

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

RIC-71-13.66

WASHINGTON TOWNSHIP
MADISON TOWNSHIP
MIFFLIN TOWNSHIP
RICHLAND COUNTY

PROJECT DESCRIPTION

WIDENING AND RECONSTRUCTION OF 7.11 MILES OF INTERSTATE 71 TO PROVIDE A THIRD INSIDE LANE INCLUDING STRUCTURES, DRAINAGE, LIGHTING, SIGNING, AND PAVEMENT MARKINGS.

1997 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

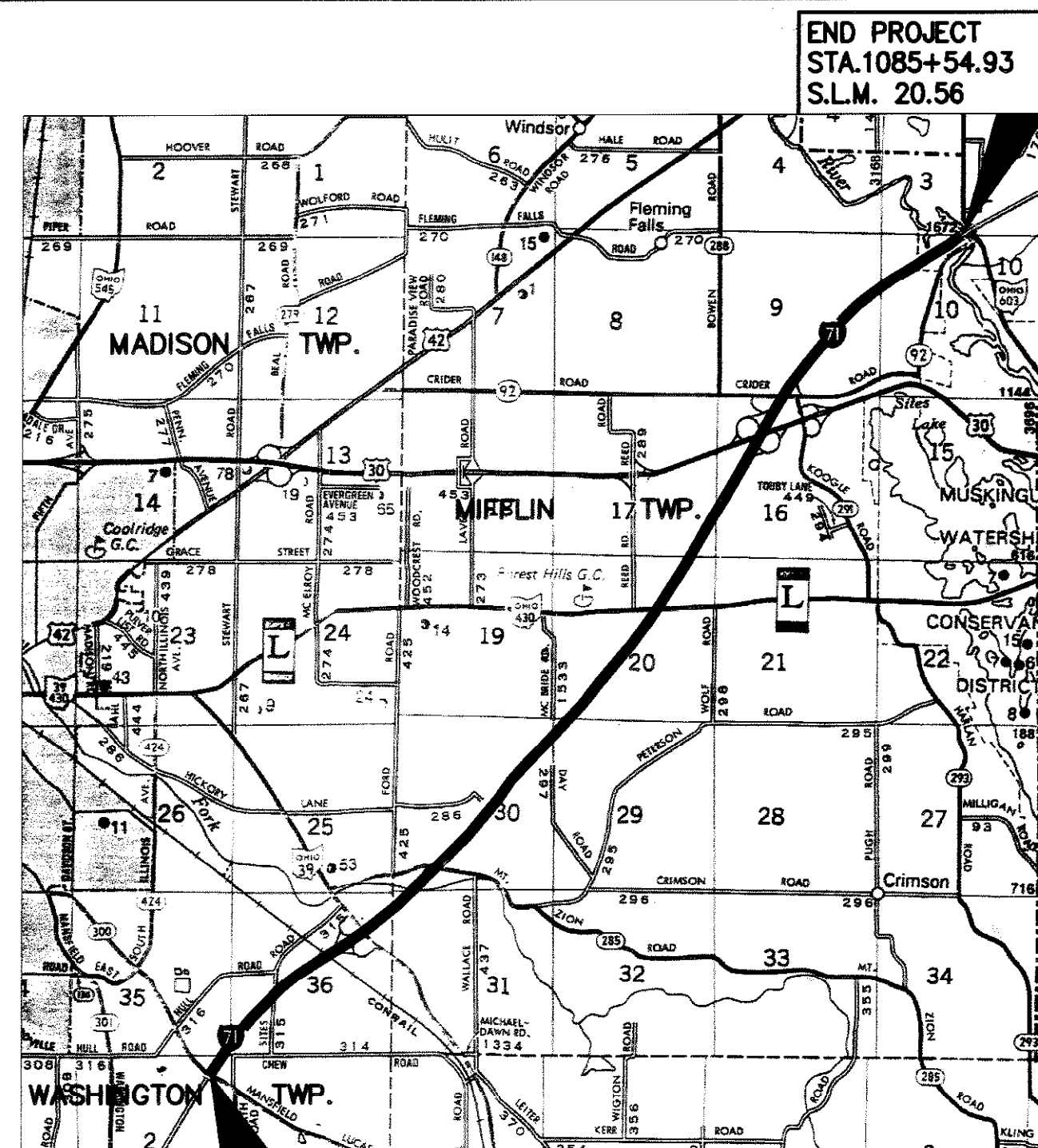
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF INTERSTATE 71 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES. THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF S.R. 430, AND THE INTERMITTENT CLOSING OF C.R. 92 AND C.R. 285. DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 81 & 82.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (I) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVEN NOTICE THEREOF ARE ERECTED.

APPROVED Thomas M. O'Leary
DATE 11-6-00 DISTRICT DEPUTY DIRECTOR

APPROVED Jordan Proctor
DATE 12-12-00 DIRECTOR, DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISIONS
WATERWAY PERMIT NWP # 3 & 14 DATE 11-24-99



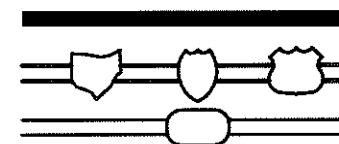
LOCATION MAP

LAT. 40°46'12" LONG. 82°25'17"

SCALE IN MILES



Portion to be Improved
State & Federal Routes
Other Roads



DESIGN DESIGNATION

	INTERSTATE 71	S.R. 430
CURRENT A.D.T. (2004)	= 45,440	= 1,500
DESIGN YEAR A.D.T. (2024)	= 63,230	= 1,580
D.H.V.	= 6,955	= 205
D	= 56%	= 56%
T24	= 25%	= 4%
DESIGN SPEED	= 70 mph	= 55 mph
LEGAL SPEED	= 65 mph	= 55 mph
FUNCTIONAL CLASSIFICATION	= RURAL INTERSTATE	= RURAL MAJOR COLLECTOR

DESIGN EXCEPTIONS

DESIGN FEATURE
NONE REQUIRED

UNDERGROUND UTILITIES
2 WORKING DAYS BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY



PLANS PREPARED BY

URS Greiner Woodward Clyde
Engineering & Architectural Services

AKRON COLUMBUS CLEVELAND

Frank A. Monago
FRANK A. MONAGO REG. ENGINEER No. 34380

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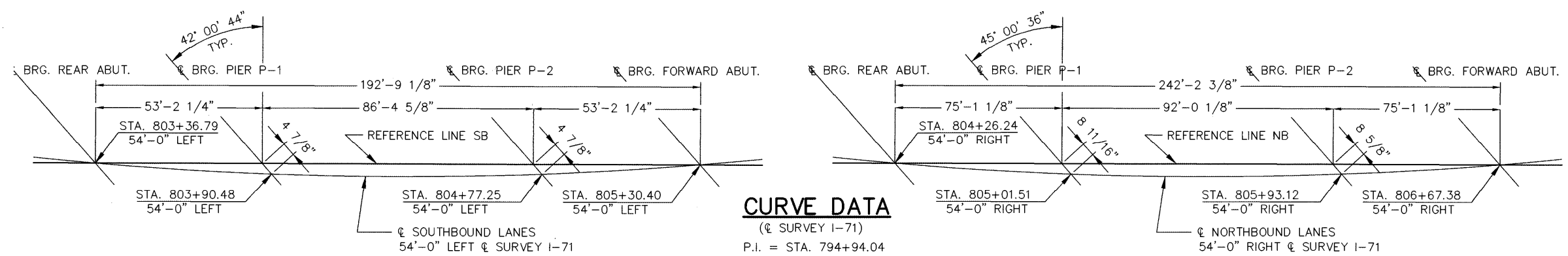
STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS												SUPPLEMENTAL SPECIFICATIONS									
BP-1.1	07-28-00	DM-1.1M	10-21-97	GR-1.1M	10-21-97	GR-5.1M	04-21-95	RM-4.3M	10-21-97	TC-51.11	9-30-94	HL-10.12M	5-01-95	HL-30.31M	5-01-95	DM-1.1M	10-21-97	816	04-21-97	905	04-01-98
BP-2.1	07-28-00	DM-1.2M	10-21-97	GR-1.2M	01-03-96	GR-5.2M	11-30-94	RM-4.5M	10-21-97	TC-51.12	1-03-94	HL-10.31M	3-31-95	HL-30.32M	8-14-96	GSD-1-96	2-12-97	830	10-21-97	907	10-21-98
BP-2.2	07-28-00	DM-2.1M	06-30-95	GR-1.3M	11-30-94	GR-5.3M	11-30-94	TC-12.30	1-20-84	TC-52.10	4-03-79	HL-20.11M	3-31-95	HL-40.10M	3-31-95	PCB-91	7-6-99	837	03-09-99	911	07-10-97
BP-2.5	07-28-00	DM-4.1M	06-30-95	GR-2.1M	10-21-97	GR-6.1M	01-03-96	TC-21.20	9-01-92	TC-52.20	4-03-79	HL-20.21M	8-31-94	HL-50.11M	3-31-95	SICD-1-96M	2-12-97	842	01-06-99	937	03-09-99
BP-3.1	07-28-00	DM-4.2M	06-30-95	GR-3.1M	10-21-97	GR-6.2M	01-03-96	TC-35.10	8-29-84	TC-61.10	4-05-82	HL-20.22M	3-31-95	HL-50.21M	8-31-94	SBR-1-99	1-12-99	844	01-06-99	954	09-09-97
BP-5.1	07-28-00	DM-4.3	04-29-99	GR-3.2M	10-21-97	HW-2.1M	07-12-95	TC-41.10	8-29-84	TC-65.10	7-07-95	HL-20.23M	3-31-95	HL-60.11M	5-01-95	VPF-1-90	3-20-95	855	06-30-98	880	06-15-99
BP-9.1	07-28-00	F-2.1	07-28-00	GR-4.2M	10-21-97	HW-2.2M	07-12-95	TC-41.20	6-21-94	TC-65.11	7-07-95	HL-60.21M	3-31-95	HL-60.21M	3-31-95			863	09-09-97	894	10-12-99
CB-3.1M	07-12-95	F-3.1	07-28-00	GR-4.3M	10-21-97	RM-1.1	04-29-99	TC-41.50	6-21-94	TC-71.10	9-10-91	HL-30.11M	3-31-95	HL-60.31M	3-31-95	LA-1.2	7-28-00	870	08-10-99		
CB-3.2M	07-12-95	F-3.3	07-28-00	GR-4.4M	11-30-94	RM-3.1M	10-21-97	TC-42.10	8-19-77	TC-72.20	2-26-82	HL-30.21M	5-01-95	AS-1-81	9-15-94			877	04-13-99		
CB-1.2M	07-12-95	F-3.4	07-28-00	GR-4.5	04-29-99	RM-4.2M	10-21-97	TC-42.20	3-26-79	HL-10.11M	5-01-95	HL-30.22M	3-31-95	BS-1-93	12-19-94			899	10-21-98		

FEDERAL PROJECT NO. TE 21-6010 (65)
PID NO. 11378
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
RIC - 71 - 13.66
1
633

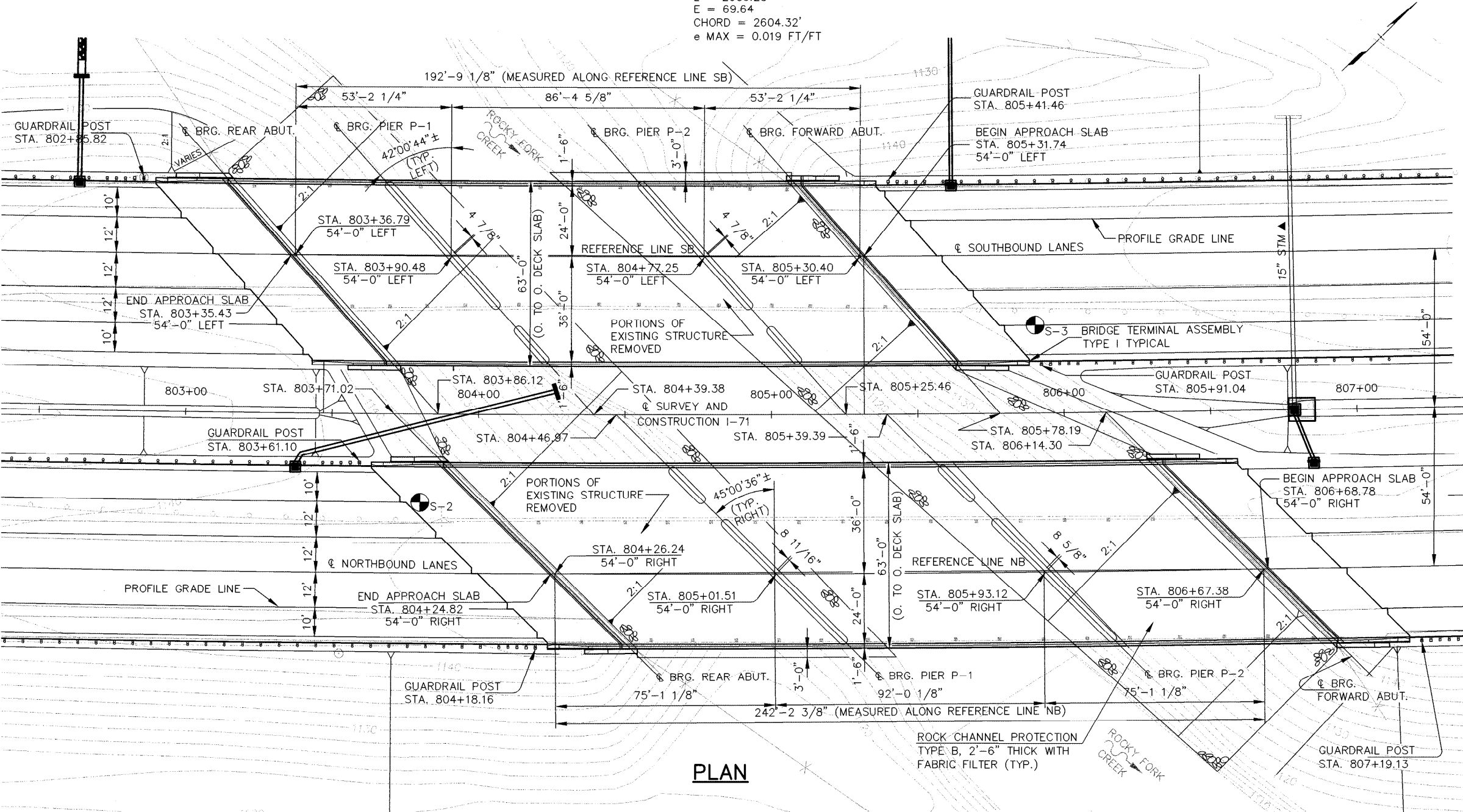
RIC-1R71-13.66
010116 PID-11378
Dist 3 3/7/01
User: jrn81152
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CURVE DATA
(& SURVEY I-71)

P.I. = STA. 794+94.04
 $\Delta = 12^{\circ}10'35''$ L.T.
 $D_c = 0^{\circ}28'00''$
 $R = 12277.67'$
 $T = 1309.55'$
 $L = 2609.23'$
 $E = 69.64'$
 $CHORD = 2604.32'$
 $e_{MAX} = 0.019$ FT/FT



NOTES

① EARTHWORK LIMITS SHOWN ARE APPROXIMATE ACTUAL SLOPES SHALL CONFORM TO ROADWAY PLAN CROSS SECTIONS.

● ~ DENOTES SOIL BORING LOCATION

▲ TO REMAIN
 ▲▲ TO BE RELOCATED

EXISTING STRUCTURE

TYPE: (3) SPAN CONTINUOUS STEEL BEAMS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURES ON PILES.

SPAN: 51.833'± 86.375'± 51.833'± C/C BEARINGS ~ LEFT STRUCTURE

SPAN: 73.667'± 92.000'± 73.667'± C/C BEARINGS ~ RIGHT STRUCTURE

ROADWAY: 39'-8" f/f CURBS WITH 2'-2" SAFETY CURBS AND PARAPETS

SKEW: 42'00"00"± R.F. (LEFT)
 SKEW: 45'00"00"± R.F. (RIGHT)

LOADING: CF=2000(51)

DATE BUILT: 1959

STRUCTURE FILE NO.: 7004478 (LEFT)
 7004508 (RIGHT)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-54 (25'-0" LONG)

PROPOSED STRUCTURE

PROPOSED WORK: NEW REINFORCED CONCRETE DECK COMPOSITE WITH NEW CONTINUOUS STEEL BEAMS ON REHABILITATED PIERS AND NEW SEMI-INTEGRAL ABUTMENTS.

SPAN: 53.185' ~ 86.386' ~ 53.185' C/C BEARINGS ~ LEFT STRUCTURE

SPAN: 75.092' ~ 92.014' ~ 75.092' C/C BEARINGS ~ RIGHT STRUCTURE

ROADWAY: 60'-0" f/f CURBS WITH 1'-6" CONCRETE BARRIERS

SKEW: 42'00"44"± R.F. (LEFT)
 SKEW: 45'00"36"± R.F. (RIGHT)

LOADING: HS 20-44 (CASE I) AND THE ALTERNATE MILITARY LOADING.

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81, 25'-0" LONG

ALIGNMENT: CURVE LEFT

SUPERELEVATION: 0.019 FT./ FT.

LATITUDE: 40°44'30" N
 LONGITUDE: 82°27'17" W

TRAFFIC DATA

CURRENT A.D.T. (2004) = 22780 (LEFT)
 = 22660 (RIGHT)

DESIGN YEAR, A.D.T. (2024) = 31760 (LEFT)
 = 31470 (RIGHT)

DESIGN YEAR, A.D.T.T. (2024) = 7940 (LEFT)
 = 7868 (RIGHT)

BENCHMARK 1

DISK IN HEADWALL
 STA. 795+71.13, 113.4' RT.
 EL. 1123.71

BENCHMARK 2

DISK IN HEADWALL
 STA. 811+18.59, 109.0' LT.
 EL. 1145.30

UFS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 564 WHITE POND DRIVE
 AKRON, OHIO 44320-1100

DATE: 7/3/00
 B.K.L.:
 STRUCTURE FILE NUMBER: 7004478 (L)
 7004508 (R)

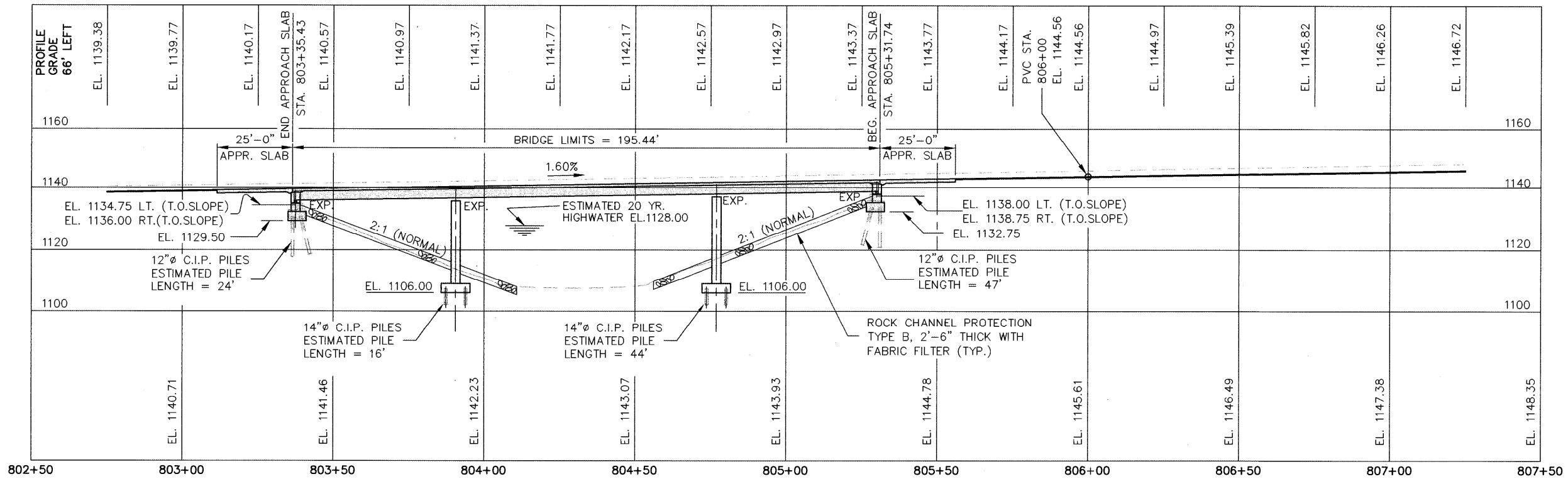
REVIEWED: A.L.H.
 DRAWN: A.L.H.
 DESIGNED: A.L.H.
 CHECKED: A.L.

RICHLAND COUNTY
 STA. 803+35.43 TO 805+31.74 (L)
 STA. 804+24.92 TO 806+68.78 (R)

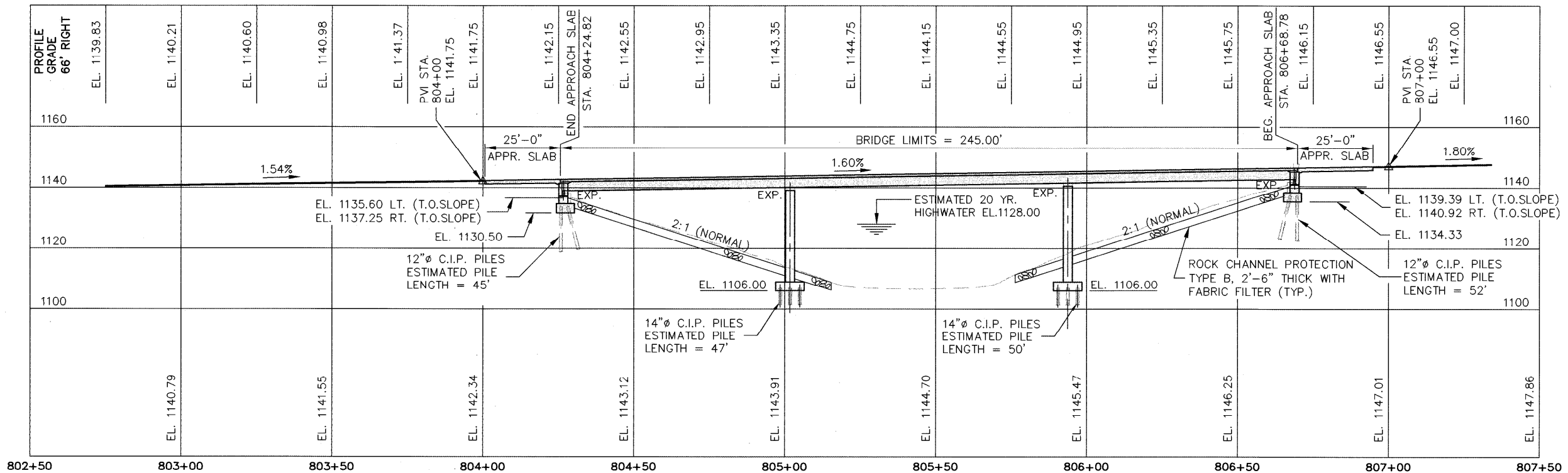
SITE PLAN
 BRIDGE NO. RIC-71-1523 L. & R. OVER ROCKY FORK CREEK

RIC-71-13.66

1 / 38
 476
 633

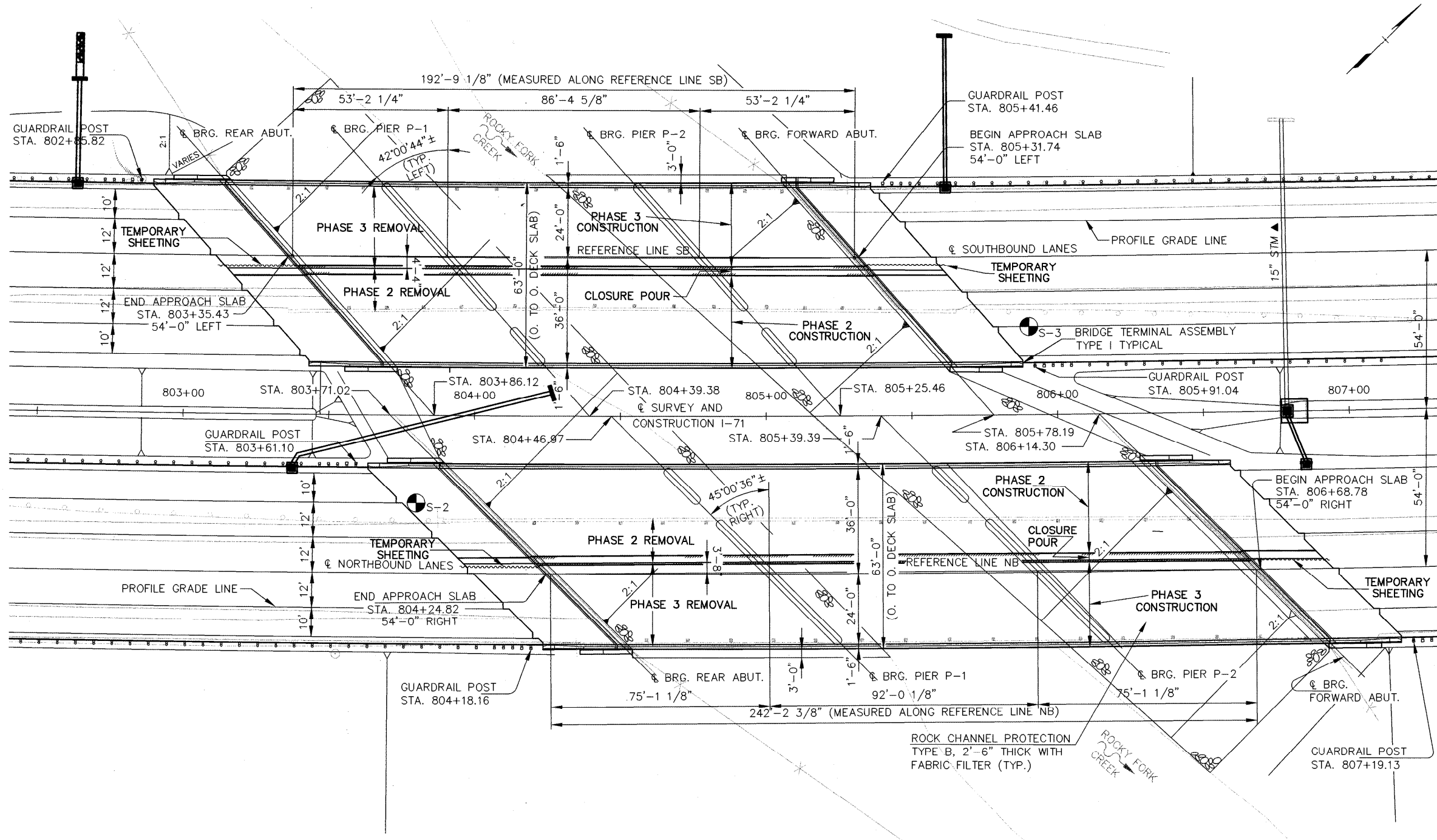


PROFILE ALONG C SOUTHBOUND LANES (L)



PROFILE ALONG C NORTHBOUND LANES (R)

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GENERAL PLAN

NOTES

- ① FOR PARAPET JOINT SPACING SEE ODOT. STD. DWG. SBR-1-99.

PROPOSED WORK:

- A** PLACE TEMPORARY MAINTENANCE OF TRAFFIC BARRIERS AND PLACE REQUIRED TEMPORARY SHEETING.
- B** REMOVE PORTIONS OF EXISTING DECK, STEEL BEAMS AND ABUTMENTS AS DESCRIBED IN THE PLANS UNDER PHASE 1 REMOVAL.
- C** DRIVE PILES, CONSTRUCT ABUTMENTS AND PIERS, INSTALL NEW BEARINGS AND COMPOSITE STEEL BEAMS, SUPERSTRUCTURE AND APPROACH SLABS AS DESCRIBE IN THE PLANS UNDER PHASE 2 CONSTRUCTION.
- D** RELOCATE TEMPORARY MAINTENANCE OF TRAFFIC BARRIERS AND REVISE TEMPORARY SHEETING AS REQUIRED FOR PHASE 2 REMOVAL AND PHASE 3 CONSTRUCTION. APPLY CONCRETE SEALER.
- E** REMOVE REMAINING PORTIONS OF THE EXISTING DECK, STEEL BEAMS AND ABUTMENTS AS, DESCRIBED IN THE PLANS.
- F** CONSTRUCT REMAINING PORTION OF THE ABUTMENTS AND PIER PEDESTALS, INSTALL NEW BEARINGS AND COMPOSITE STEEL BEAMS, CONSTRUCT SUPERSTRUCTURE AND APPROACH SLABS, AS DESCRIBED IN THE PLANS.
- G** POUR CLOSURE AND APPLY CONCRETE SEALER.
- H** REMOVE TEMPORARY TRAFFIC BARRIERS AND CLEAN-UP CONSTRUCTION SITE TO THE APPROVAL OF THE ENGINEER.

UFS Greiner Woodward Clyde
ARCHITECTS • ENGINEERS • PLANNERS
964 WHITE POND DRIVE
AKRON, OHIO 44320-1100

DATE	7/3/00
REVIEWED	B.K.L.
STRUCTURE FILE NUMBER	7004478 (L) 7004508 (R)
DRAWN	S.F.W.
CHECKED	A.Y.Z.

GENERAL PLAN
BRIDGE NO. RIC-71-1523 L. & R.
OVER ROCKY FORK CREEK

RIC-71-13.66

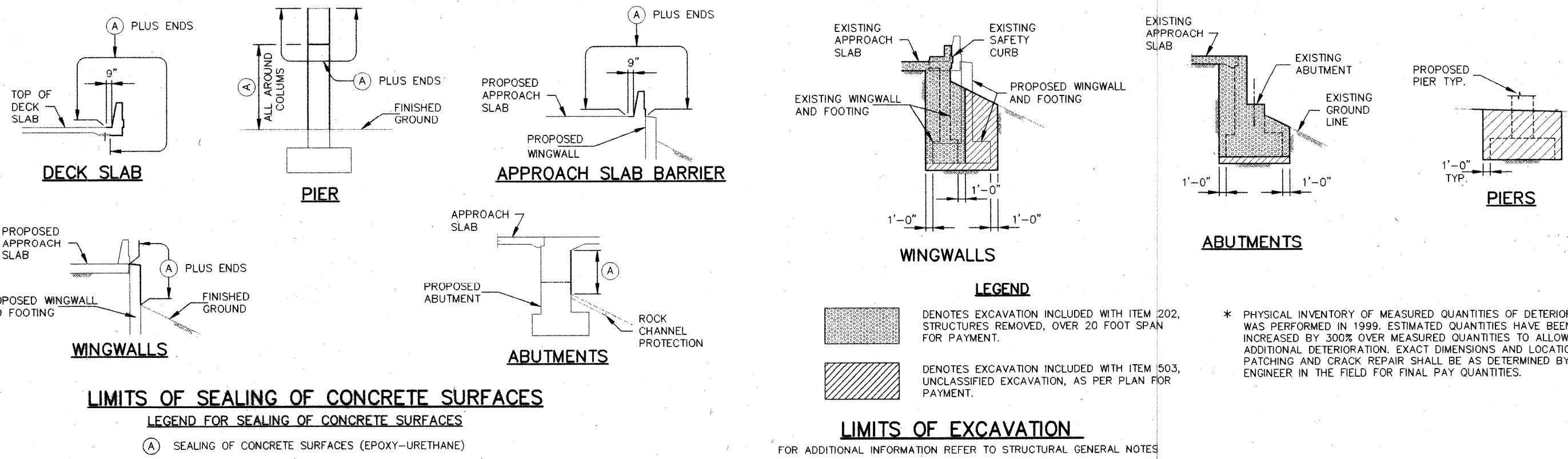
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ESTIMATED QUANTITIES

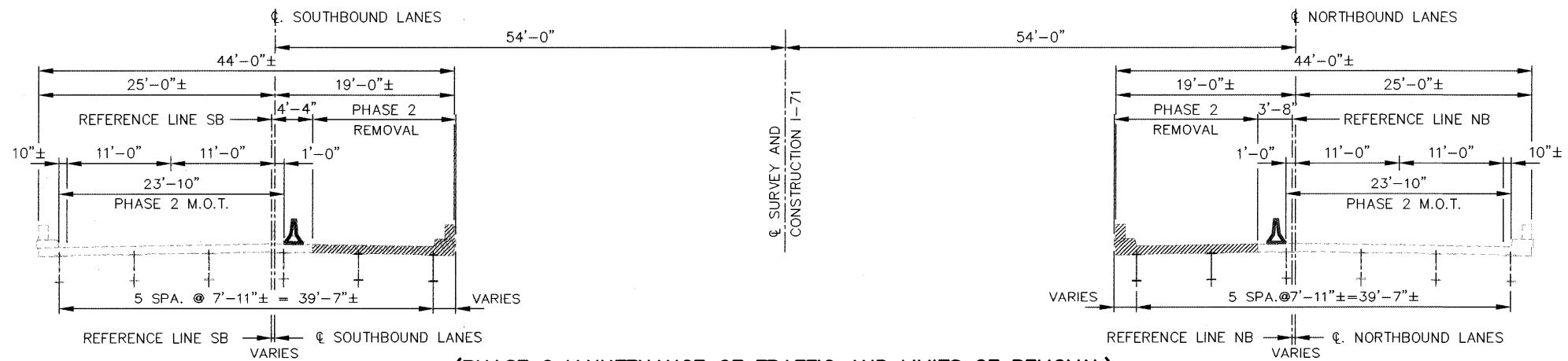
CAL'D BY: R.W.H. DATE: 04/24/00
CHK' D BY: A.Y.Z. DATE: 06/29/00

ITEM	ITEM EXT.	LEFT BRIDGE	RIGHT BRIDGE	UNIT	DESCRIPTION	LEFT BRIDGE (SOUTHBOUND)					RIGHT BRIDGE (NORTHBOUND)					REF. SHEET	
		(S.B.)	(N.B.)			ABUTMENTS		PIERS	SUPER STRU.	GEN'L	ABUTMENTS		PIERS	SUPER STRU.	GEN'L		
		TOTAL	TOTAL			REAR	FORW'D				REAR	FORW'D					
202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN											LUMP	5,6,7,8,9/38, 473
503	11100	LUMP	LUMP		COFFERDAMS, CRIBS AND SHEETING											LUMP	473
503	21301	LUMP	LUMP		UNCLASSIFIED EXCAVATION, AS PER PLAN											LUMP	
505	11100	LUMP	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION											LUMP	
507	00500	825	1050	LIN. FT.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	275	550					500	550				
507	00550	825	1050	LIN. FT.	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	275	550					500	550				
507	00600	420	735	LIN. FT.	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN			420						735			
507	00650	420	735	LIN. FT.	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED			420						735			
507	50500	16	17	EACH	STEEL PILE SPLICES	5	5	6				5	5	7			
SPECIAL	51267510	824	949	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	106	107	141	470			108	110	140	591		
516	13900	63	72	SQ. FT.	2" PREFORMED EXPANSION JOINT FILLER												72
516	44001	16		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18 x 12 x 1.77" PAD, 19" x 13" LOAD PLATE)			16									22/38
516	44001		16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (20 x 13 x 1.95" PAD, 21" x 14" LOAD PLATE)								16				22/38
516	44101		16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (16 x 9.5 x 2.96" PAD, 17" x 10.5" LOAD PLATE)							8	8				22/38
516	44101	16		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14 x 9 x 2.46" PAD, 15" x 10" LOAD PLATE)	8	8										22/38
518	21231	LUMP	LUMP		POROUS BACKFILL WITH FILTER FABRIC, AS PER PLAN											LUMP	473
518	40000	180	193	LIN. FT.	6" PERFORATED CORRUGATED PLASTIC PIPE	89	91					95	98				
518	40010	42	42	LIN. FT.	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	21	21					21	21				
519	11100		15	SQ. FT.	PATCHING CONCRETE STRUCTURE									15			
523	11100	1.5	1.5	HOUR	DYNAMIC LOAD TEST											1.5	
842	42001	53	53	CU. YD.	CLASS C CONCRETE, PIER ABOVE FOOTINGS, AS PER PLAN			53						53			473
842	43501	251	258	CU. YD.	CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN	125	126					130	128				473
842	46501	44	44	CU. YD.	CLASS C CONCRETE, FOOTING, AS PER PLAN			44						44			
842	81300	12	12	EACH	CONCRETE, MISC.: PEDESTALS			12						12			
894	10001	476	583	CU. YD.	HIGH PERFORMANCE CONCRETE, FOR BRIDGE DECK WITH WARRANTY, AS PER PLAN (MIX 4)	35	34		407			36	36		511		473
863	10060	LUMP	LUMP		STRUCTURAL STEEL MEMBERS, LEVEL (3) FABRICATION (ASTM A709, GRADE 50W)											LUMP	
863	20000	4928	6528	EACH	WELDED STUD SHEAR CONNECTORS											LUMP	6528

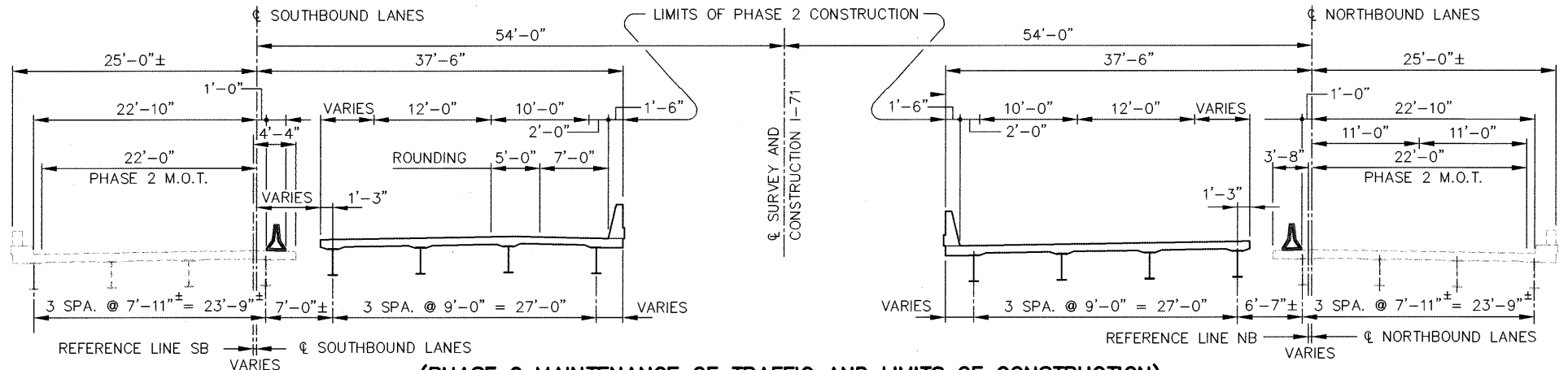


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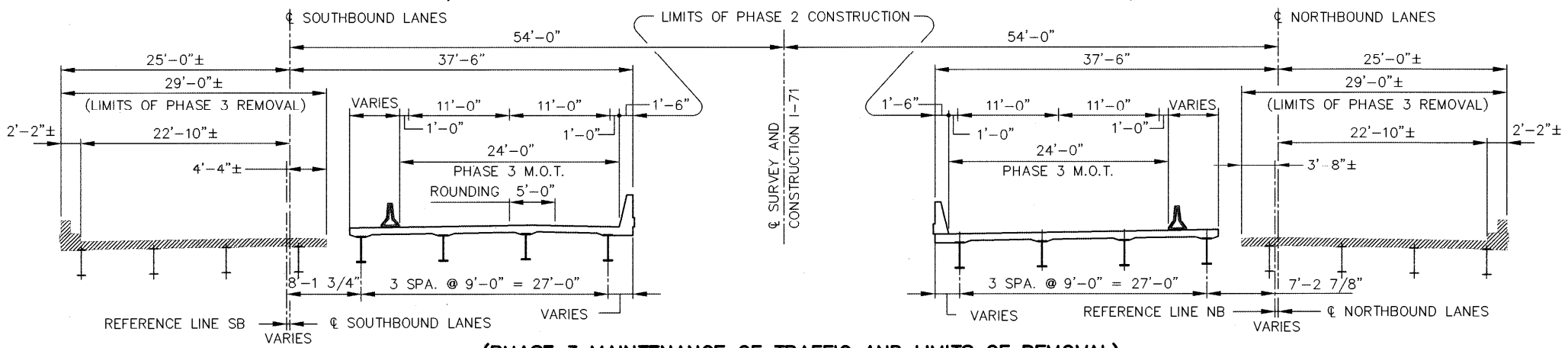
URS Greiner Woodward Clyde
 ARCHITECTS ENGINEERS & PLANNERS
 964 WHITE POND DRIVE
 AKRON, OHIO 44320-1100
 DATE: 06/12/00
 R.S.C. FILE NUMBER: 7004478 (L)
 STRUCTURE FILE NUMBER: 7004508 (L)
 DESIGNED: R.W.H. CHECKED: A.Y.Z.
 DRAWN: S.F.W. REVISED:
 REVIEWED: R.S.C. DATE: 06/12/00
 ESTIMATED QUANTITIES, EXCAVATION & SEALING DIAGRAMS
 BRIDGE NO. RIC-71-1523 L & R
 OVER ROCKY FORK CREEK
 RIC- 71-13.66
 4 / 38
 479
 633



