DIVISION	STATE FED. RD.	PROJECT	
2	OHIO		

59
89

ROS-35-35.44
JAC-35-0.00

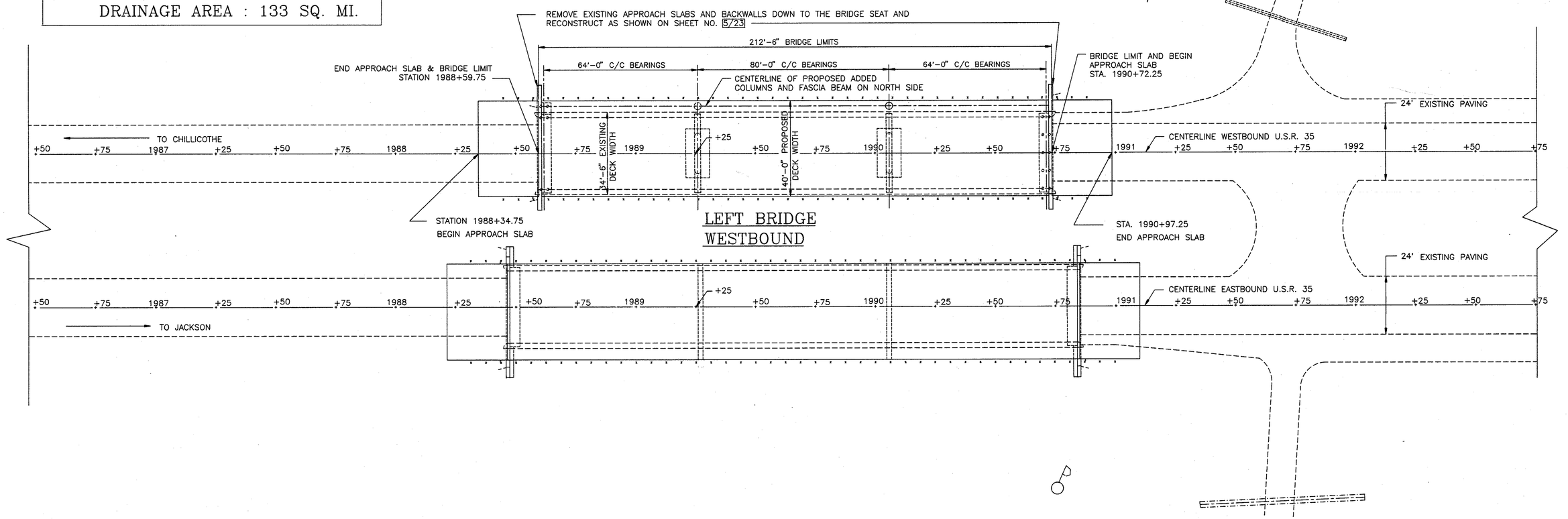
EXISTING STRUCTURE DATA

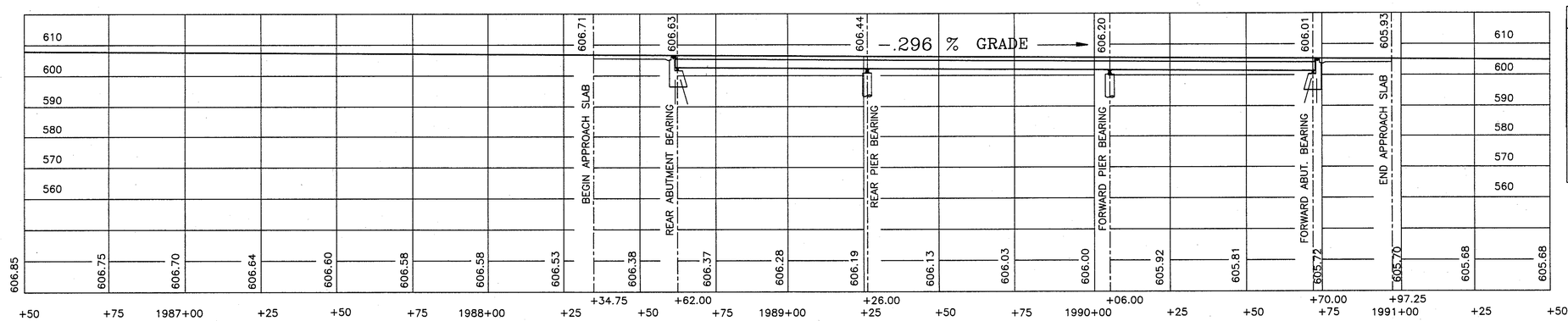
TYPE:	Continous Steel Beam with Reinforced Concrete Deck
PIERS:	Reinforced Concrete Solid T Type on Piling
ABUTMENTS:	Reinforced Concrete Capped Pile
SPANS:	64'-0",80'-0",64'-0"
ROADWAY:	30'-0" f/f curbs
ALIGNMENT:	Tangent
SKEW:	None
WEARING SURFACE:	2-1/2" Bituminous
LOADING:	CF- 2000 (57)
CONDITION:	Poor
DATE BUILT:	1930-1959 SFN 7102674

DRAINAGE AREA : 133 SQ. MI.

BENCH MARK

TOP WING WALL WESTBOUND BR.
FWD. ABUTMENT OF EXISTING BRIDGE
ELEV. = 606.15





THE PROFILE GRADE AND ELEVATIONS SHOWN ARE FOR THE LEFT BRIDGE ONLY.

PROPOSED STRUCTURE DATA

TYPE:	Continous Steel Beam with Reinforced Concrete Deck
PIERS:	Reinforced Concrete Solid T Type on Piling & Reinforced Concrete Column
ABUTMENTS:	Reinforced Concrete Capped Pile
SPANS:	64'-0", 80'-0", 64'-0"
ROADWAY:	40'-0" f/f Railings
ALIGNMENT:	Tangent
SKEW:	None
WEARING SURFACE:	1" Monolithic Concrete
LOADING:	HS-20-44 & Alternate Military
APPOARCH SLABS:	AS-1-81, 25'-0" Long
DECK PROTECTION:	Epoxy Coated Reinforcing Steel

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

1/23

SITE PLAN AND PROFILE

BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Laurence A. Wilke	10/2/90	

R035SPLN 1=20'

GENERAL SUMMARY

STRUCTURE OVER 20 FT. SPAN

CALC:	DATE:	FHWA REGION	STATE	PROJECT	
CHKD:	DATE:	5	OHIO		

60/89

ROS-35-35.44
JAC-35-0.00

ITEM	ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL	PARTICIPATION	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
202				LUMP		202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN, AS PER PLAN ✹
202			425			202	38601	425	LIN.FT.	BRIDGE RAILING REMOVED FOR STORAGE, AS PER PLAN
503				LUMP		503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING
503				LUMP		503	21300	LUMP		UNCLASSIFIED EXCAVATION
505				LUMP		505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION
507	163	340				507	21100	503	LIN.FT.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES
509	4,319	5,539	60,404			509	15800	70,262	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60
510	160					510	11100	160	EACH	DOWEL HOLE
511			270			511	31600	270	CU.YD.	CLASS S CONCRETE, SUPERSTRUCTURE
511			270			511	33404	270 ✹	CU.YD.	CLASS S CONCRETE, SUPERSTRUCTURE (USING SHRINKAGE COMPENSATING CEMENT) 701.08 ✹
511		15				511	41500	15	CU.YD.	CLASS C CONCRETE, PIER ABOVE FOOTINGS
511	63					511	45700	63	CU.YD.	CLASS C CONCRETE, ABUTMENT
511		14				511	46500	14	CU.YD.	CLASS C CONCRETE, FOOTING
512	39					512	44400	39	SQ.YD.	TYPE B WATERPROOFING
SPECIAL	149		204			SPECIAL	51267502	353	SQ.YD.	SEALING OF CONCRETE SURFACES (EPOXY) ✹
SPECIAL			71	17		SPECIAL	51273000	88	SQ.YD.	TREATING CONCRETE BRIDGE DECKS WITH HMWM RESIN ✹
513	1,210 (Rockers)	1,145 (Rocker & Bolster)	46,861			513	11100	49,216	POUND	STRUCTURAL STEEL, AISC CATEGORY I
SPECIAL			12,295			SPECIAL	51400050	12,295	SQ.FT.	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU ✹
SPECIAL			12,295			SPECIAL	51400056	12,295	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU ✹
SPECIAL			12,295			SPECIAL	51400060	12,295	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU ✹
SPECIAL			12,295			SPECIAL	51400066	12,295	SQ.FT.	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU ✹
SPECIAL			2,443			SPECIAL	51400070	2,443		FIELD PAINTING OF NEW STEEL, SYSTEM OZEU ✹
SPECIAL			50			SPECIAL	51400504	50	HOURS	GRINDING FINS, TEARS, SLIVERS ✹
SPECIAL			LUMP			SPECIAL	514 26500	LUMP		HAZARDOUS WASTE MANAGEMENT ✹
SPECIAL			LUMP			SPECIAL	514 26510	LUMP		NON-HAZARDOUS WASTE MANAGEMENT ✹
516	80					516	11210	80	LIN.FT.	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL ✹
517			425.00			517	72300	425.00	LIN.FT.	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS) ✹✹
518	29					518	21101	29	CU.YD.	POROUS BACKFILL, AS PER PLAN
SPECIAL			419			SPECIAL	51822300	419	LIN.FT.	STEEL DRIP STRIP
519	50					519	11100	50	SQ.FT.	PATCHING CONCRETE STRUCTURE

NOTES:

✹ REMOVAL INCLUDES DECK, ~~APPROACH SLABS~~ AND PORTIONS OF ABUTMENTS AS DETAILED IN THE PLAN

✹ THIS IS AN ALTERNATE BID ITEM

✹ SEE PROPOSAL NOTE

REVISED 3-15-91

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

2/23

GENERAL SUMMARY
STRUCTURE OVER 20' SPAN
BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Laurence A. Wills	10/23/90	

ROS35STQS 1=1

FHWA REGION	STATE	PROJECT		61
5	OHIO			89

ROS-35-35.44
JAC-35-0.00

GENERAL NOTES

REFERENCE:

Reference shall be made to Standard Drawings:

AS-1-81 dated 11-27-81
SD-1-69 dated 6-12-69
DBR-2-73 dated 4-10-73
RB-1-55 dated 2- 2-59
EXJ-4-87 dated 1- 5-89

DESIGN SPECIFICATIONS:

This structure modification conforms to "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" adopted by the American Association of State Highway and Transportation Officals, 1989, and the Ohio "Supplement" to these specifications.

