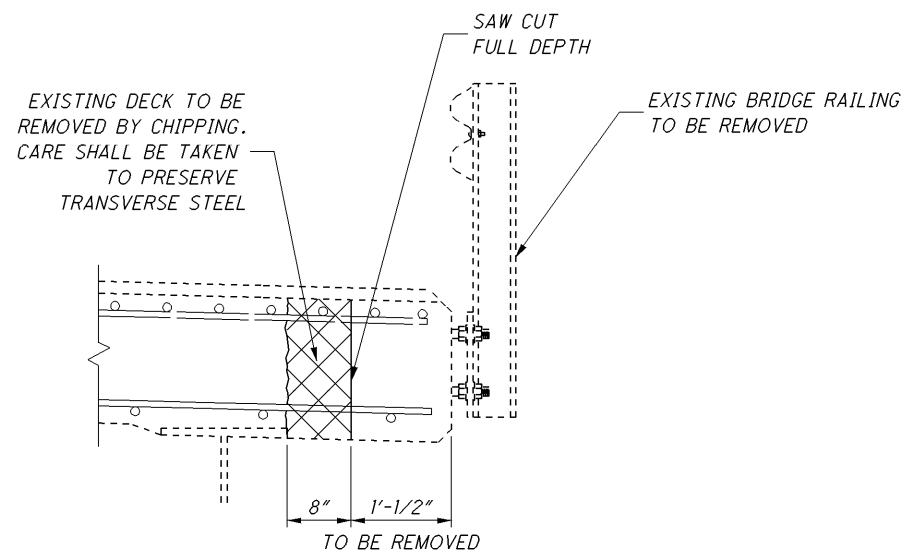
DESIGN AGENCY
ODOT --- DISTRICT 4
PRODUCTION

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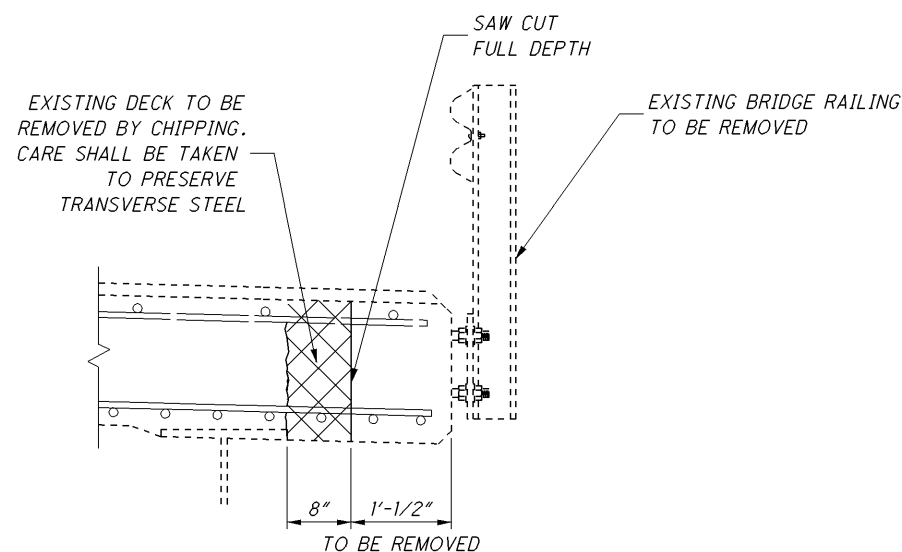
 DECK AREA TO BE REMOVED