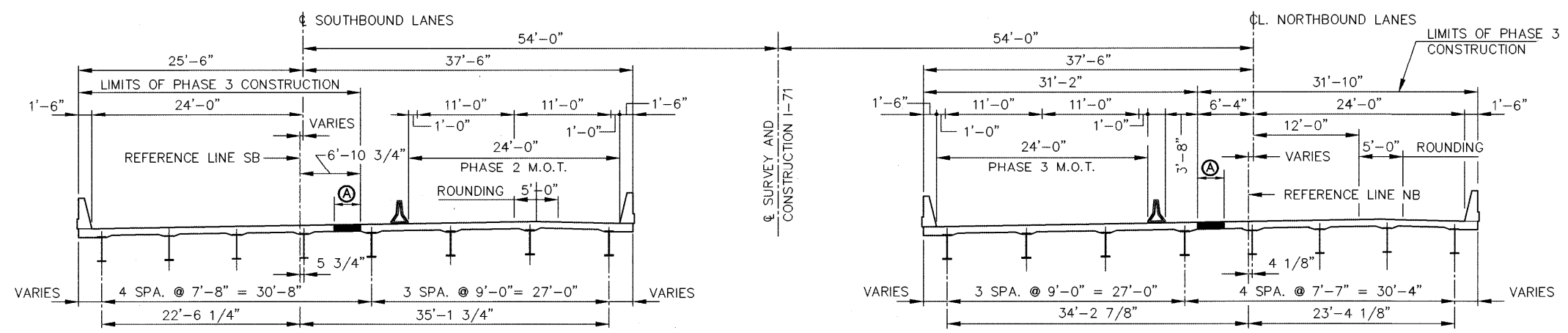
(PHASE 2 MAINTENANCE OF TRAFFIC AND LIMITS OF REMOVAL)



(PHASE 2 MAINTENANCE OF TRAFFIC AND LIMITS OF CONSTRUCTION)



(PHASE 3 MAINTENANCE OF TRAFFIC AND LIMITS OF REMOVAL)

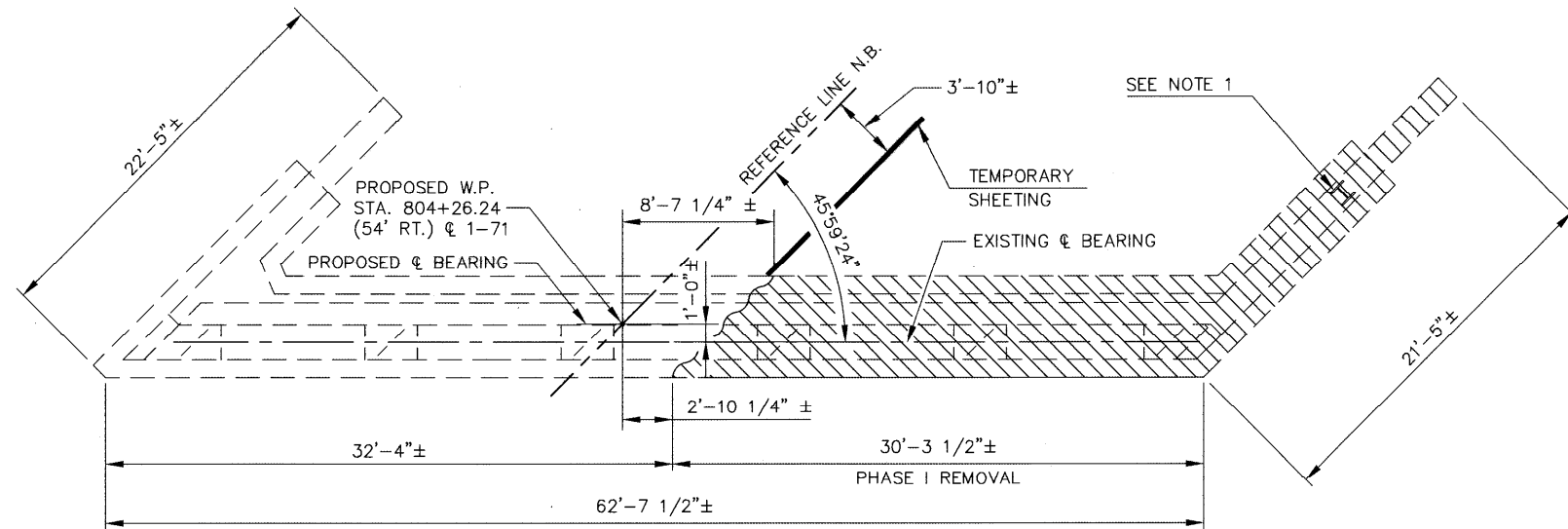


(PHASE 3 MAINTENANCE OF TRAFFIC AND LIMITS OF CONSTRUCTION)

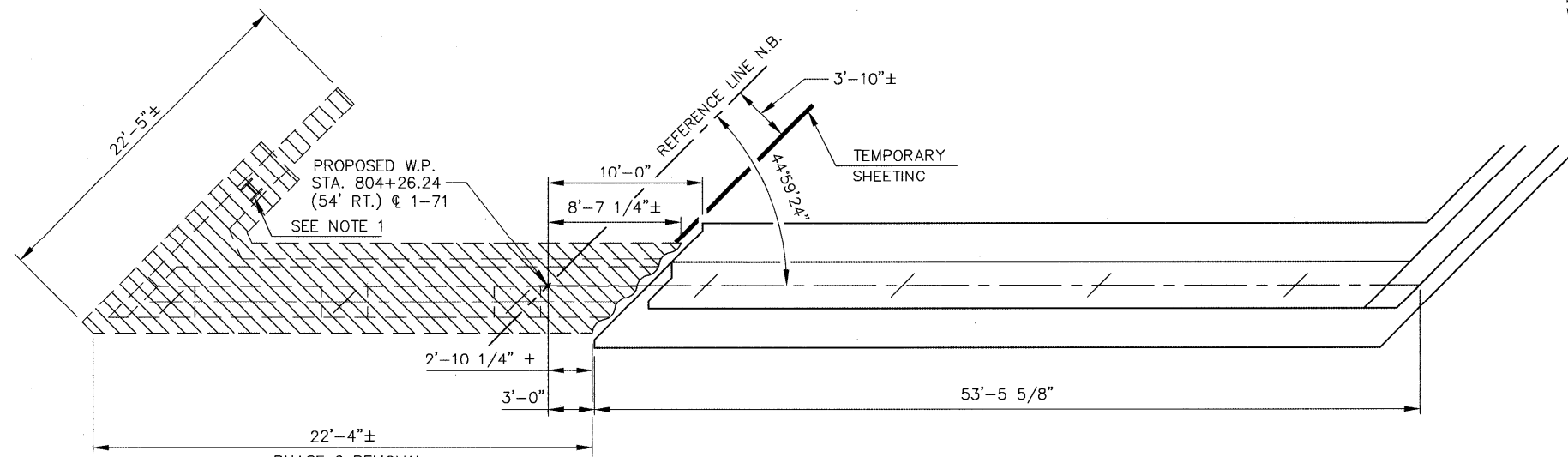
- LEGEND**
- DENOTES: PORTABLE CONCRETE BARRIER (ANCHORED) 3 ANCHORS PER SEGMENT
 - DENOTES: LIMITS ~ PORTIONS OF STRUCTURE REMOVED
 - DENOTES 3'-0" CLOSURE POUR
 - M.O.T. DENOTES MAINTENANCE OF TRAFFIC
 - NOTE: PHASE 1 MAINTENANCE OF TRAFFIC IS THE RECONSTRUCTION OF THE ROADWAY OUTSIDE SHOULDER.
 - SEE STD. DWG PCB-91 FOR ADDITIONAL NOTES AND DETAILS.

J:\Proj\3\7044600\Struct\1523\MOT1523b.dwg User: cab05502 Sep 28, 2000 - 10:57am

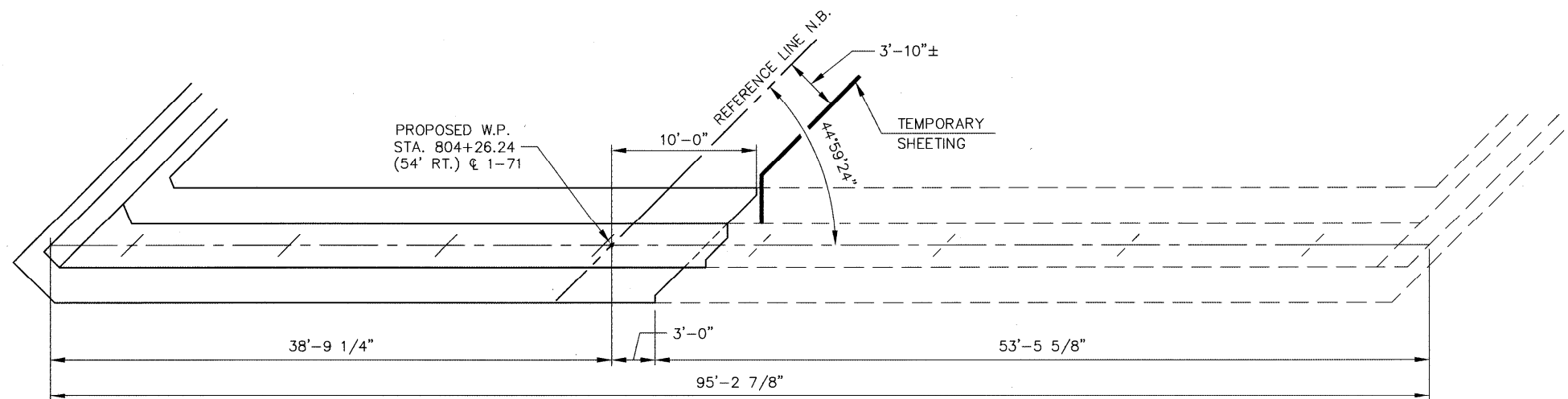
DATE	11/19/99
REVIEWED	R.S.C.
DRAWN	A.L.H.
DESIGNED	A.L.H.
CHECKED	A.Y.Z.
STRUCTURE FILE NUMBER	7004478(L)
REVISED	7004508(R)



REAR ABUTMENT PLAN
PHASE 1 REMOVAL



REAR ABUTMENT PLAN
PHASE 2 REMOVAL



REAR ABUTMENT PLAN
PHASE 3 CONSTRUCTION



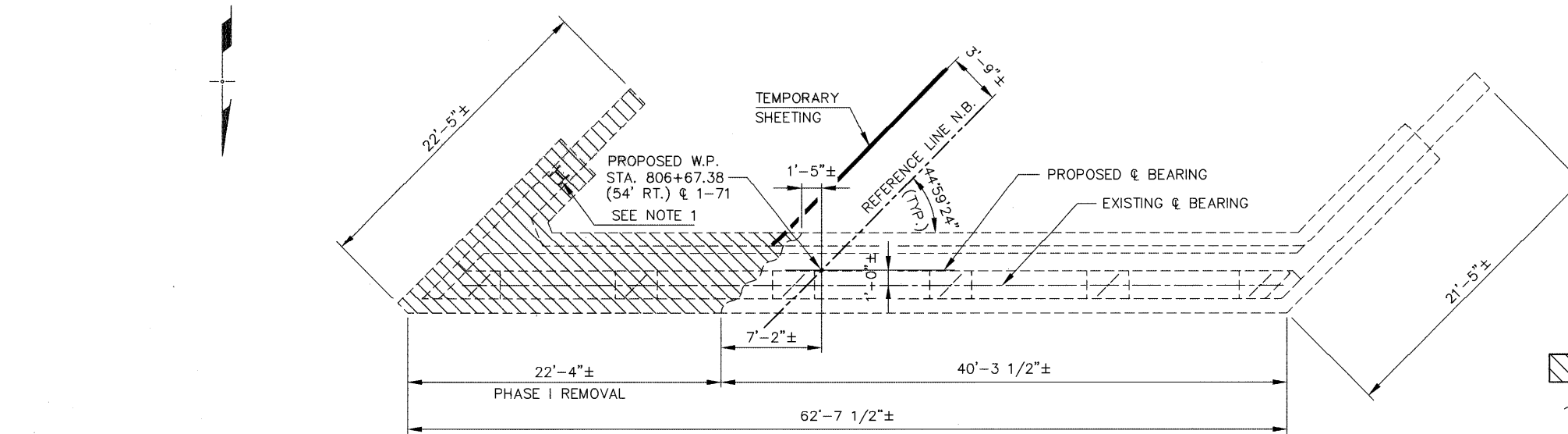
LEGEND

- DENOTES LIMITS OF PORTIONS OF STRUCTURE TO BE REMOVED
- DENOTES APPROXIMATE EDGE OF CONCRETE REMOVAL
- DENOTES APPROXIMATE LIMITS OF TEMPORARY SHEETING

NOTES:

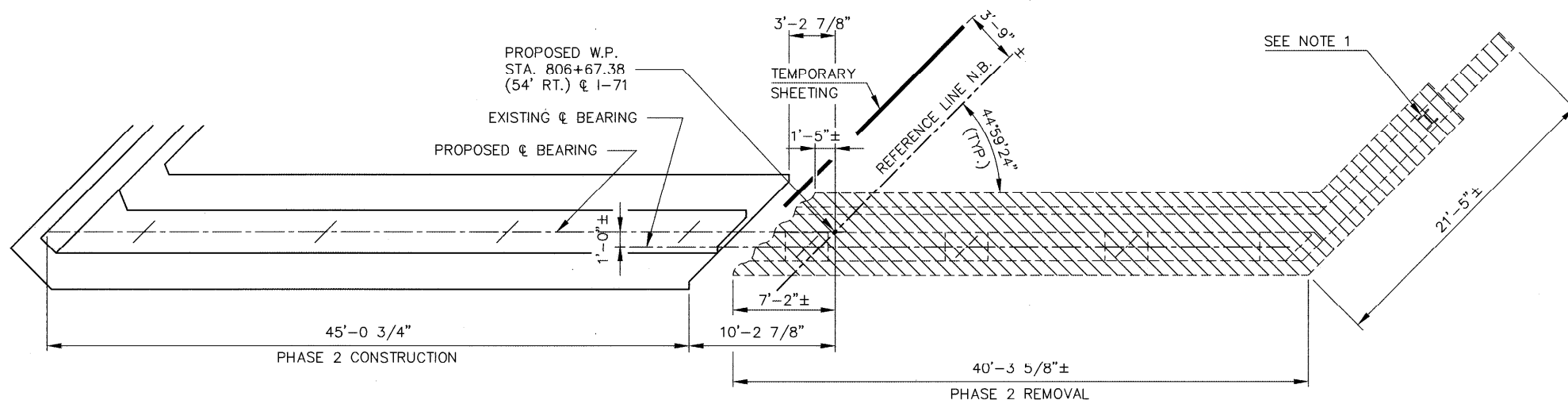
- ① THE EXISTING PILE IN THE WINGWALL AREA MAY BE CUT OFF TO 2' BELOW THE SUBGRADE OR TO THE BOTTOM OF FOOTING OF NEW WINGWALL, WHICHEVER LOWER, AND LEFT IN PLACE.

DESIGNED	A.L.H.	CHECKED	A.Y.Z.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	STRUCTURE FILE NUMBER	7004478 (L) 70044508 (R)
DATE	7/3/00		



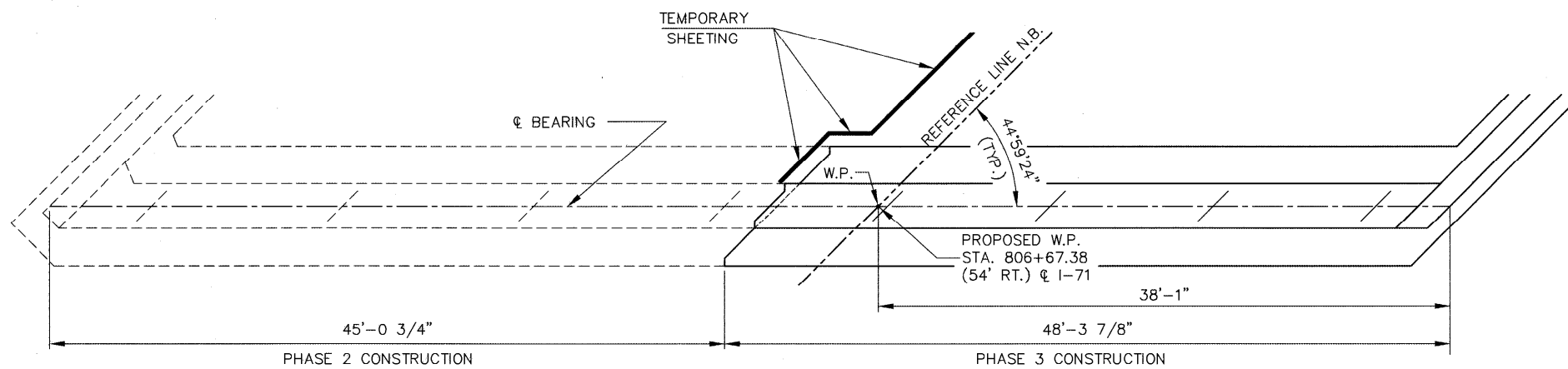
FORWARD ABUTMENT PLAN

PHASE I REMOVAL



FORWARD ABUTMENT PLAN

PHASE 2 CONSTRUCTION AND PHASE 2 REMOVAL



FORWARD ABUTMENT PLAN

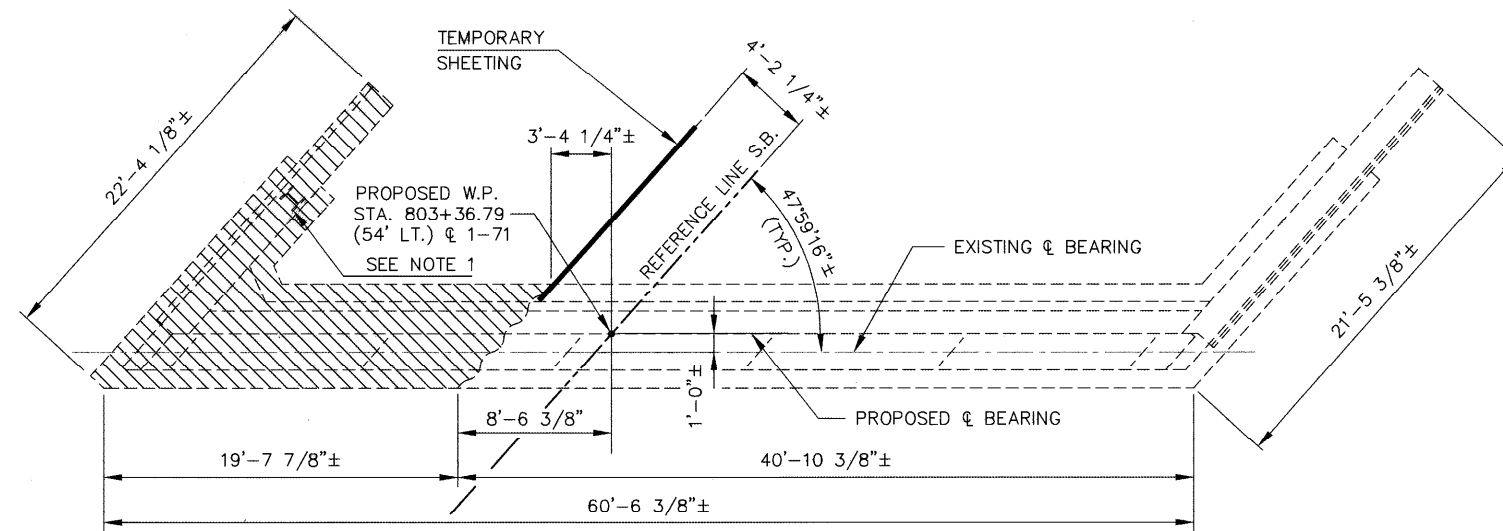
PHASE 3 CONSTRUCTION

LEGEND

- DENOTES LIMITS OF PORTIONS OF STRUCTURE TO BE REMOVED
- DENOTES APPROXIMATE EDGE OF CONCRETE REMOVAL
- DENOTES APPROXIMATE LIMITS OF TEMPORARY SHEETING

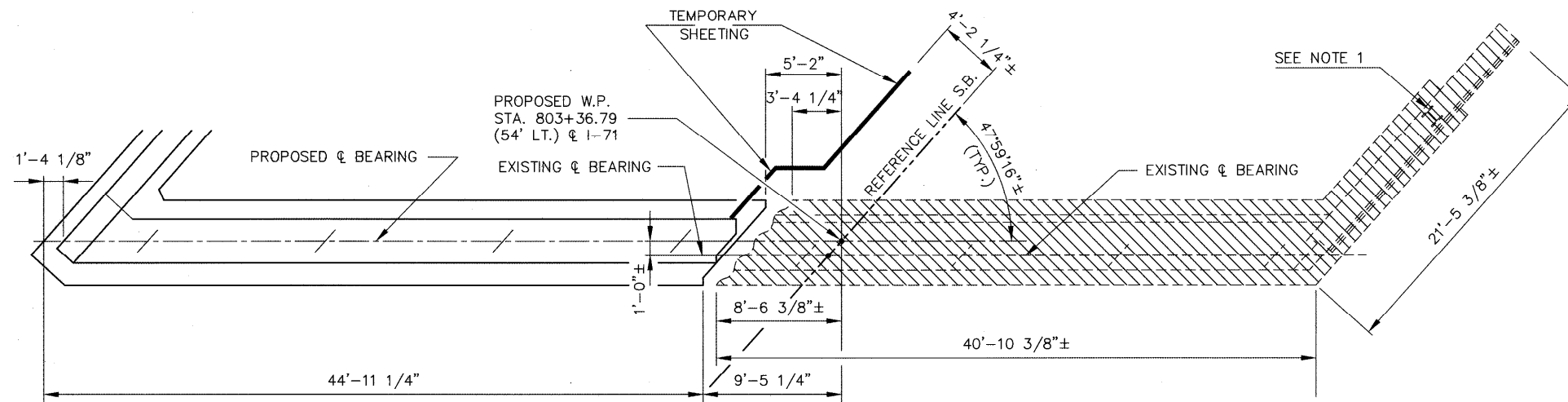
NOTES:

- ① THE EXISTING PILE IN THE WINGWALL AREA MAY BE CUT OFF TO 2' BELOW THE SUBGRADE OR TO THE BOTTOM OF FOOTING OF NEW WINGWALL, WHICHEVER LOWER, AND LEFT IN PLACE.



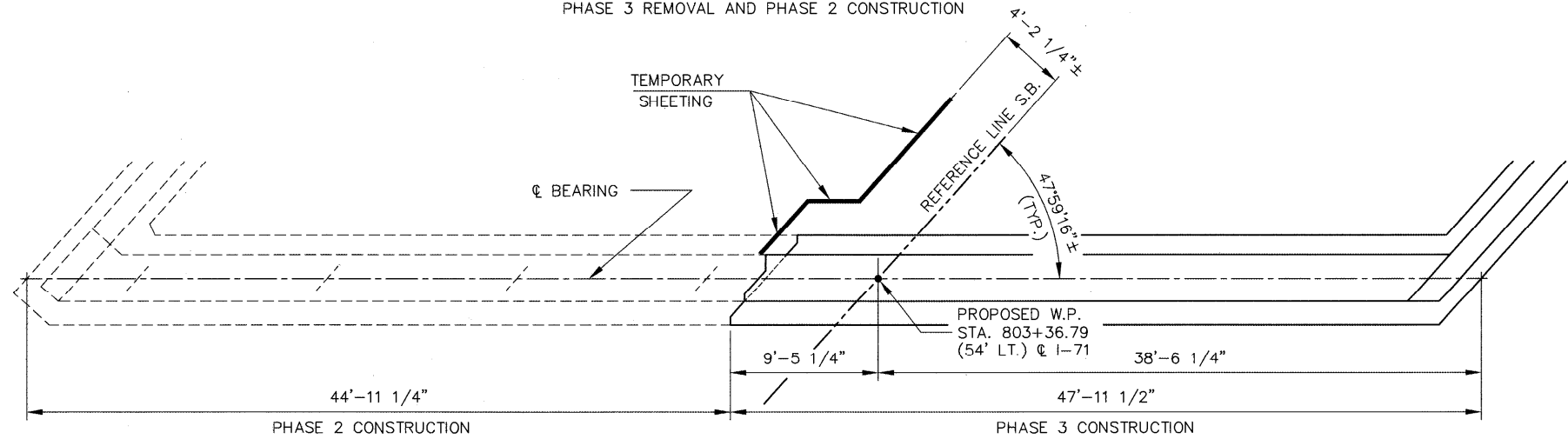
REAR ABUTMENT PLAN

PHASE I REMOVAL



REAR ABUTMENT PLAN

PHASE 3 REMOVAL AND PHASE 2 CONSTRUCTION



REAR ABUTMENT PLAN

PHASE 3 CONSTRUCTION



LEGEND

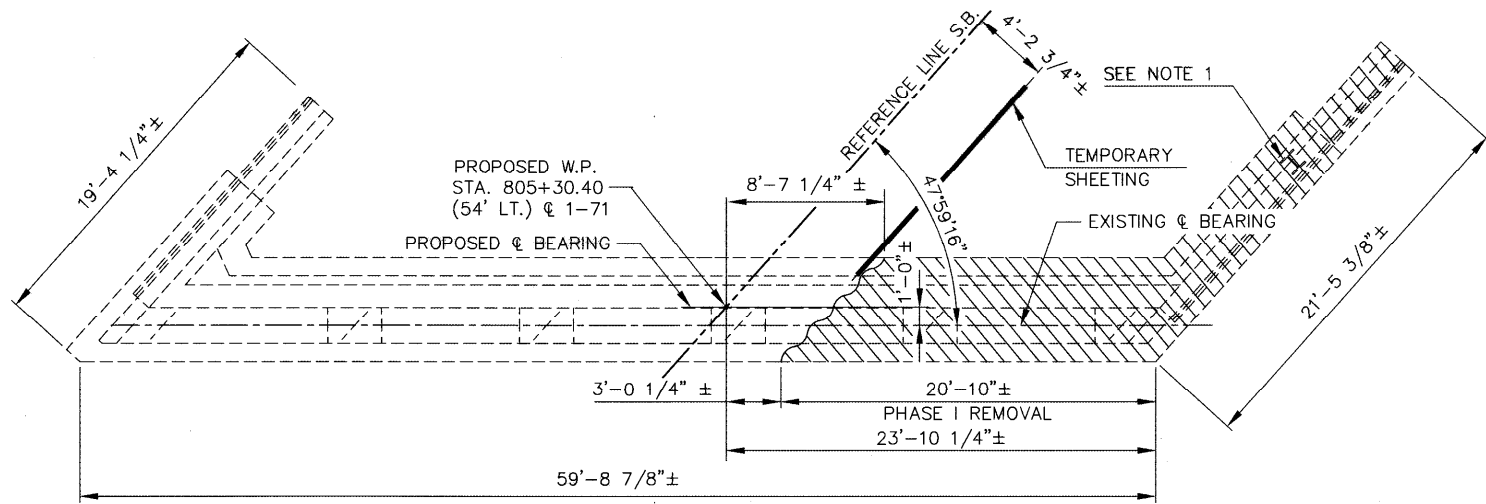
- DENOTES LIMITS OF PORTIONS OF STRUCTURE TO BE REMOVED
- DENOTES APPROXIMATE EDGE OF CONCRETE REMOVAL
- DENOTES APPROXIMATE LIMITS OF TEMPORARY SHEETING

NOTES:

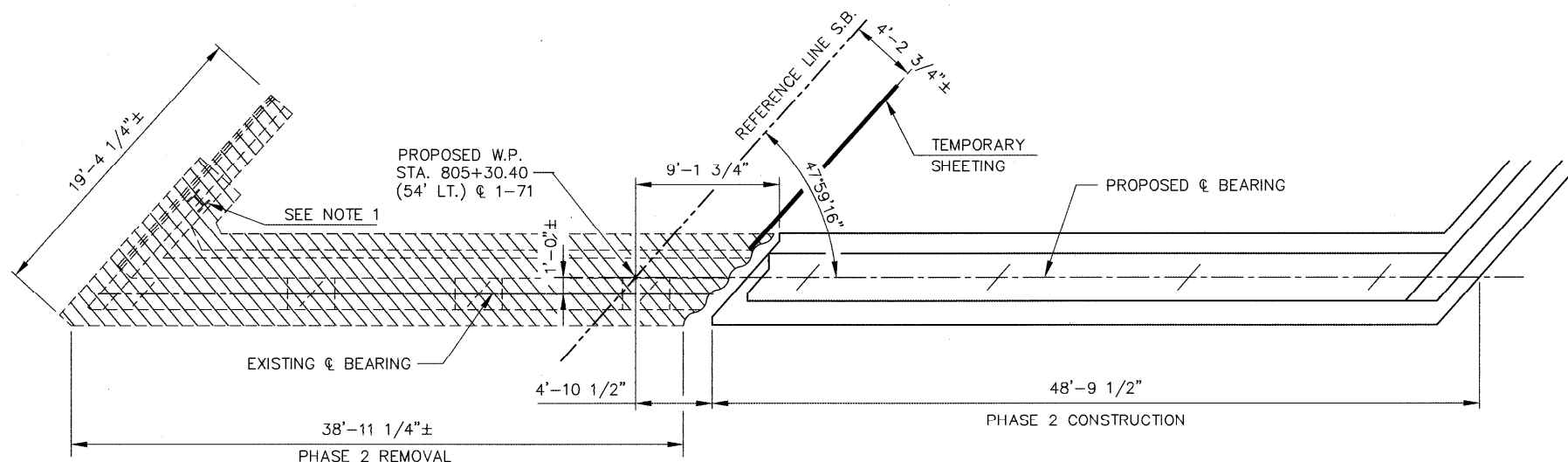
- ① THE EXISTING PILE IN THE WINGWALL AREA MAY BE CUT OFF TO 2' BELOW THE SUBGRADE OR TO THE BOTTOM OF FOOTING OF NEW WINGWALL, WHICHEVER LOWER, AND LEFT IN PLACE.

DESIGNED	AL.H.	CHECKED	A.Y.Z.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	STRUCTURE FILE NUMBER	7004478 (L) 70044508 (R)
DATE	7/3/00		

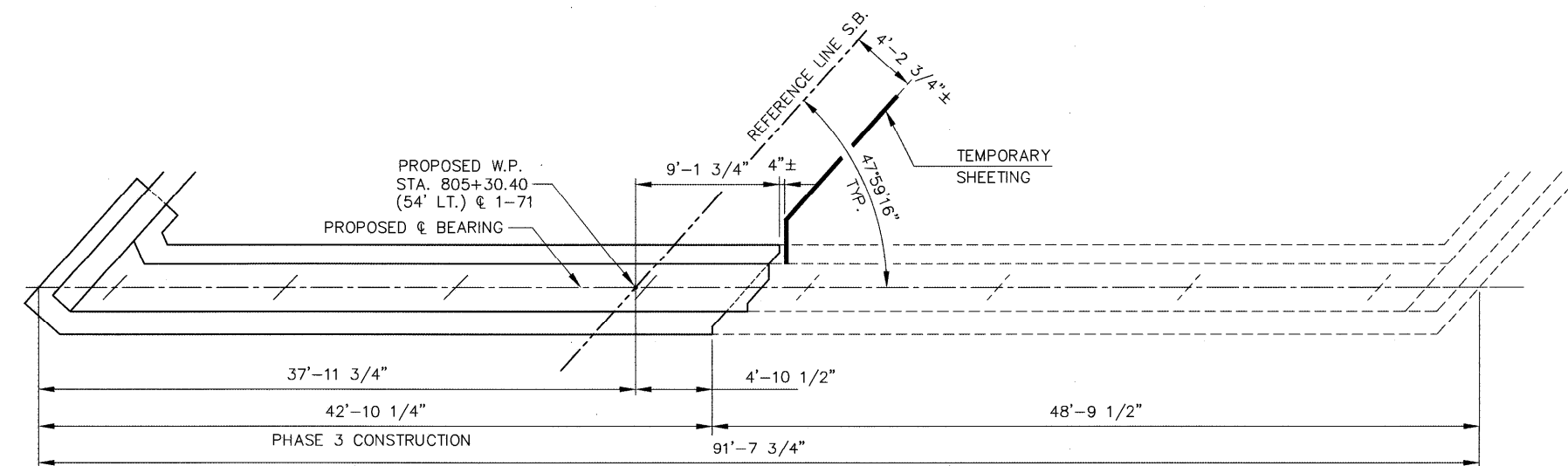
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FORWARD ABUTMENT PLAN
PHASE 1 REMOVAL



FORWARD ABUTMENT PLAN
PHASE 2 REMOVAL AND PHASE 2 CONSTRUCTION



FORWARD ABUTMENT PLAN
PHASE 3 CONSTRUCTION



LEGEND

- DENOTES LIMITS OF PORTIONS OF STRUCTURE TO BE REMOVED
- DENOTES APPROXIMATE EDGE OF CONCRETE REMOVAL
- DENOTES APPROXIMATE LIMITS OF TEMPORARY SHEETING

- NOTES:**
- ① THE EXISTING PILE IN THE WINGWALL AREA MAY BE CUT OFF TO 2' BELOW THE SUBGRADE OR TO THE BOTTOM OF FOOTING OF NEW WINGWALL, WHICHEVER LOWER, AND LEFT IN PLACE.

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564 WHITE POND DRIVE
AKRON, OHIO
44320-1100

DESIGNED	A.L.H.	CHECKED	A.Y.Z.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	STRUCTURE FILE NUMBER	7004478 (L) 7004508 (R)
DATE	7/3/00		

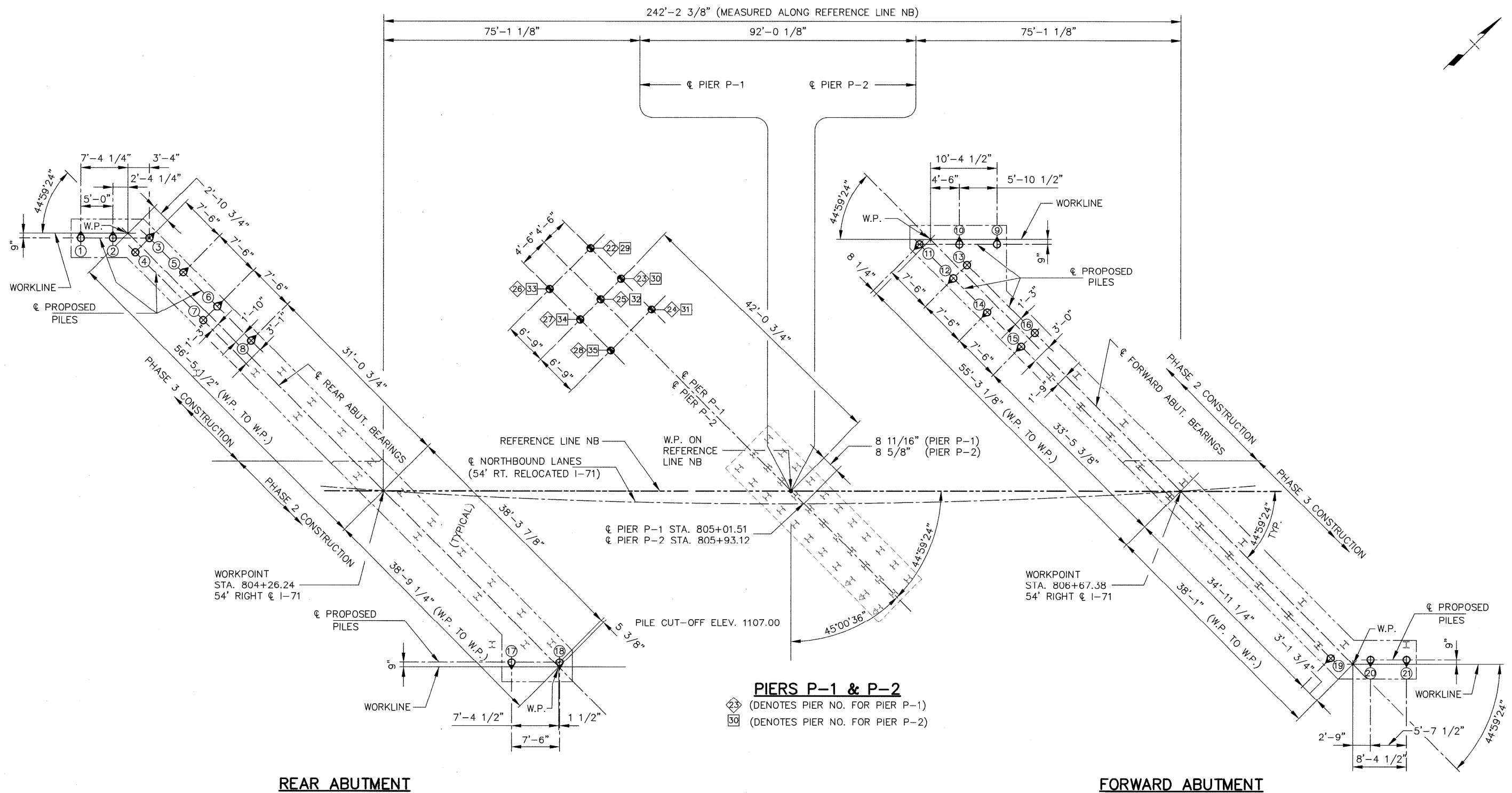
FORWARD ABUTMENT PHASE REMOVAL & CONSTRUCTION (S.B.L.)
BRIDGE NO. RIC-71-1523 L
OVER ROCKY FORK CREEK

RIC- 71-13.66

9 / 38

484
633

J:\Proj\37044600\Struct\1523\NbPiling.dwg User: jon81152 Sep 24, 2000 6:20pm



REAR ABUTMENT

FORWARD ABUTMENT

PIERS P-1 & P-2
 (23) (DENOTES PIER NO. FOR PIER P-1)
 (30) (DENOTES PIER NO. FOR PIER P-2)

PILE TABLE (NORTHBOUND)				
LOCATION	PILE NUMBER	PILE TYPE	CUT-OFF ELEVATION	ESTIMATED LENGTH
REAR ABUTMENT	(1) THRU (8), (17) & (18)	12"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1132.50	45 FEET
PIER P-1	(22) THRU (28)	14"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1107.00	47 FEET
PIER P-2	(29) THRU (35)	14"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1107.00	50 FEET
FORWARD ABUTMENT	(9) THRU (16) & (19) THRU (21)	14"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1136.33	52 FEET

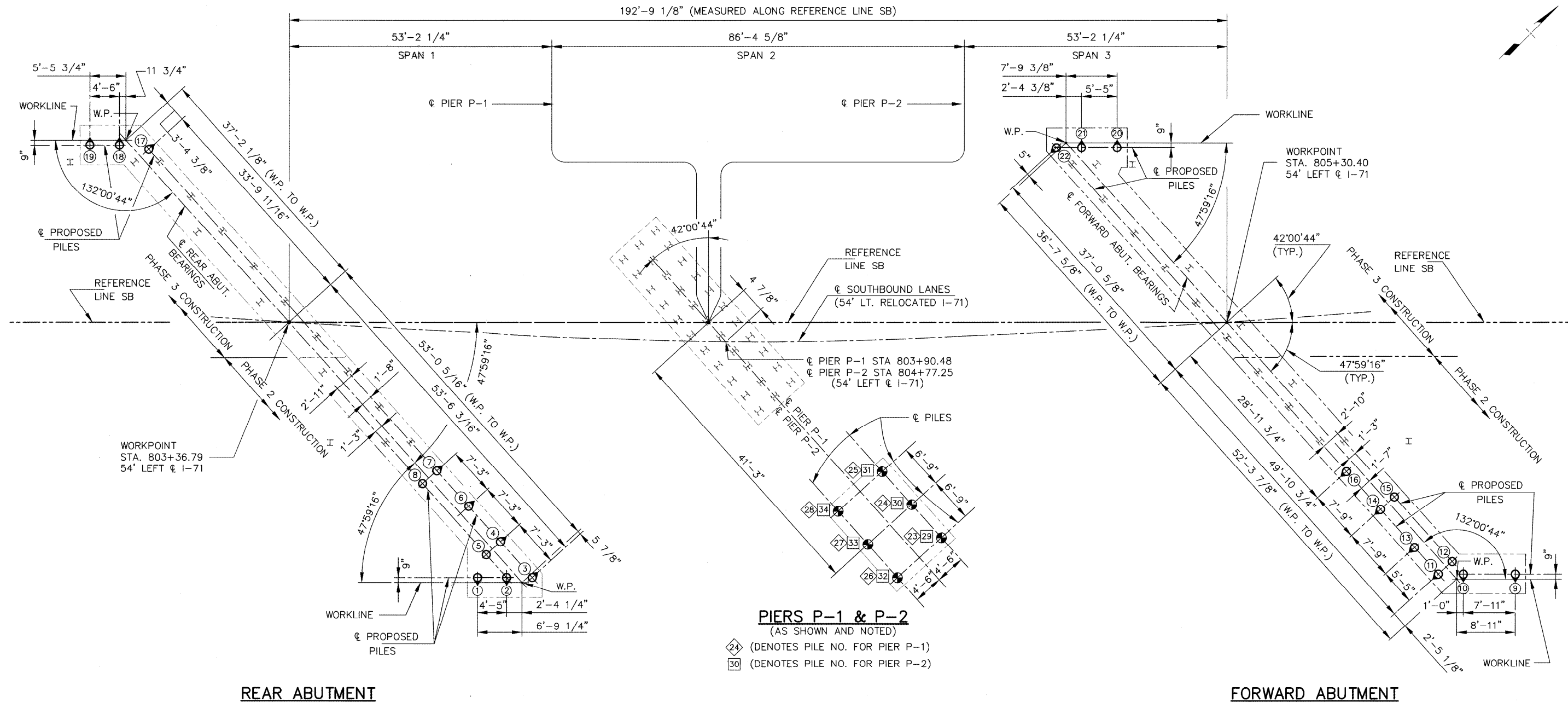
FOR ADDITIONAL PILING INFORMATION, SEE STRUCTURAL GENERAL NOTES SHEET 389, 390 & 391.