DESIGN DATA:

Design Loading – HS-20-44 & Alternate Military

Concrete Class C – 4000 psi compressive strength

Concrete Class S – 4500 psi compressive strength

Reinforcing Steel – ASTM A615, A616, or A617 Grade 60, yield strength 60,000 psi minimum

Structural Steel – A36, yield strength 36,000 psi

DECK PROTECTION METHOD – Epoxy coated top and bottom reinforcing mat. Epoxy sealant on selected deck surfaces. HMWM crack sealant on selected surfaces.

MONOLITHIC WEARING COURSE – Is assumed, for design purposes, to be 1" thick.

PILE DESIGN LOADS:

The design load for the abutment piles is 27 tons per pile and the design load for the pier piles is 40 tons per pile.

EXISTING STRUCTURE VERIFICATION:

Details and dimensions shown on these plans pertaining to the existing structure have been obtained 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 513.02.

Contract bid prices shall be based upon a recognition of the uncertainties described above and upon a prebid examination of the existing structure by the Contractor. However, all project work shall be based upon actual details and dimensions which have been verified by the Contractor in the field.

EXISTING BRIDGE PLANS:

Detail drawings of the existing bridges may be inspected in the District Bridge Office in Chillicothe, or in the Bureau of Bridges at 25 South Front Street in Columbus, Ohio.

BRIDGE RAIL REMOVED FOR STORAGE:

The steel bridge posts, steel tubular backup, and steel tubular backup hardware shall be carefully removed for salvage and be stored on the project to be picked up by State Forces. All other material including the steel deep beam railing shall become the property of the Contractor. This work shall be paid for under Item 202 – Bridge Rail Removed For Storage.

ITEM SPECIAL – SEALING OF CONCRETE SURFACES, EPOXY:

This item shall include all labor and material required to seal the concrete surfaces with epoxy sealer which shall be Federal Color Standard No. 37722 (WHITE). The estimated quantities that are set up in the plan are to be used to seal the bridge concrete surfaces as follows:

DECK EDGES: Seal the exposed deck edges as detailed in the plan.

ABUTMENTS: Seal all exposed surfaces of the abutments including the backwalls, seats, breastwalls, and wingwalls down to the groundline.

WELDED ATTACHMENTS:

Welded attachments of supports for concrete deck finishing machines may be made to areas of the beam flanges designated "COMPRESSION". Attachments shall not be made to areas designated "TENSION". Fillet welds to compression flanges shall not be closer than 1" from the edge of the flange, be no more than 2" long, and not smaller than the minimum size required by AASHTO. See Sheet No. 7/23

ITEM SPECIAL – FIELD PAINTING OF EXISTING STEEL:

The field painting of existing steel shall include, but not be limited to, the existing structural steel that is shown on the plans. It is the intent of the plan to paint all structural steel that was previously painted and the new structural steel with the same paint system.

The completeion date (month and year) of the finish coat shall be stenciled in a contrasting color on the outside of the right outside beam next to the rear abutment. The letters "O.Z.E.U." shall precede the date painted.

The color of the finish coat shall be Blue FS-595A – 15450.

None of the painting shall delay the opening of the bridge to traffic.
STEEL GRIT ABRASIVE OPTION: ON THIS PROJECT, THE CONTRACTOR MAY USE AN ABRASIVE CONTAINING LESS THAN 1% FREE SILICA.

ITEM SPECIAL – FIELD PAINTING OF NEW STEEL, SYSTEM OZEU:

The new structural steel that is furnished and installed as detailed on the the plan shall have the same SURFACE PREPARATION, COMPLETE PRIME COAT, INTERMEDIATE COAT, AND COMPLETE FINISH COAT in the field as the existing steel in conformance with the proposal note "FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU". For purposes of field painting, newly erected steel shall be considered existing steel. The cost of cleaning and painting the new steel with the OZEU paint system as detailed above shall be included in a single bid item as "ITEM SPECIAL – FIELD PAINTING OF NEW STEEL, SYSTEM OZEU".

COFFERDAMS, CRIBS AND SHEETING:

Any sheet piling required to construct the approach slabs half width while maintaining traffic in the adjacent lane shall be included in this Lump Sum Bid Item.

PATCHING CONCRETE STRUCTURES:

This is an estimated quantity and may be partially or entirely nonperformed as determined by the Engineer.

ITEM 611 – REINFORCED CONCRETE APPROACH SLAB, AS PER PLAN:

The approach slabs shall be constructed half width in order to maintain traffic as detailed in the plans. The reinforcing steel shall be epoxy coated and the transverse bars shall be joined with mechanical connectors at the construction joint similar to those used in the deck and abutments. All of this work shall be included for payment in Item 611 – Reinforced Concrete Approach Slab, As Per Plan.

DECK REINFORCING STEEL:

Transverse bar lengths used are for pay quantity. The lengths shall be adjusted to suit the specific approved machanical connector provided.

REINFORCING STEEL SAMPLES:

Refer to CMS Sections 106.03, 700, 709.01 through 709.05 and 708.08. Sufficient additional reinforcing steel shall be replaced at random in the structure by additional steel, spliced in accordance with 509.08.

ESTIMATED QUANTITIES:

Specific locations and usage of some of the estimated quantities set up on these plans to be used as directed by the Engineer shall be incorporated into the final change order governing completion of this project. Estimated quantities of materials shall not be ordered for delivery to the project unless authorized by the Engineer.

REMOVAL OF EXISTING CONCRETE:

When no longer needed to maintain traffic, the existing deck, approach slabs, abutment backwalls & wing walls, and deck railing shall be removed, as per plan. Suitable waste masonry may be placed on the slopes as directed by the Engineer. All other removed material shall become the property of the Contractor, unless otherwise indicated in these plans, and shall be removed from the site by him. This item is included for payment in Item 202.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

3/23

GENERAL NOTES
STRUCTURES OVER 20' SPAN
BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Lawrence A. Wills	10/4/90	