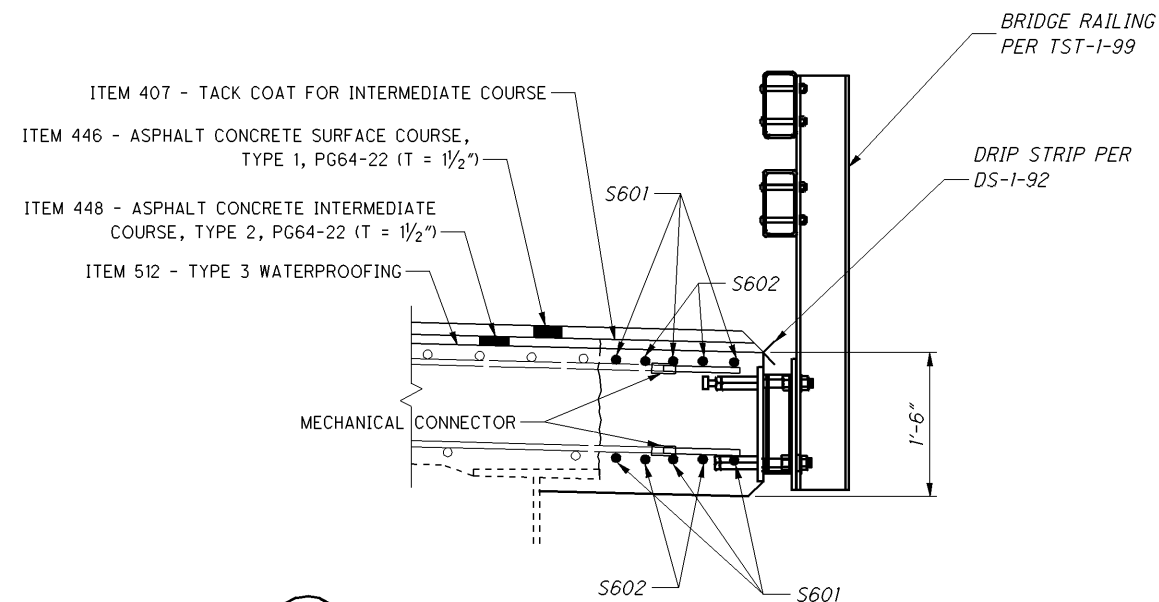
PLAN



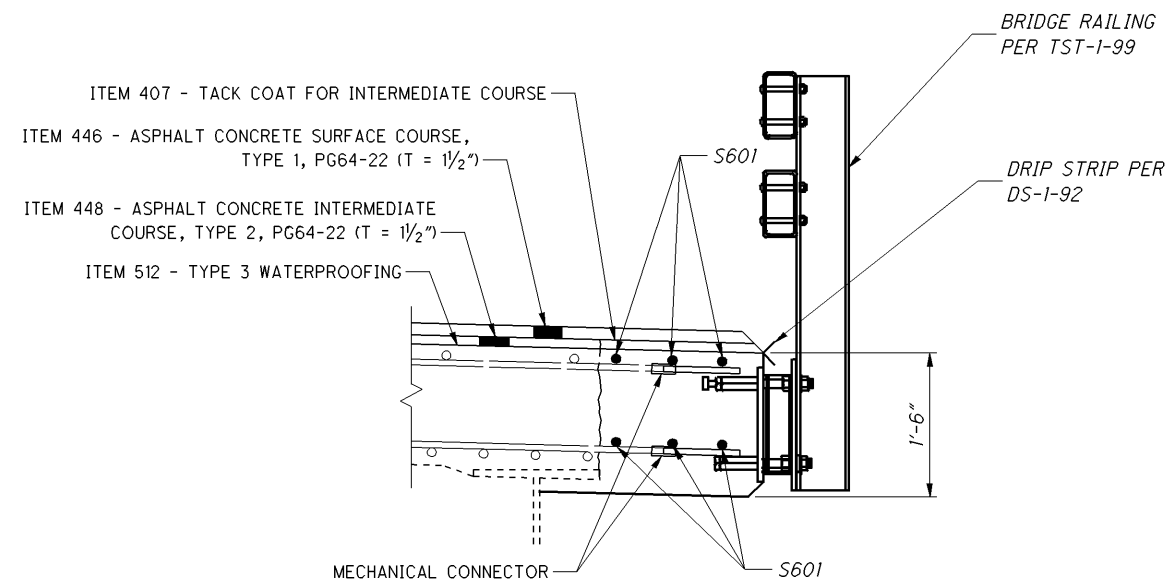
1 EXISTING PARTIAL SECTION AT PIER



2 EXISTING PARTIAL SECTION AT MIDSPAN AND ABUTMENTS



1 PROPOSED PARTIAL SECTION AT PIER



2 PROPOSED PARTIAL SECTION AT MIDSPAN AND ABUTMENTS

DECK EDGE REPLACEMENT

STA-93-0430
SUGAR CREEK

STA-93/212-
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PID No. 25432

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DESIGN AGENCY
ODOT --- DISTRICT 4
PRODUCTION

DATE
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STRUCTURE FILE NUMBER
7604831