LEGEND

- H- DENOTES APPROXIMATE LOCATION OF EXISTING HP 12 x 53 PILES (LOCATIONS SHOWN WERE TAKEN FROM EXISTING PLANS)
- DENOTES PROPOSED 12"Ø CAST-IN-PLACE CONCRETE PILES
- ◐ DENOTES PROPOSED 12"Ø CAST-IN-PLACE CONCRETE PILES, BATTERED 1 TO 4 IN THE DIRECTION INDICATED
- DENOTES PROPOSED 14"Ø CAST-IN-PLACE CONCRETE PILES

DESIGNED	A.Y.Z.	CHECKED	C.A.R.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	DATE	7/3/00
STRUCTURE FILE NUMBER	7004478 (L)		
	7004478 (U)		
	7004508 (R)		

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REAR ABUTMENT

FORWARD ABUTMENT

PIERS P-1 & P-2
(AS SHOWN AND NOTED)

- ⬠ (DENOTES PILE NO. FOR PIER P-1)
- ⬠ (DENOTES PILE NO. FOR PIER P-2)

LEGEND

- ⊥ DENOTES APPROXIMATE LOCATION OF EXISTING HP 12 X 53 PILES (LOCATIONS SHOWN WERE TAKEN FROM EXISTING PLANS)
- DENOTES PROPOSED 12"Ø CAST-IN-PLACE CONCRETE PILES
- ◐ DENOTES PROPOSED 12"Ø CAST-IN-PLACE CONCRETE PILES, BATTERED 1 TO 4 IN THE DIRECTION INDICATED
- DENOTES PROPOSED 14"Ø CAST-IN-PLACE CONCRETE PILES

PILE TABLE (SOUTHBOUND)

LOCATION	PILE NUMBER	PILE TYPE	CUT-OFF ELEVATION	ESTIMATED LENGTH
REAR ABUTMENT	① THRU ⑧ & ⑰ THRU ⑲	12"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1131.50	24 FEET
PIER P-1	⬠ THRU ⬠	14"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1107.00	16 FEET
PIER P-2	⬠ THRU ⬠	14"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1107.00	44 FEET
FORWARD ABUTMENT	⑨ THRU ⑱ & ⑳ THRU ㉓	12"Ø CAST-IN-PLACE CONCRETE PILES	ELEV. 1134.75	47 FEET

FOR ADDITIONAL PILING INFORMATION, SEE STRUCTURAL GENERAL NOTES SHEET 1, 2, & 3.

URS Greiner Woodward Clyde
INCORPORATED ENGINEERS & PLANNERS
 864 WHITE ROAD DRIVE
 AKRON, OHIO
 44320-1100

DESIGNED	A.Y.Z.	CHECKED	C.A.R.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	DATE	7/3/00
STRUCTURE FILE NUMBER	7004478 (U)		
	7004508 (R)		

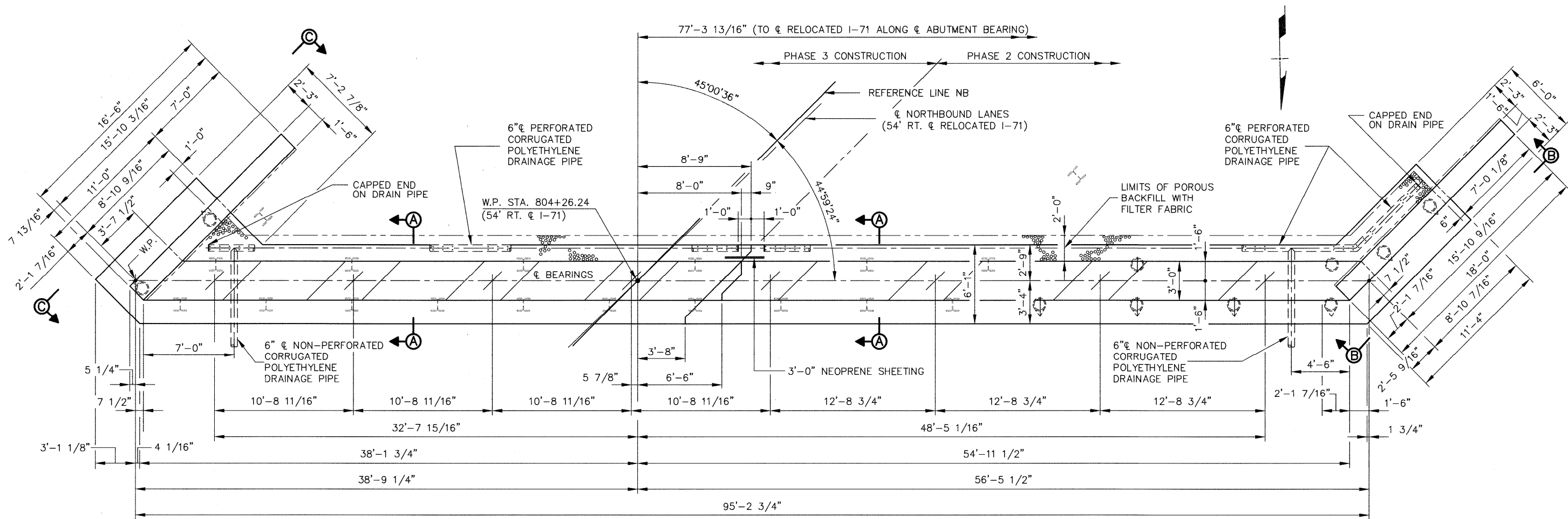
SOUTHBOUND PILING PLAN
 BRIDGE NO. RIC-71-1523L
 OVER ROCKY FORK CREEK

RIC- 71-13.66

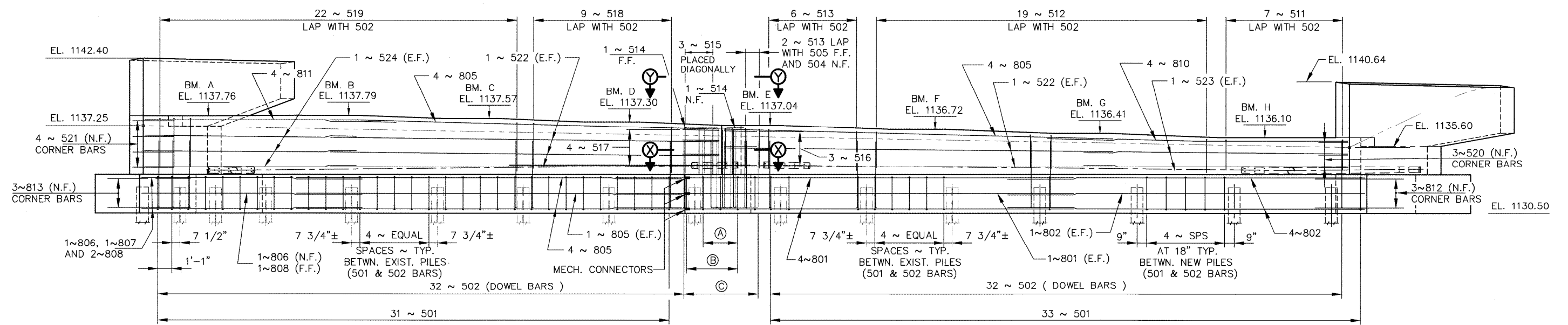
11 / 38

486
633

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PLAN REAR ABUTMENT (N.B.L.)



ELEVATION REAR ABUTMENT (N.B.L.)

(A) DENOTES ~ 1-SER'S. 503 @ 16" (PHASE 2 CONSTRUCTION) (C) DENOTES ~ 2-504, 2-505 & 2-506 (PHASE 2 CONSTRUCTION)

(B) DENOTES ~ 1-SER'S. 507 @ 16" (PHASE 3 CONSTRUCTION) (D) DENOTES ~ 1-SER'S 508 @ 13" & FANNED (PHASE 3 CONSTRUCTION)

NOTES:

- 1 THE PREFIX 1A SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND FORWARD ABUTMENT. FOR REINFORCING STEEL AND BAR BENDING DIAGRAMS, SEE SHEETS 35 AND 36 OF 38.
- 2 FOR SECTIONS A-A, X-X, VIEWS B-B, C-C, Y-Y AND ADDITIONAL NOTES, SEE SHEET 13 OF 38.
- 3 BEARING RETAINERS ARE REQUIRED IN ACCORDANCE WITH ODOT STD. DWG. SICD-1-96M AT BEAMS A, D AND H. PAYMENT FOR ALL LABOR, MATERIALS AND INSTALLATION OF THE RETAINER ASSEMBLIES SHALL BE INCLUDED WITH THE RESPECTIVE ITEM 516.
- 4 PAYMENT FOR ADDITIONAL NEPPRENE SHEETING AT THE CONSTRUCTION JOINTS SHALL BE INCLUDED WITH ITEM 842, CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN.

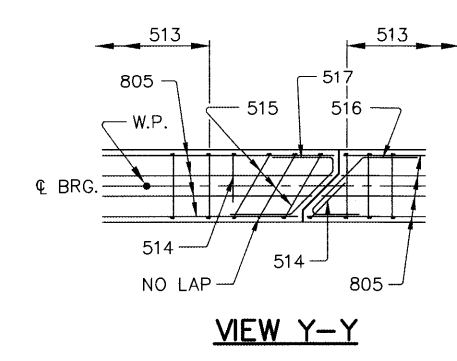
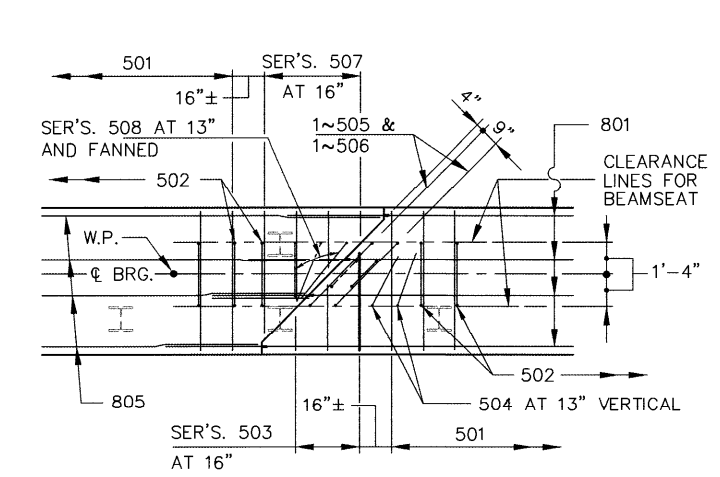
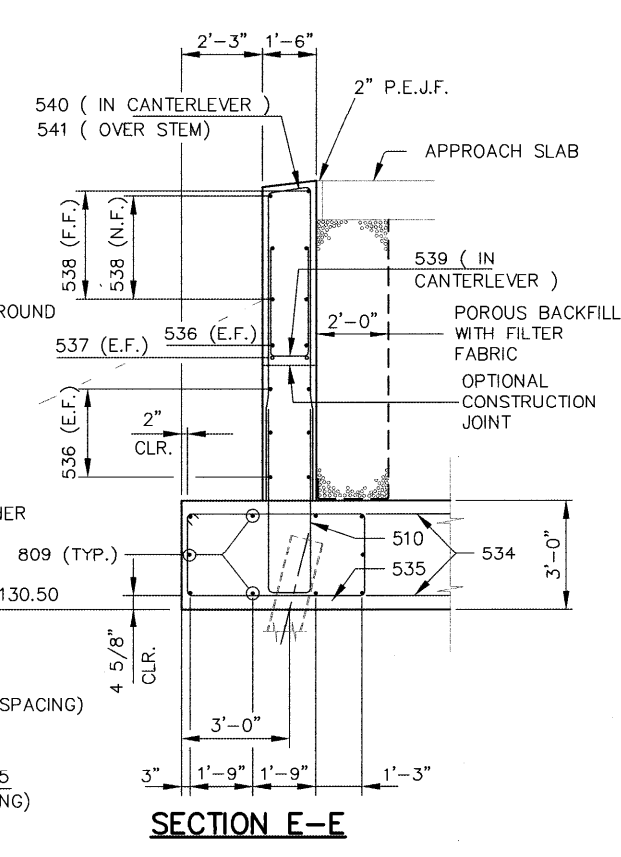
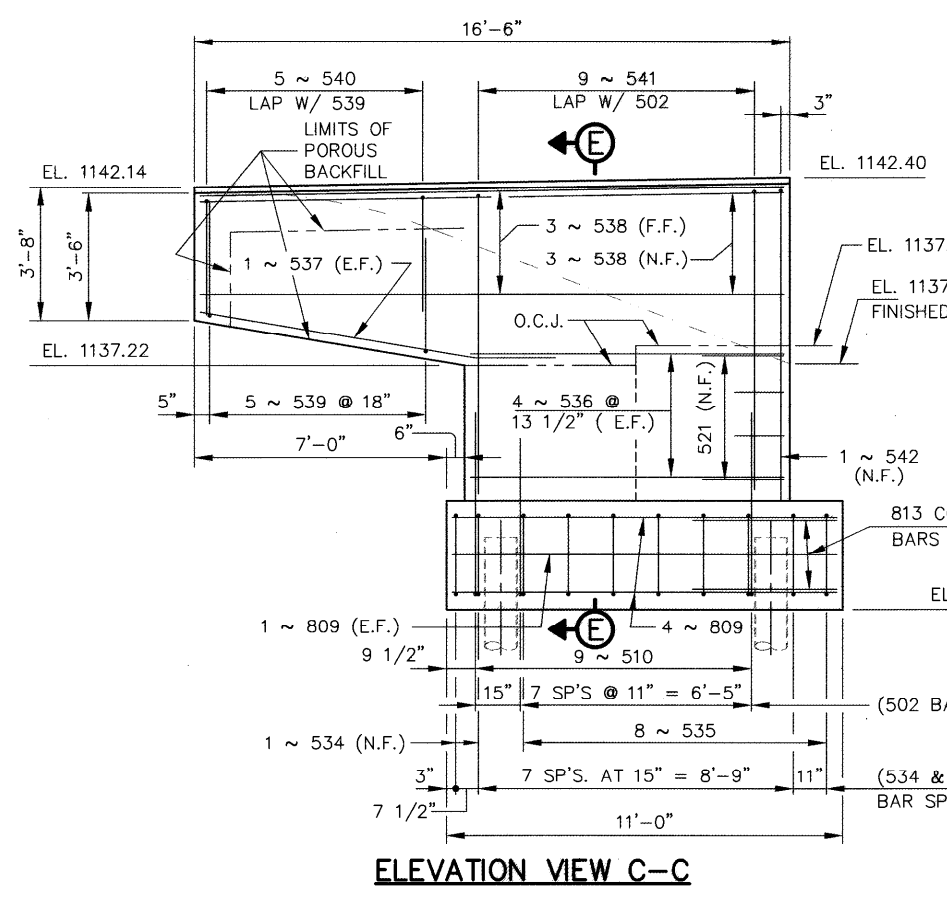
URS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 584 WHITE FOND DRIVE
 ANKON, OHIO
 4320-1100

DESIGNED	A.Y.Z.	CHECKED	C.A.R.
DRAWN	A.L.H.	REVISED	
REVIEWED	D.K.L.	DATE	07/03/00
STRUCTURE FILE NUMBER	7004478 (L)		
	7004508 (R)		

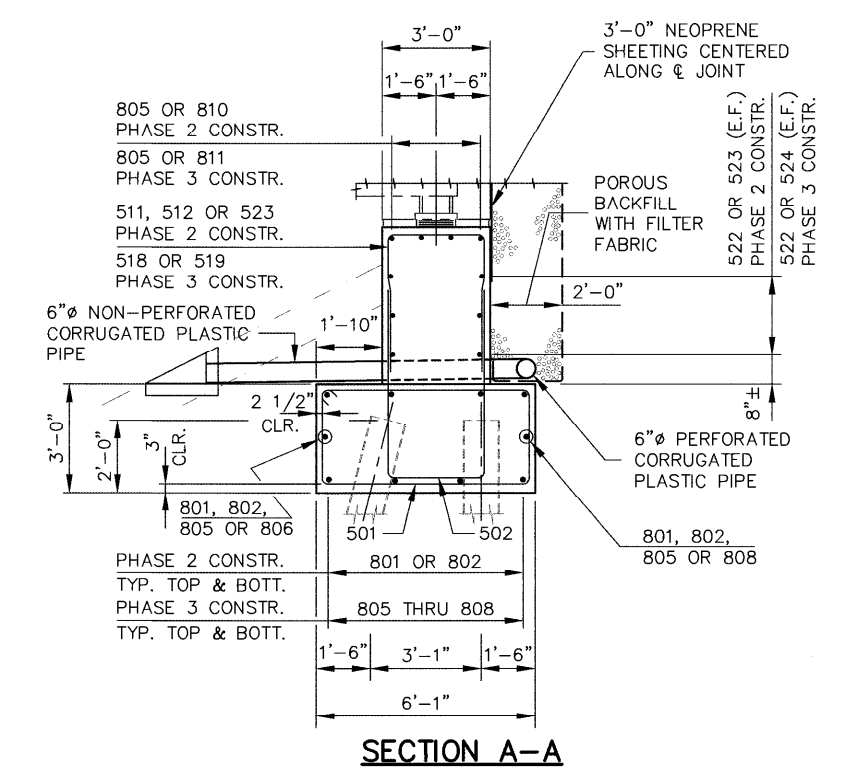
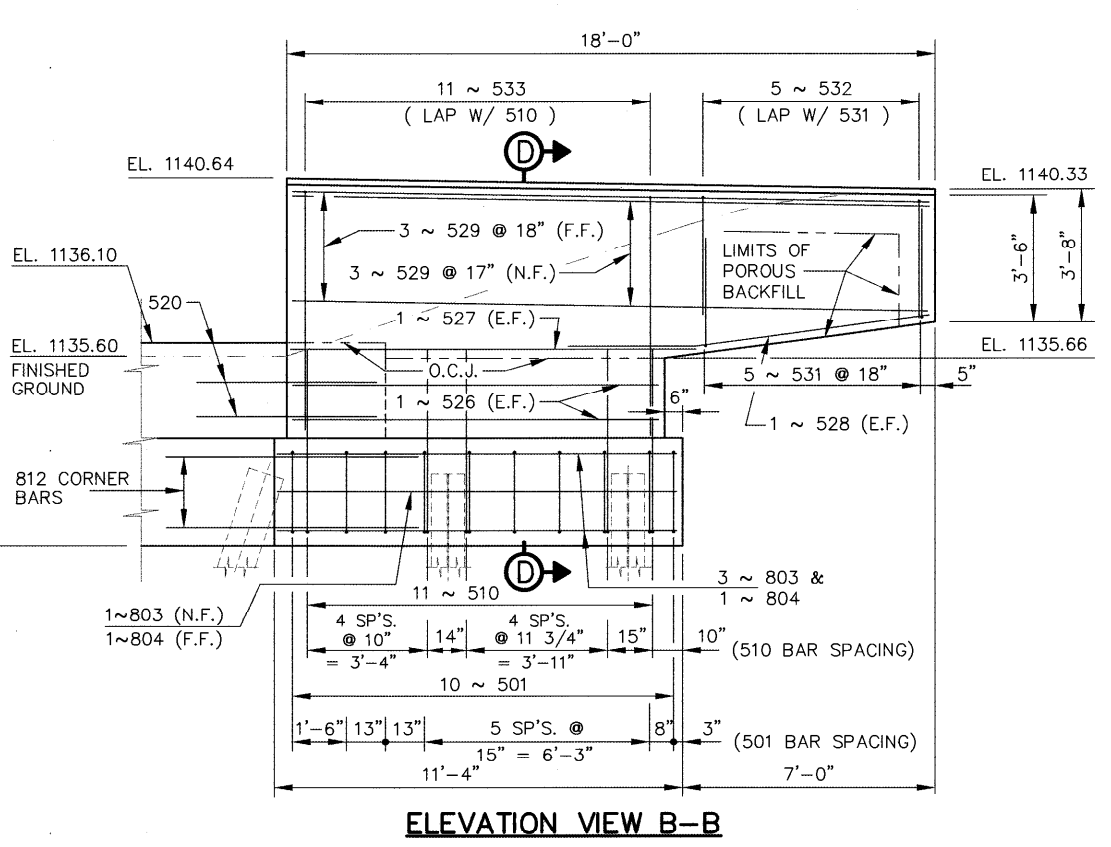
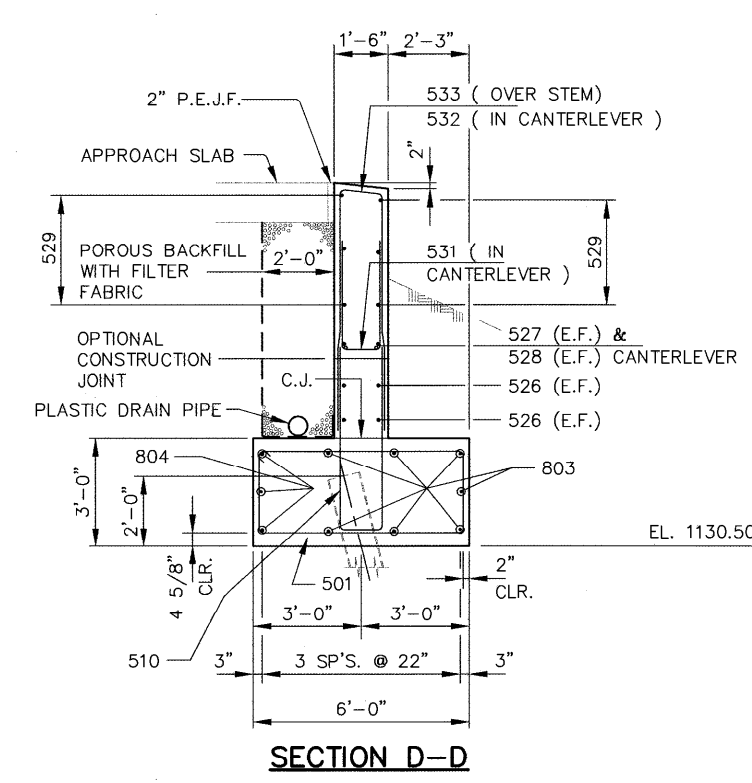
NORTHBOUND REAR ABUTMENT ~ PLAN & ELEVATION
 BRIDGE NO. RIC-71-1523 R
 OVER ROCKY FORK CREEK

RIC- 71-13.66

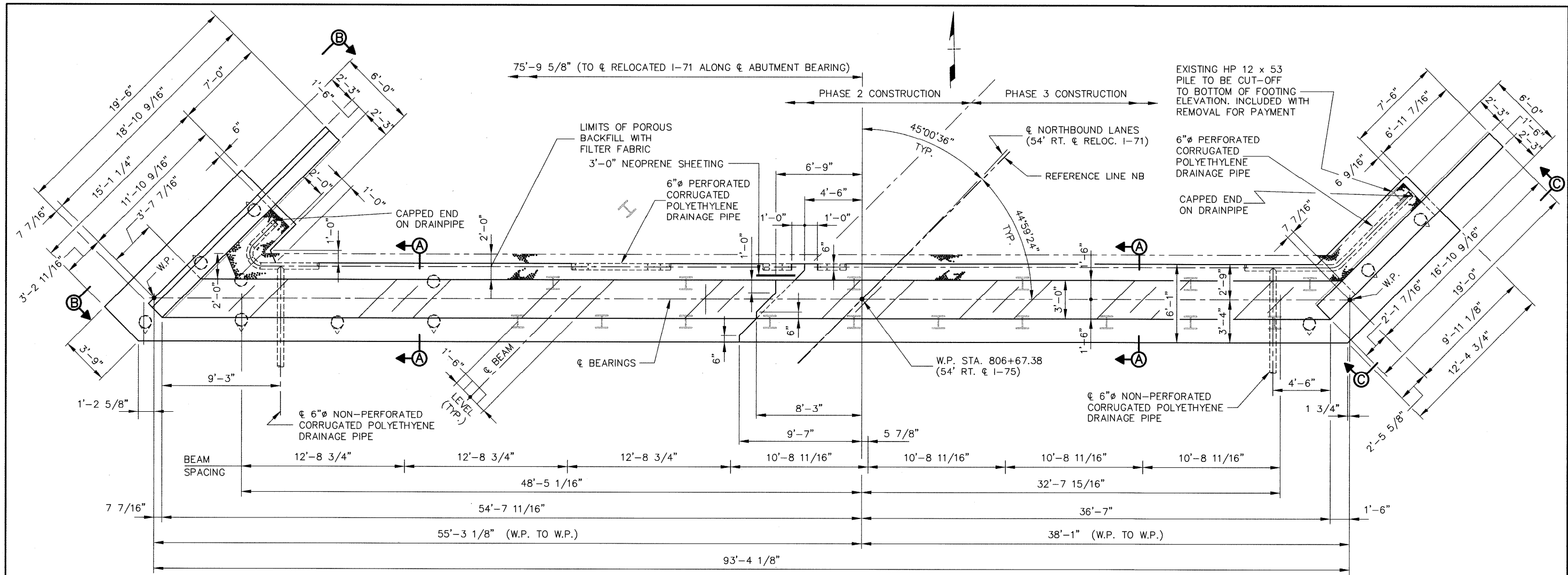
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- NOTES:**
- FOR LOCATIONS OF ELEVATION VIEWS B-B & C-C, SECTION A-A, X-X, Y-Y, AND ADDITIONAL NOTES SEE SHEET 12 OF 38.
 - MINIMUM LAP LENGTH FOR #5 BAR IS 2'-0".
MINIMUM LAP LENGTH FOR #8 BAR IS 5'-1".



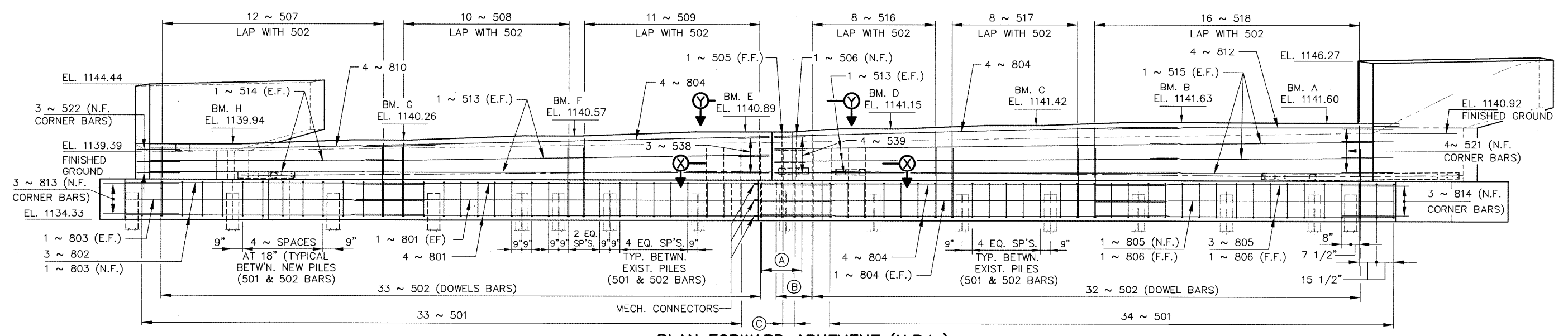
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PLAN FORWARD ABUTMENT (N.B.L.)

NOTES:

- ① THE PREFIX 2A SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND FORWARD ABUTMENT. FOR REINFORCING STEEL AND BAR BENDING DIAGRAM, SEE SHEETS 35 AND 36 OF 38.
- ② FOR SECTIONS A-A, X-X, VIEWS B-B, C-C, Y-Y AND ADDITIONAL NOTES, SEE SHEET 15 OF 38.
- ③ BEARING RETAINERS ARE REQUIRED IN ACCORDANCE WITH ODOT STD. DWG. SICD-1-96M AT BEAMS A, D AND H. PAYMENT FOR ALL LABOR, MATERIALS AND INSTALLATION OF THE RETAINER ASSEMBLIES SHALL BE INCLUDED WITH THE RESPECTIVE ITEM 516.
- ④ PAYMENT FOR ADDITIONAL NEOPRENE SHEETING AT THE CONSTRUCTION JOINTS SHALL BE INCLUDED WITH ITEM 842, CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN.



PLAN FORWARD ABUTMENT (N.B.L.)

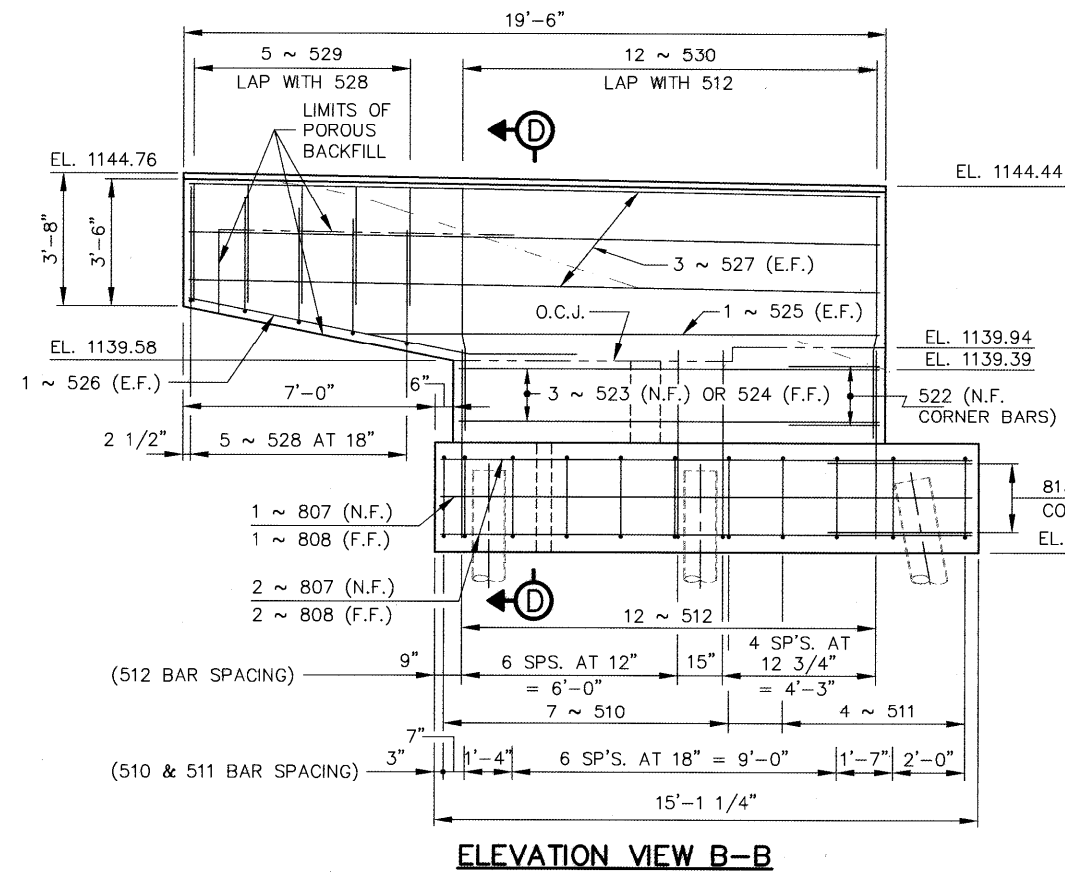
- Ⓐ DENOTES ~ 1-SER'S. 503 @ 18" (PHASE 2 CONSTRUCTION) Ⓒ DENOTES ~ 1-504 (PHASE 2 CONSTRUCTION)
 Ⓑ DENOTES ~ 1-SER'S. 503 @ 16" (PHASE 3 CONSTRUCTION) Ⓓ DENOTES ~ 1-504 (PHASE 3 CONSTRUCTION)

UFS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 584 WHITE POND DRIVE
 AKRON, OHIO 44320-1100
 DATE: 7/3/00
 REVIEWED: B.K.L.
 DRAWN: A.L.H.
 DESIGNED: A.Y.Z.
 CHECKED: C.A.R.
 STRUCTURE FILE NUMBER: 700-478 (L)
 700-4508 (R)

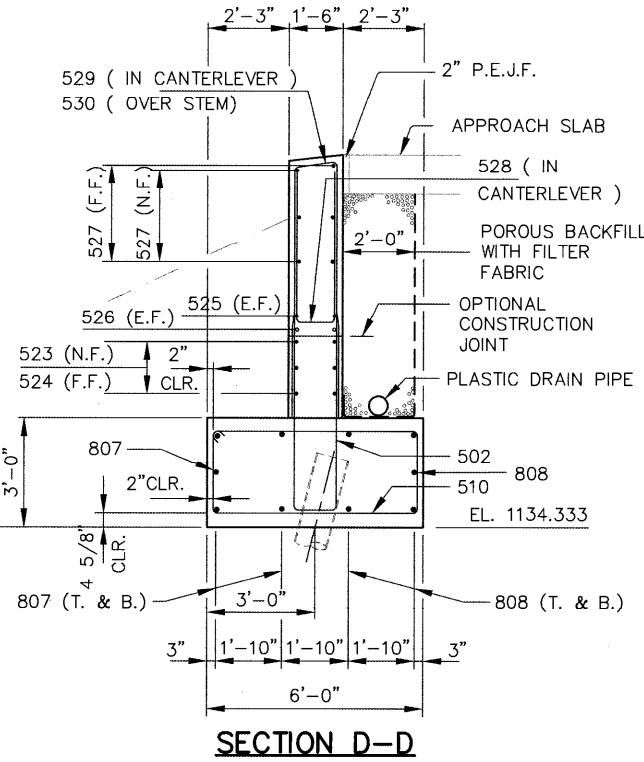
NORTHBOUND FORWARD ABUTMENT ~ PLAN & ELEVATION
 BRIDGE NO. RIC-71-1523 R
 OVER ROCKY FORK CREEK

RIC- 71-13.66
 14/38
 489
 633

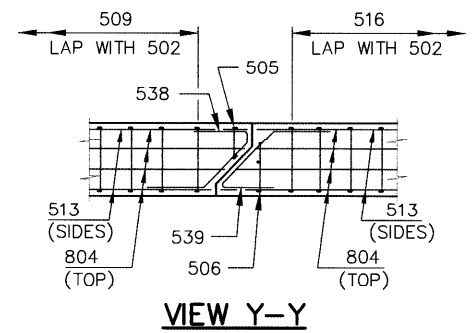
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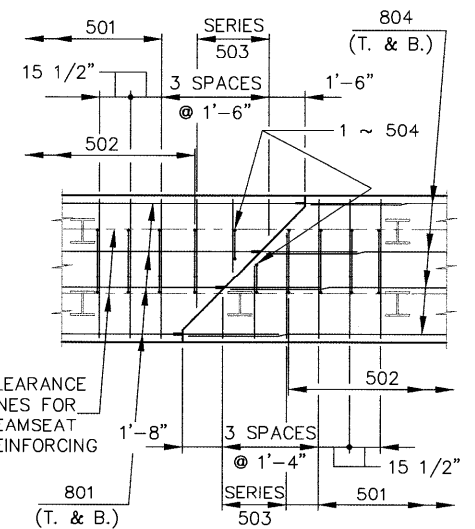
ELEVATION VIEW B-B



SECTION D-D



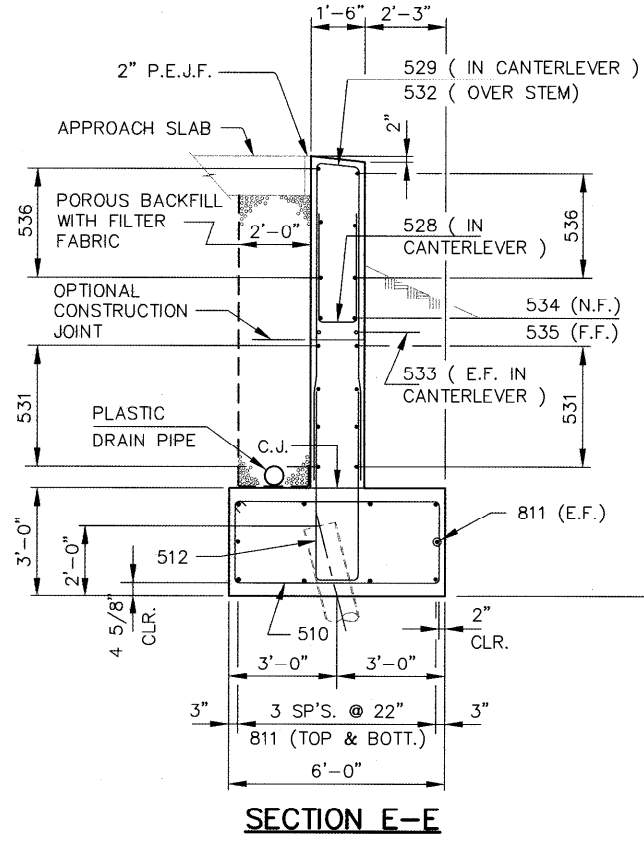
VIEW Y-Y



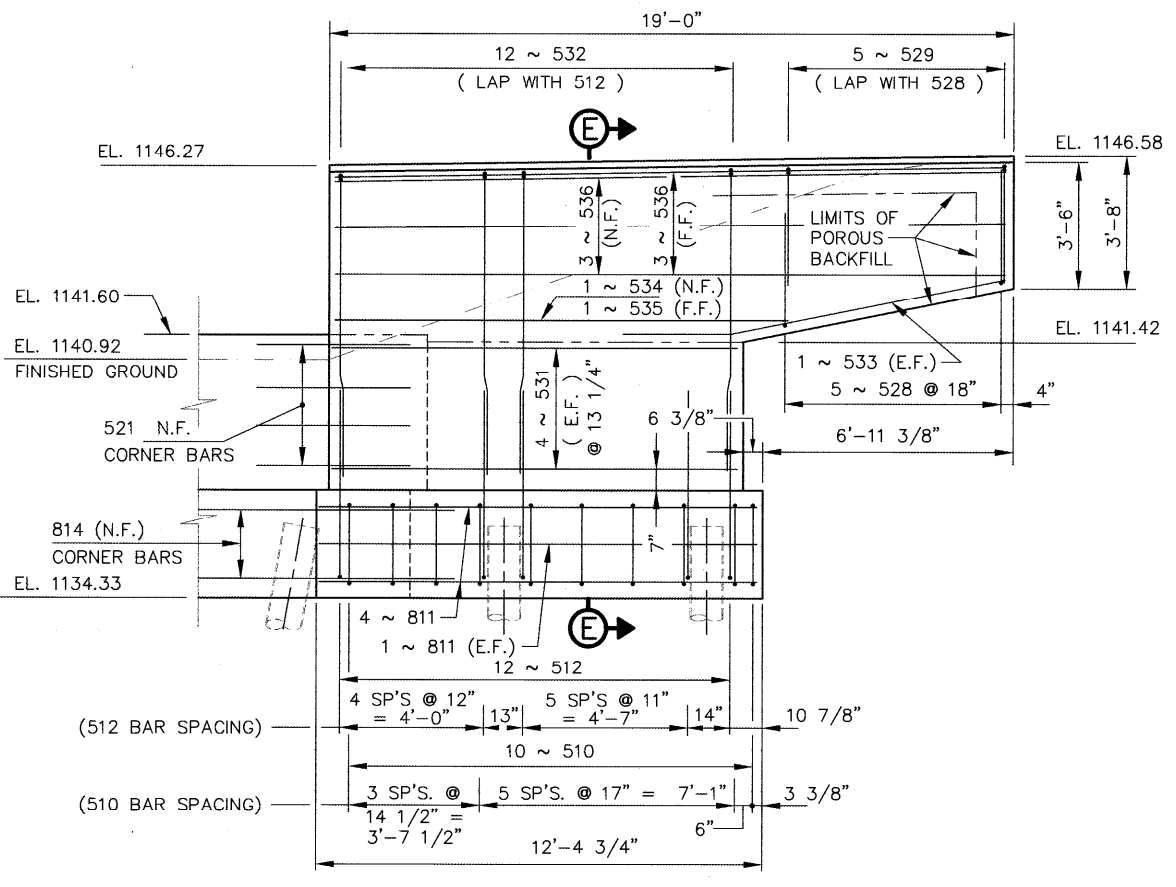
SECTION X-X

NOTE:

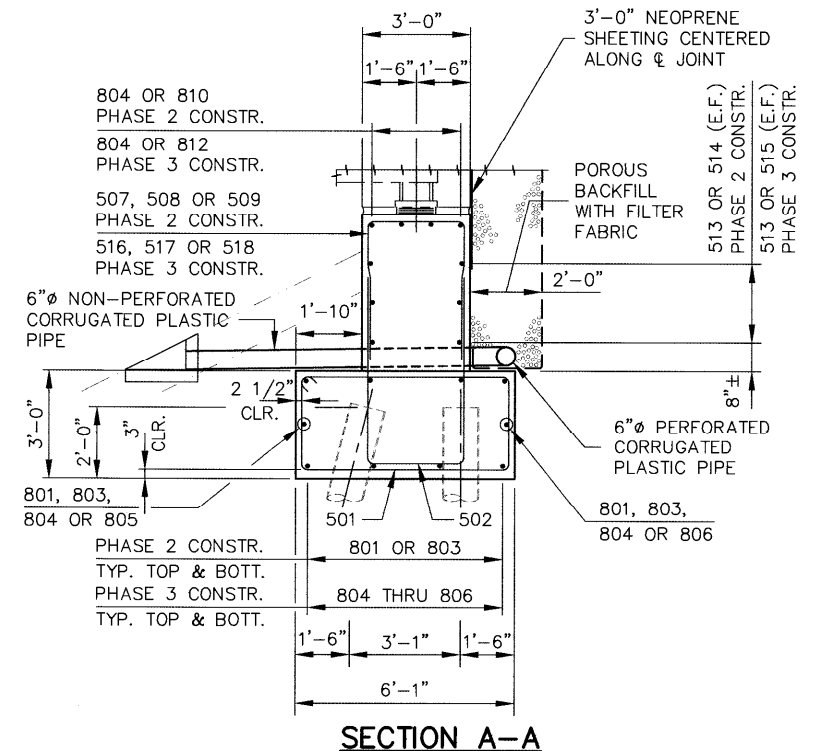
- ① FOR LOCATIONS OF ELEVATION VIEWS B-B & C-C, SECTION A-A, X-X, Y-Y, AND ADDITIONAL NOTES SEE SHEET 14 OF 38.
- ② MINIMUM LAP LENGTH FOR #5 BAR IS 2'-0". MINIMUM LAP LENGTH FOR #8 BAR IS 5'-1".