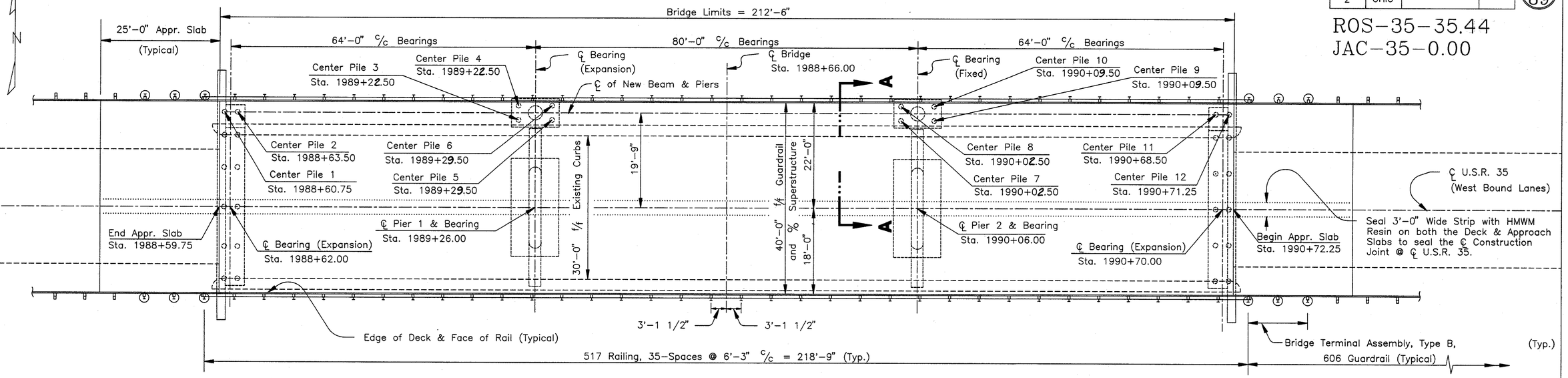
REVISED 3-15-91

R035GN 1=1

DIVISION	STATE FED. RD.	PROJECT	
2	OHIO		

62
89

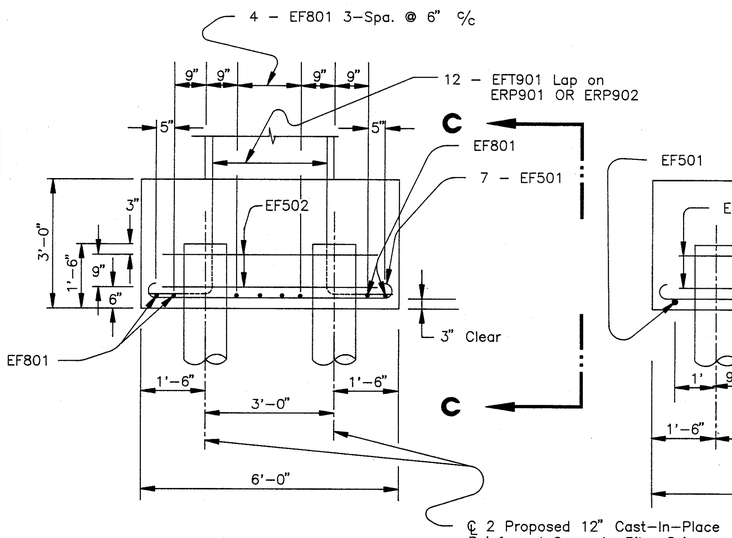
ROS-35-35.44
JAC-35-0.00



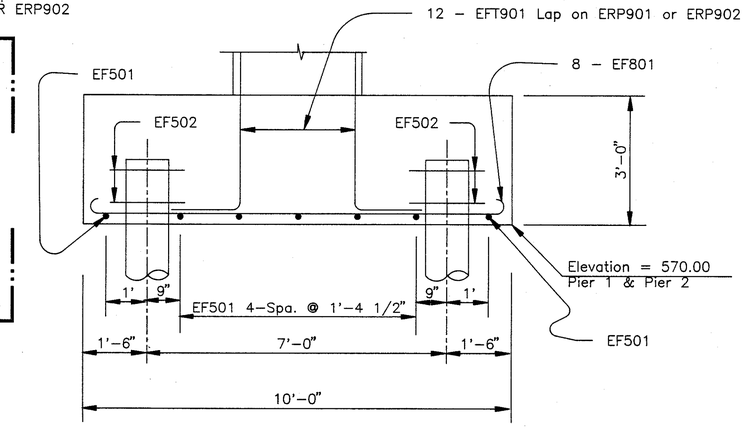
GENERAL PLAN

NOTE:

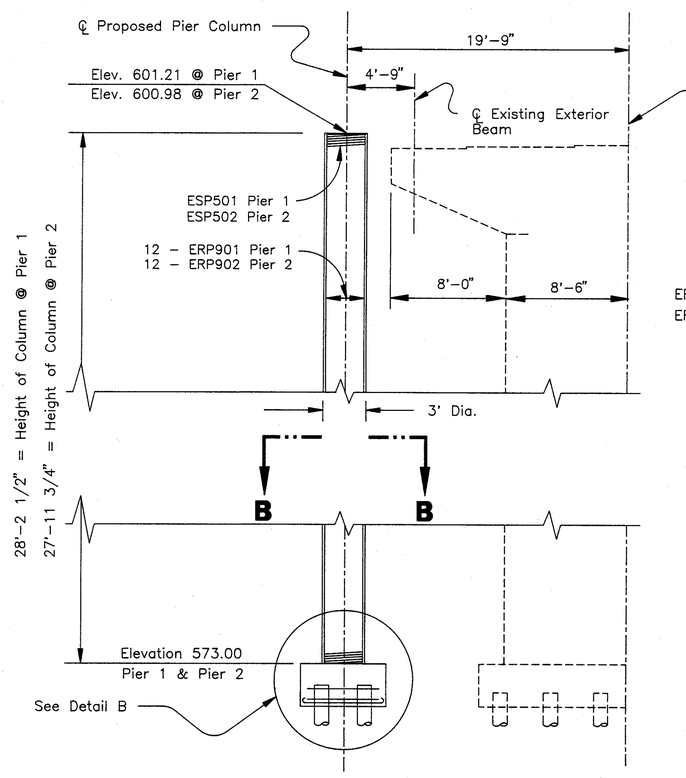
SPIRAL REINFOCING BARS ESP501 AND ESP502: The length shown in the Reinforcing Steel List for the spiral bars is the distance from the top of the stem less 2" clearance. The "No. Turns" is the length divided by the pitch, plus 3 turns, expressed as the nearest whole number. Spiral reinforcing bars shall not have deformations but shall in all other respects conform to Item 509. One and one half,1-1/2, closed coils shall be provided at the ends of each spiral unit. Four steel channel, tee, or angle spacers, weighing approximately 1.01 lbs. per linear ft. shall be equally spaced along the perphery of the coil, the number of pounds of these spacers, based on 1.01 lbs. per lin. ft. is included in the quantity for the spiral bars.



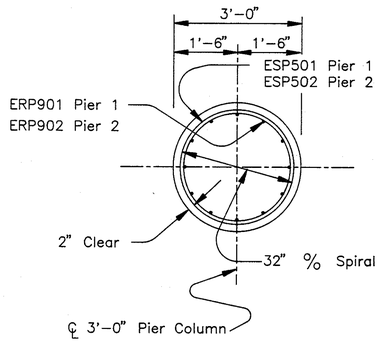
DETAIL B



SECTION C-C



SECTION A-A PARTIAL ELEVATION OF PIER



SECTION B-B

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

4/23

GENERAL PLAN & PIER DETAILS

BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

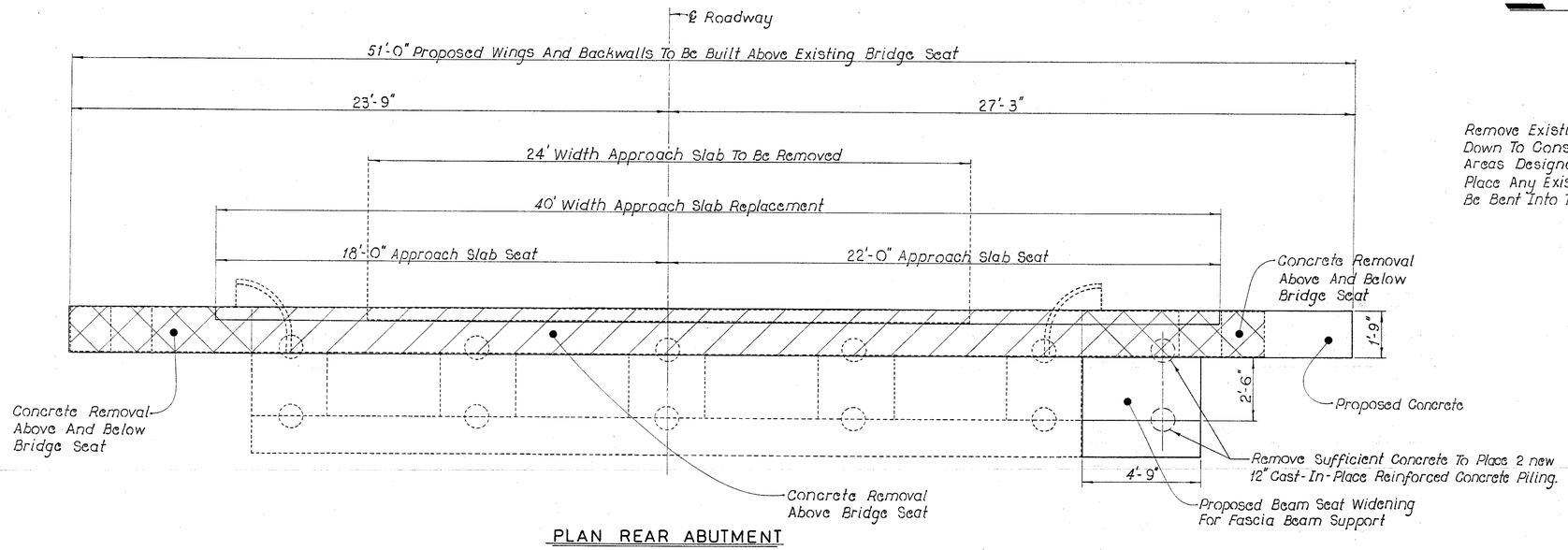
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R035GPLN 1=10'

FHWA REGION	STATE	PROJECT	
5	OHIO		

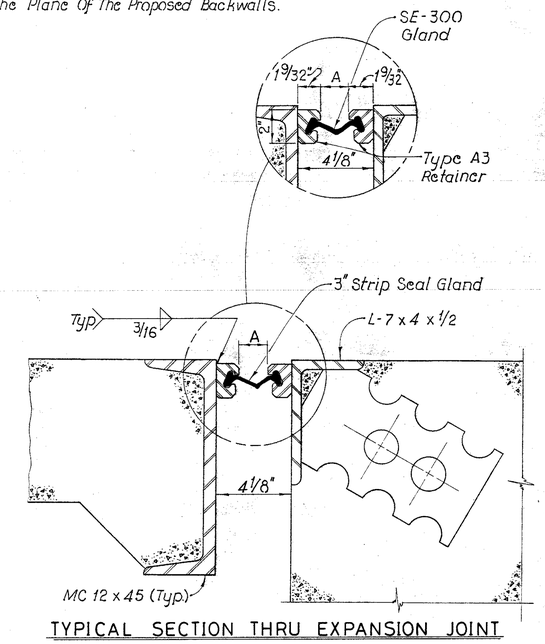
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ROS-35-35.44
JAC-35-0.00