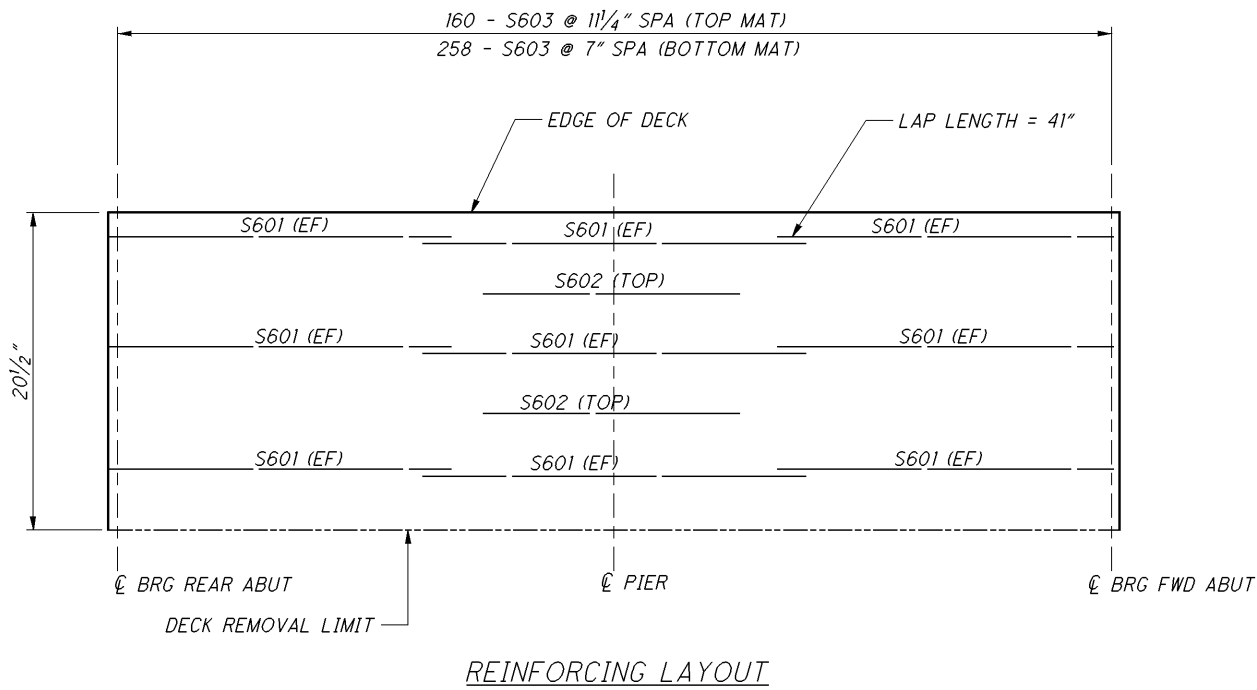
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MARK	NUMBER				LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS				
	REAR ABUT	FWD ABUT	SUPER	TOTAL				A	B	C	D	E
S601			36	36	52'-6"	2839						
S602			4	4	30'-0"	181						
**S603			836	836	10 1/2"	1099						
	SUPERSTRUCTURE SUB-TOTAL					4119						
A501	12	12		24	4'-1"	103						
*A502	6	6		12	6'-11"	87	2	3'-1"	1'-0"	3'-1"		
	ABUTMENT SUB-TOTAL					190						
	GRAND TOTAL					4309						

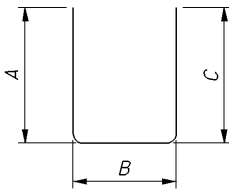
THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TOOUT UNLESS OTHERWISE INDICATED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORNCING STEEL TO BE EPOXY COATED



REINFORCING STEEL IS TYPICAL FOR BOTH SIDES OF DECK.
ALL REINFORCING CLEARANCES ARE A MINIMUM OF 2".

* BARS ARE TO BE DOWEL WITH NONSHRINK NONMETALLIC GROUT
** MECHANICAL CONNECTORS REQUIRED



TYPE-2

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NOTES:

- EPOXY-URETHANE SEALER SHALL BE USED UNLESS SHOWN OTHERWISE
- DETAILS E, F, G AND H ALSO APPLY TO CONCRETE SLAB BRIDGES

SEALING OF BEAM SEATS: IF THE BEAMS SEATS ARE SEALED WITH AN EPOXY OR NON-EPOXY SEALER PRIOR TO SETTING THE BEARINGS, DO NOT APPLY SEALER TO THE CONCRETE SURFACES UNDER THE PROPOSED BEARING LOCATIONS. IF THESE LOCATIONS ARE SEALED, REMOVE THE SEALER TO THE SATISFACTION OF THE ENGINEER PRIOR TO SETTING THE BEARINGS. THE DEPARTMENT WILL NOT PAY FOR THIS REMOVAL.

**STA-93/212-
0.00/0.00
PID No. 25432**

STA-93-0430
SUGAR CREEK

ODOT --- DISTRICT 4
PRODUCTION

REVIEWED	TJP	DATE	11-07-07
STRUCTURE FILE NUMBER		7604831	

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