SECTION E-E

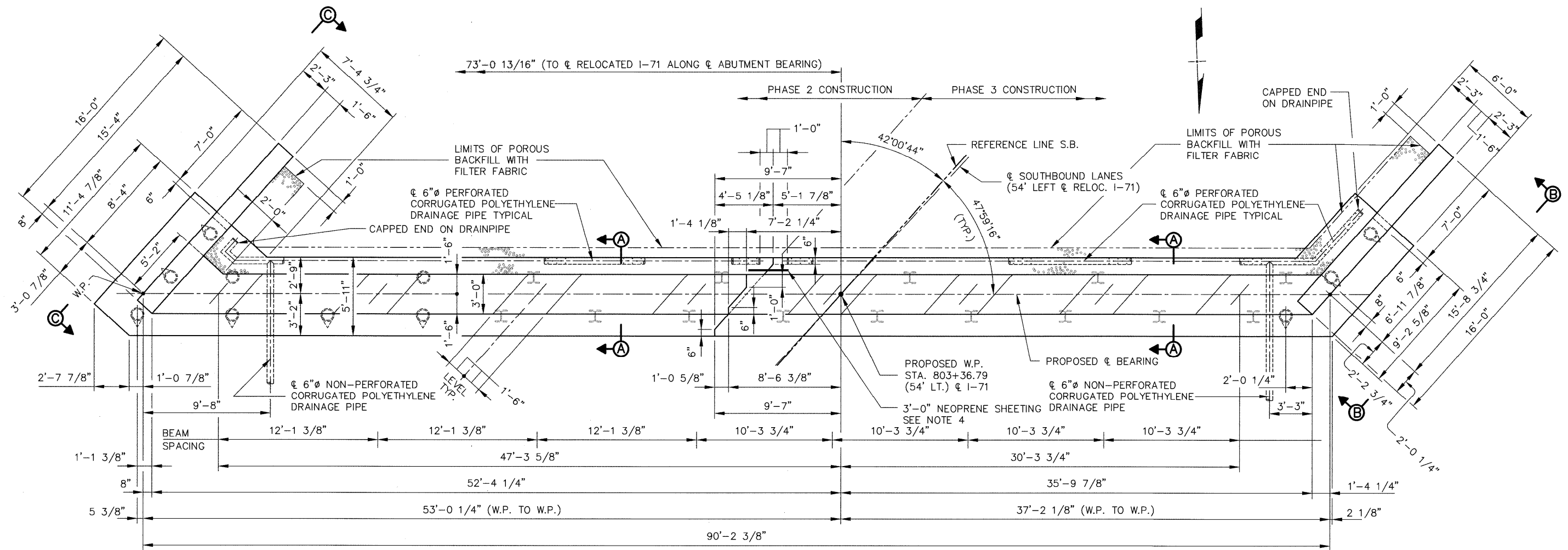


ELEVATION VIEW C-C



SECTION A-A

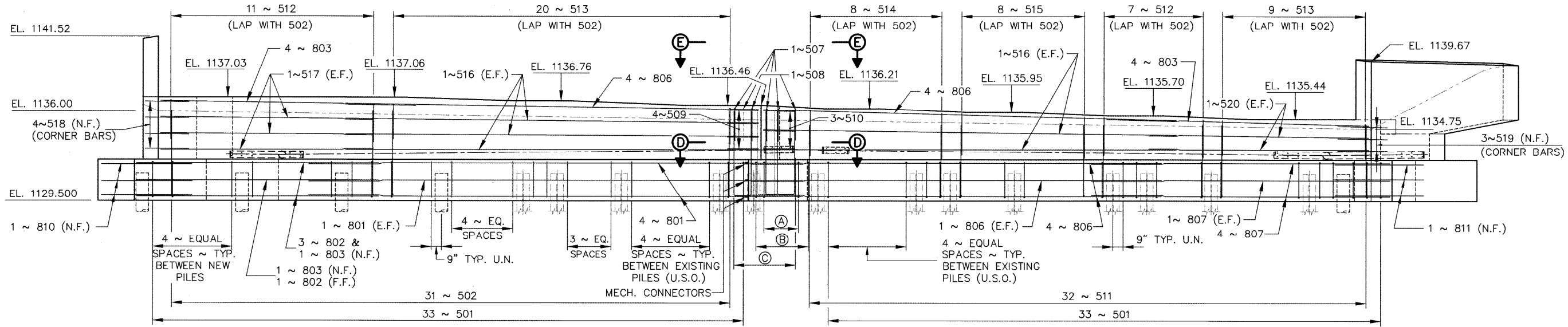
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PLAN REAR ABUTMENT (S.B.L.)

NOTES:

- ① THE PREFIX 3A SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND FORWARD ABUTMENT. FOR REINFORCING STEEL AND BAR BENDING DIAGRAM, SEE SHEETS 37 AND 38 OF 38.
- ② FOR SECTIONS A-A, D-D, VIEWS B-B, C-C, E-E AND ADDITIONAL NOTES, SEE SHEET 17 OF 38.
- ③ BEARING RETAINERS ARE REQUIRED IN ACCORDANCE WITH ODOT STD. DWG. SICD-1-96M AT BEAMS A, D AND H. PAYMENT FOR ALL LABOR, MATERIALS AND INSTALLATION OF THE RETAINER ASSEMBLIES SHALL BE INCLUDED WITH THE RESPECTIVE ITEM 516.
- ④ PAYMENT FOR ADDITIONAL NEOPRENE SHEETING AT THE CONSTRUCTION JOINTS SHALL BE INCLUDED WITH ITEM 842, CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN.



ELEVATION REAR ABUTMENT (S.B.L.)

(U.S.O.) DENOTES ~ UNLESS SHOWN OTHERWISE

- Ⓐ DENOTES 1~SER'S. 503 AT 1'-3" (PHASE 2 CONSTRUCTION)
- Ⓑ DENOTES 1~SER'S. 504 AT 1'-3" (PHASE 3 CONSTRUCTION)
- Ⓒ DENOTES 2~505 & 2~506 (PHASE 2 CONSTRUCTION)
1~505 & 1~506 (PHASE 3 CONSTRUCTION)

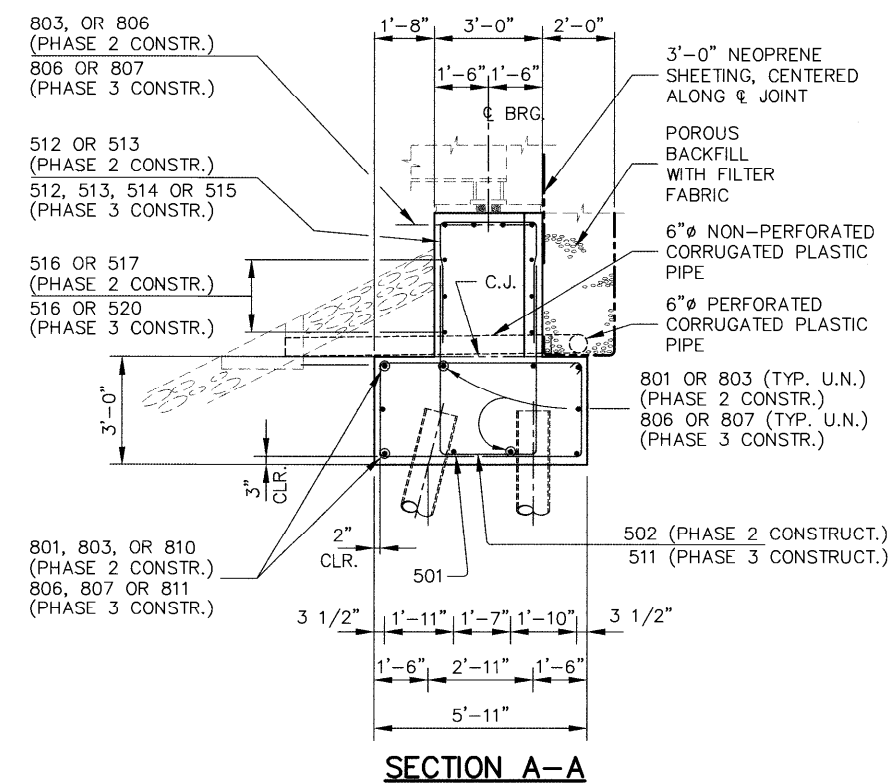
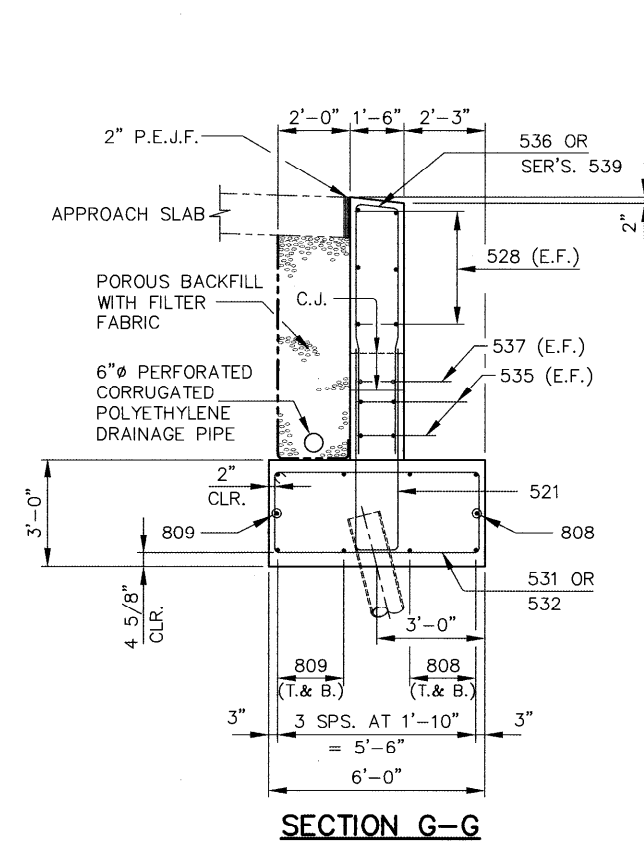
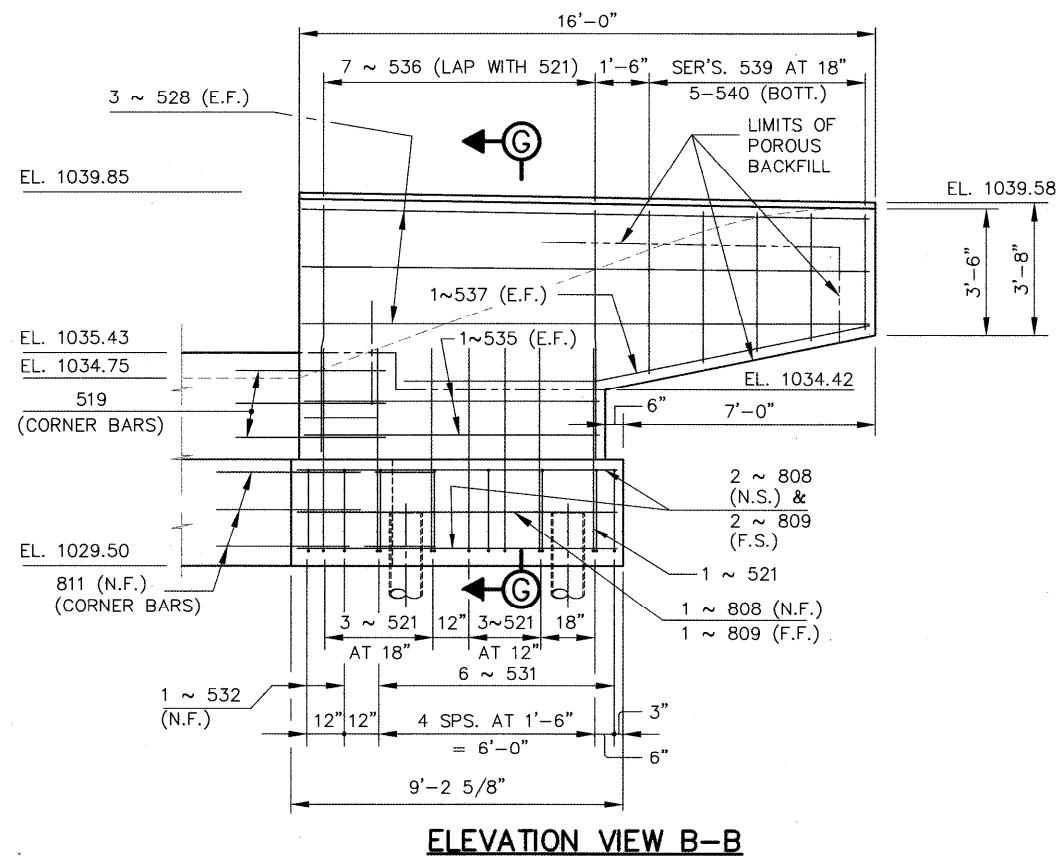
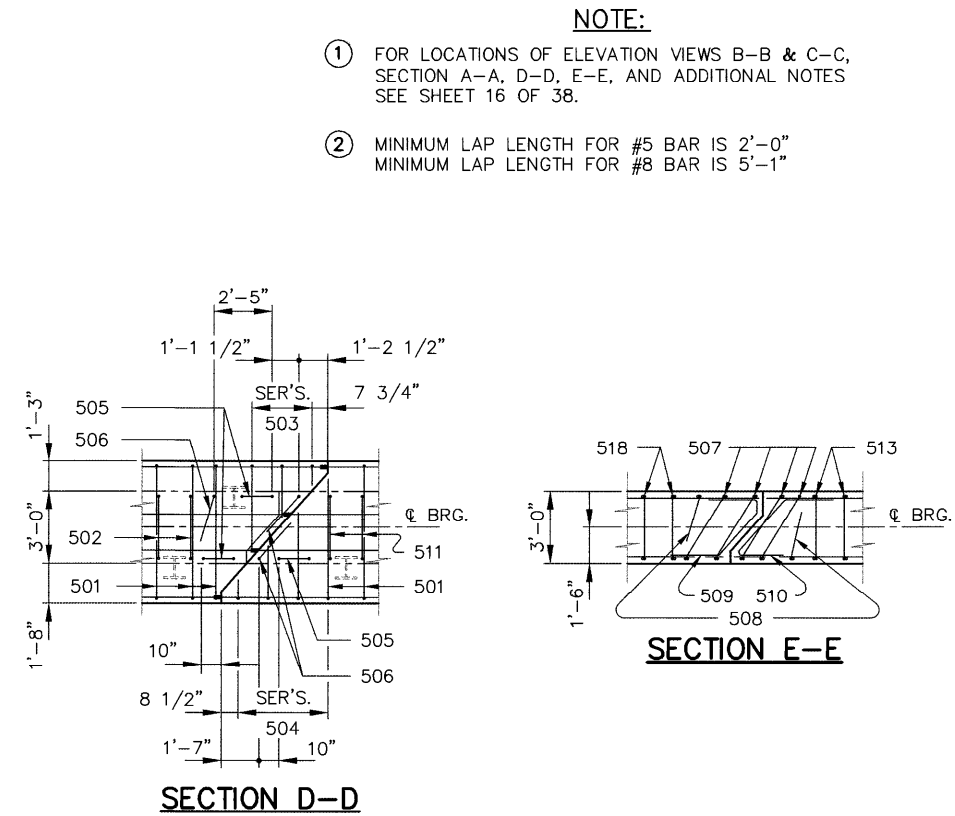
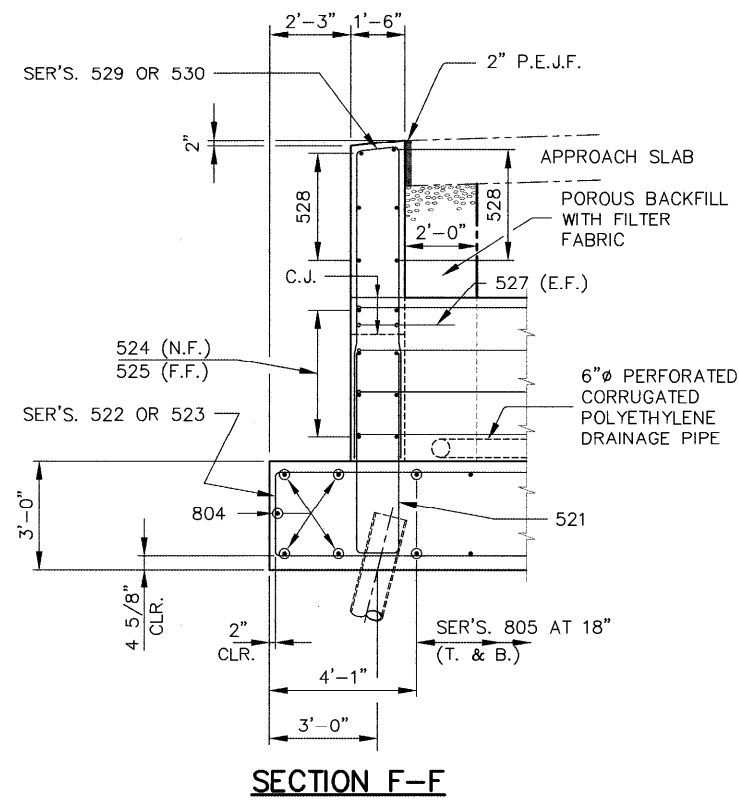
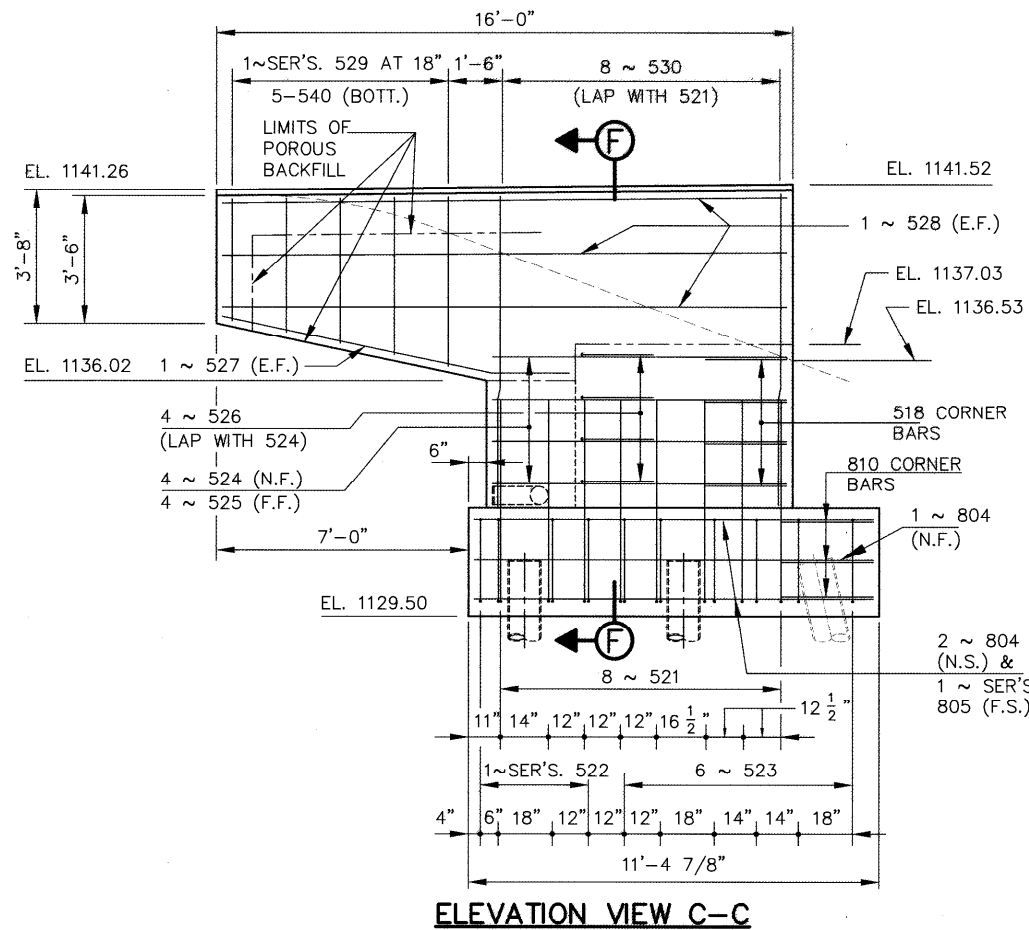
URS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 564 WHITE POND DRIVE
 ABRON, OHIO
 44320-1100

SOUTHBOUND REAR ABUTMENT ~ PLAN & ELEVATION
 BRIDGE NO. RIC-71-1523 L
 OVER ROCKY FORK CREEK

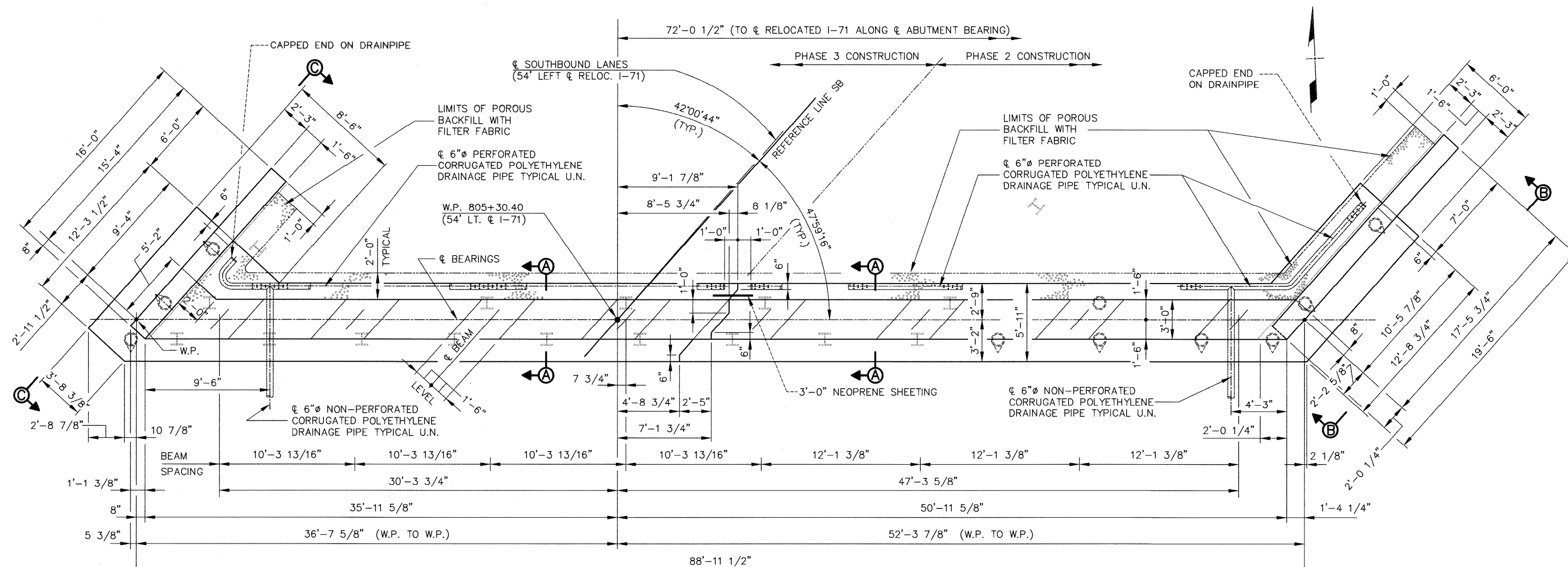
DESIGNED A.Y.Z. CHECKED C.A.R.
 DRAWN A.L.H. REVISED
 REVIEWED B.K.L. STRUCTURE FILE NUMBER 7004478 (L) 7004508 (R)
 DATE 07/03/00

RIC- 71-13.66
 16/38
 491
 633

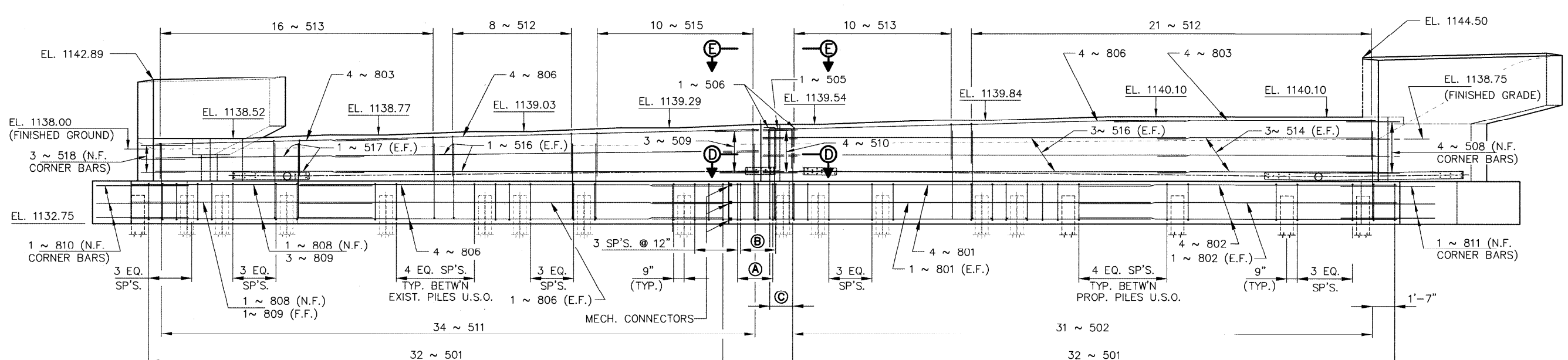
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PLAN ~ FORWARD ABUTMENT (S.B.L.)



ELEVATION ~ FORWARD ABUTMENT (S.B.L.)

- (A) DENOTES 1~SER'S. 503 AT 16" (PHASE 2 CONSTRUCTION)
- (B) DENOTES 1~SER'S. 507 AT 15" (PHASE 3 CONSTRUCTION)
- (C) DENOTES 2~504 (PHASE 2 CONSTRUCTION) AND 2~504 (PHASE 3 CONSTRUCTION)

- NOTES:
- 1 THE PREFIX 4A SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND FORWARD ABUTMENT. FOR REINFORCING STEEL AND BAR BENDING DIAGRAM, SEE SHEETS 37 AND 38 OF 38.
 - 2 FOR SECTIONS A-A, D-D, VIEWS B-B, C-C, E-E AND ADDITIONAL NOTES, SEE SHEET 19 OF 38.
 - 3 BEARING RETAINERS ARE REQUIRED IN ACCORDANCE WITH ODOT STD. DWG. SICD-1-96M AT BEAMS J, M AND R. PAYMENT FOR ALL LABOR, MATERIALS AND INSTALLATION OF THE RETAINER ASSEMBLIES SHALL BE INCLUDED WITH THE RESPECTIVE ITEM 516.
 - 4 PAYMENT FOR ADDITIONAL NEOPRENE SHEETING AT THE CONSTRUCTION JOINTS SHALL BE INCLUDED WITH ITEM 842, CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING, AS PER PLAN.

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 AKRON, OHIO 44320-1100

DESIGNED	A.Y.Z.	CHECKED	C.A.R.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	STRUCTURE FILE NUMBER	7004478 (L)
DATE	07/03/00		7004508 (R)

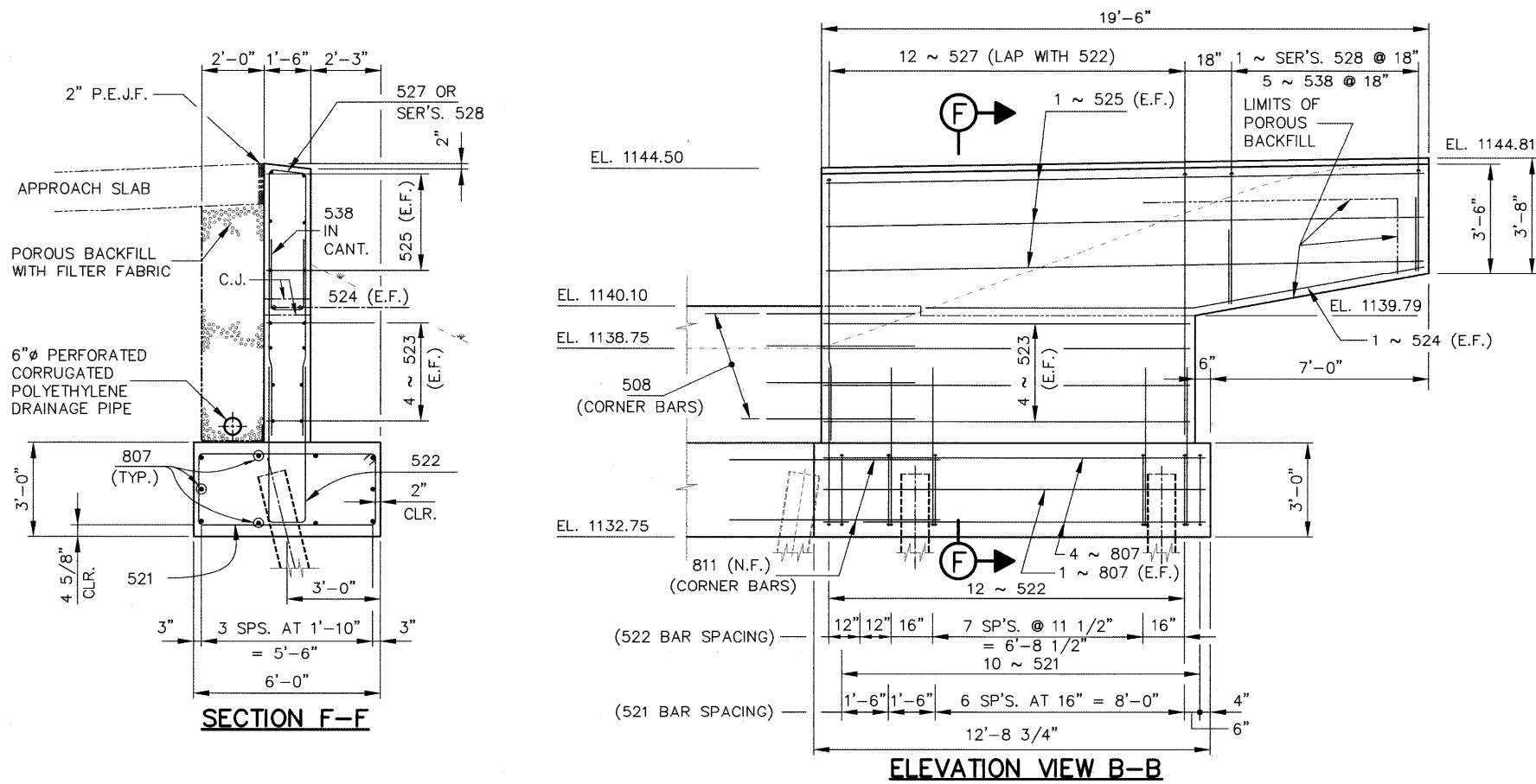
SOUTHBOUND FORWARD ABUTMENT ~ PLAN & ELEVATION
 BRIDGE NO. RIC-71-1523 L
 OVER ROCKY FORK CREEK

RIC- 71-13.66

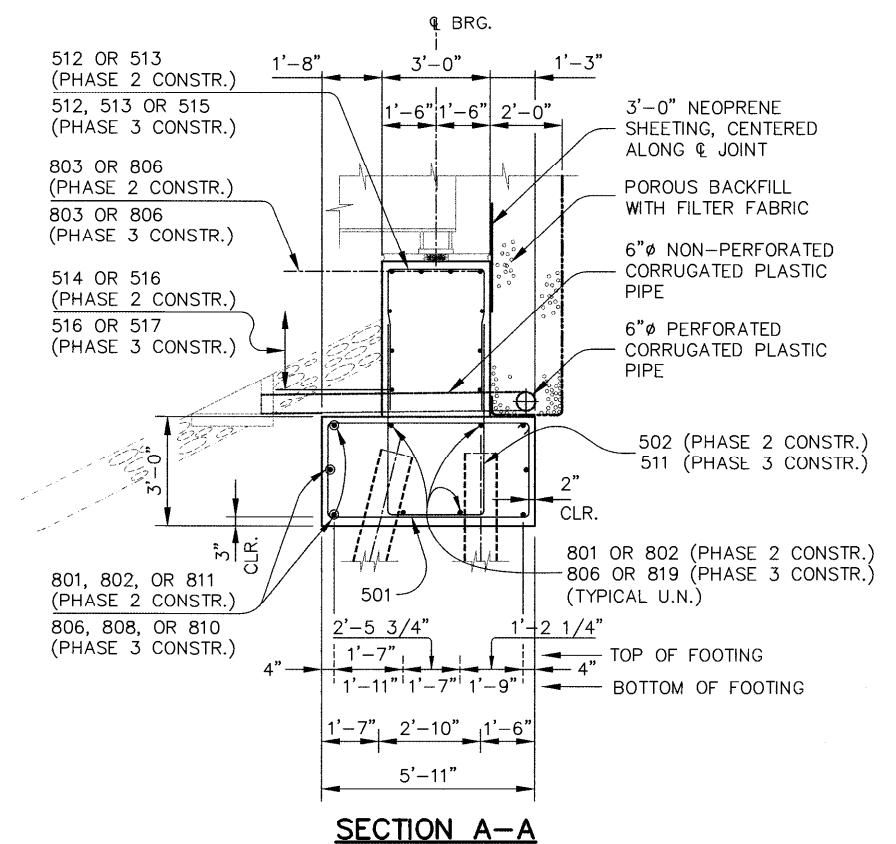
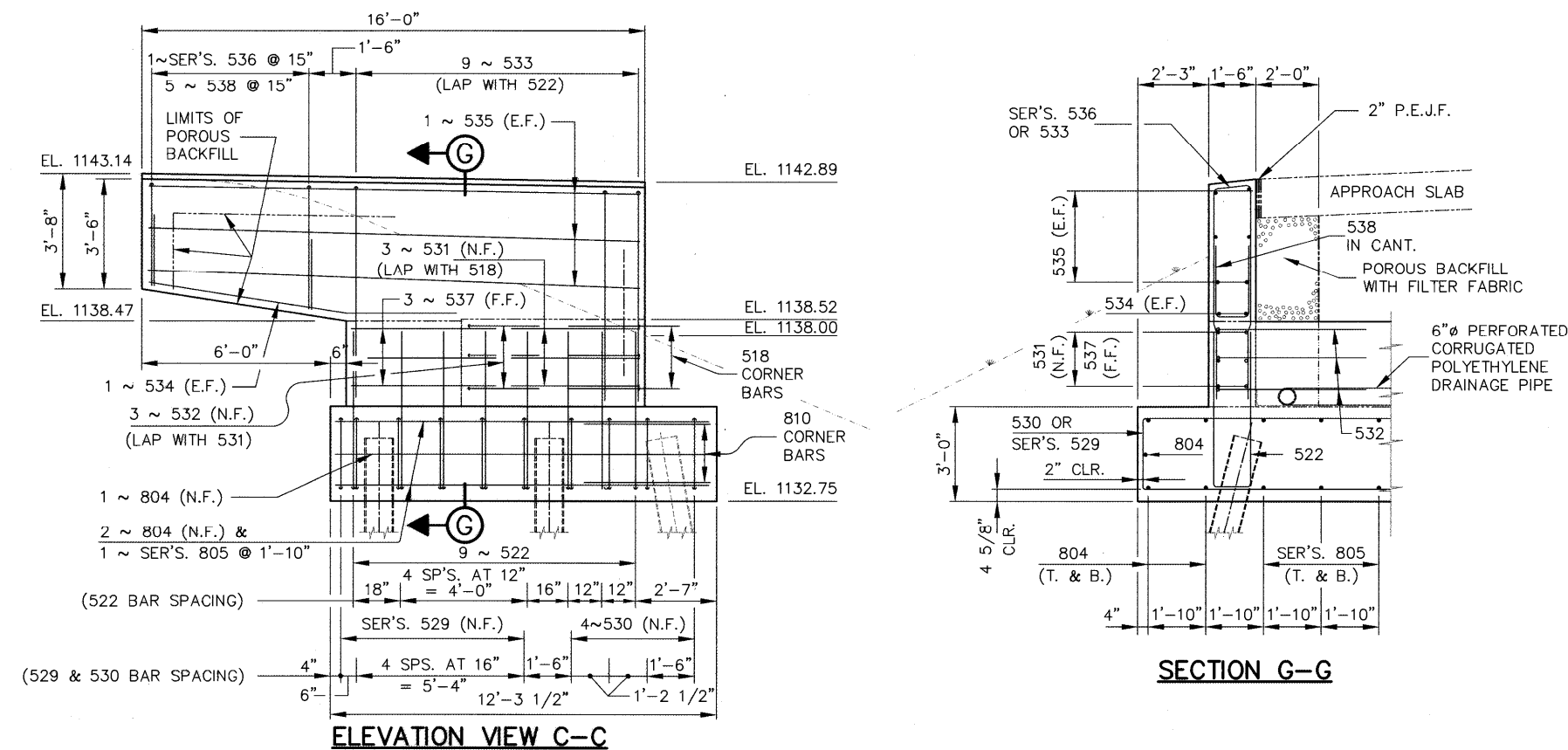
18/38

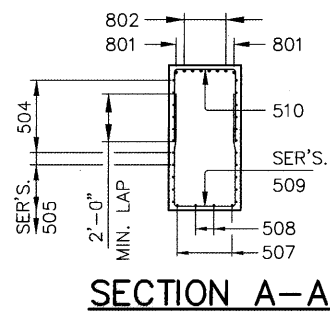
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 633

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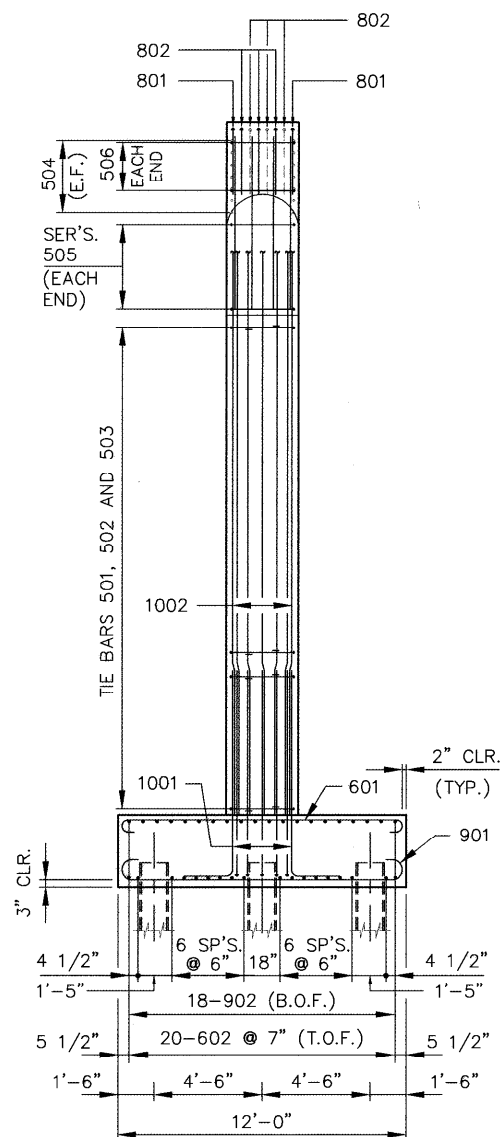


- NOTES:**
- FOR LOCATION OF SECTIONS AND VIEWS A-A, B-B, C-C, D-D, E-E AND ADDITIONAL NOTES SEE SHEET 18 OF 38.
 - MINIMUM LAP LENGTH FOR #5 BAR IS 2'-0".
MINIMUM LAP LENGTH FOR #8 BAR IS 5'-1".