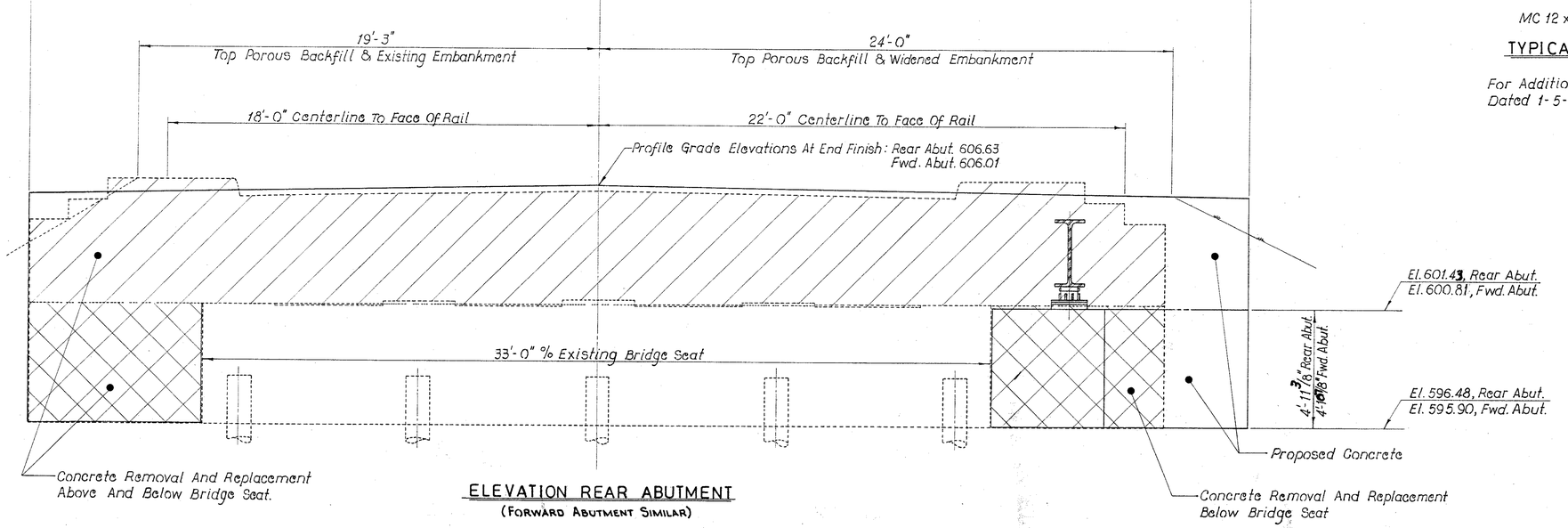
PLAN REAR ABUTMENT

Remove Existing Approach Slab And Backwall Down To Construction Joint Except In The Areas Designated For Total Removal. Leave In Place Any Existing Reinforcing Steel That Can Be Bent Into The Plane Of The Proposed Backwalls.



TYPICAL SECTION THRU EXPANSION JOINT

For Additional Details See Std. Dwg. EXJ-4-87 Sheets 1 Thru 5 Dated 1-5-89, For Dimension A See Table This Sheet.



ELEVATION REAR ABUTMENT
(FORWARD ABUTMENT SIMILAR)

DIMENSION A		
Temperature	Rear Abut.	Fwd. Abut.
30° F.	1 15/16"	1 13/16"
40° F.	1 13/16"	1 3/4"
50° F.	1 11/16"	1 3/4"
60° F.	1 9/16"	1 11/16"
70° F.	1 1/2"	1 5/8"
80° F.	1 3/8"	1 9/16"
90° F.	1 1/4"	1 1/2"

For Additional Notes And Details See Sheet 6/23

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGES

5/23

EXISTING ABUTMENT ALTERATION DETAILS

BRIDGE No ROS-35-3765 L.

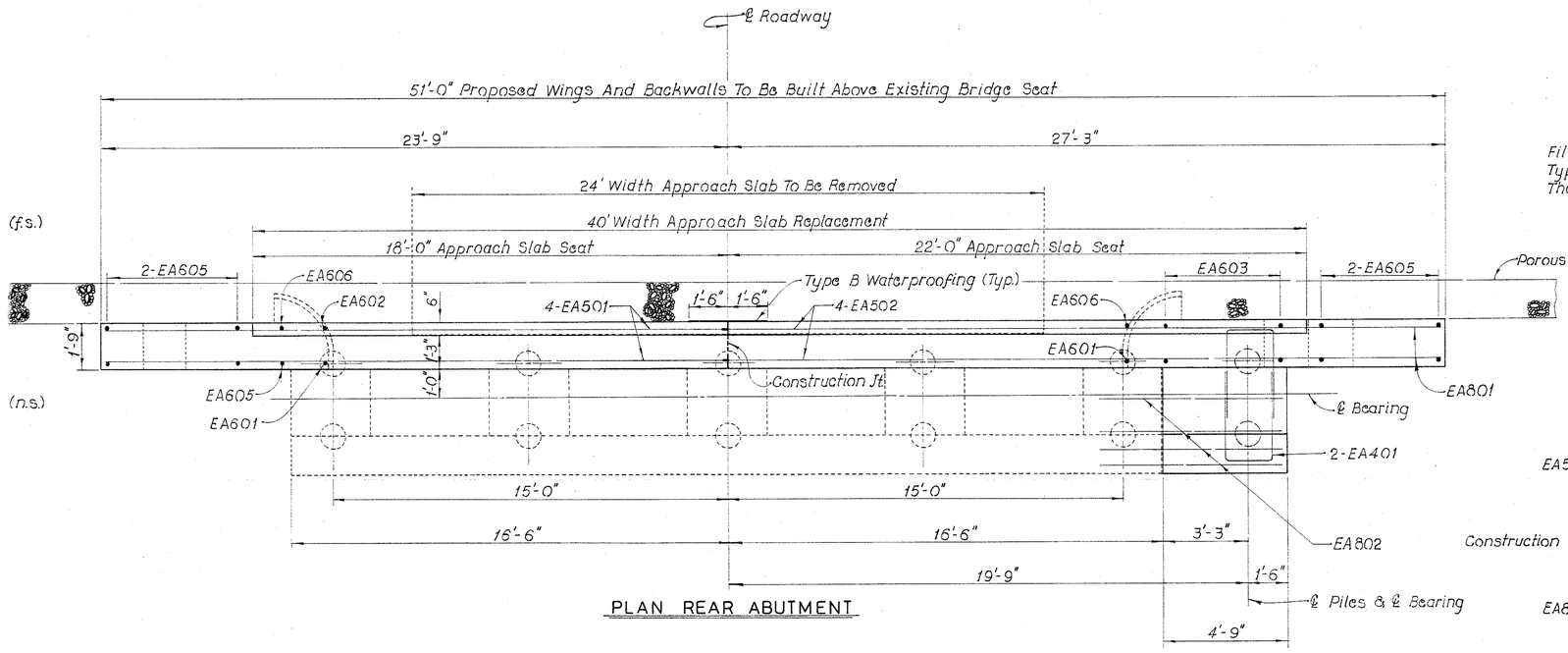
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M.S.C.			D.A.B.		10-25-90	

HILLS CO. 1000 #10-7155 11-79

FHWA REGION	STATE	PROJECT	
5	OHIO		

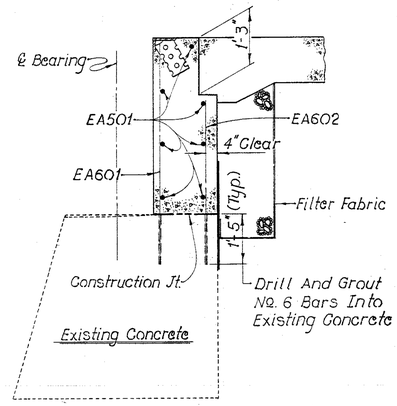
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JAC-35-0.00

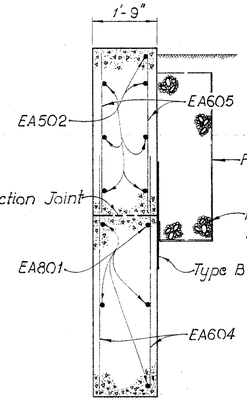


PLAN REAR ABUTMENT

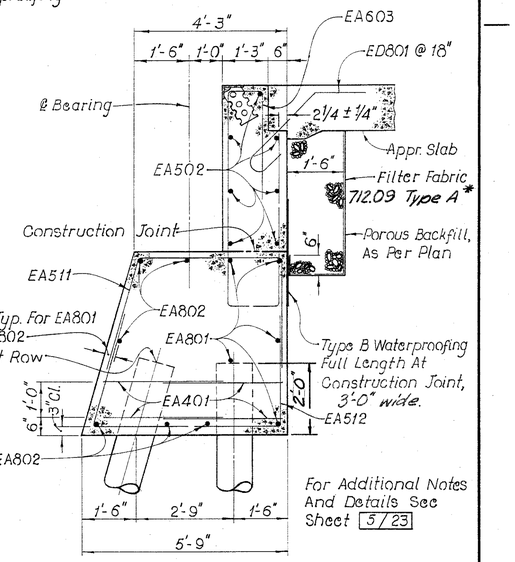
Filter Fabric Shall Conform To 712.09 Type A And Shall Be Included With The Porous Backfill For Payment.