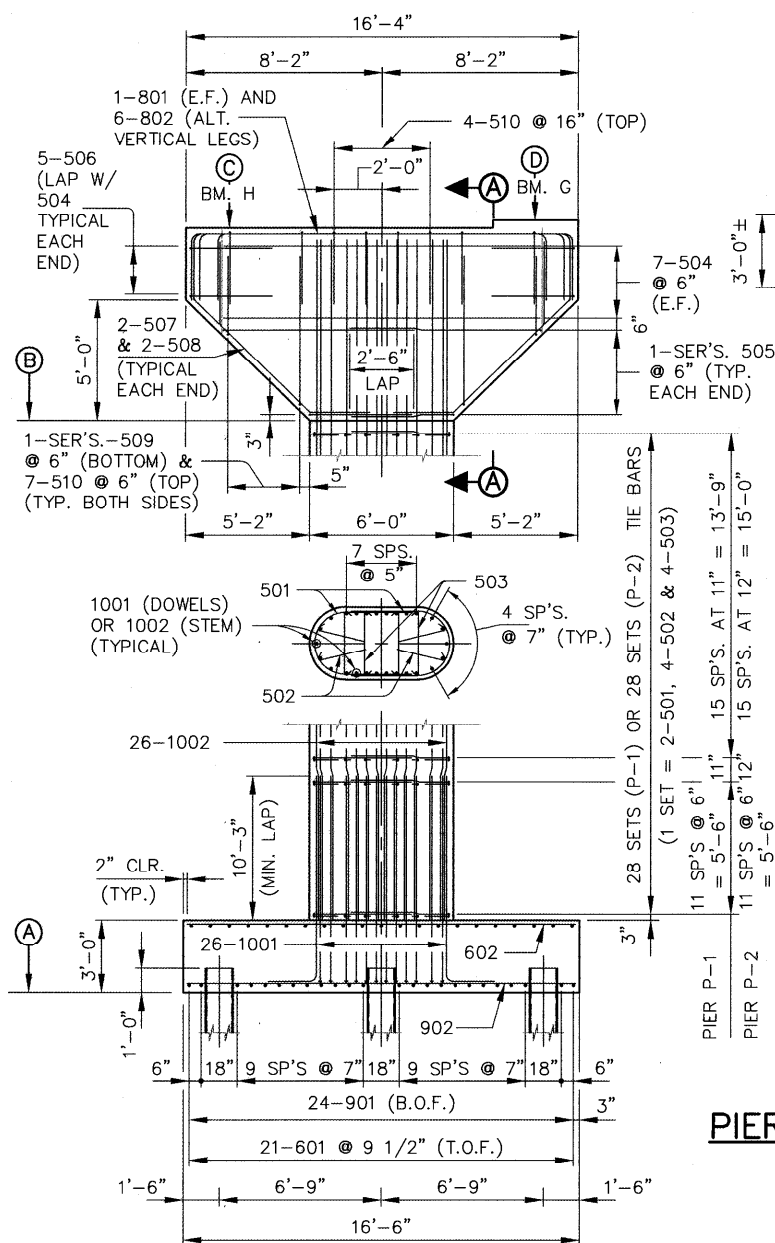




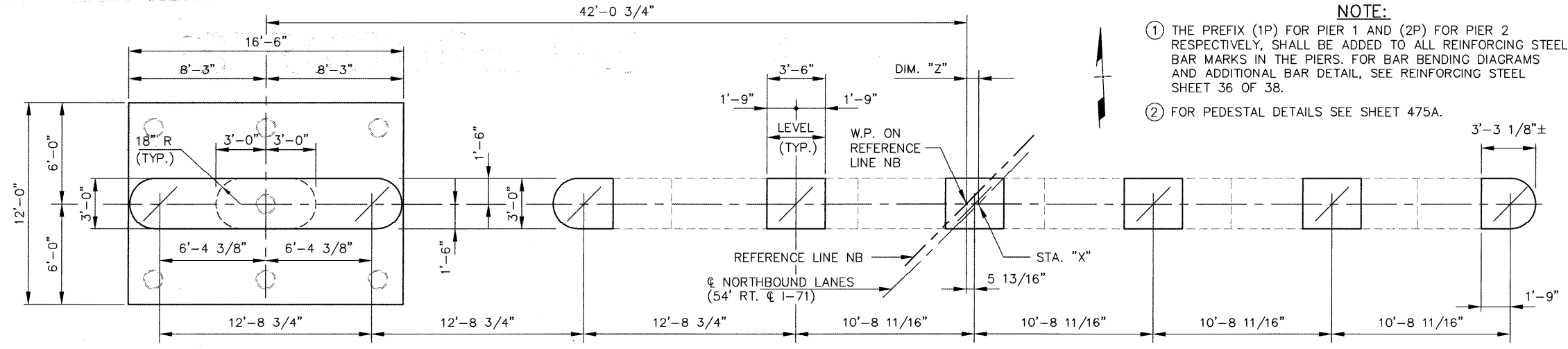
SECTION A-A



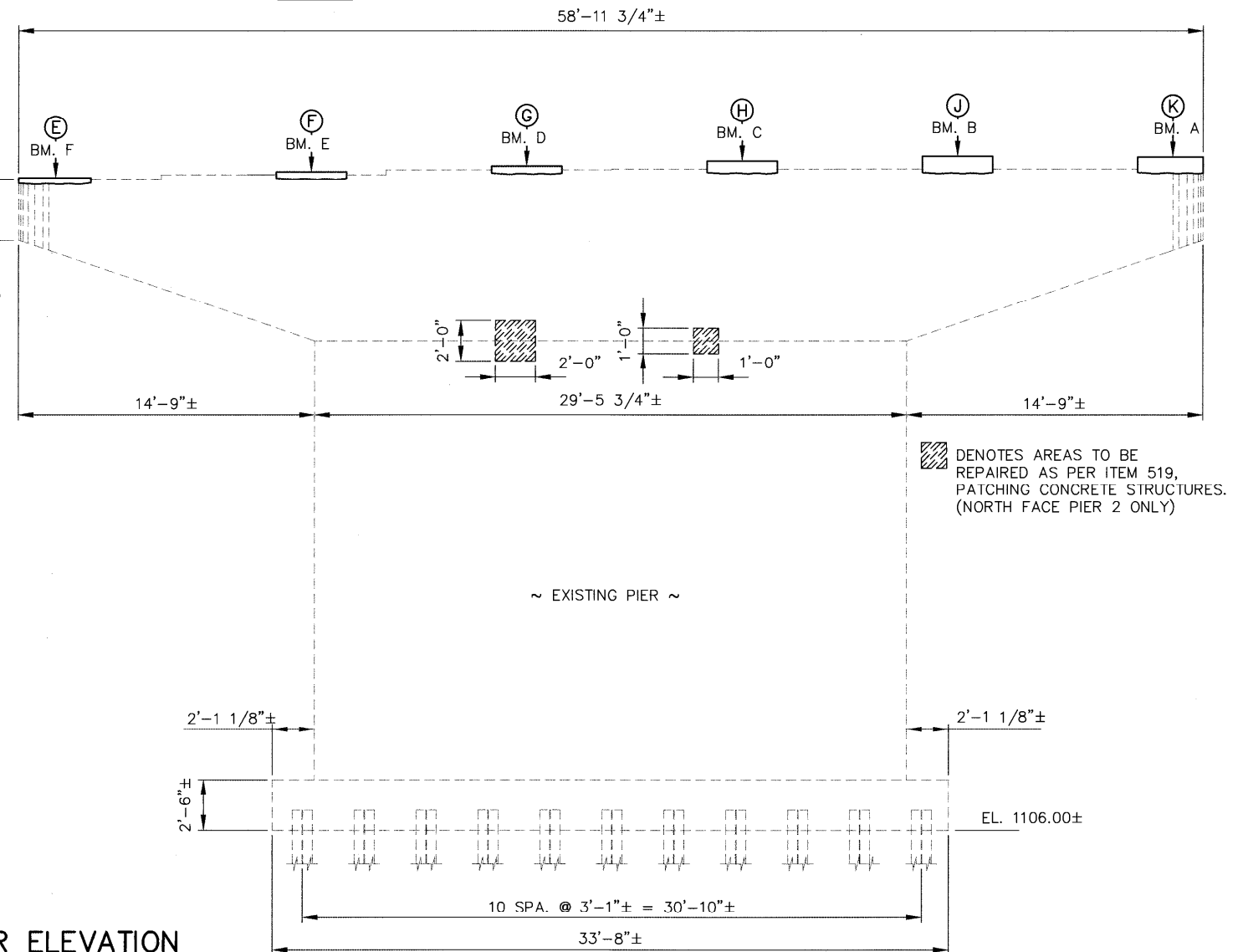
PIER SIDE ELEVATION



PIER ELEVATION



PLAN

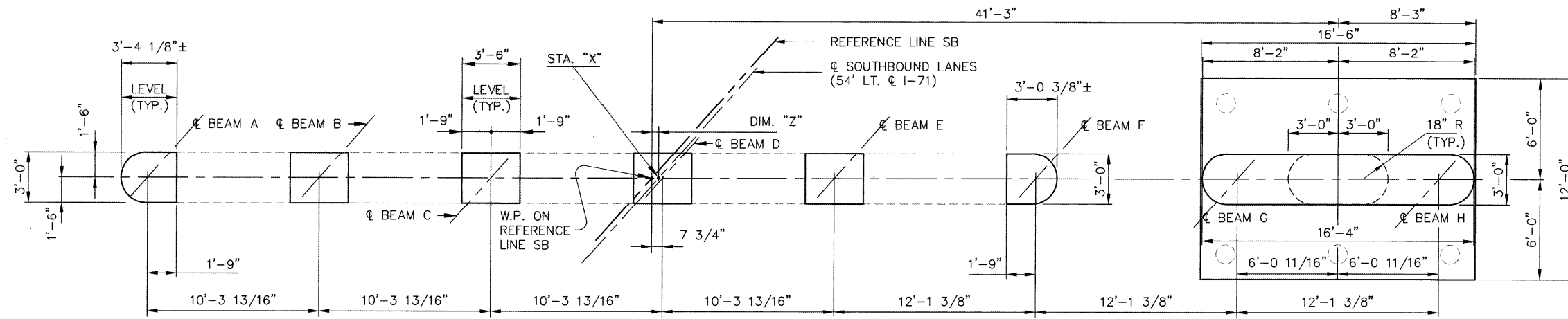


██ DENOTES AREAS TO BE REPAIRED AS PER ITEM 519, PATCHING CONCRETE STRUCTURES. (NORTH FACE PIER 2 ONLY)

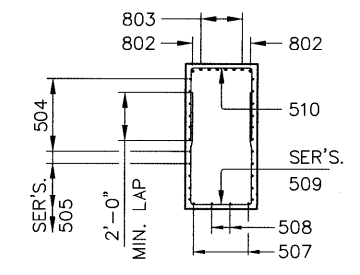
EXISTING BEAM SEAT ELEVATIONS						
LOCATION	ELEV. "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"	ELEV. "J"	ELEV. "K"
PIER 1	1138.23±	1138.46±	1138.75±	1138.76±	1138.77±	1138.75±
PIER 2	1139.65±	1139.94±	1140.20±	1140.26±	1140.23±	1140.20±

TABLE OF DIMENSIONS AND ELEVATIONS												
LOCATION	STA. "X"	DIM "Z"	ELEV. "A"	ELEV. "B"	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"	ELEV. "J"	ELEV. "K"
PIER 1	805+01.51	8 11/16"	1106.00	1129.72	1137.72	1138.04	1138.35	1138.66	1138.93	1139.20	1139.43	1139.40
PIER 2	805+93.12	8 5/8"	1106.00	1131.19	1139.19	1139.50	1139.82	1140.13	1140.40	1140.67	1140.90	1140.86

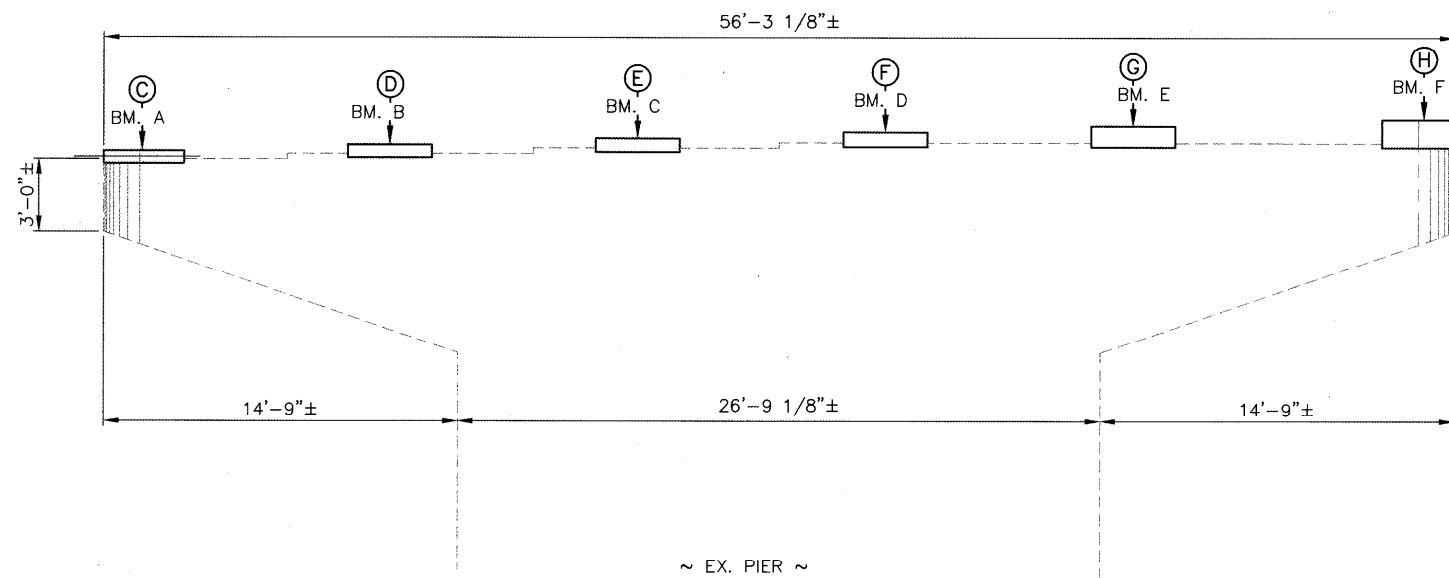
- NOTE:**
- THE PREFIX (1P) FOR PIER 1 AND (2P) FOR PIER 2 RESPECTIVELY, SHALL BE ADDED TO ALL REINFORCING STEEL BAR MARKS IN THE PIERS. FOR BAR BENDING DIAGRAMS AND ADDITIONAL BAR DETAIL, SEE REINFORCING STEEL SHEET 36 OF 38.
 - FOR PEDESTAL DETAILS SEE SHEET 475A.



PIER PLAN



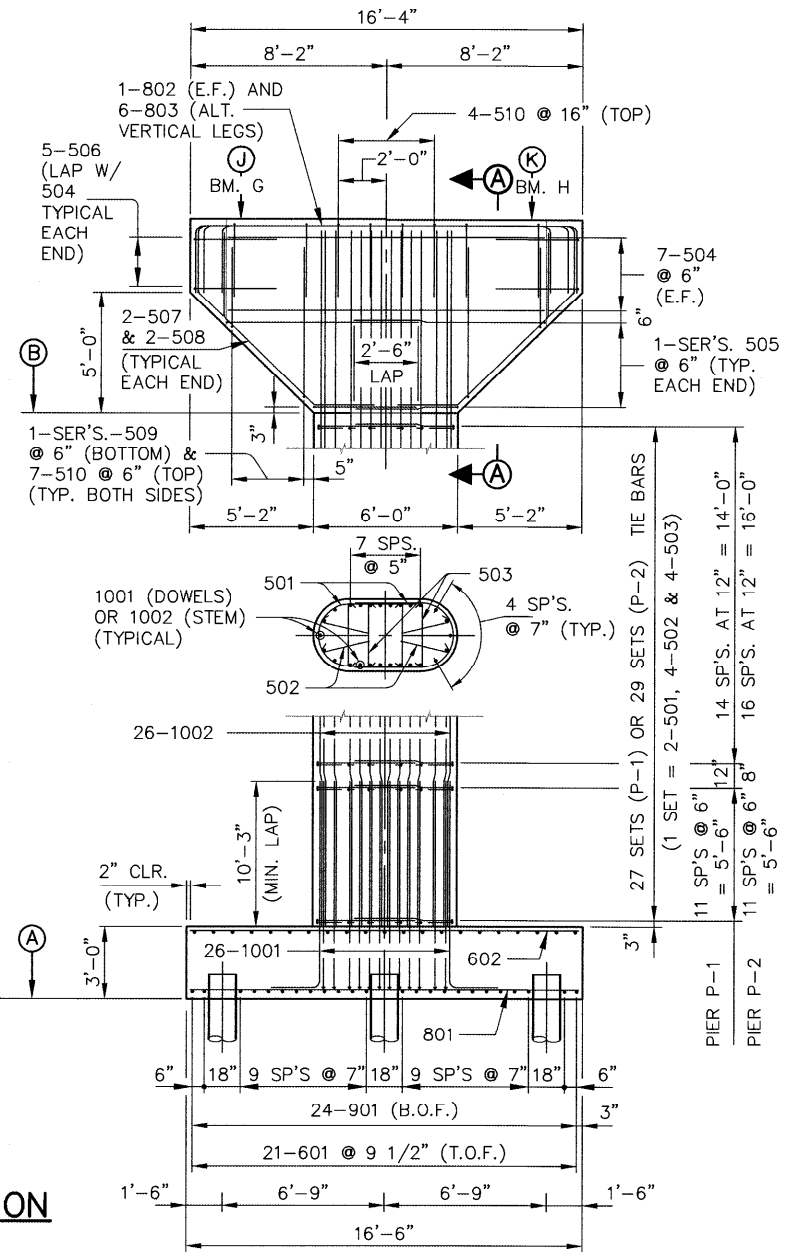
SECTION A-A



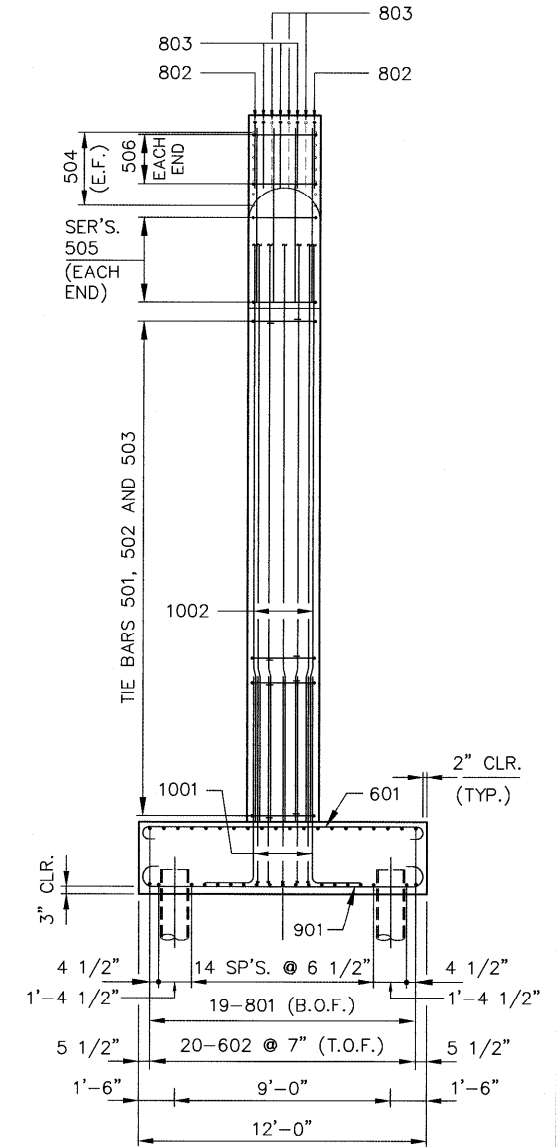
NOTE:

- 1 THE PREFIX (3P) FOR PIER 3 AND (4P) FOR PIER 4 RESPECTIVELY SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE PIERS. FOR BAR BENDING DIAGRAM AND ADDITIONAL BAR DETAIL, SEE REINFORCING STEEL SHEET 38 OF 38.
- 2 FOR PEDESTAL DETAILS SEE SHEET 475A.

~ EX. PIER ~



PIER ELEVATION



PIER SIDE ELEVATION

EXISTING BEAM SEAT ELEVATIONS						
LOCATION	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"
PIER 3	1136.34±	1136.59±	1136.83±	1137.04±	1137.02±	1136.95±
PIER 4	1137.72±	1137.97±	1138.20±	1138.44±	1138.40±	1138.37±

TABLE OF DIMENSIONS AND ELEVATIONS												
LOCATION	STA. "X"	DIM "Z"	ELEV. "A"	ELEV. "B"	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"	ELEV. "J"	ELEV. "K"
PIER 3	803+90.48	4 7/8"	1106.00	1130.28	1136.68	1136.93	1137.19	1137.44	1137.70	1138.00	1138.30	1138.26
PIER 4	804+77.25	4 7/8"	1106.00	1131.68	1138.05	1138.31	1138.57	1138.82	1139.08	1139.38	1139.68	1139.65

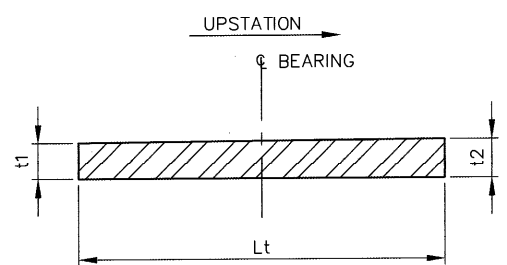
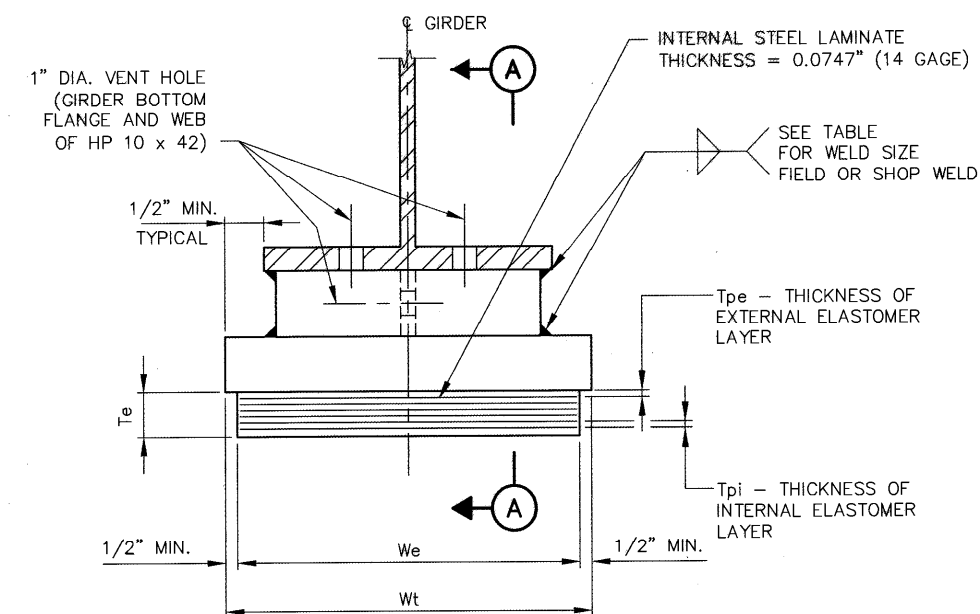
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NOTES

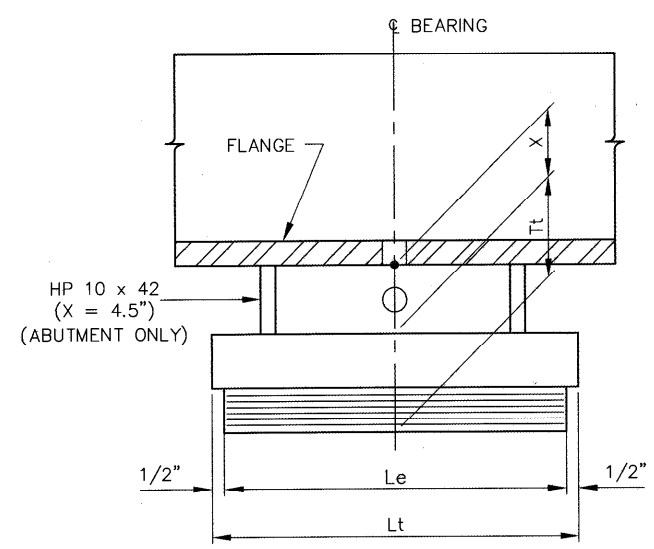
- ELASTOMERIC BEARINGS SHALL COMPLY WITH ITEM 516 AND AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, SECTION 18, BEARING DEVICES, DIVISION II, CONSTRUCTION, ARTICLES 18.4.5.1 AND 18.5.6.2. BEARINGS SHALL BE GRADE 3, 50 DUROMETER ELASTOMER, AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS DEFINED IN ARTICLE 18.7.4.5 OF THE AASHTO DOCUMENT LISTED ABOVE. BEARINGS WERE DESIGNED UNDER SECTION 14.6.6 OF SECTION 14, BEARINGS, DIVISION I, DESIGN. TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARINGS, EACH.
- WELDING SHALL BE CONTROLLED SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- BEARING REPOSITIONING: IF THE STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80° F OR LOWER THAN 40° F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60° F (± 10° F), THE BEAMS OR GIRDERS SHALL BE RAISED TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60° F (± 10° F).
- THE STEEL LOAD PLATE SHALL BE ASTM A572 GRADE 50 STEEL.
- THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.
- TOTAL DESIGN LOAD FOR BEARINGS EQUALS THE SUM OF THE DEAD LOADS AND LIVE LOADS TABULATED IN THE BEARING TABLE.
- HP STEEL SHAPE IS INCLUDED WITH ITEM 516 ELASTOMERIC BEARINGS FOR PAYMENT.

THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR, TESTING AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS, EITHER FIXED OR EXISTING, SAMPLE BEARINGS SHALL NOT BE MEASURED FOR PAYMENT.

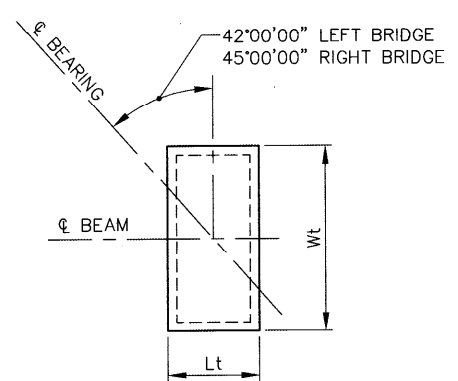
PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516, EACH, ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE): 14" x 9" x 2.46" WITH 15" x 10" LOAD PLATE, 18" x 12" x 1.77" WITH 19" x 13" LOAD PLATE, 16" x 9.5" x 2.96" WITH 17" x 10.5" LOAD PLATE, AND 20" x 13" x 1.95" WITH 21" x 14" LOAD PLATE.
- BEARING RETAINER ASSEMBLIES ARE REQUIRED AT THE ABUTMENTS IN ACCORDANCE WITH ODOT STD. DWG. SICD-1-96M. PAYMENT FOR ALL LABOR, MATERIALS AND INSTALLATION OF THE RETAINERS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ABUTMENT BEARINGS.



**DETAIL "A"
STEEL LOAD PLATE**



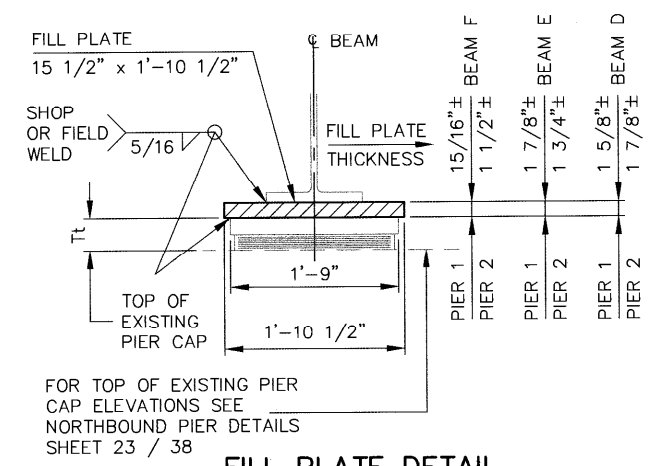
**SECTION A-A
LAMINATED ELASTOMERIC
EXPANSION BEARING**



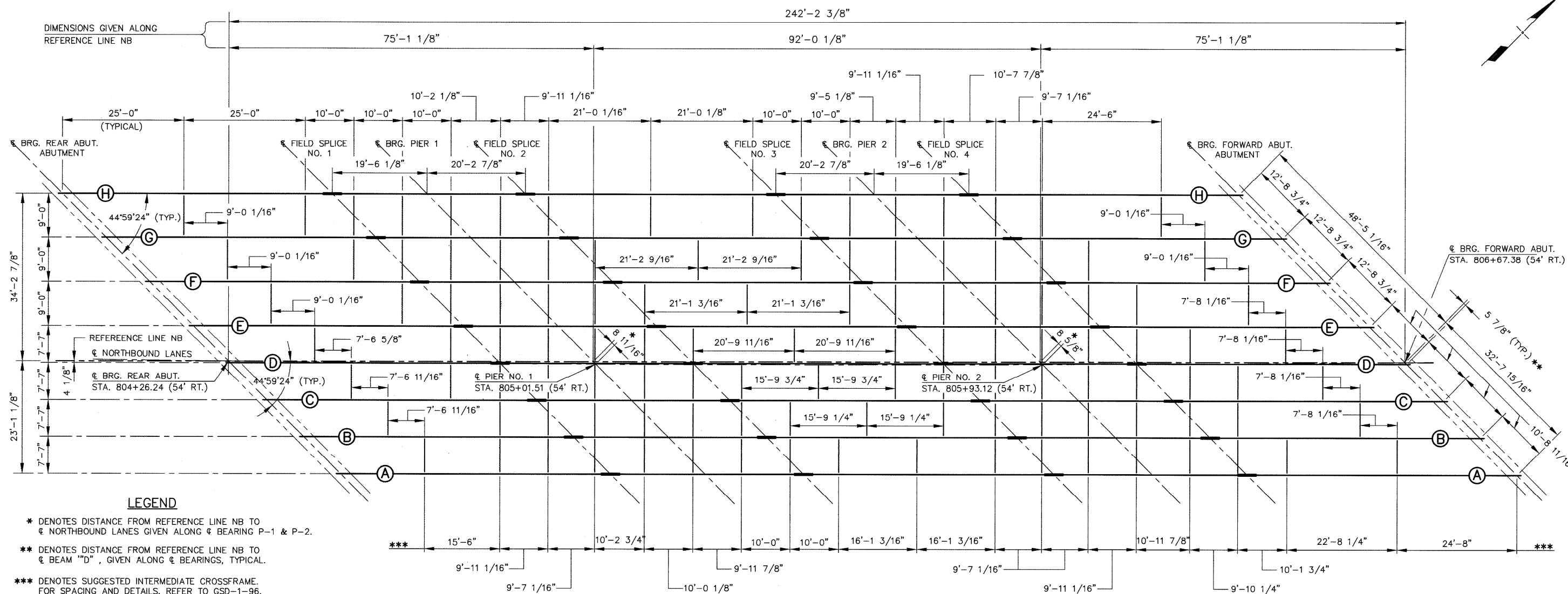
BEARING ORIENTATION PLAN

BEARING LOCATION	BEARING TYPE	NO. REQ'D.	DEAD LOAD KIPS	LIVE LOAD KIPS	TOTAL LOAD (DL+LL) KIPS	Le	We	Tpi	NO. OF Tpi'S	Tpe (2 EA.)	NUMBER OF INTERNAL LAMINATES (14 GAGE)	Te	STEEL LOAD PLATE				Tt	FILLET WELD SIZE	
													Wt	Lt	t1	t2			
SOUTHBOUND BRIDGE	REAR ABUTMENT	EXP.	8	68.5	50.8	119.3	9	14	0.26	6	0.19	7	2.46	15	10	1.50	1.62	4.02	5/16
	PIER 1	EXP.	8	144.2	65.09	209.3	12	18	0.33	3	0.24	4	1.77	19	13	2.00	2.14	3.84	5/16
	PIER 2	EXP.	8	144.2	65.09	209.3	12	18	0.33	3	0.24	4	1.77	19	13	2.00	2.25	3.89	5/16
	FWD. ABUTMENT	EXP.	8	68.5	50.8	119.3	9	14	0.26	6	0.19	7	2.46	15	10	1.50	1.67	4.05	5/16
NORTHBOUND BRIDGE	REAR ABUTMENT	EXP.	8	90.8	53.9	144.7	9.5	16	0.28	7	0.20	8	2.96	17	10.5	1.50	1.56	4.49	5/16
	PIER 1 (**)	EXP.	8	169.55	73.32	242.9	13	20	0.37	3	0.27	4	1.95	21	14	2.00	2.18	4.04	5/16
	PIER 2 (**)	EXP.	8	169.55	73.32	242.9	13	20	0.37	3	0.27	4	1.95	21	14	2.00	2.23	4.07	5/16
	FWD. ABUTMENT	EXP.	8	90.8	53.9	144.7	9.5	16	0.28	7	0.20	8	2.96	17	10.5	1.50	1.74	4.58	5/16

(**) DENOTES: SEE FILL PLATE DETAIL FOR BEAMS D, E. AND F ONLY IN LIEU OF CONCRETE PEDESTALS..



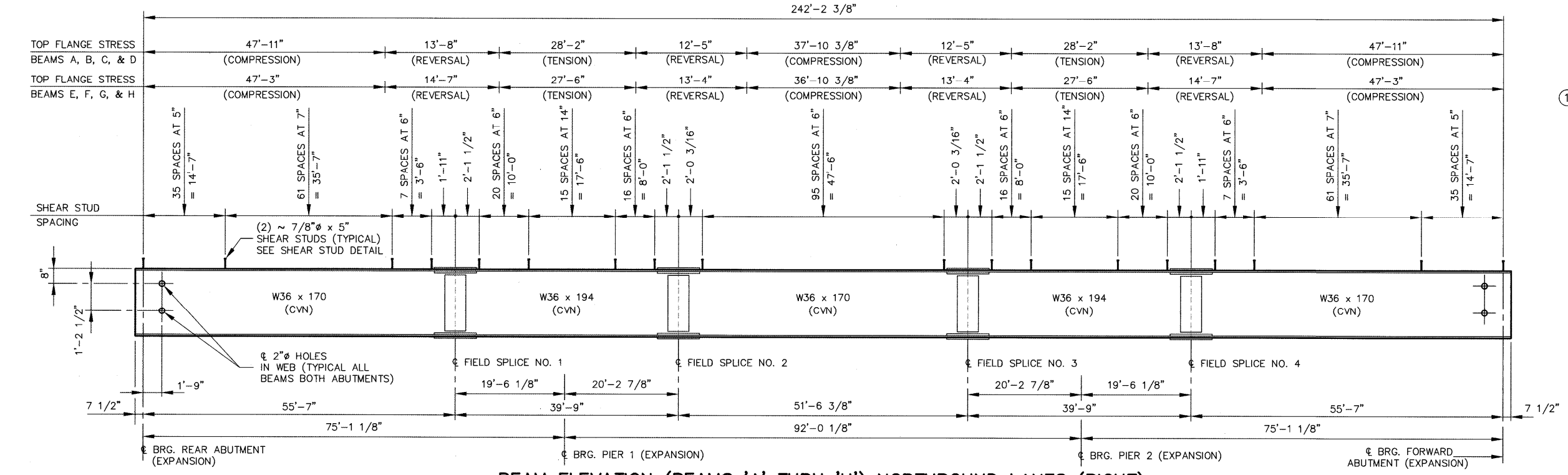
FILL PLATE DETAIL
NORTHBOUND STRUCTURE ONLY
(INCLUDED WITH ELASTOMERIC BEARINGS FOR PAYMENT)



LEGEND

- * DENOTES DISTANCE FROM REFERENCE LINE NB TO ϕ NORTHBOUND LANES GIVEN ALONG ϕ BEARING P-1 & P-2.
- ** DENOTES DISTANCE FROM REFERENCE LINE NB TO ϕ BEAM "D", GIVEN ALONG ϕ BEARINGS, TYPICAL.
- *** DENOTES SUGGESTED INTERMEDIATE CROSSFRAME. FOR SPACING AND DETAILS, REFER TO GSD-1-96.

FRAMING PLAN NORTHBOUND LANES (RIGHT)



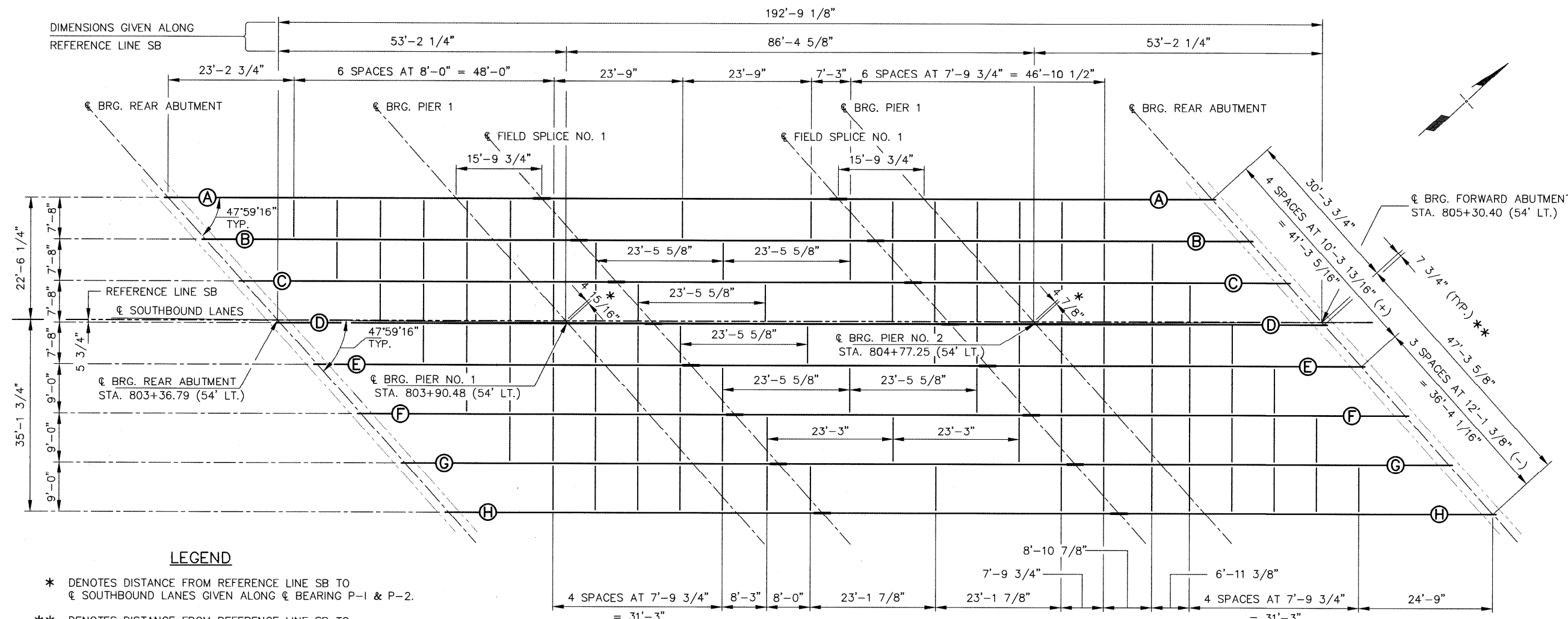
NOTES

① SEE SHEET 24 OF 38 FOR NOTES.

BEAM ELEVATION (BEAMS 'A' THRU 'H') NORTHBOUND LANES (RIGHT)

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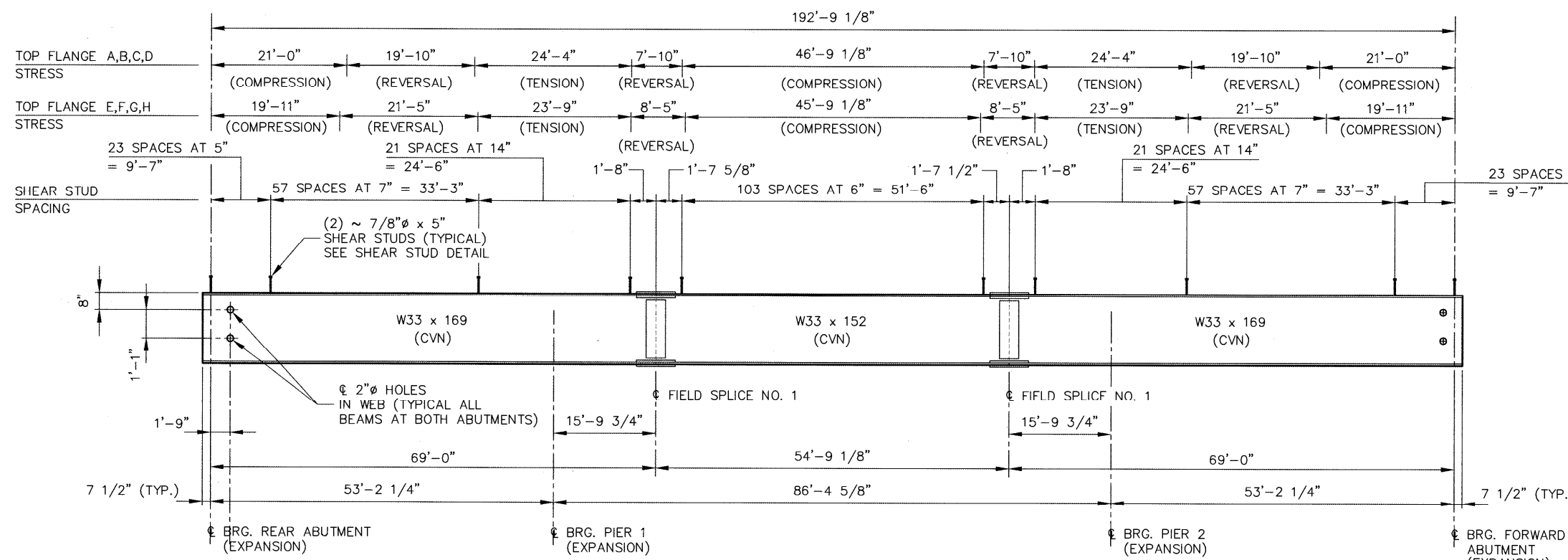


LEGEND

- * DENOTES DISTANCE FROM REFERENCE LINE SB TO ϕ SOUTHBOUND LANES GIVEN ALONG ϕ BEARING P-1 & P-2.
- ** DENOTES DISTANCE FROM REFERENCE LINE SB TO ϕ BEAM "D", GIVEN ALONG ϕ BEARINGS, TYPICAL.

FRAMING PLAN SOUTHBOUND LANES (LEFT)

NOTES



BEAM ELEVATION (BEAMS 'A' THRU 'H') SOUTHBOUND LANES (LEFT)

- ① WELDED ATTACHMENT OF CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FACIA STRINGER FLANGES DESIGNATED "COMPRESSION". ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION" OR "REVERSAL". FILLET WELDS TO COMPRESSION FLANGES SHALL BE NOT CLOSER THAN 1" FROM EDGE OF FLANGE, BE NOT MORE THAN 2" LONG, AND BE NOT SMALLER THAN THE MINIMUM SIZE REQUIRED BY AWS D1.5.
- ② WHERE A SHAPE OR PLATE DESIGNATED "CVN" THE MATERIAL SHALL MEET REQUIREMENTS OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SECTION 711.01. ALL FIELD SPLICE MATERIAL, EXCEPT FILL PLATES, SHALL BE "CVN".
- ③ FOR DEFLECTION AND CAMBER TABLE AND LAYDOWN DIAGRAM SEE SHEET 25 AND 26 OF 38.
- ④ FOR BEARING DETAILS SEE SHEET 22 OF 38.
- ⑤ ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50W AND ALL FASTENERS SHALL BE ASTM-325 EXCEPT NOTED OTHERWISE.
- ⑥ INTERMEDIATE STIFFENERS AT CROSSFRAME LOCATIONS SHALL BE PLACED IN PAIRS EXCEPT FOR EXTERIOR GIRDERS.
- ⑦ FOR SPLICE DETAILS SEE SHEET 25 AND 26 OF 38.
- ⑧ SHOP PRIMING OF THE NEW STEEL SHALL BE INCLUDED FOR PAYMENT WITH ITEM 863. FIELD PAINTING OF INTERMEDIATE AND FINISH COATS SHALL BE PAID FOR UNDER ITEM 815.
- ⑨ ALL GIRDERS ARE PLACED PARALLEL TO THE REFERENCE LINE.
- ⑩ FOR INTERMEDIATE CROSSFRAME DETAILS AND ADDITIONAL CROSSREFERENCE NOTES, SEE GSD-1-96.
- ⑪ FOR ABBREVIATIONS USED HERE SEE STRUCTURAL GENERAL NOTES, SEE SHEET 391.

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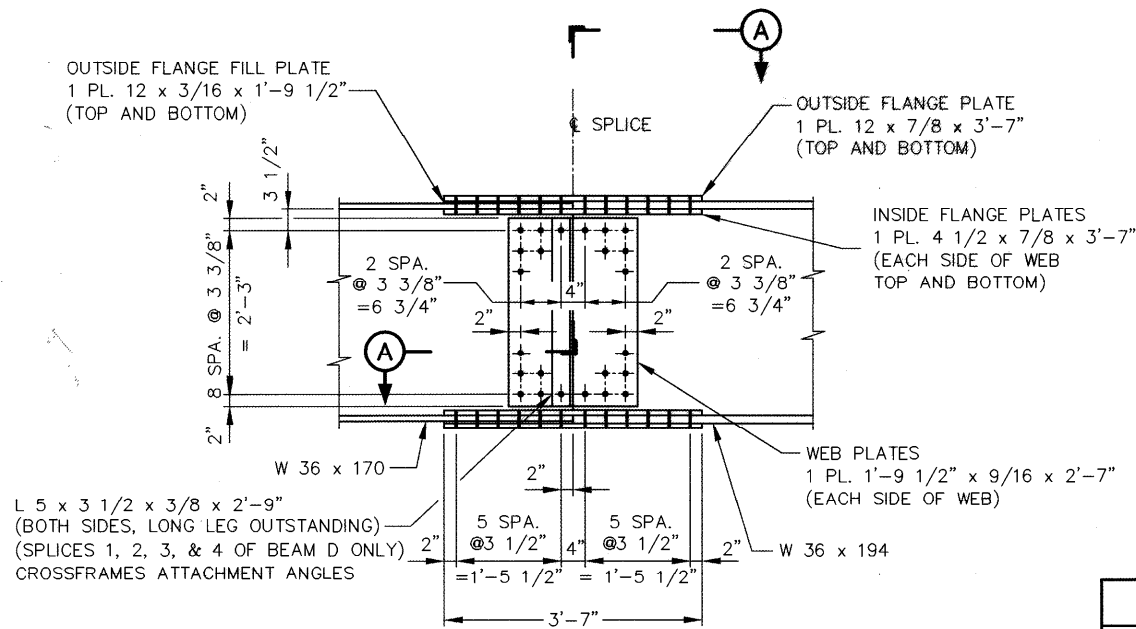
DATE	7/3/00
REVIEWED	B.K.L.
STRUCTURE FILE NUMBER	
DRAWN	A.L.H.
REUSED	X.X.X.
DESIGNED	A.Y.Z.
CHECKED	D.A.K.

FRAMING PLAN SOUTHBOUND STRUCTURE
 BRIDGE NO. RIC-71-1523 L
 OVER ROCKY CREEK

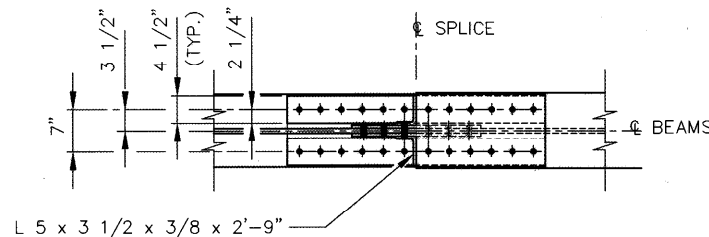
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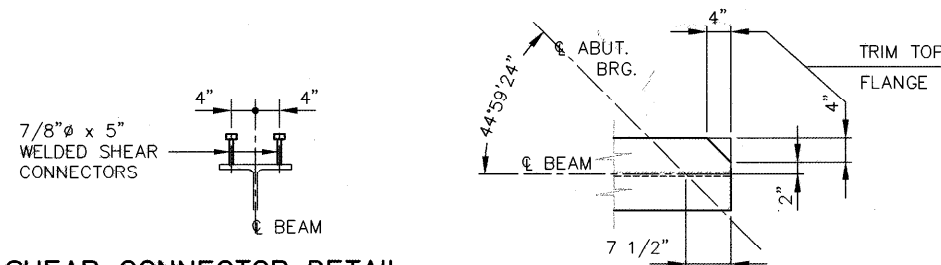
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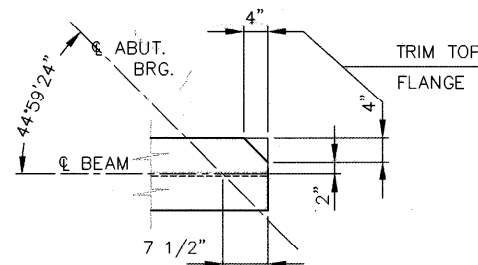
ELEVATION VIEW



**SECTION A-A
SPLICE DETAIL**
SPLICES NO. 1, 2, 3, & 4



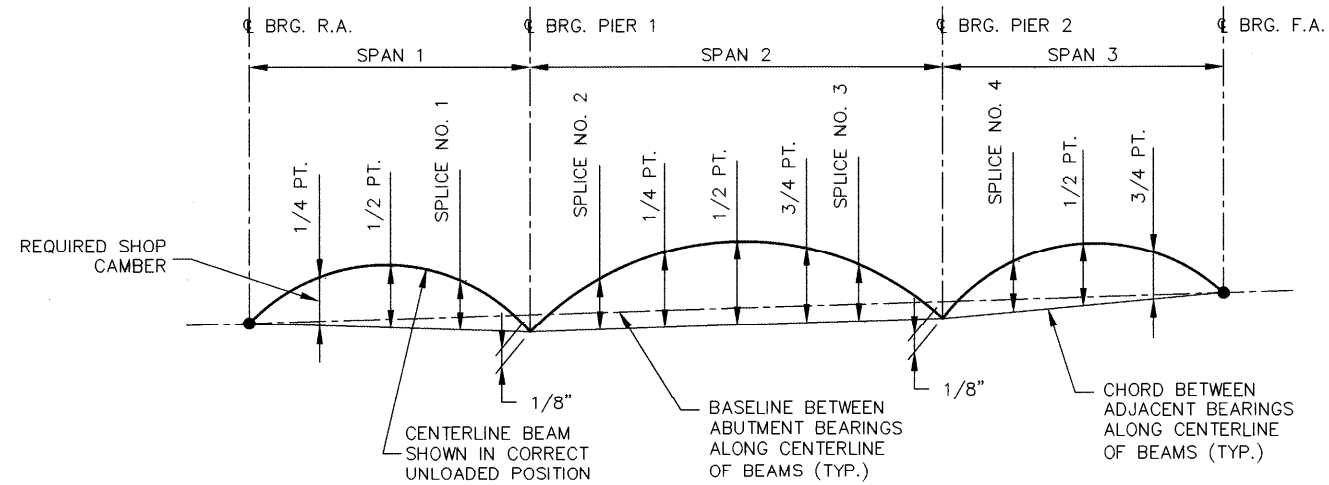
SHEAR CONNECTOR DETAIL



BEAM END DETAIL

NOTES

- ① FASTENERS ARE 1"Ø HIGH STRENGTH BOLTS, ASTM A-325. THE BOLT HOLES ARE 1 1/16" DIAMETER.
- ② ALL SHAPES AND PLATES SHALL BE DESIGNATED (CVN), AND SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
- ③ FABRICATION AND ASSEMBLY: BEAM ENDS AT SPLICES SHALL BE CUT AND FIT AS PER PLAN. THE OPENING BETWEEN BEAM ENDS AFTER ASSEMBLY SHALL NOT EXCEED 1/4".
- ④ REFER TO GENERAL NOTE SHEET 391 FOR ABBREVIATIONS.
- ⑤ FOR ADDITIONAL CROSSFRAME DETAILS, SEE ODOT STD. DWG. GSD-1-96, SHEETS 1&2 OF 3.



CAMBER AND LAYOUT DIAGRAM

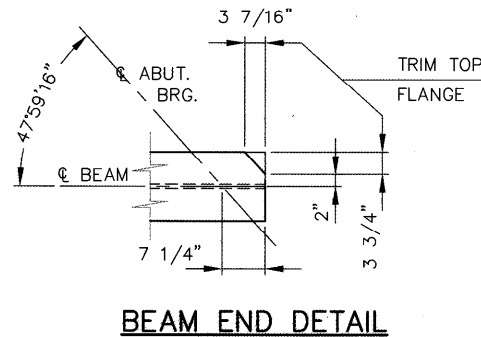
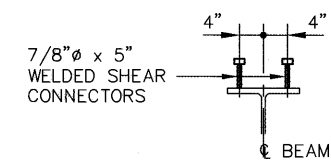
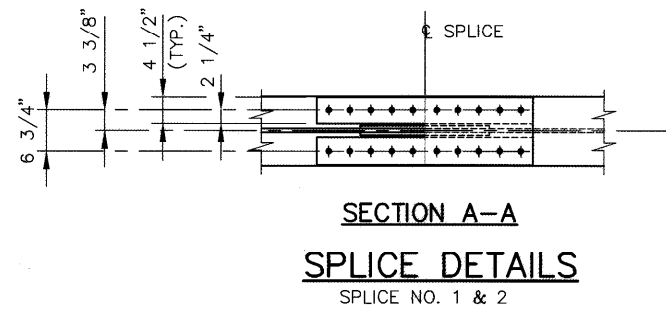
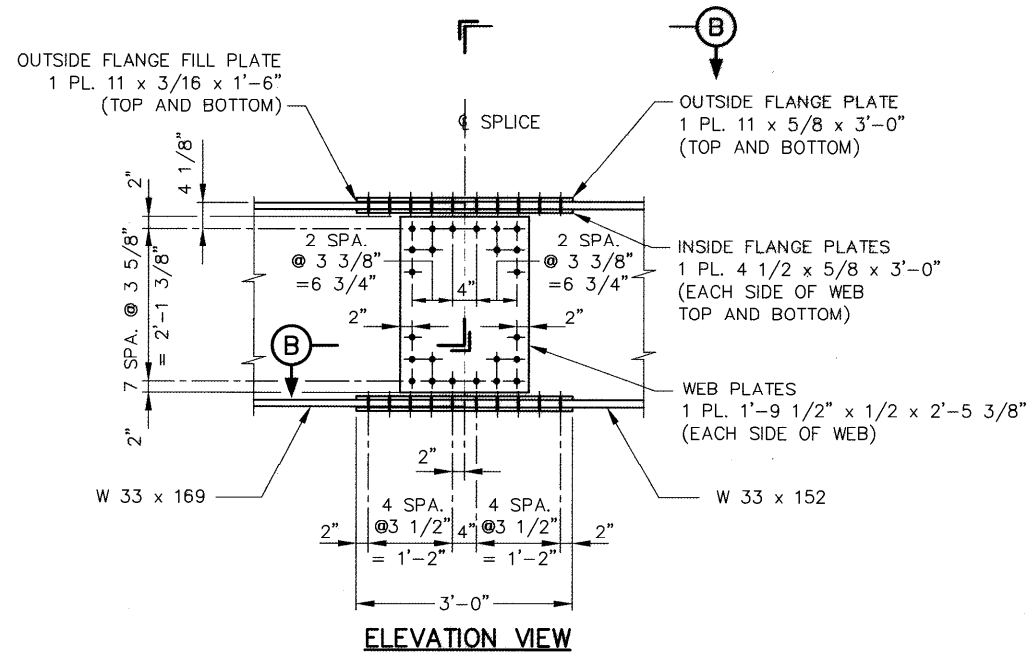
DEFLECTION AND CAMBER (IN INCHES) NORTHBOUND STRUCTURE - RIGHT BRIDGE

BEAM	LOCATION	SPAN 1			SPAN 2				SPAN 3				
		POINT	1/4	1/2	SPLICE	SPLICE	1/4	1/2	3/4	SPLICE	SPLICE	1/2	3/4
A,B,C,D & E	DEFLECTION DUE TO WEIGHT OF STEEL		0.139	0.166	0.082	0.086	0.104	0.187	0.104	0.086	0.082	0.166	0.139
	DEFLECTION DUE TO REMAINING DEAD LOAD		0.709	0.851	0.422	0.409	0.492	0.900	0.492	0.409	0.422	0.851	0.709
	ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE		0	0	0	0	0	0	0	0	0	0	0
	REQUIRED SHOP CAMBER		0.848	1.017	0.504	0.495	0.596	1.087	0.596	0.495	0.504	1.017	0.848
F,G & H	DEFLECTION DUE TO WEIGHT OF STEEL		0.139	0.166	0.082	0.086	0.104	0.187	0.104	0.086	0.082	0.167	0.139
	DEFLECTION DUE TO REMAINING DEAD LOAD		0.795	0.987	0.489	0.474	0.570	1.043	0.570	0.474	0.489	0.987	0.795
	ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE		0	0	0	0	0	0	0	0	0	0	0
	REQUIRED SHOP CAMBER		0.934	1.153	0.571	0.560	0.674	1.230	0.674	0.560	0.571	1.154	0.934

SCREED ELEVATIONS NORTHBOUND STRUCTURE - RIGHT BRIDGE

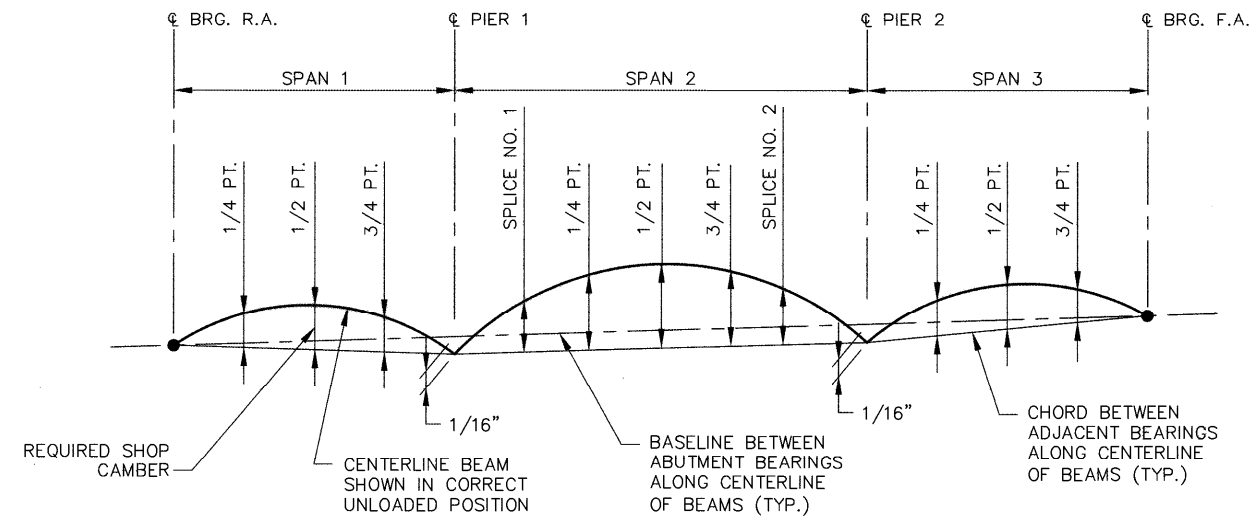
LOCATION	SPAN 1			SPAN 2			SPAN 3						
	Ø BRG. (R.A.)	1/4	1/2	SPL-1	Ø BRG. PIER 1	SPL-2	1/2	SPL-3	Ø BRG. PIER 2	SPL-4	1/2	3/4	Ø BRG. (F.A.)
LT. GUTTER LINE	1140.68	1141.05	1141.36	1141.61	1141.88	1142.26	1142.71	1143.08	1143.36	1143.70	1144.04	1144.32	1144.55
BEAM H	1140.75	1141.11	1141.42	1141.66	1141.93	1142.30	1142.75	1143.12	1143.40	1143.75	1144.08	1144.37	1144.60
BEAM G	1141.06	1141.42	1141.73	1141.98	1142.25	1142.62	1143.06	1143.43	1143.71	1144.06	1144.40	1144.68	1144.92
BEAM F	1141.37	1141.73	1142.05	1142.29	1142.56	1142.93	1143.38	1143.75	1144.03	1144.38	1144.71	1145.00	1145.23
BEAM E	1141.69	1142.04	1142.35	1142.60	1142.87	1143.24	1143.68	1144.05	1144.34	1144.69	1145.01	1145.30	1145.55
BEAM D	1141.96	1142.31	1142.62	1142.87	1143.14	1143.51	1143.95	1144.32	1144.61	1144.96	1145.28	1145.57	1145.82
BEAM C	1142.22	1142.58	1142.89	1143.14	1143.41	1143.78	1144.22	1144.59	1144.88	1145.22	1145.55	1145.84	1146.08
BEAM B	1142.46	1142.81	1143.12	1143.33	1143.64	1144.01	1144.45	1144.82	1145.11	1145.44	1145.78	1146.07	1146.31
BEAM A	1142.42	1142.78	1143.08	1143.33	1143.61	1143.97	1144.41	1144.79	1145.07	1145.42	1145.75	1146.04	1146.28
RT. GUTTER LINE	1142.41	1142.77	1143.08	1143.33	1143.61	1143.97	1144.41	1144.78	1145.07	1145.41	1145.73	1146.01	1146.25

SCREED ELEVATIONS SHOWN ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.



NOTES

- ① FASTENERS ARE 1"Ø HIGH STRENGTH BOLTS, ASTM A-325. THE BOLT HOLES ARE 1 1/16" DIAMETER.
- ② ALL SHAPES AND PLATES SHALL BE DESIGNATED (CVN), AND SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01 OF CMS.
- ③ FABRICATION AND ASSEMBLY: BEAM ENDS AT SPLICES SHALL BE CUT AND FIT AS PER PLAN. THE OPENING BETWEEN BEAM ENDS AFTER ASSEMBLY SHALL NOT EXCEED 1/4".
- ④ REFER TO GENERAL NOTE SHEET 3/3 FOR ABBREVIATIONS.
- ④ FOR ADDITIONAL CROSSFRAME DETAILS, SEE ODOT STD. DWG. GSD-1-96, SHEETS 1&2 OF 3.



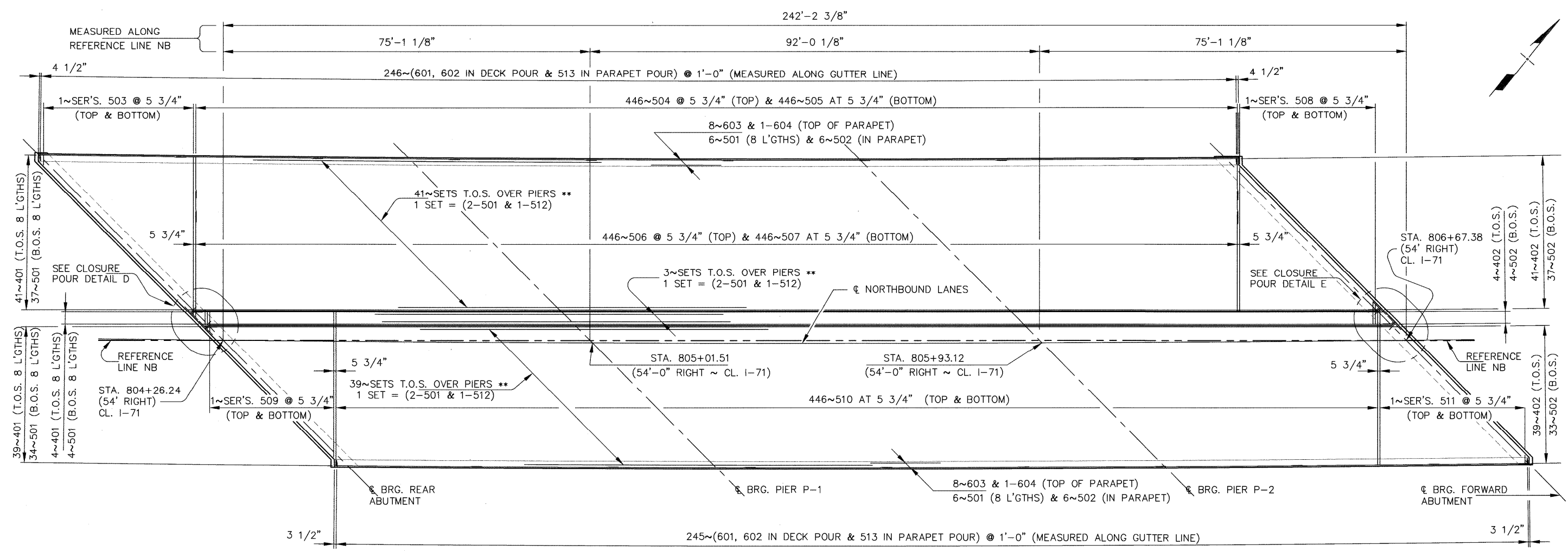
CAMBER AND LAYOUT DIAGRAM

DEFLECTION AND CAMBER (IN INCHS) SOUTHBOUND STRUCTURE - LEFT BRIDGE												
BEAM	LOCATION	SPAN 1			SPAN 2				SPAN 3			
		POINT	1/4	1/2	3/4	SPLICE	1/4	1/2	3/4	SPLICE	1/4	1/2
A,B,C,D & E	DEFLECTION DUE TO WEIGHT OF STEEL	0.019	0.015	-0.007	0.103	0.147	0.240	0.147	0.103	-0.007	0.015	0.019
	DEFLECTION DUE TO REMAINING DEAD LOAD	0.072	0.032	0.071	0.619	0.873	1.420	0.873	0.619	0.071	0.032	0.072
	ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE	0	0	0	0	0	0	0	0	0	0	0
	REQUIRED SHOP CAMBER	0.091	0.047	0.064	0.722	1.020	1.660	1.020	0.722	0.064	0.047	0.091
F,G & H	DEFLECTION DUE TO WEIGHT OF STEEL	0.019	0.015	-0.007	0.103	0.147	0.240	0.147	0.103	-0.007	0.015	0.019
	DEFLECTION DUE TO REMAINING DEAD LOAD	0.083	0.037	-0.082	0.712	1.003	1.632	1.003	0.711	-0.082	0.037	0.083
	ADJUSTMENT REQUIRED FOR HORIZONTAL CURVE	0	0	0	0	0	0	0	0	0	0	0
	REQUIRED SHOP CAMBER	0.102	0.052	-0.089	0.815	1.150	1.872	1.003	0.814	-0.089	0.052	0.102

SCREED ELEVATIONS SOUTHBOUND STRUCTURE - LEFT BRIDGE															
LOCATION	SPAN 1				SPAN 2						SPAN 3				
	Ø BRG. (R.A.)	1/4	1/2	3/4	Ø BRG. PIER 1	SPL-1	1/4	1/2	3/4	SPL-2	Ø BRG. PIER 2	1/4	1/2	3/4	Ø BRG. (F.A.)
LT. GUTTER LINE	1139.78	1140.00	1140.22	1140.42	1140.65	1140.98	1141.07	1141.46	1141.76	1141.85	1142.04	1142.24	1142.47	1142.68	1142.89
BEAM A	1139.84	1140.06	1140.26	1140.47	1140.69	1141.02	1141.11	1141.50	1141.81	1141.90	1142.07	1142.28	1142.51	1142.73	1142.94
BEAM B	1140.09	1140.31	1140.52	1140.72	1140.94	1141.27	1141.36	1141.75	1142.06	1142.15	1142.33	1142.54	1142.77	1142.98	1143.19
BEAM C	1140.35	1140.57	1140.78	1140.98	1141.20	1141.53	1141.62	1142.01	1142.31	1142.40	1142.59	1142.80	1143.02	1143.24	1143.45
BEAM D	1140.61	1140.83	1141.03	1141.24	1141.46	1141.80	1141.89	1142.29	1142.58	1142.67	1142.84	1143.05	1143.28	1143.50	1143.71
BEAM E	1140.86	1141.08	1141.29	1141.49	1141.71	1142.05	1142.14	1142.54	1142.84	1142.93	1143.10	1143.31	1143.53	1143.75	1143.96
BEAM F	1141.17	1141.38	1141.59	1141.79	1142.01	1142.35	1142.44	1142.84	1143.14	1143.23	1143.40	1143.61	1143.84	1144.05	1144.26
BEAM G	1141.42	1141.64	1141.85	1142.05	1142.27	1142.61	1142.70	1143.10	1143.39	1143.48	1143.66	1143.86	1144.09	1144.31	1144.52
BEAM H	1141.42	1141.64	1141.85	1142.05	1142.27	1142.61	1142.70	1143.10	1143.40	1143.49	1143.66	1143.87	1144.09	1144.31	1144.52
RT. GUTTER LINE	1141.42	1141.64	1141.85	1142.06	1142.28	1142.62	1142.71	1143.10	1143.40	1143.49	1143.66	1143.86	1144.08	1144.30	1144.50

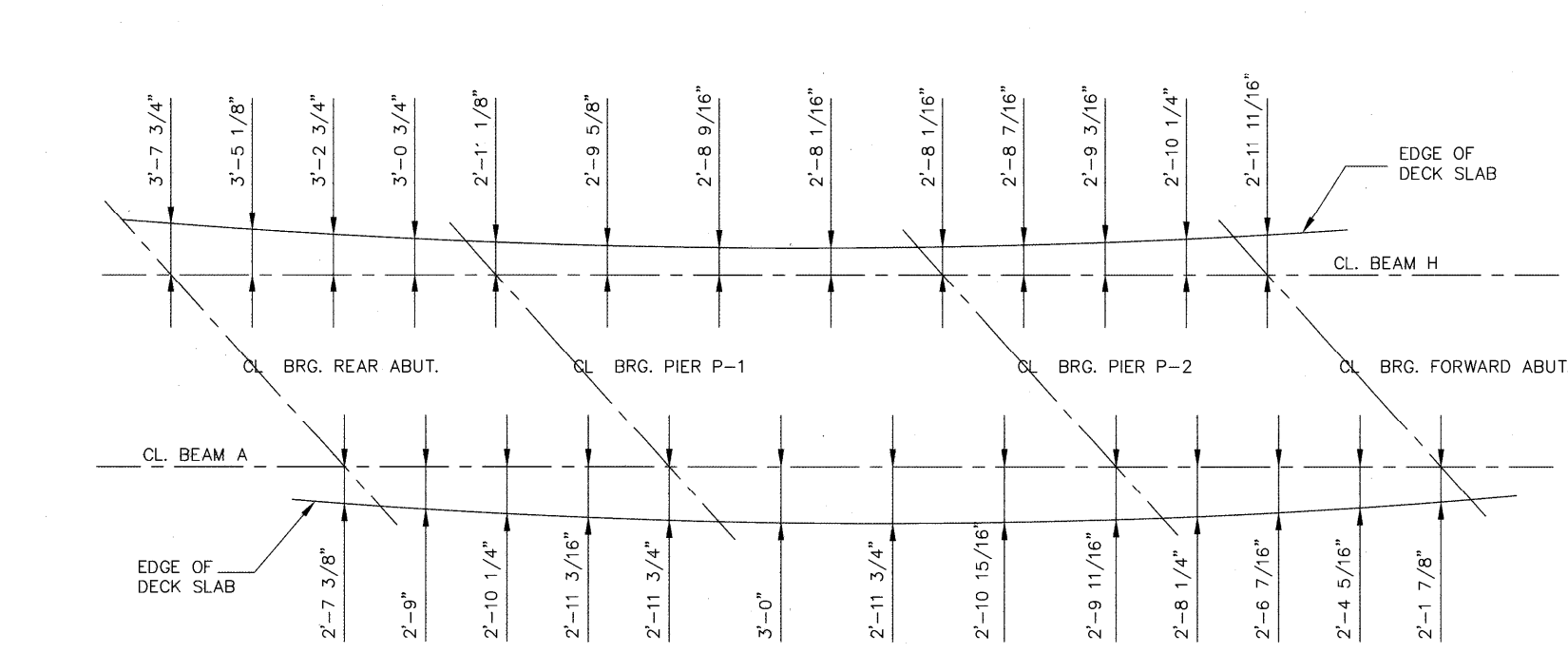
SCREED ELEVATIONS SHOWN ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.

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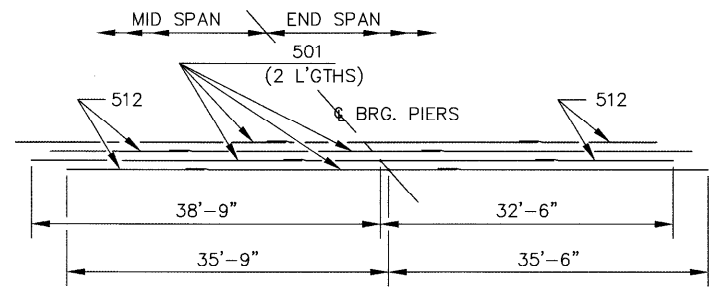
PLAN SUPERSTRUCTURE NORTHBOUND

** DENOTES SEE ADDITIONAL BARS OVER THE PIER DETAIL



DECK SLAB OFFSETS

DECK SLAB OFFSETS ARE GIVEN AT ϕ BEARINGS AND QUARTER POINTS, ALONG CENTERLINE AND PERPENDICULAR TO ϕ FASCIA BEAMS A AND H.



501 & 514 BARS OVER PIERS

NOTE:

- THE PREFIX (1 S) SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND SUPERSTRUCTURE.
- FOR END ELEVATION VIEWS FOR THE REAR AND FORWARD ABUTMENT BACKWALLS SEE SHEET 28 OF 38.
- FOR ADDITIONAL SUPERSTRUCTURE DETAILS, AND TRANSVERSE SECTION SEE SHEET 31 OF 38.
- FOR REINFORCING STEEL AND BAR BENDING DIAGRAMS SEE SHEETS 35 OF 38.
- FOR CLOSURE POUR DETAILS D & E AND ADDITIONAL CLOSURE POUR DETAILS, SEE SHEET 31 OF 38.
- SEE GENERAL PLAN FOR PARAPET SAWCUT SPACINGS.

UFS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 564 WHITE POND DRIVE
 AKRON, OHIO
 44320-1100

DESIGNED	C.A.R.	CHECKED	D.A.K.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	DATE	7/3/00
STRUCTURE FILE NUMBER	7004478 (L)		
	7004508 (R)		

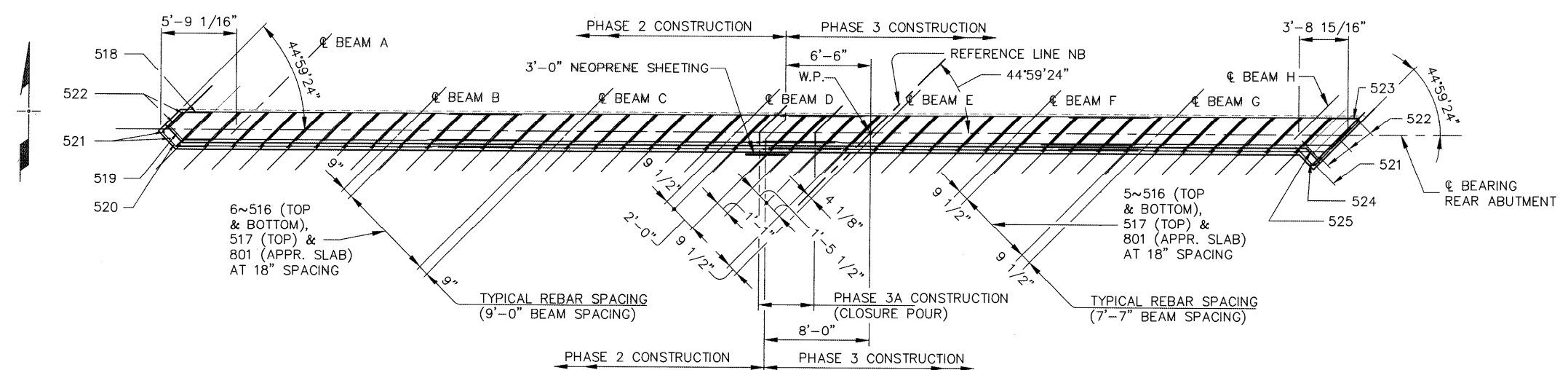
SUPERSTRUCTURE NORTHBOUND STRUCTURE
 BRIDGE NO. RIC-71-1523 R
 OVER ROCKY FORK CREEK

RIC- 71-13.66

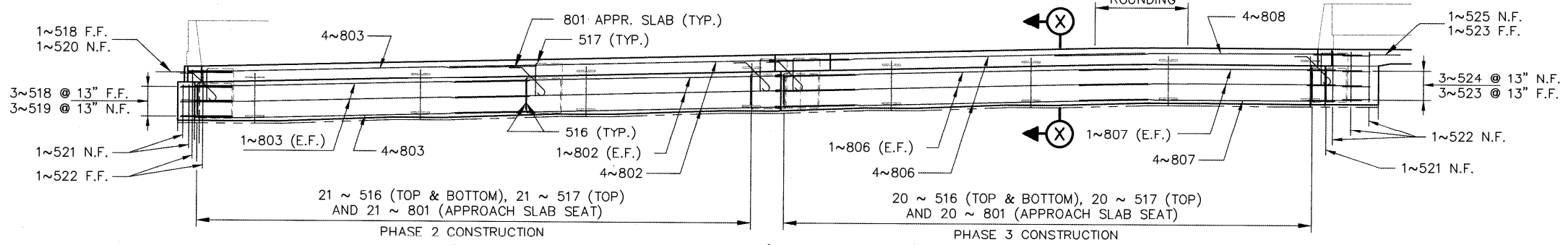
27/38

502
 633

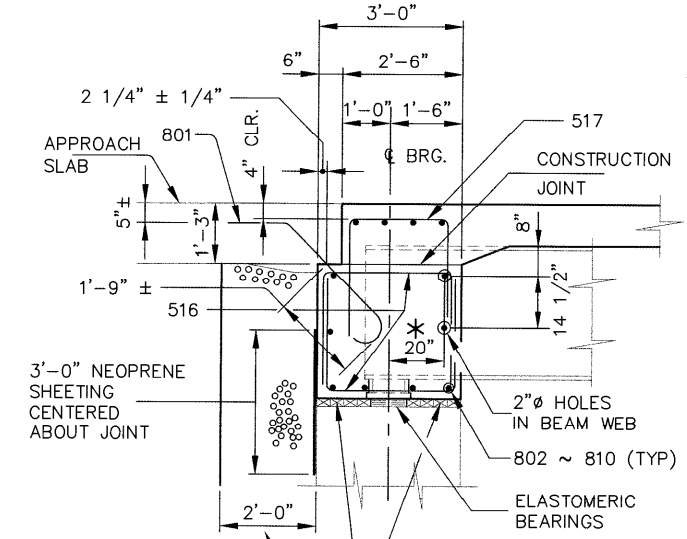
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PLAN REAR ABUTMENT (NORTHBOUND) RIGHT STRUCTURE



ELEVATION REAR ABUTMENT (NORTHBOUND) RIGHT STRUCTURE



LIMITS OF POROUS BACKFILL WITH FILTER FABRIC. WORK WITH ABUTMENT DETAILS FOR ADDITIONAL LIMITS

EXPANDED POLYSTYRENE FILLER OR REMOVABLE FORMS TO PROVIDE CLEARANCE BETWEEN ABUTMENT AND SLAB CONCRETE

SECTION X-X

* DENOTES MEASURED ALONG ϕ BEAM
 # 5 BAR MINIMUM LAP = 2'-0"
 # 8 BAR MINIMUM LAP = 5'-6"

NOTES:

DECK SLAB DEPTH: THE DISTANCE SHOWN FROM THE TOP OF THE DECK SLAB TO THE BOTTOM OF THE TOP FLANGE IS THE THEORETICAL DESIGN DIMENSION INCLUDING THE DESIGN HAUNCH THICKNESS OF 2" MIN. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, MINUS THE DESIGN HAUNCH THICKNESS, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER SS 842.18.

A HAUNCH WIDTH OF 9 INCHES SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6 AND 12 INCHES.

REINFORCING STEEL: NEW REINFORCING STEEL MAY REQUIRED FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED IN ITEM 844 HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK).