SECTION A-A



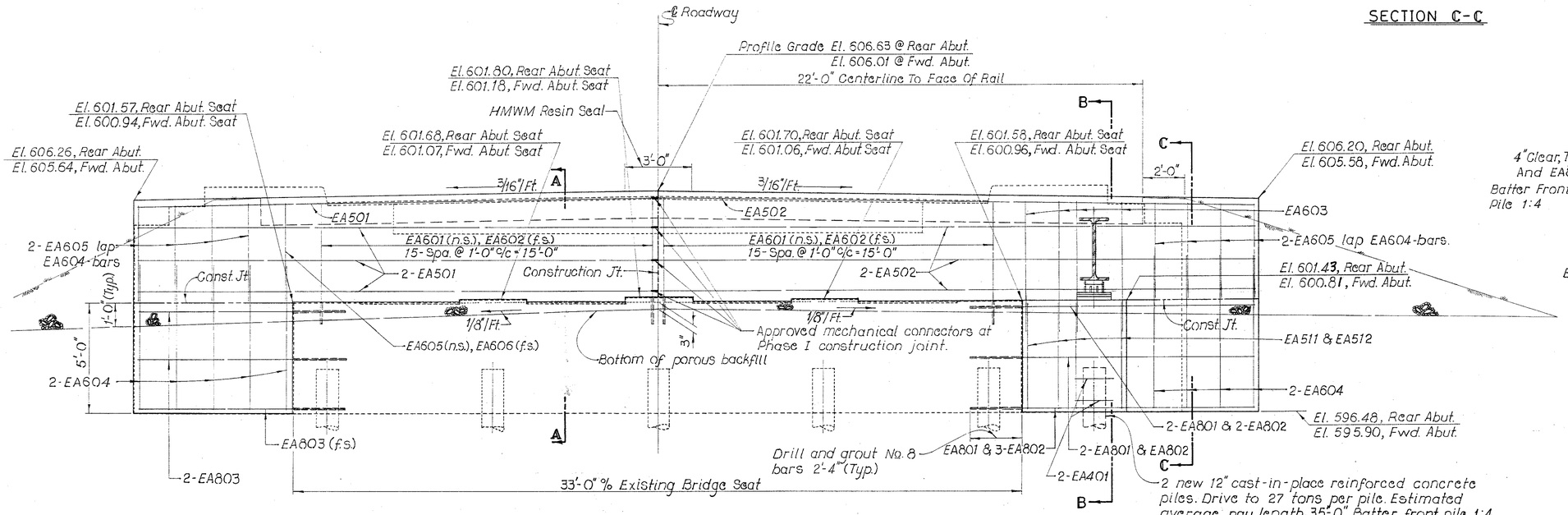
SECTION C-C



SECTION B-B

* Included with Porous Backfill for Payment.

POROUS BACKFILL, AS PER PLAN shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes.



ELEVATION REAR ABUTMENT
(FORWARD ABUTMENT SIMILAR)

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGES

6 / 23

ABUTMENT DETAILS

BRIDGE No. ROS-35-3765 L.

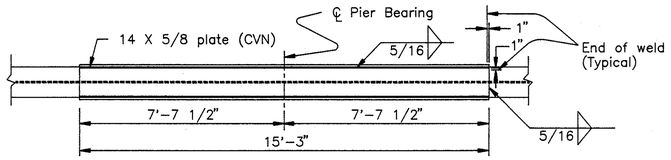
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
M.S.C.	M.S.C.	M.S.C.	D.A.B.	Laurence A. Wiles	10-25-90	

HILLS CO. 1000 #10-7188 11-79

DIVISION	STATE FED. RD.	PROJECT	
2	OHIO		

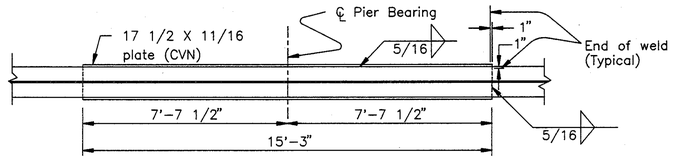
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JAC-35-0.00