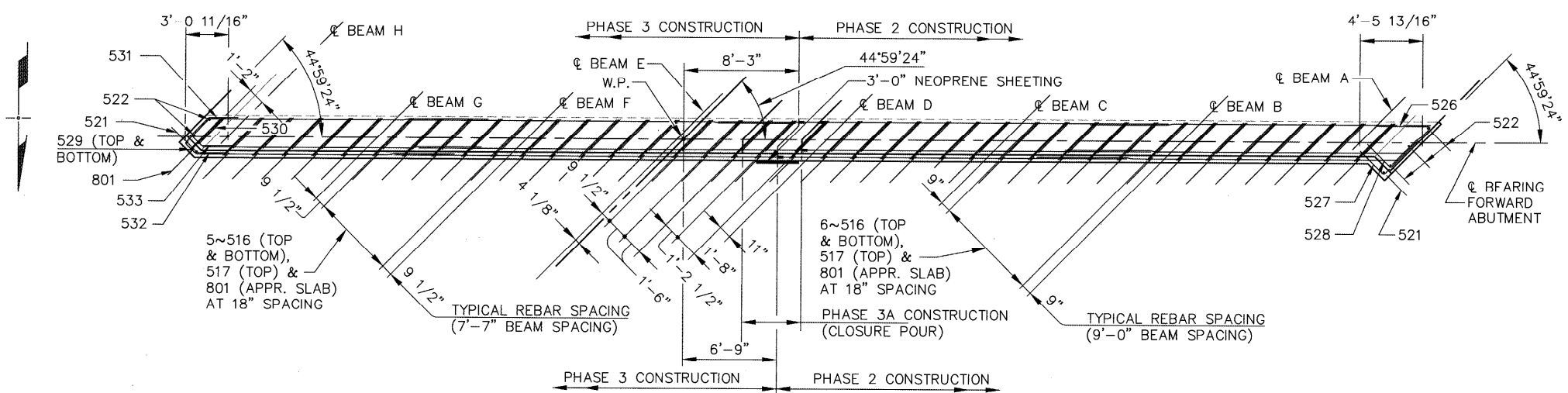
FOR TABLE OF SCREED ELEVATIONS, DEFLECTION AND CAMBER, AND LAYOUT DIAGRAMS SEE SHEET 25 OF 38.

BEARING RETAINERS SHALL BE INCLUDED WITH ITEM 516 ELASTOMERIC BEARINGS FOR PAYMENT. FOR ADDITIONAL BEARING DETAILS SEE SHEET 22 OF 38.

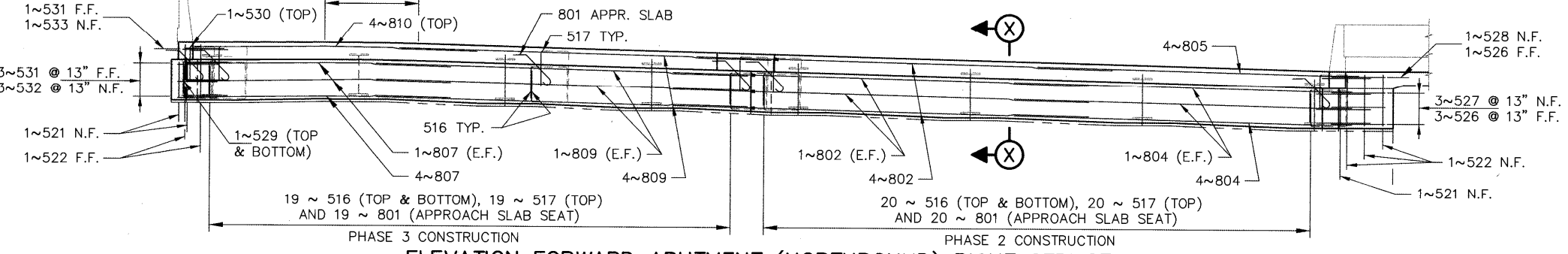
FOR ADDITIONAL NOTES SEE STRUCTURAL GENERAL NOTES, SEE SHEETS 389, 390 & 391.

ABUTMENT DIAPHRAGM CONCRETE, STEEL SUPERSTRUCTURE, PHASED CONSTRUCTION

NO SEPARATE CLOSURE POUR SECTION IS DETAILED BETWEEN PHASES. THE ABUTMENT DIAPHRAGM CONCRETE SHALL BE POURED SIMULTANEOUSLY WITH THE DECK POUR TO ALLOW FOR EXPECTED DEADLOAD ROTATION AT THE ABUTMENTS.



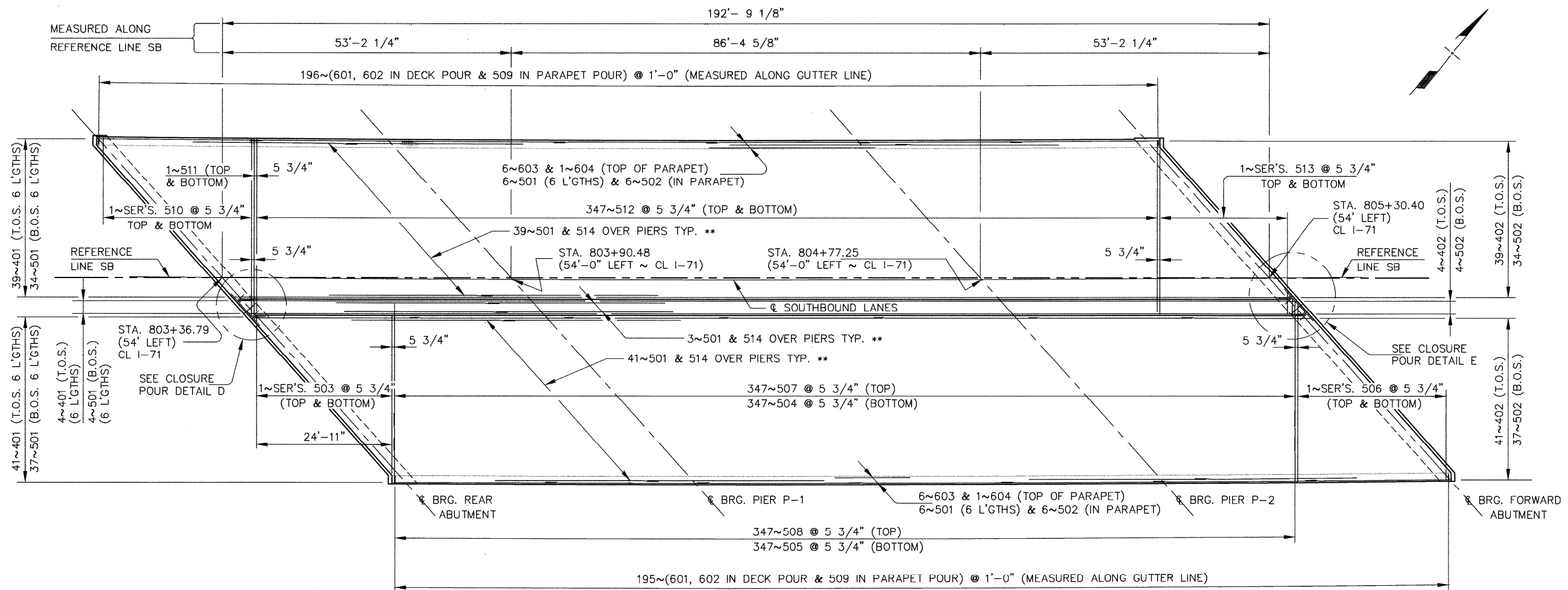
PLAN FORWARD ABUTMENT (NORTHBOUND) RIGHT STRUCTURE



ELEVATION FORWARD ABUTMENT (NORTHBOUND) RIGHT STRUCTURE

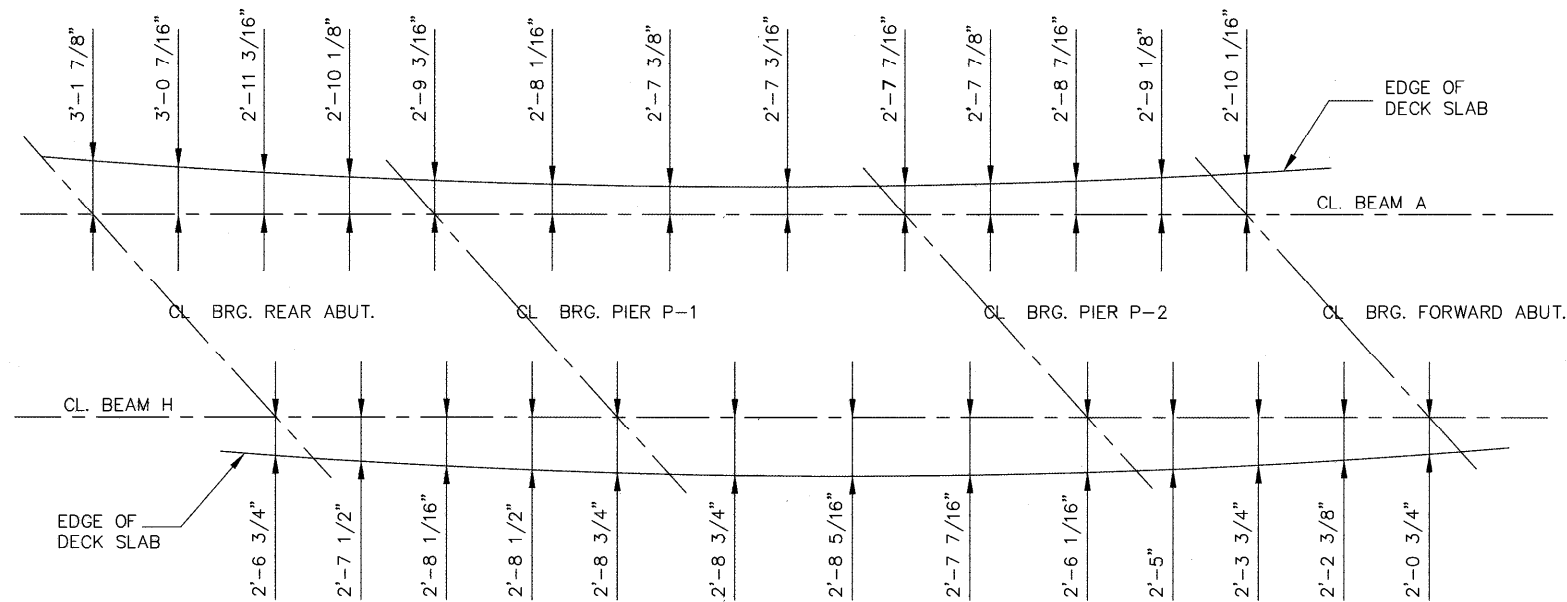
IFS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 5600 HUNTINGTON DRIVE
 AKRON, OHIO 44320-1100
 DATE: 7/3/00
 REVIEWED: B.K.L.
 DRAWN: A.L.H.
 DESIGNED: C.A.R.
 CHECKED: A.Y.Z.
 STRUCTURE FILE NUMBER: 7004508 (6)
SUPERSTRUCTURE DETAILS NORTHBOUND STRUCTURE
 BRIDGE NO. RIC-71-1523 R
 OVER ROCKY FORK CREEK
RIC- 71-13.66
 28/38
 503
 633

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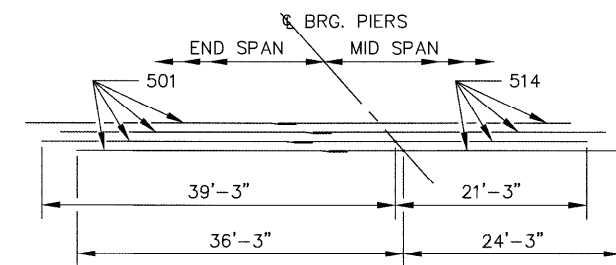
SLAB PLAN

** DENOTES SEE ADDITIONAL BARS OVER THE PIER DETAIL



DECK SLAB OFFSETS

DECK SLAB OFFSETS ARE GIVEN AT ϕ BEARINGS AND QUARTER POINTS, ALONG CENTERLINE AND PERPENDICULAR TO ϕ FASCIA BEAMS A AND H.



ADDITIONAL 501 & 514 BARS OVER PIERS DETAIL

NOTE:

- THE PREFIX (1 S) SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE NORTHBOUND SUPERSTRUCTURE.
- FOR END ELEVATION VIEWS FOR THE REAR AND FORWARD ABUTMENT BACKWALLS SEE SHEET 30 OF 38.
- FOR ADDITIONAL SUPERSTRUCTURE DETAILS, AND TRANSVERSE SECTION SEE SHEET 32 OF 38.
- FOR REINFORCING STEEL AND BAR BENDING DIAGRAMS SEE SHEETS 37 OF 38.
- FOR CLOSURE POUR DETAILS D & E AND ADDITIONAL CLOSURE POUR DETAILS, SEE SHEET 32 OF 38.
- SEE GENERAL PLAN FOR PARAPET SAWCUT SPACINGS.

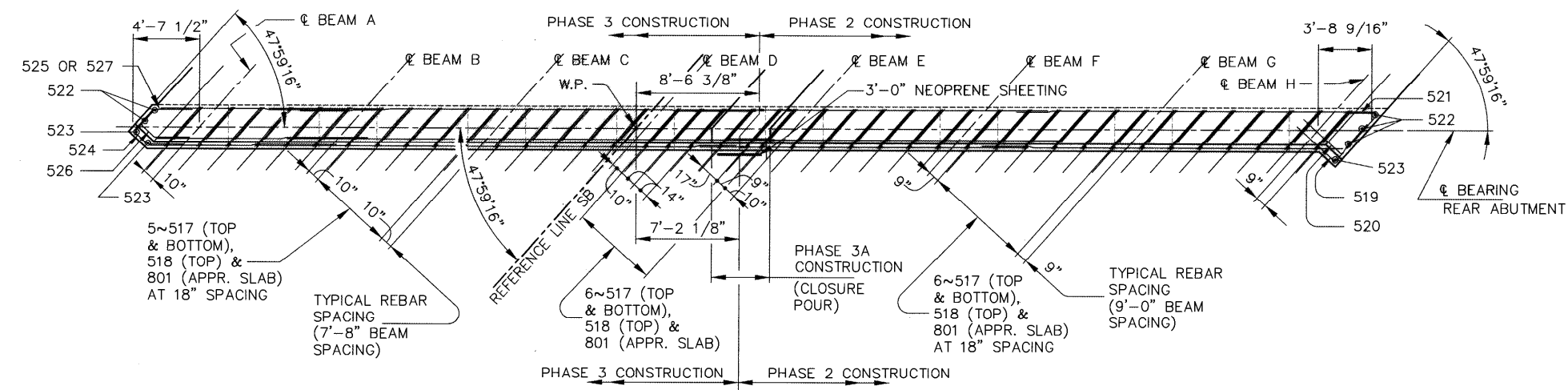
DATE	7/5/00
REVISION	B.K.L.
STRUCTURE FILE NUMBER	7004478 (L)
DESIGNED	C.A.R.
CHECKED	A.Y.Z.
DRAWN	A.L.H.
REVISED	

DATE	XX/XX/XX
REVIEWED	B.K.L.
DRAWN	A.L.H.
DESIGNED	C.A.F.
CHECKED	A.V.Z.
STRUCTURE FILE NUMBER	70044600
REVISION	70044600 (1)

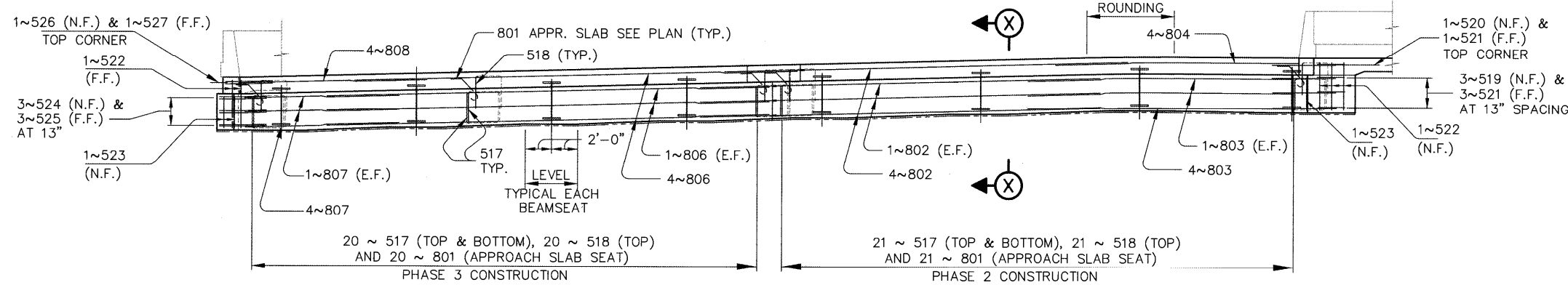
REVISIONS

SUPERSTRUCTURE DETAILS SOUTHBOUND STRUCTURE
BRIDGE NO. RIC-71-1523 L
OVER ROCKY CREEK

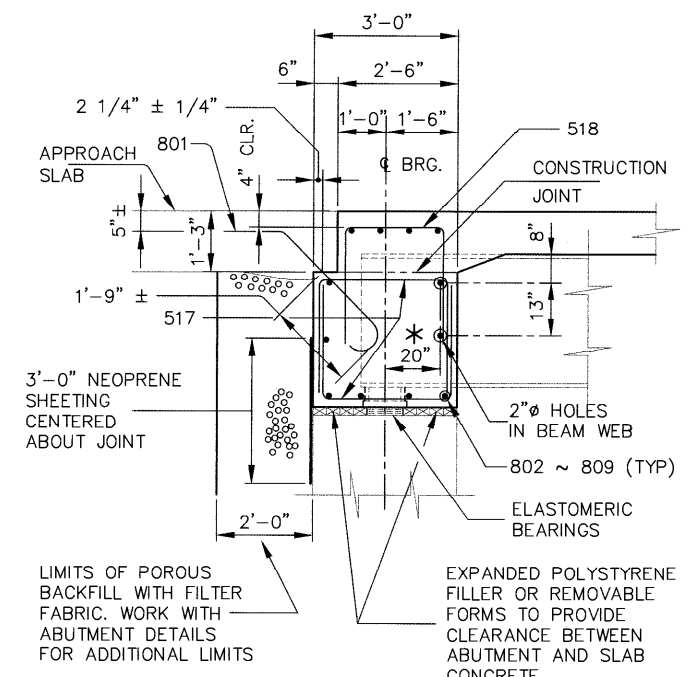
RIC- 71-13.66



PLAN REAR ABUTMENT (SOUTHBOUND) LEFT STRUCTURE



ELEVATION REAR ABUTMENT (SOUTHBOUND) LEFT STRUCTURE



SECTION X-X

* DENOTES MEASURED ALONG ϕ BEAM
5 BAR MINIMUM LAP = 2'-0"
8 BAR MINIMUM LAP = 5'-6"

NOTES:

DECK SLAB DEPTH: THE DISTANCE SHOWN FROM THE TOP OF THE DECK SLAB TO THE BOTTOM OF THE TOP FLANGE IS THE THEORETICAL DESIGN DIMENSION INCLUDING THE DESIGN HAUNCH THICKNESS OF 2" MIN. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, MINUS THE DESIGN HAUNCH THICKNESS, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER SS 842.18.

A HAUNCH WIDTH OF 9 INCHES SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6 AND 12 INCHES.

REINFORCING STEEL: NEW REINFORCING STEEL MAY REQUIRED FIELD CUTTING OR BENDING TO BE PROPERLY FITTED. PAYMENT SHALL BE INCLUDED IN ITEM 844 HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK).

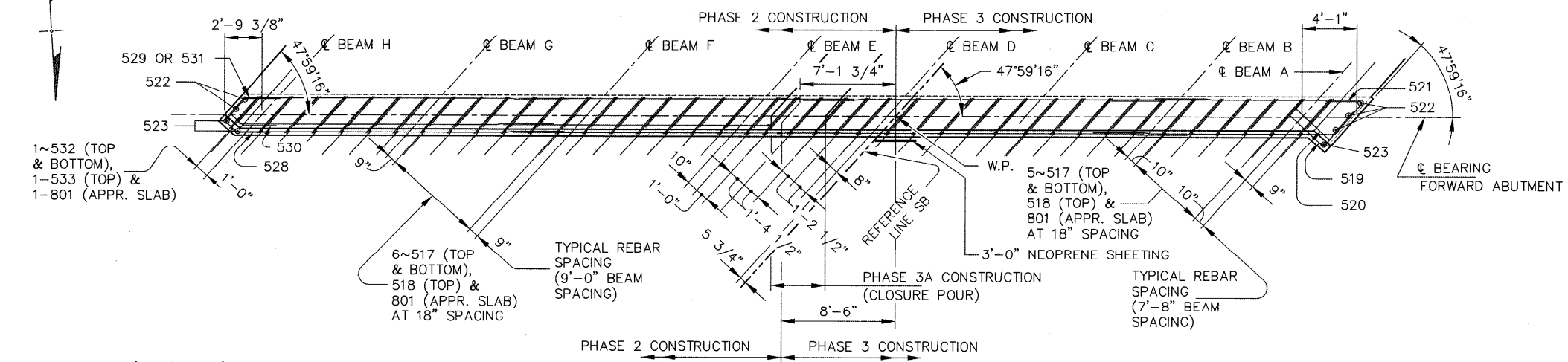
FOR TABLE OF SCREED ELEVATIONS, DEFLECTION AND CAMBER, AND LAYOUT DIAGRAMS SEE SHEET 26 OF 38.

BEARING RETAINERS SHALL BE INCLUDED WITH ITEM 516 ELASTOMERIC BEARINGS FOR PAYMENT. FOR ADDITIONAL BEARING DETAILS SEE SHEET 22 OF 38.

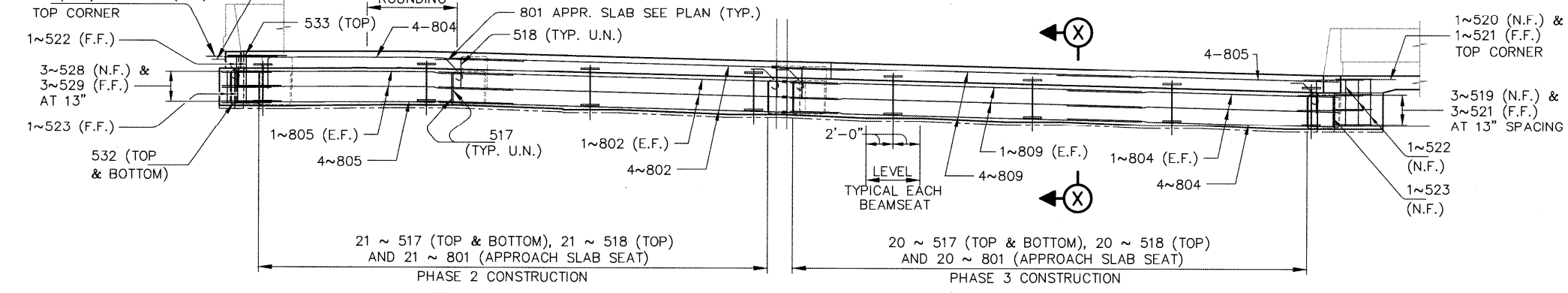
FOR ADDITIONAL NOTES SEE STRUCTURAL GENERAL NOTES, SEE SHEETS 389, 390

ABUTMENT DIAPHRAGM CONCRETE, STEEL SUPERSTRUCTURE, PHASED CONSTRUCTION

NO SEPARATE CLOSURE POUR SECTION IS DETAILED BETWEEN PHASES. THE ABUTMENT DIAPHRAGM CONCRETE SHALL BE POURED SIMULTANEOUSLY WITH THE DECK POUR TO ALLOW FOR EXPECTED DEADLOAD ROTATION AT THE ABUTMENTS.



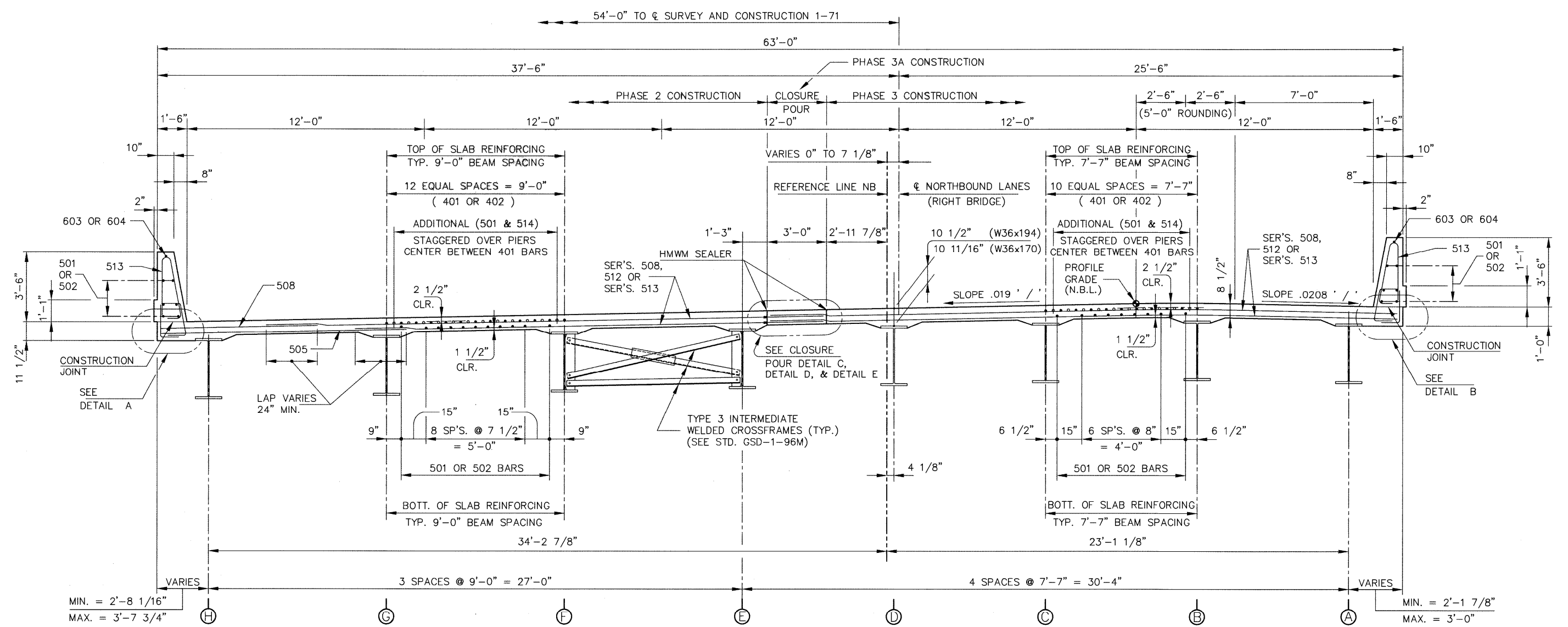
PLAN FORWARD ABUTMENT (SOUTHBOUND) LEFT STRUCTURE



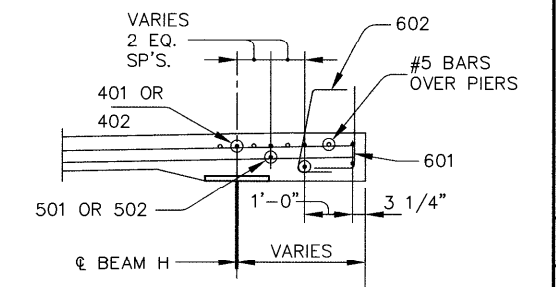
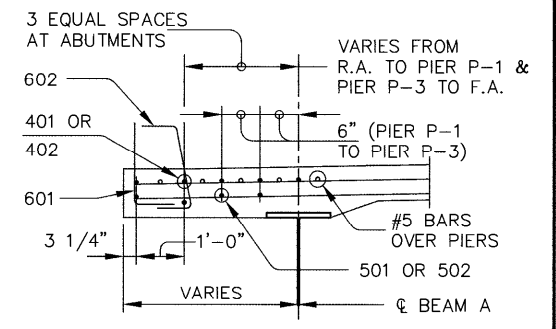
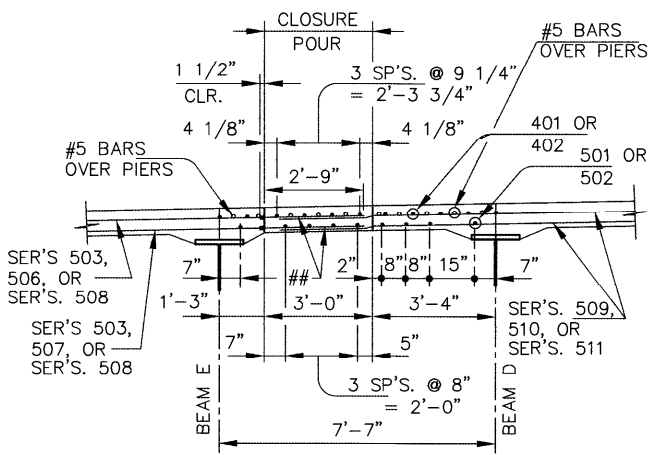
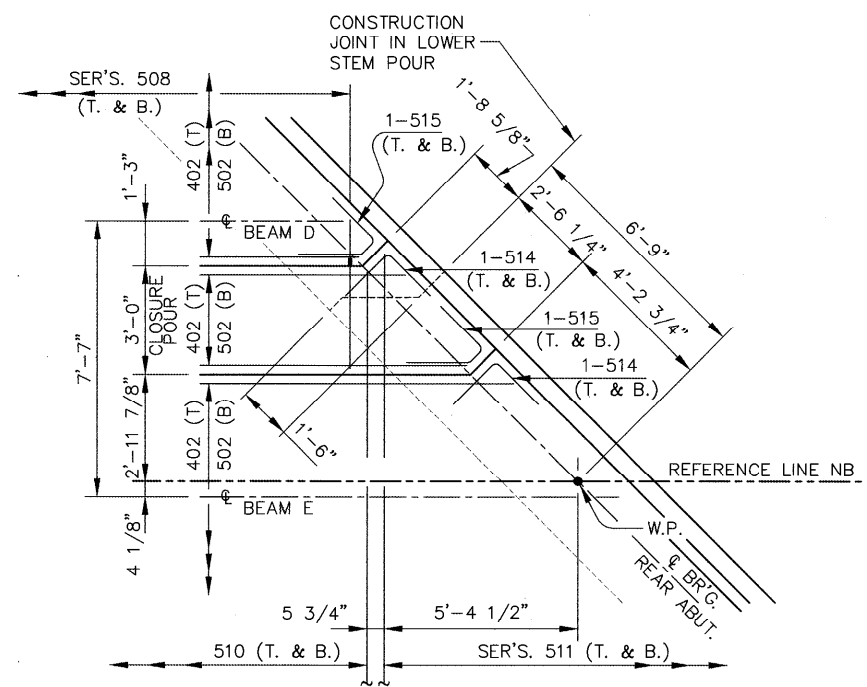
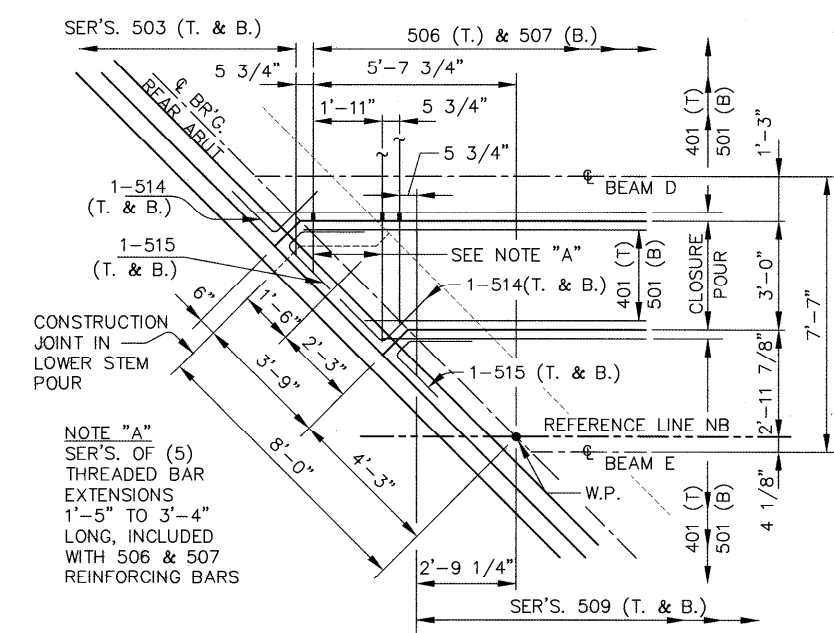
ELEVATION FORWARD ABUTMENT (SOUTHBOUND) LEFT STRUCTURE

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NOTE:
FOR NOTES SEE SHEET 30 OF 38.



URS Greiner Woodward Clyde
ARCHITECTS • ENGINEERS • PLANNERS
584 WHITE POND DRIVE
AKRON, OHIO 44320-1100

DESIGNED	C.A.R.	CHECKED	A.Y.Z.
DRAWN	A.L.H.	REVISED	
REVIEWED	B.K.L.	DATE	7/3/00
STRUCTURE FILE NUMBER	7004478 (L)		
	7004508 (R)		

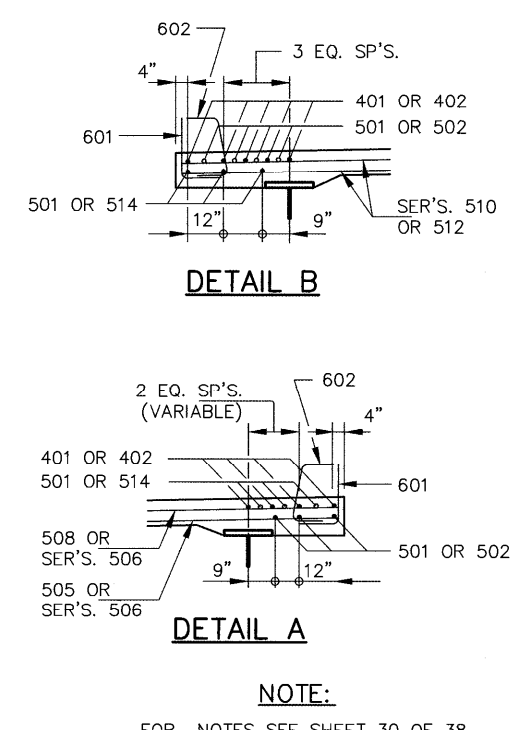
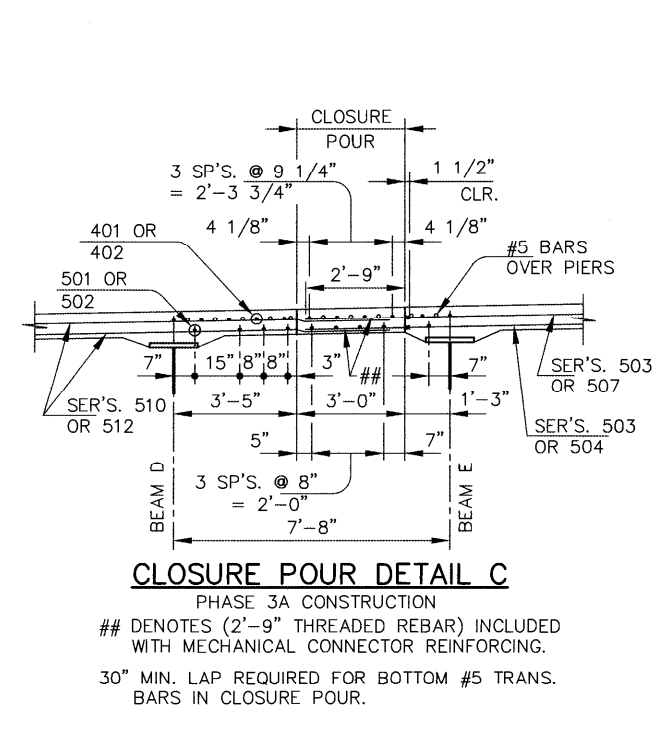
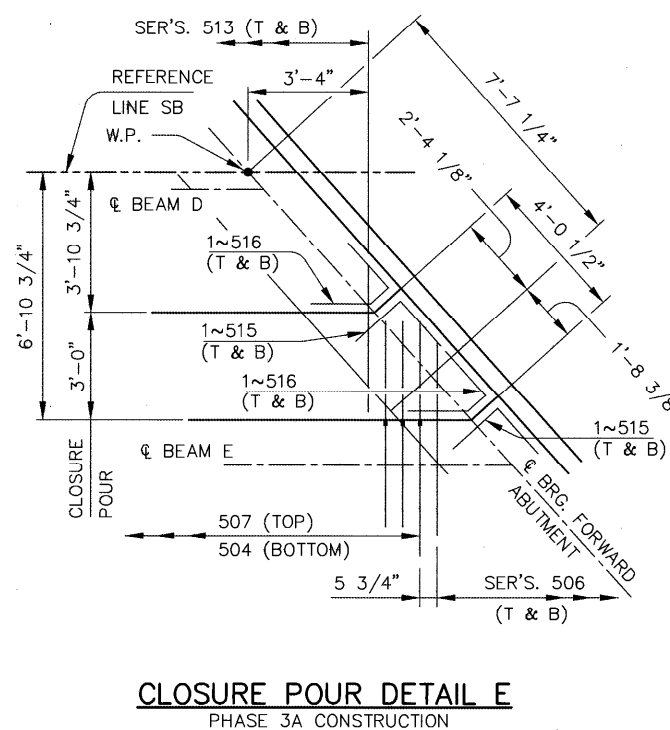
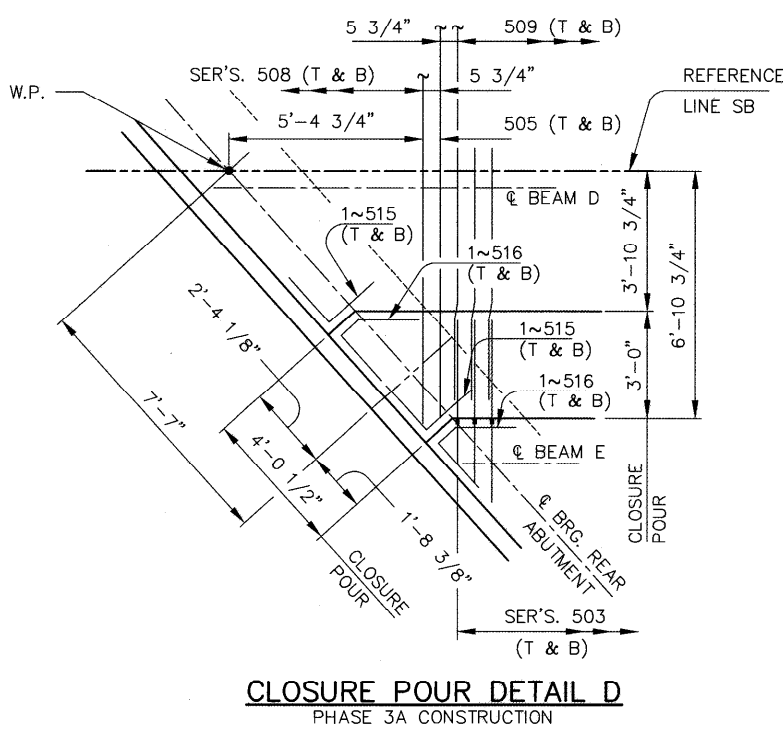
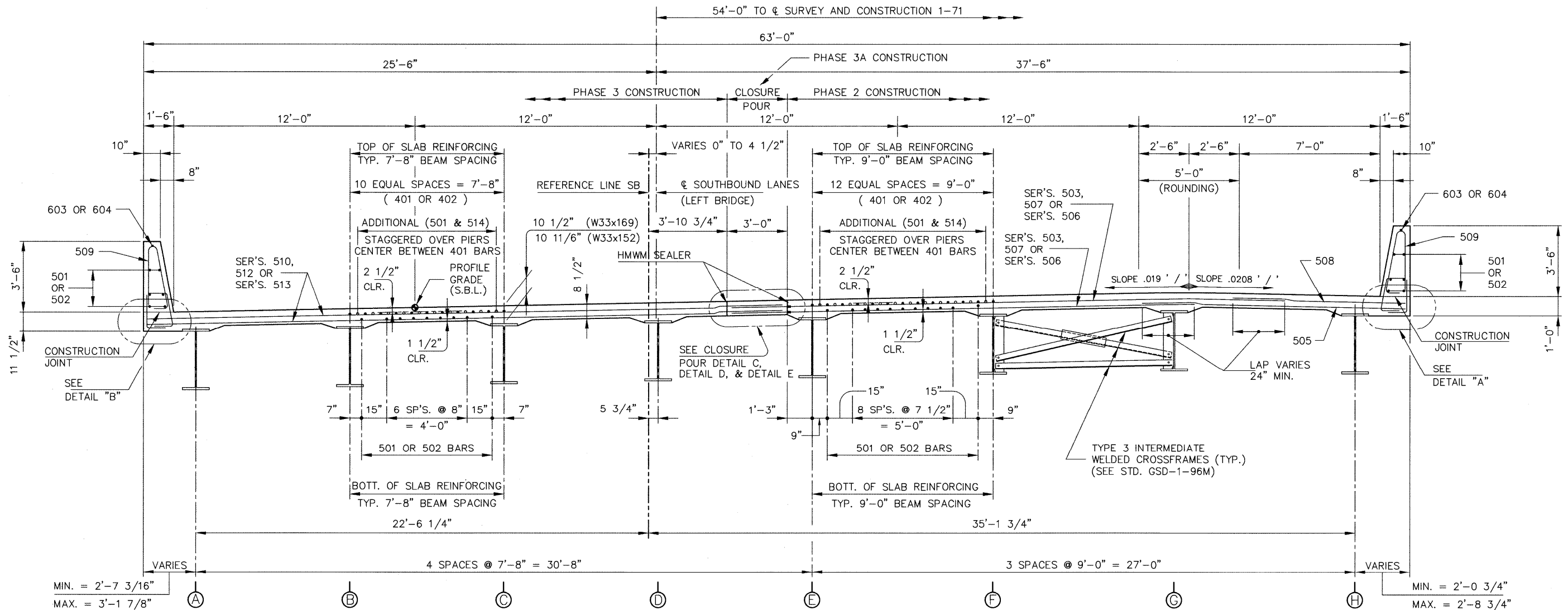
SUPERSTRUCTURE DETAILS NORTHBOUND STRUCTURE
BRIDGE NO. RIC-71-1523 R
OVER ROCKY CREEK

RIC- 71-13.66

31/38

506
633

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UFS Greiner Woodward Clyde
ARCHITECTS • ENGINEERS • PLANNERS
564 WHITE POND DRIVE
AKRON, OHIO 44320-1100

DATE: 7/3/00
REVIEWED: B.K.L.
DRAWN: A.L.H.
DESIGNED: C.A.R.
CHECKED: A.Y.Z.