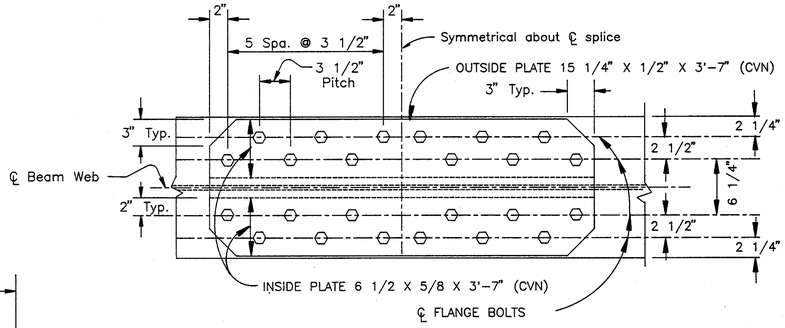
TOP FLANGE
MOMENT PLATE DETAIL

SECTION A-A



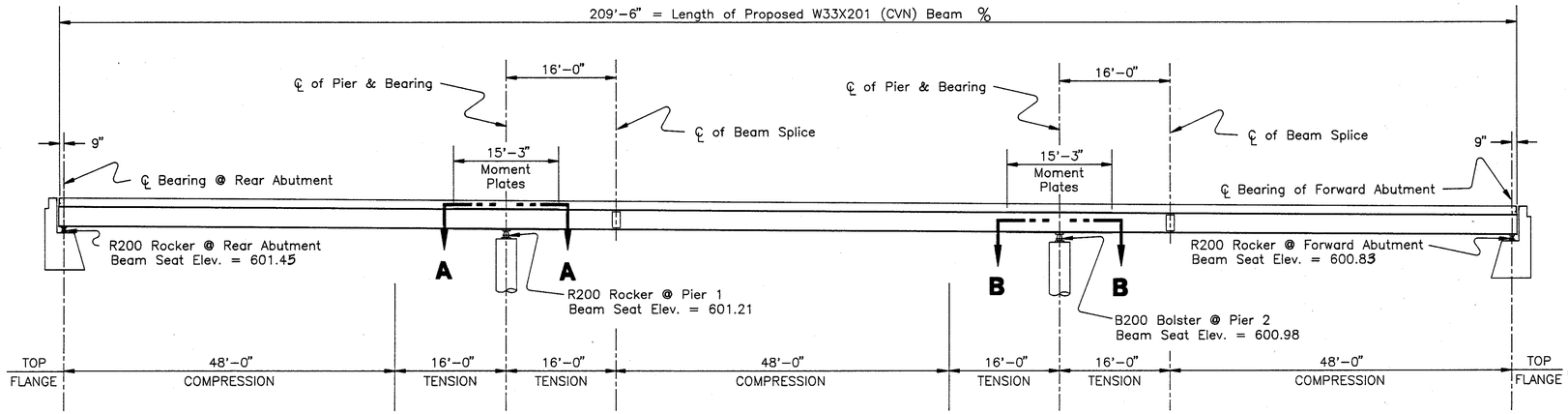
BOTTOM FLANGE
MOMENT PLATE DETAIL

SECTION B-B

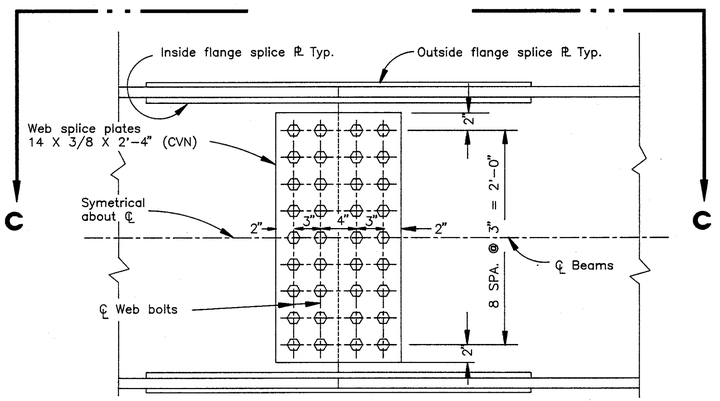


FLANGE SPLICE

VIEW C-C

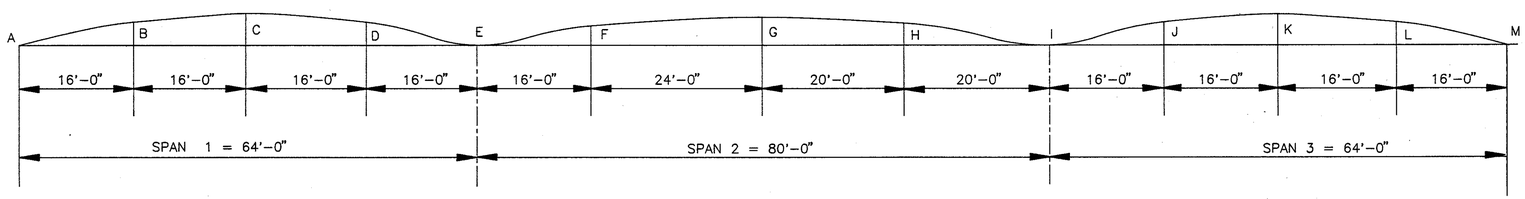


EVEVATION OF PROPOSED W33X201 (CVN) FASCIA BEAM



WEB SPLICE

BEAM SPLICE DETAIL



CAMBER DIAGRAM

	℄ Bearing	SPAN 1			℄ Bearing	SPAN 2			℄ Bearing	SPAN 3			℄ Bearing
LOCATION	A	B	C	D	E	F	G	H	I	J	K	L	M
DEFLECTION DUE TO WEIGHT OF STEEL	0"	1/16"	1/16"	1/16"	0"	1/16"	1/8"	1/16"	0"	1/16"	1/16"	1/16"	0"
DEFLECTION DUE TO REMAINING DEAD LOAD	0"	5/16"	3/8"	3/16"	0"	3/16"	7/16"	1/4"	0"	3/16"	3/8"	5/16"	0"
SUM OF DEFLECTIONS = REQUIRED SHOP CAMBER	0"	3/8"	7/16"	1/4"	0"	1/4"	9/16"	5/16"	0"	1/4"	7/16"	3/8"	0"
RAISE SCREED AT POINTS INDICATED TO COMPENSATE FOR DEFLECTION DUE TO WEIGHT OF CONCRETE	0"	5/16"	3/8"	3/16"	0"	3/16"	7/16"	1/4"	0"	3/16"	3/8"	5/16"	0"

NOTES:

Fasteners shall be 1" Dia. ASTM A-325 High Strength Bolts.

FABRICATION AND ASSEMBLY:
Beam ends at splices shall be cut and fit as per plan details and Std. Dwg. SD-1-69. The opening between beam ends after assembly shall not exceed 1/4".

STEEL NOTCH TOUGHNESS REQUIREMENT:
Where a shape or plate is designated (CVN) the material shall meet the specified minimum notch toughness requirements as specified in 711.01 of CMS.

For details of cross framing see sheet 8/23 and Std. Dwg. SD-1-69 for additional details not shown in plans.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

7/23

STRUCTURAL STEEL DETAILS

BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

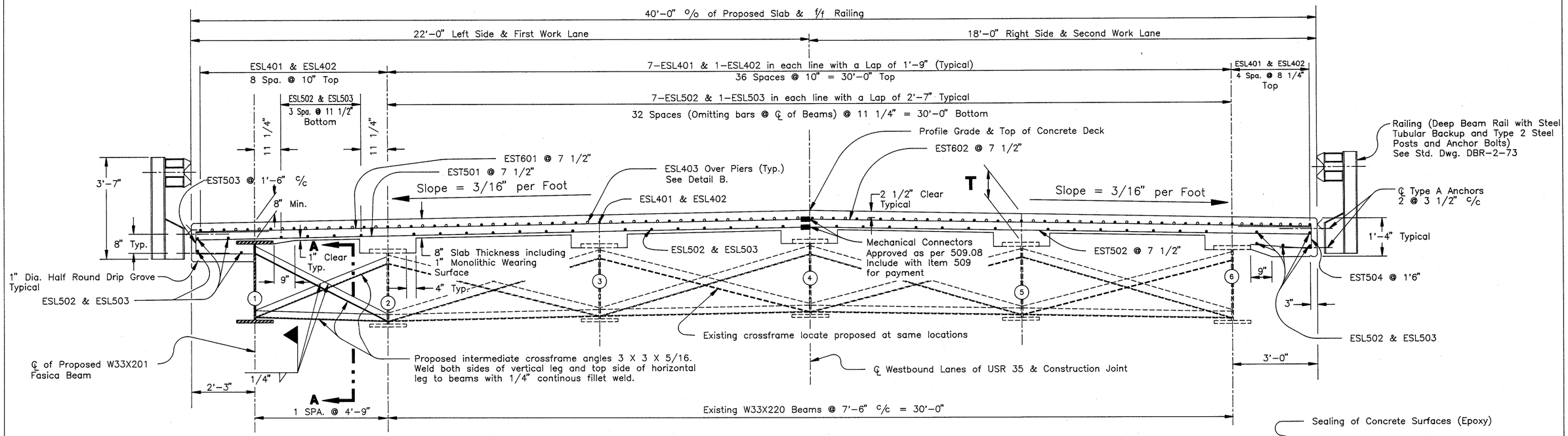
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Lawrence A. Wise	10/10/90	

R035BSMP 1=10'

FHWA REGION	STATE	PROJECT	
5	OHIO		

66/89

R0S-35-35.44
JAC-35-0.00

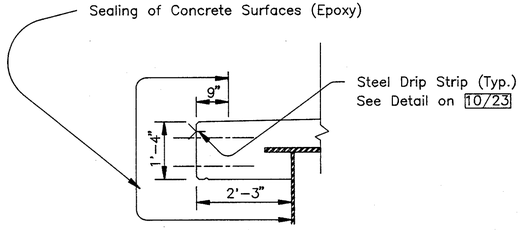


TRANSVERSE DECK SECTION

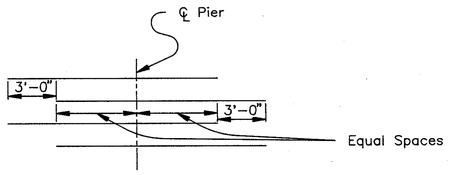
LOOKING EAST WITH STATIONING

T = Deck Thickness Over Existing Beams At Abutments

Rear = 13 3/8"
Fwd. = 13 7/8"

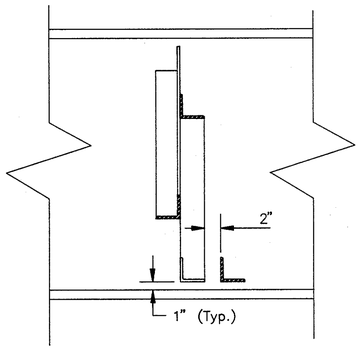


DETAIL OF LEFT DECK EDGE SEALING

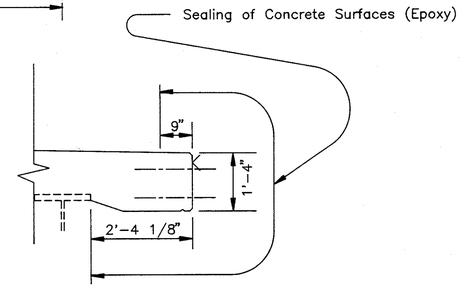


DETAIL B

SHOWING STAGGER OF ESL403 BARS OVER PIERS
ESL403 Bars Shall be Equaly Spaced Between ESL401 Bars



SECTION A-A



DETAIL OF RIGHT DECK EDGE SEALING

NOTE:

DECK SLAB DEPTH:

The distance shown from the top of the deck slab to top of steel beam is the design dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not be parallel to the finished grade.

HAUNCH WIDTH:

The quantity of deck concrete to be paid for shall be based on the haunch widths shown above.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

8/23

SUPERSTRUCTURE SECTIONS AND DETAILS

BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Lawrence A. Wills	10/13/90	

R035DS1 1=20

PROPOSED FINISHED DECK ELEVATION CHART

LOCATION	Rear End Finish	SPAN 1			℄ PIER 1	SPAN 2			℄ PIER 2	SPAN 3			Forward End Finish
		B	C	D		F	G	H		J	K	L	
Elevation of Left Edge of Deck 22'–0" Left of Profile Grade *	606.29	606.24	606.19	606.14	606.10	606.04	605.98	605.92	605.86	605.81	605.76	605.72	605.67
Profile Grade *	606.63	606.58	606.53	606.49	606.44	606.38	606.32	606.26	606.20	606.15	606.10	606.06	606.01
Elevation of Right Edge of Deck 18'–0" Right of Profile Grade *	606.35	606.30	606.25	606.21	606.16	606.10	606.04	605.98	605.92	605.87	605.82	605.78	605.73

* NOTE:

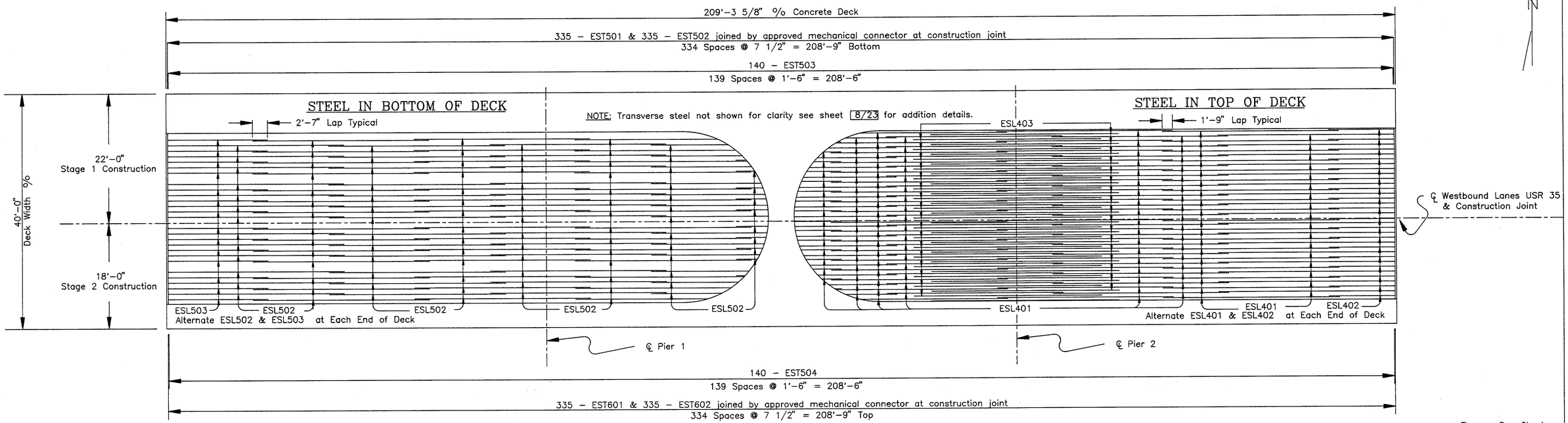
Obtain Proposed Deck Elevations by adjusting screed to allow for dead load defflection due to weight of concrete shown on Sheet 7/23 .

DIVISION	STATE FED. RD.	PROJECT	
2	OHIO		

67
89

ROS–35–35.44
JAC–35–0.00

N



DECK REINFORCING PLAN VIEW

REINFORCING STEEL LIST

NOTE: All reinforcing bars shall be epoxy coated

ABUTMENTS

MARK NO.	REAR	FWD.	TOTAL NO.	LENGTH	SHP.	WEIGHT
EA401	4	4	8	8'–3"	B	44
EA501	7	7	14	23'–7"	S	344
EA502	7	7	14	27'–1"	S	395
EA511	4	4	8	10'–0"	B	83
EA512	4	4	8	11'–5"	B	95
EA601	32	32	64	6'–0"	S	577
EA602	32	32	64	4'–8"	S	449
EA603	4	4	8	15'–3"	B	183
EA604	18	18	36	6'–10"	S	370
EA605	17	17	34	4'–6"	S	230
EA606	1	1	2	3'–2"	S	10
EA801	5	5	10	12'–11"	S	345
EA802	6	6	12	6'–11"	S	222
EA803	5	5	10	9'–5"	S	251
ED801	27	27	54	5'–0"	B	721

TOTAL ABUTMENTS 4,319 POUNDS

PIERS

MARK NO.	No. 1	No. 2	TOTAL NO.	LENGTH	SHP.	WEIGHT
EF501	7	7	14	6'–10"	B	100
EF502	8	8	16	14'–1"	B	235
EF801	8	8	16	11'–6"	B	491
ERP901	12		12	28'–0"	S	1,142
ERP902		12	12	27'–9"	S	1.132
EFT901	12	12	24	10'–10"	B	884

SPIRAL REINF. STEEL @26.977 #/FT. +25.803

MARK	NO.	CORE DIA. % SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
ESP501	1	32"	28'–0"	4 1/2"	75 *	781
ESP502	1	32"	27'–9"	4 1/2"	74 *	774

* plus 1 1/2 turns at each end

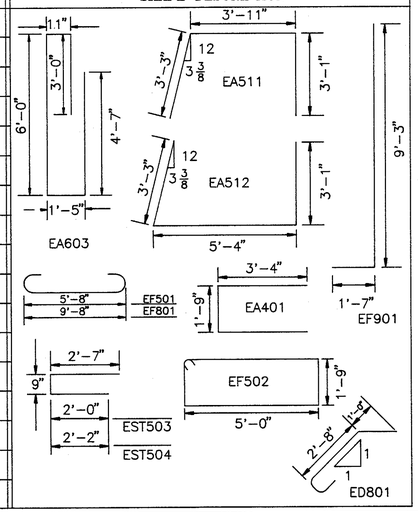
TOTAL PIERS 5,539 POUNDS

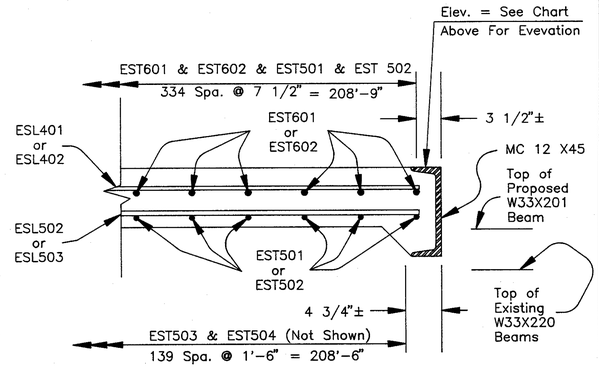
SUPERSTRUCTURE

MARK NO.	NO. LINES AND BARS	LENGTH	SHP.	WEIGHT
ESL401	49 X 7 = 343	30'–0"	S	6,874
ESL402	49 X 1 = 49	11'–2"	S	366
ESL403	OVER PIERS 48 X 2 = 96	32'–0"	S	2,052
ESL502	46 X 7 = 322	30'–0"	S	10,075
ESL503	46 X 7 = 322	17'–0"	S	5,709
EST501	335	21'–10"	S	7,629
EST502	335	17'–10"	S	6,231
EST503	140	5'–1"	B	742
EST504	140	5'–3"	B	767
EST601	335	21'–10"	S	10,986
EST602	335	17'–10"	S	8,973

TOTAL SUPERSTRUCTURE 60,404 POUNDS

SHAPE DESCRIPTION





For Additional Details See Std. Dwg. EXJ–4–87

PARTIAL SECTION THRU END OF DECK

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

9/23

SUPERSTRUCTURE DETAILS AND REINFORCING STEEL LIST

BRIDGE NO. ROS–35–3765 L
OVER LITTLE SALT CREEK

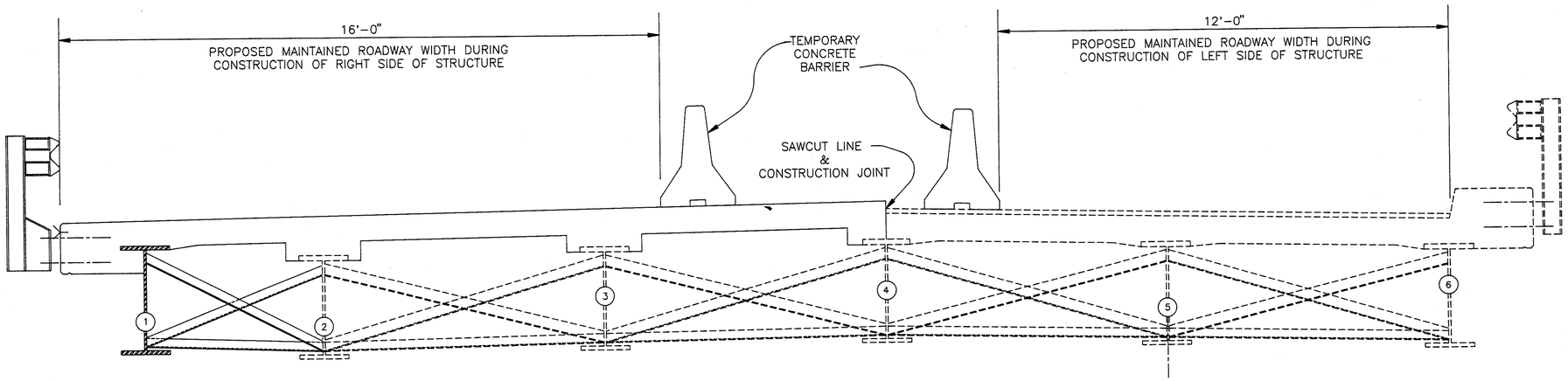
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Laurence A. Wills	10/18/90	

R035RSPL 1=8'

FHWA REGION	STATE	PROJECT	
5	OHIO		

68/89

ROS-35-35.44
JAC-35-0.00



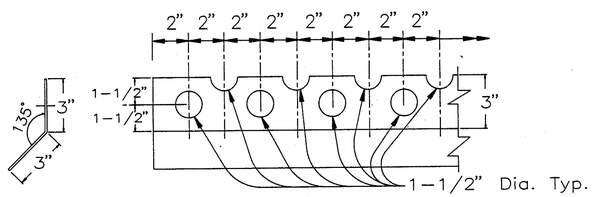
PROPOSED TRAFFIC LANES DURING CONSTRUCTION OF BRIDGE

STEEL DRIP STRIP

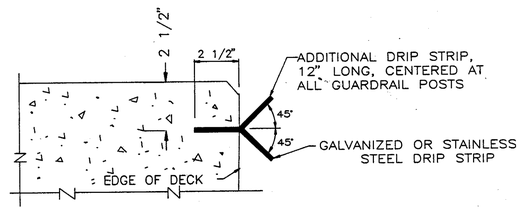
A folded sheet steel assembly shall be placed inside the deck form along the edges of the deck. It shall be installed along the full length of each side of the bridge. Laps shall be 3" Min. Place 12" length inverted at each post. Steel for the galvanized strips shall be 6" x 0.105" and shall meet the requirements of ASTM A568 with galvanizing in accordance with 711.02 Stainless steel shall be 20 gauge ASTM A167, Type 304, mill finish.