STRUCTURE FILE NUMBER: 7004478 (L)
7004508 (R)

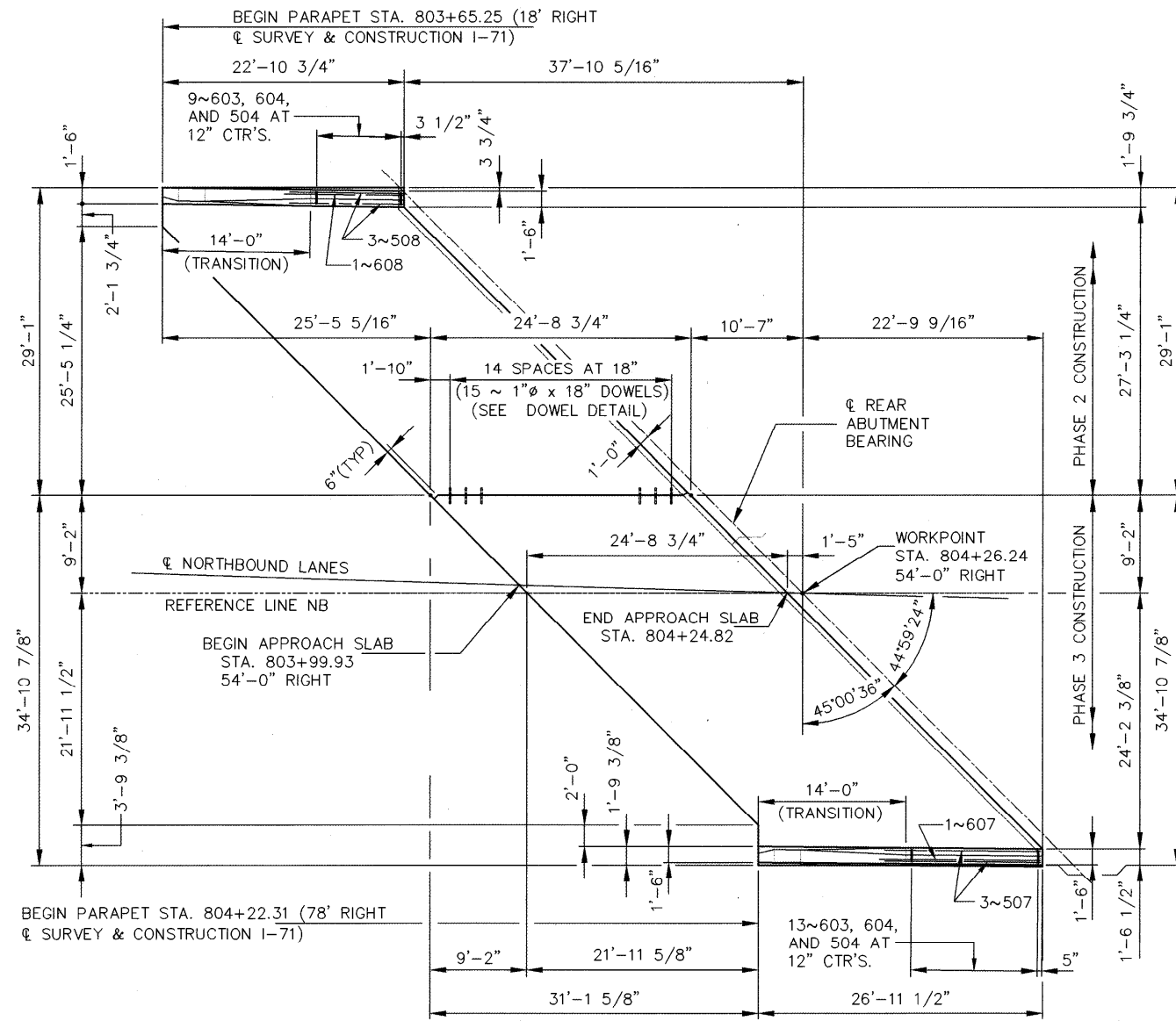
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BRIDGE NO. RIC-71-1523 L
OVER ROCKY CREEK

RIC- 71-13.66

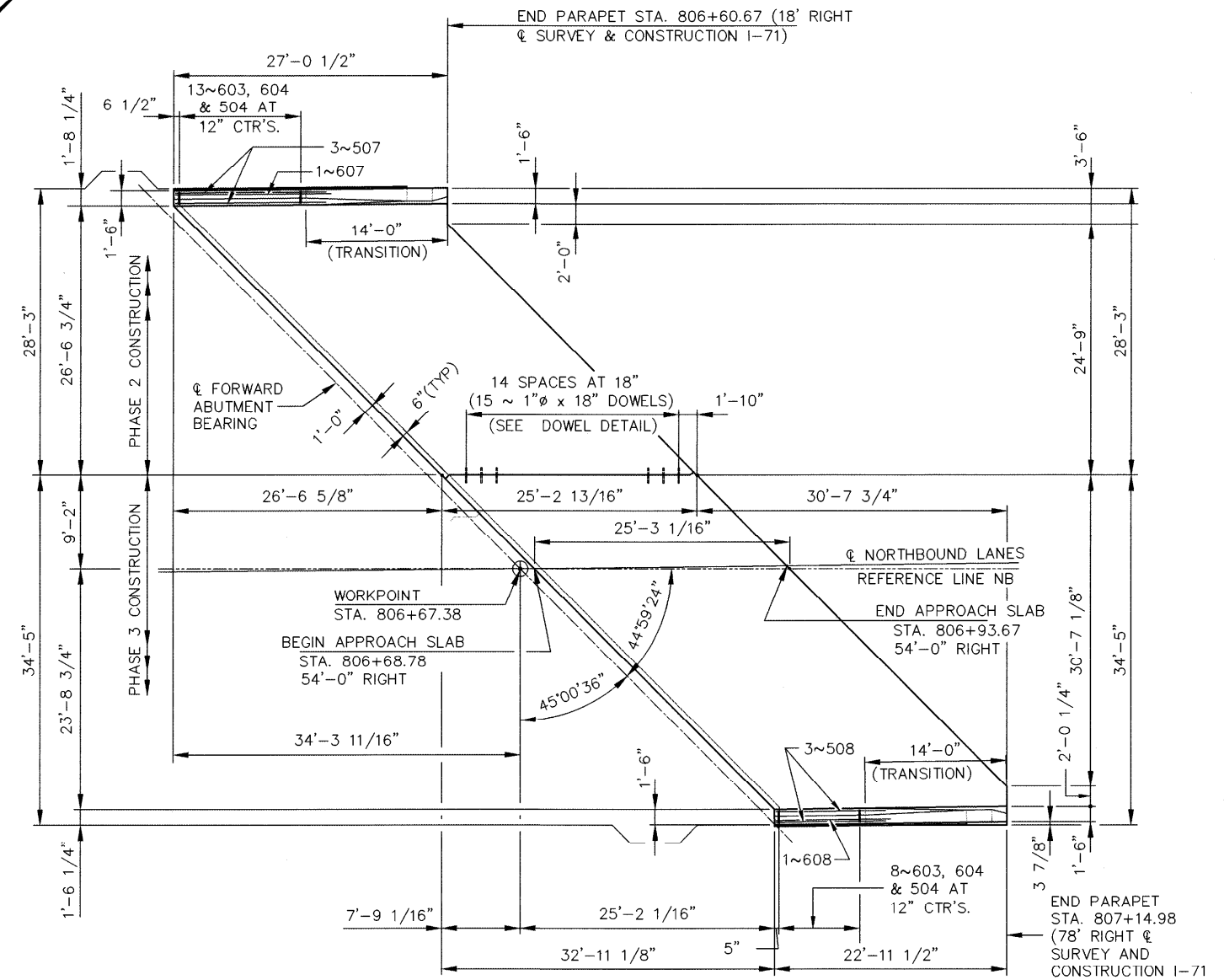
32/38

507
633

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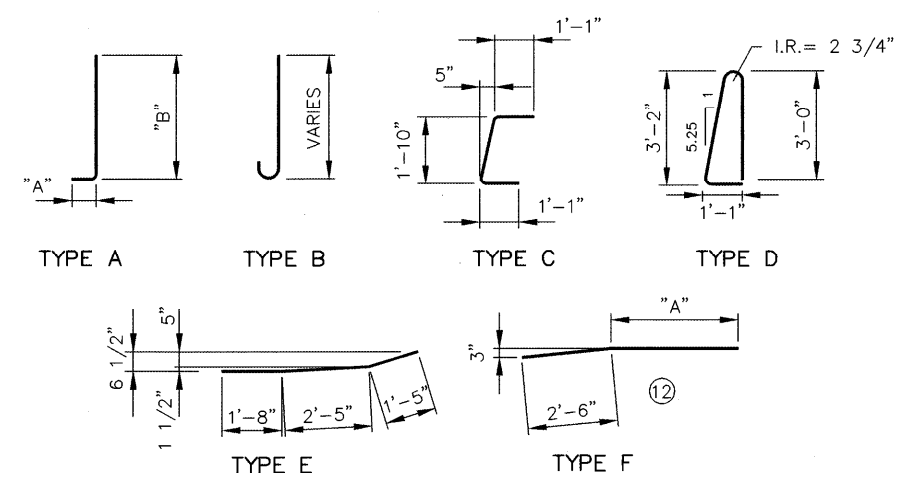


PLAN REAR APPROACH SLAB
(APPROACH SLAB AREA = 177 SQUARE YARDS)

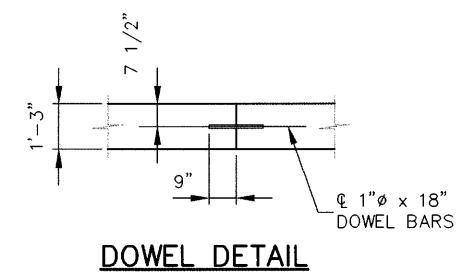


PLAN FORWARD APPROACH SLAB
(APPROACH SLAB AREA = 177 SQUARE YARDS)

APPROACH SLAB PARAPET AND TRANSITION REINFORCING								
MARK	NO. REQ'D.	LENGTH	TYPE	DIMENSIONS				SER'S. INCRM.
				A	B	C	D	
501	40	5'-6"	ST					
502	24	5'-6"	E					
503	64	10'-0"	ST					
504	87	7'-5"	D					
505	12	14'-6"	ST					
506	12	11'-0"	ST					
507	12	14'-9"	ST					
508	12	10'-9"	ST					
601	80	3'-11"	A	0'-8"	3'-5"			
SER'S. OF 10=	16-SETS OF 10=	4'-2" TO 4'-11"	B	3'-6" TO 4'-3"				0'-1"
602	160 BAR							
603	87	3'-9"	C					
604	87	2'-10"	A	1'-1"	1'-11"			
605	2	15'-0"	F	12'-6"				
606	2	11'-6"	F	9'-0"				
607	2	15'-3"	F	12'-9"				
608	2	11'-3"	F	8'-9"				



BAR BENDING DIAGRAMS

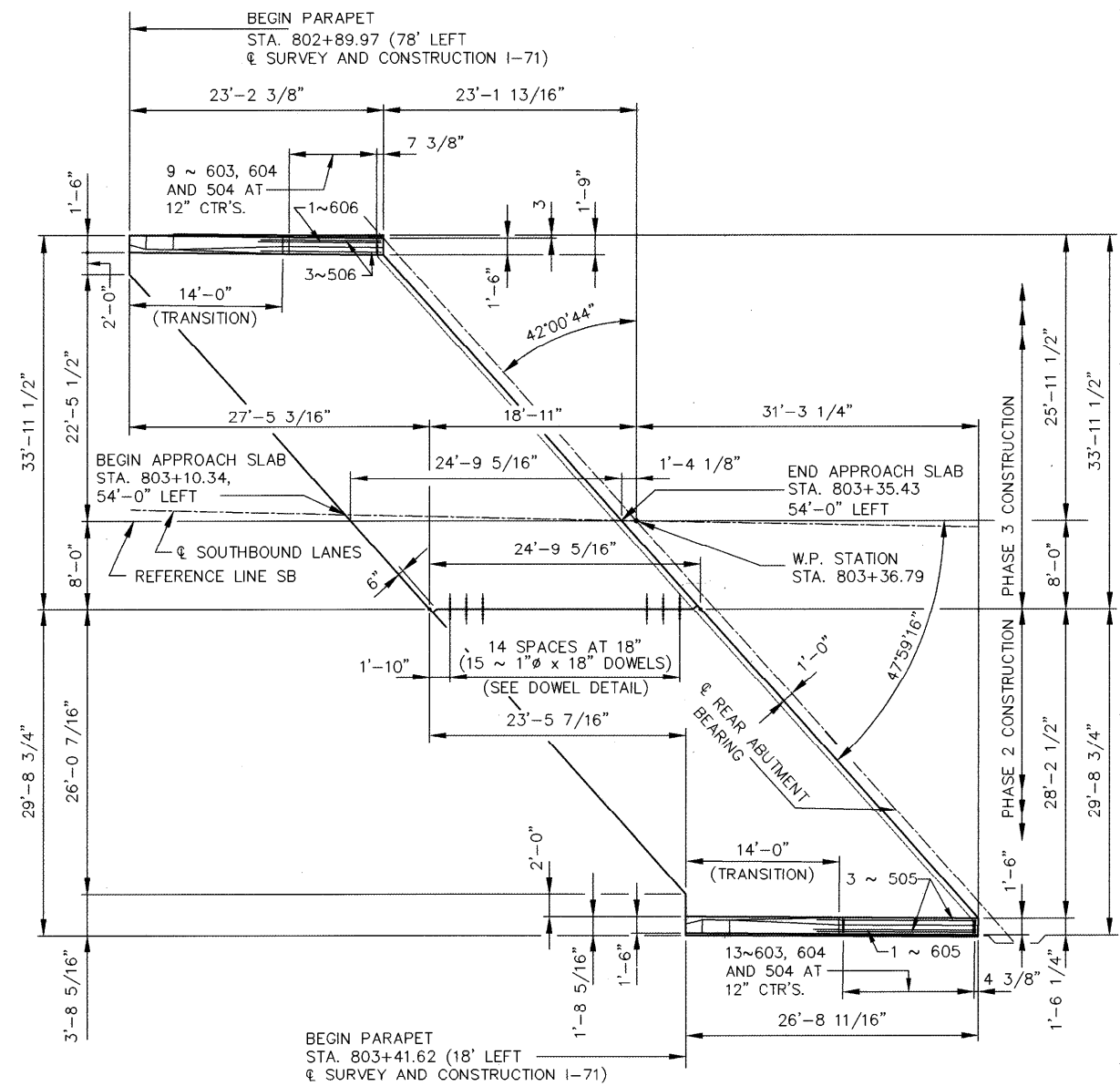


DOWEL DETAIL

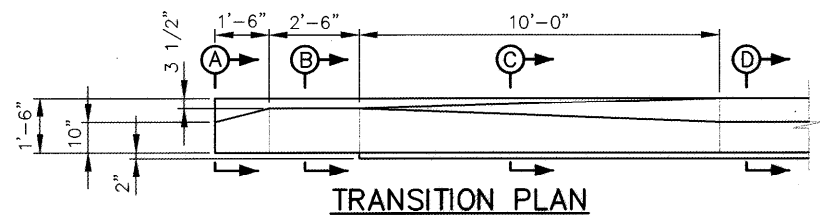
NOTE:
FOR TYPICAL PARAPET TRANSITION DETAIL, AND LOCATIONS OF SECTIONS A-A, B-B, C-C, AND D-D AND ADDITIONAL NOTES SEE SHEET 34 OF 38.

URS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 564 WHITE POND DRIVE
 APRON, OHIO 44320-1100
 DATE: 7/3/00
 B.K.L.
 STRUCTURE FILE NUMBER: 7004478 (L)
 7004508 (R)
 DESIGNED: A.L.H. CHECKED: A.Y.Z.
 DRAWN: A.L.H. REVISED:
 REVIEWED:
NORTHBOUND APPROACH SLABS & MISCELLANEOUS DETAILS
 BRIDGE NO. RIC-71-1523 L/R
 OVER ROCKY FORK CREEK
RIC- 71-13.66
 33/38
 508
 633

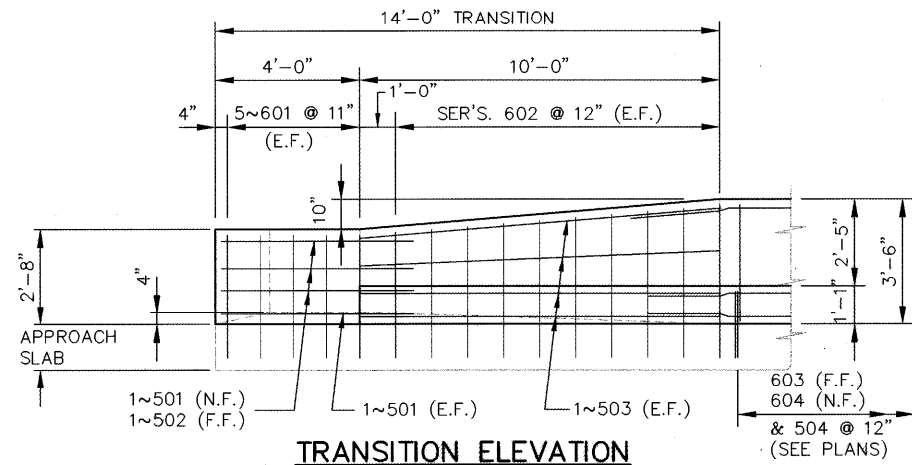
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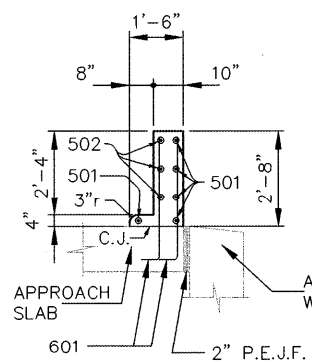
PLAN REAR APPROACH SLAB
(APPROACH SLAB AREA = 176 SQUARE YARDS)



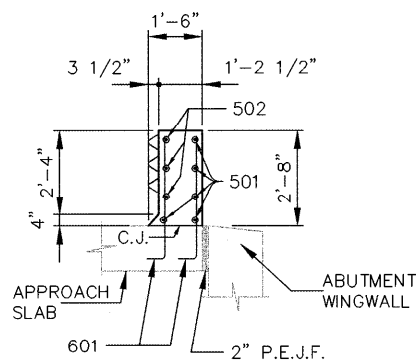
TRANSITION PLAN



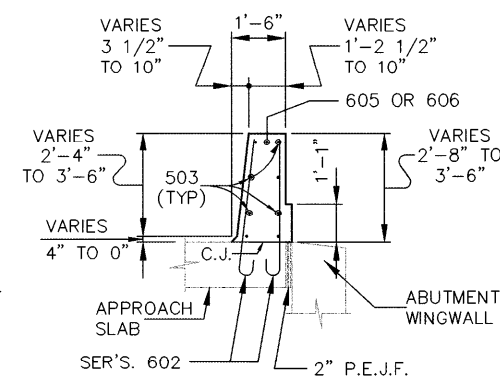
TRANSITION ELEVATION



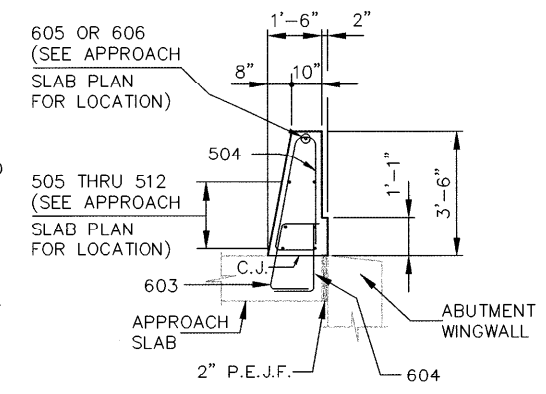
SECTION A-A



SECTION B-B



SECTION C-C

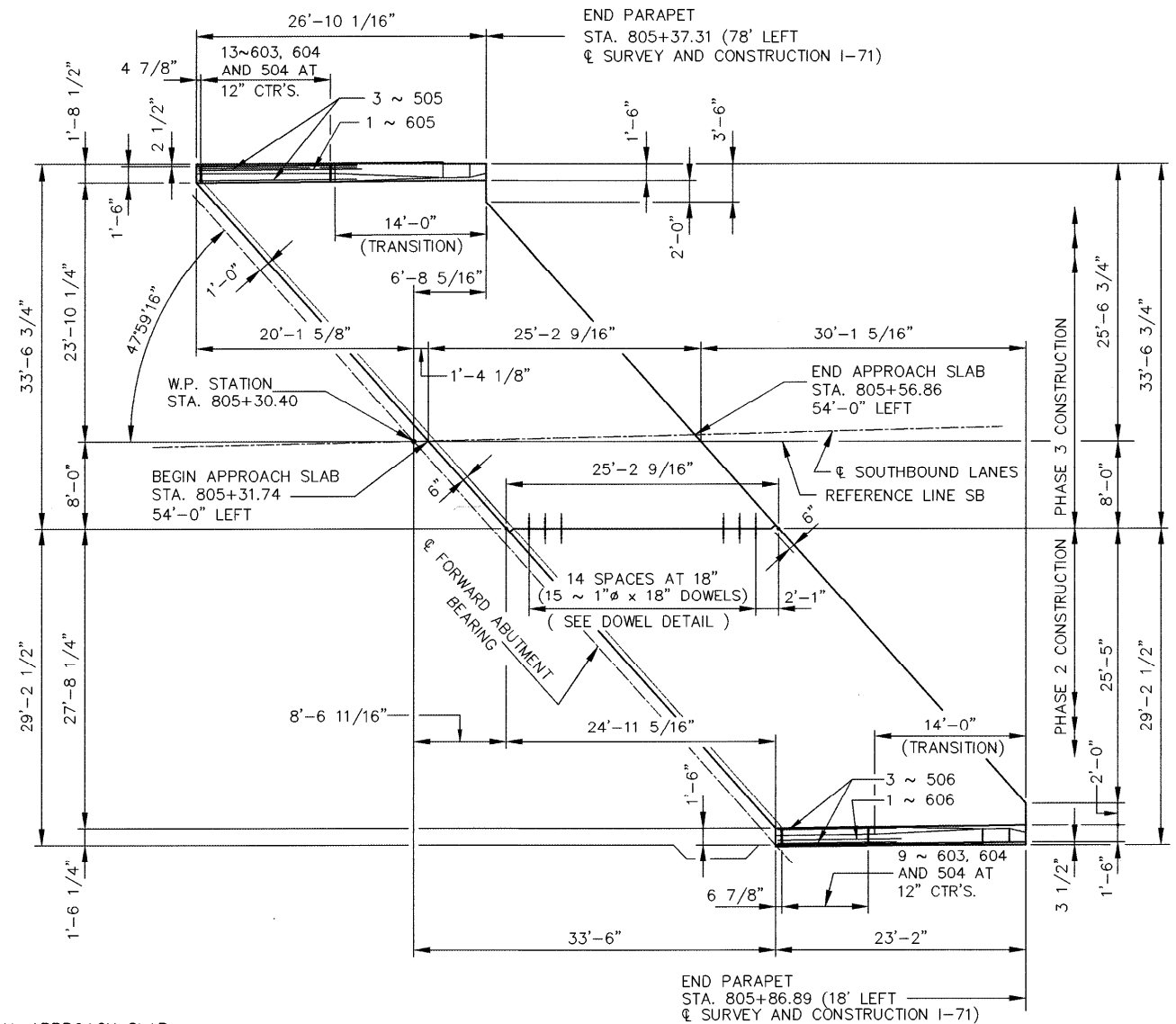


SECTION D-D

NOTES:

FOR REINFORCING STEEL AND ADDITIONAL APPROACH SLAB DETAILS AND NOTES NOT SHOWN HERE SEE OHIO STATE STANDARD DRAWING AS-1-81.

FOR BAR BENDING DIAGRAMS, AND DOWEL DETAIL SEE NORTHBOUND APPROACH SLAB DETAIL SHEET 33 OF 38.



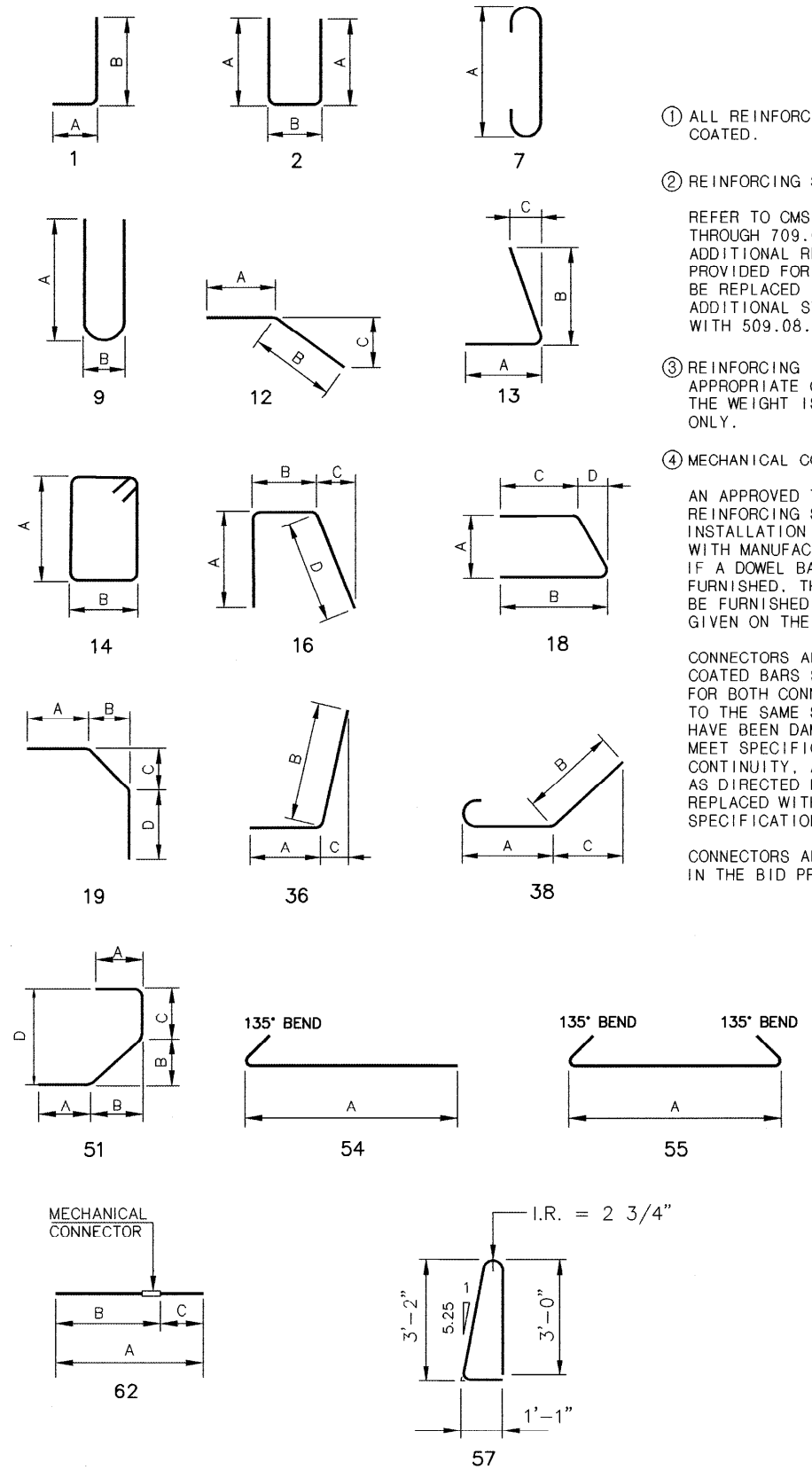
PLAN FORWARD APPROACH SLAB
(APPROACH SLAB AREA = 177 SQUARE YARDS)

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NORTHBOUND REINFORCING SCHEDULE

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
PIER 1									
1 P 501	56	9-6	9	4-0	2-8			555	
1 P 502	112	2-4	54	2-0				273	
1 P 503	112	3-4	55	2-8				389	
1 P 504	14	13-2	ST					192	
SERIES OF 2-SETS OF 8- TO 10-11 TO 11-8				4-3	2-8			7	
								1-0--	
1 P 505	16 BAR	18-5		8-0	2-8			8	
1 P 506	10	8-6	9	3-6	2-8			89	
1 P 507	4	10-6	19	3-5	3-8	3-9	2-0	44	
1 P 508	4	11-0	19	2-5	4-8	4-10	2-0	46	
SERIES OF 2-SETS OF 7- TO 9-0 TO 10-11				3-4	2-7			11	
								0-11--	
1 P 509	14 BAR	14-10		6-3	2-7			16	
1 P 510	18	8-4	2	3-0	2-7			156	
1 P 601	21	13-0	7	11-8				410	
1 P 602	20	16-2	ST					486	
1 P 801	2	18-5	2	2-9	13-4			98	
1 P 802	6	17-9	1	2-9	15-2			284	
1 P 901	24	14-2	7	11-8				1156	
1 P 902	18	16-2	ST					989	
1 P1001	26	14-8	1	2-2	12-10			1641	
1 P1002	26	28-0	ST					3133	
TOTAL								PIER 1 -	10360

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
PIER 2									
2 P 501	56	9-6	9	4-0	2-8			555	
2 P 502	112	2-4	54	2-0				273	
2 P 503	112	3-4	55	2-8				389	
2 P 504	14	13-2	ST					192	
SERIES OF 2-SETS OF 8- TO 10-11 TO 11-8				4-3	2-8			7	
								1-0--	
2 P 505	16 BAR	18-5		8-0	2-8			8	
2 P 506	10	8-6	9	3-6	2-8			89	
2 P 507	4	10-6	19	3-5	3-8	3-9	2-0	44	
2 P 508	4	11-0	19	2-5	4-8	4-10	2-0	46	
SERIES OF 2-SETS OF 7- TO 9-0 TO 10-11				3-4	2-7			11	
								0-11--	
2 P 509	14 BAR	14-10		6-3	2-7			16	
2 P 510	18	8-4	2	3-0	2-7			156	
2 P 601	21	13-0	7	11-8				410	
2 P 602	20	16-2	ST					486	
2 P 801	2	18-5	2	2-9	13-4			98	
2 P 802	6	17-9	1	2-9	15-2			284	
2 P 901	24	14-2	7	11-8				1156	
2 P 902	18	16-2	ST					989	
2 P1001	26	14-8	1	2-2	12-10			1641	
2 P1002	26	29-5	ST					3291	
TOTAL								PIER 2 -	10518



NOTES

- ① ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ② REINFORCING SAMPLES
REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL. SPLICED IN ACCORDANCE WITH 509.08.
- ③ REINFORCING IS TO BE INCLUDED WITH APPROPRIATE CONCRETE ITEM FOR PAYMENT. THE WEIGHT IS SHOWN HERE FOR INFORMATION ONLY.
- ④ MECHANICAL CONNECTORS:
AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING STEEL BARS SHALL BE PROVIDED. INSTALLATION OF CONNECTORS SHALL CONFORM WITH MANUFACTURE'S RECOMMENDED PROCEDURES. IF A DOWEL BAR SPLICE TYPE OF CONNECTOR IS FURNISHED, THE MINIMUM DOWEL BAR LENGTH TO BE FURNISHED WITH THE CONNECTOR SHALL BE GIVEN ON THE PLANS.
CONNECTORS AND DOWEL BARS USED WITH EPOXY COATED BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY, AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS.
CONNECTORS AND DOWEL BARS SHALL BE INCLUDED IN THE BID PRICE OF ITEM 842 AND 844.

URS Greiner Woodward Clyde
 ARCHITECTS • ENGINEERS • PLANNERS
 564 WHITE POND DRIVE
 AKRON, OHIO

DESIGNED
ALLH.

DATE

REVIEWED

DATE

CHECKED
AYZ.

STRUCTURE FILE NUMBER
7004478 (L)
7004508 (R)

REVISOR

DATE

NORTHBOUND REINFORCING SCHEDULE
 BRIDGE NO. RIC-71-1523
 OVER ROCKY FORK CREEK

RIC- 71-13.66

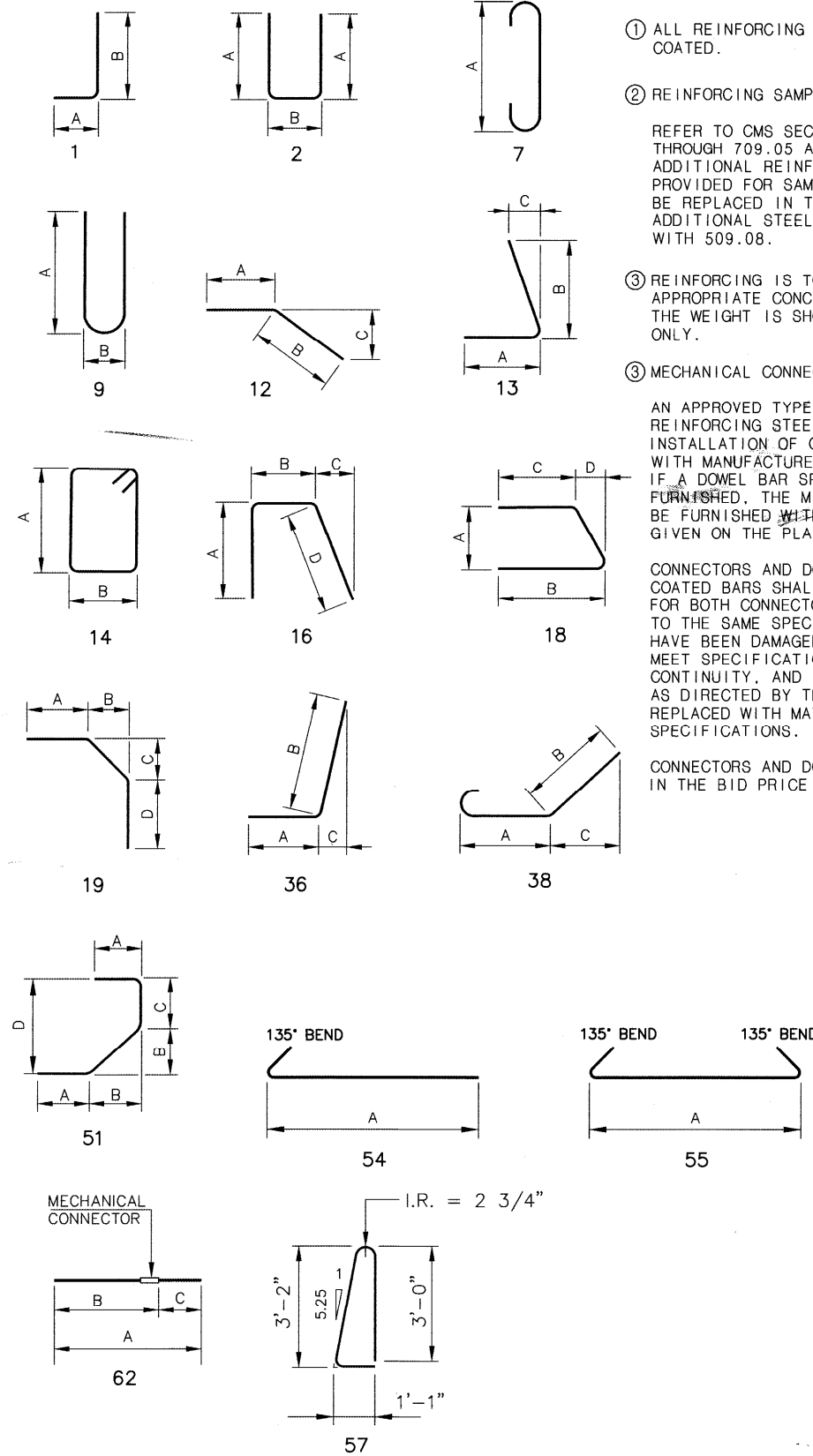
36/38
511
633

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SOUTHBOUND REINFORCING SCHEDULE

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
PIER 3									
3 P 501	54	9- 6	9	4- 0	2- 8				535
3 P 502	108	2- 4	54	2- 0					263
3 P 503	108	3- 4	55	2- 8					375
3 P 504	14	13- 2	ST						192
SERIES OF 3 P 505	2-SETS OF 8- TO 16 BAR	10-11 TO 18- 5	2	4- 3 TO 8- 0	2- 8			1- 0--	245
3 P 506	10	8- 6	9	3- 6	2- 8				89
3 P 507	4	10- 6	19	3- 5	3- 8	3- 9	2- 0		44
3 P 508	4	11- 0	19	2- 5	4- 8	4-10	2- 0		46
SERIES OF 3 P 509	2-SETS OF 7- TO 14 BAR	9- 0 TO 14-10	2	3- 4 TO 6- 3	2- 7			0-11--	174
3 P 510	18	8- 4	2	3- 0	2- 7			11	156
3 P 601	21	13- 0	7	11- 6					405
3 P 602	20	16- 0	ST						481
3 P 801	19	16- 0	ST						812
3 P 802	2	18- 5	2	2- 9	13- 4				98
3 P 803	6	17- 9	1	2- 9	15- 2				284
3 P 901	24	14- 2	7	11- 6					1142
3 P1001	26	14- 8	1	2- 2	12-10				1641
3 P1002	26	29- 0	ST						3244
TOTAL PIER 3 -								10241	

MARK	No. REQD.	LGTH.	TYPE	DIMENSIONS				INCRM.	WEIGHT LBS.
				A	B	C	D		
PIER 4									
4 P 501	58	9- 6	9	4- 0	2- 8				575
4 P 502	116	2- 4	54	2- 0					282
4 P 503	116	3- 4	55	2- 8					403
4 P 504	14	13- 2	ST						192
SERIES OF 4 P 505	2-SETS OF 8- TO 16 BAR	11- 9 TO 20- 5	2	4- 3 TO 9- 0	2- 8			1- 2--	268
4 P 506	10	8- 6	9	3- 6	2- 8				89
4 P 507	4	10- 6	19	3- 5	3- 8	3- 9	2- 0		44
4 P 508	4	11- 0	19	2- 5	4- 8	4-10	2- 0		46
SERIES OF 4 P 509	2-SETS OF 7- TO 14 BAR	9- 0 TO 14-10	2	3- 4 TO 6- 3	2- 7			0-11--	174
4 P 510	18	8- 4	2	3- 0	2- 7			11	156
4 P 601	21	13- 0	7	11- 6					405
4 P 602	20	16- 0	ST						481
4 P 801	19	16- 0	ST						812
4 P 802	2	18- 5	2	2- 9	13- 4				98
4 P 803	6	17- 9	1	2- 9	15- 2				284
4 P 901	24	14- 2	7	11- 6					1142
4 P1001	26	14- 8	1	2- 2	12-10				1641
4 P1002	26	30- 6	ST						3412
TOTAL PIER 4 -								10645	



NOTES

- ① ALL REINFORCING STEEL SHALL BE EPOXY COATED.
- ② REINFORCING SAMPLES
REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL. SPLICED IN ACCORDANCE WITH 509.08.
- ③ REINFORCING IS TO BE INCLUDED WITH APPROPRIATE CONCRETE ITEM FOR INFORMATION. THE WEIGHT IS SHOWN HERE FOR INFORMATION ONLY.
- ③ MECHANICAL CONNECTORS:
AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING STEEL BARS SHALL BE PROVIDED. INSTALLATION OF CONNECTORS SHALL CONFORM WITH MANUFACTURE'S RECOMMENDED PROCEDURES. IF A DOWEL BAR SPLICE TYPE OF CONNECTOR IS FURNISHED, THE MINIMUM DOWEL BAR LENGTH TO BE FURNISHED WITH THE CONNECTOR SHALL BE GIVEN ON THE PLANS.
CONNECTORS AND DOWEL BARS USED WITH EPOXY COATED BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY, AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS.
CONNECTORS AND DOWEL BARS SHALL BE INCLUDED IN THE BID PRICE OF ITEM 842 AND 844.