The final pay quantity shall be the actual overall length of drip strip. All laps and additional strips at posts shall not be measured for payment.

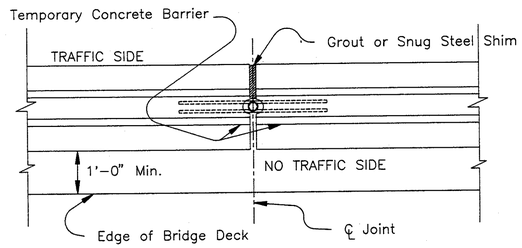
Payment shall be at the contract price bid for Item Special, Lin Ft., Steel Drip Strip, and shall include all materials, labor, tools and incidentals necessary to complete the item.



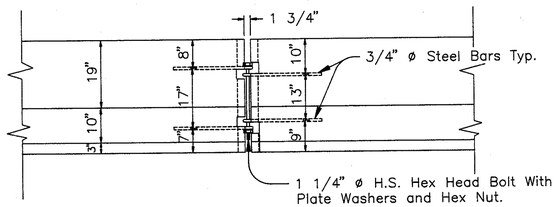
Holes in one leg of piece only



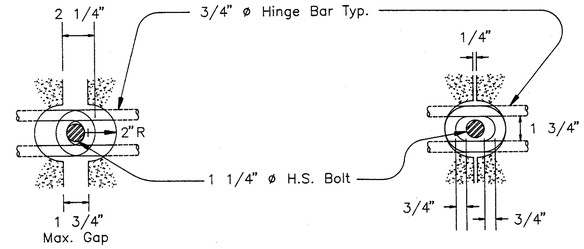
TYPICAL SECTION DRIP STRIP



PLAN AT JOINT



ELEVATION AT JOINT



OPEN JOINT (1) CLOSED JOINT (2)

JOINT CONNECTION DETAILS

(1) Barrier joints must be fully open before nut is tightened onto bolt and opening is either grouted or shimmed.

(2) Barrier should initially be placed closer together so that bolts can be easily inserted through hinge bar loops.

MODIFICATION DETAILS FOR TEMPORARY CONCRETE BARRIER

For additional details see Std. Dwg. MC-9A. These details pertain to barrier on the bridge superstructure.

NOTE: Item 622, Temporary Concrete Barrier, Modified is carried in the Roadway Quantities.

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE

10/23

MISCELLANEOUS DETAILS

BRIDGE NO. ROS-35-3765 L
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
MSC	MSC	MSC	GLB	Laurence A. Wills	10/23/90	

R035MISC 1=20

DIVISION	STATE FED. RD.	PROJECT	
2	OHIO		

69
89

ROS-35-35.44
JAC-35-0.00

EXISTING STRUCTURE DATA

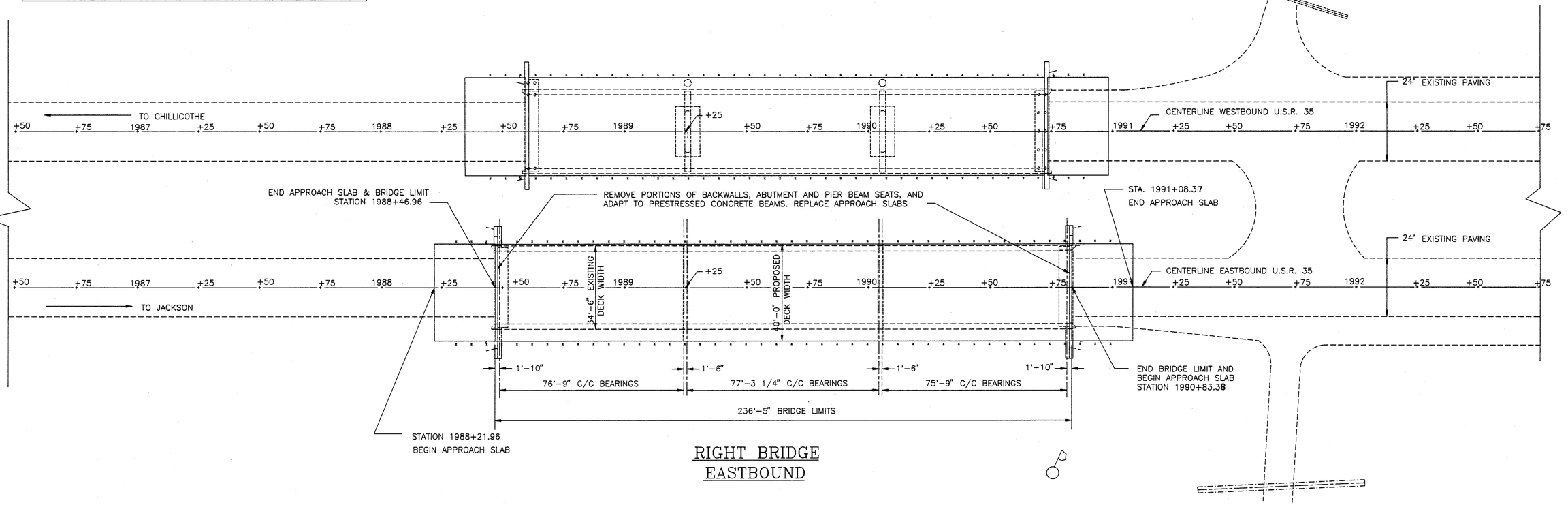
TYPE:	Steel Beam Simple with Reinforced Concrete Deck
PIERS:	Reinforced Concrete Open Bent (2 Column) on Piling
ABUTMENTS:	Reinforced Concrete Cantilever
SPANS:	76'-9",77'-3-1/4",75'-9"
ROADWAY:	30'-0" f/f curbs
ALIGNMENT:	2 Degree Curve Left
SKEW:	None
WEARING SURFACE:	2-1/2" Bituminous
LOADING:	CF- 2000 (57)
CONDITION:	Poor
DATE BUILT:	1959 SFN 7102674

DRAINAGE AREA : 133 SQ. MI.

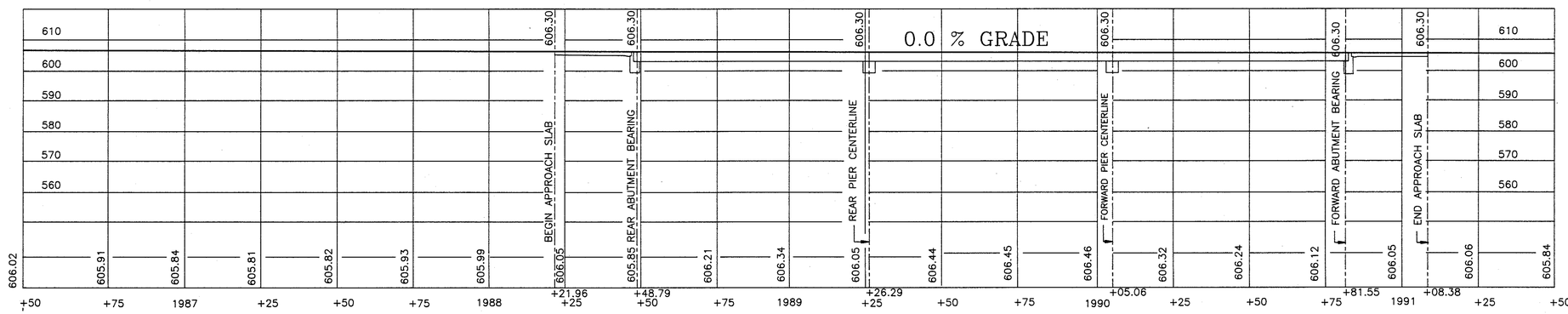
BENCH MARK

TOP WING WALL WESTBOUND BR.
FWD. ABUTMENT OF EXISTING BRIDGE
ELEV. = 606.15

N



RIGHT BRIDGE
EASTBOUND



THE PROFILE GRADE AND ELEVATIONS SHOWN ARE FOR THE RIGHT BRIDGE ONLY.

PROPOSED STRUCTURE DATA

TYPE:	Prestressed Composite Box Beams
PIERS:	Reinforced Concrete Open Bent (2 Column) on Piling
ABUTMENTS:	Reinforced Concrete Cantilever
SPANS:	76'-9",77'-3 1/4",75'-9"
ROADWAY:	40'-0" f/f Railings
ALIGNMENT:	2 Degree Curve Left
SKEW:	None
WEARING SURFACE:	1" Monolithic Concrete
LOADING:	HS-20-44 & Alternate Military
APPOARCH SLABS:	AS-1-81, 25'-0" Long
DECK PROTECTION:	Epoxy Coated Reinforcing Steel

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9 BRIDGE OFFICE
11/23

SITE PLAN AND PROFILE

BRIDGE NO. ROS-35-3765 R
OVER LITTLE SALT CREEK

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NLH	NLH	NLH	GLB	Laurence A. Willis	10/2/90	

R035SPLR 1=20