FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-IDR-10-1(84)24	1987	1	159 H

INDEX TO SHEETS

—CONTINUES ON SHEET 1-A—

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
PROJECT NO. I-IR-IDR-10-1(84)24
MOBILE COUNTY
ON I-10 STA. 540+00 TO STA. 660+06.82

SCALES: PLAN 1 INCH = 100 FT.
PROFILE HORIZ. 1 INCH = 100 FT. VER. 1 INCH = 5 FT.
LAYOUT, 1 IN. = 5,280 FT.

REMOVAL & REPLACEMENT OF CONCRETE PAVEMENT, ADDITIONAL LANES INSIDE & OUTSIDE, MODIFICATION OF SIGNS, LIGHTING & BRIDGE WIDENING

CONVENTIONAL SIGNS

STATE AND NATIONAL LINE		SHIP AND BARGE LINE	
COUNTY LINE		INTRA-COASTAL WATERWAY	I.C. WATERWAY
CITY OR TOWN BOUNDARY		POWER POLE	
FENCE LINE: WOOD		TELEPHONE OR TELEGRAPH POLE	
FENCE LINE: BARBED WIRE		MARSH	
FENCE LINE: CHAIN LINK		FAP OR FAS ROUTE	
STONE WALL		RAILROAD	
NATIONAL FOREST BOUNDARY		RIGHT OF WAY LINE	
MILITARY RESERVATION BOUNDARY		PROPERTY LINE	
EXISTING CULVERT		LEVEE	
PROPOSED CULVERT		GUARD RAIL	
BRIDGE		PROJECT CENTER LINE	
NAVIGABLE STREAMS	NAV		

IN PLACE I-OVER BRIDGES (TO BE WIDENED)

BEGIN STA. 555+41.45 TO END STA. 558+71.29 DUAL BRIDGES—329.84 LIN. FT (BROAD ST.) ④
BEGIN STA. 591+16.85 TO END STA. 593+52.66 DUAL BRIDGES—235.81 LIN. FT (TENN. ST.) ⑤
BEGIN STA. 597+19.36 TO END STA. 598+81.05 DUAL BRIDGES—161.69 LIN. FT. (WARREN-LAWRENCE ST.) ⑥
BEGIN STA. 607+73.22 TO END STA. 609+51.33 DUAL BRIDGES—178.11 LIN. FT. (VIRGINIA ST.) ⑦
BEGIN STA. 621+66.47 TO END STA. 623+43.66 DUAL BRIDGES—177.19 LIN. FT. (TEXAS ST.) ⑧

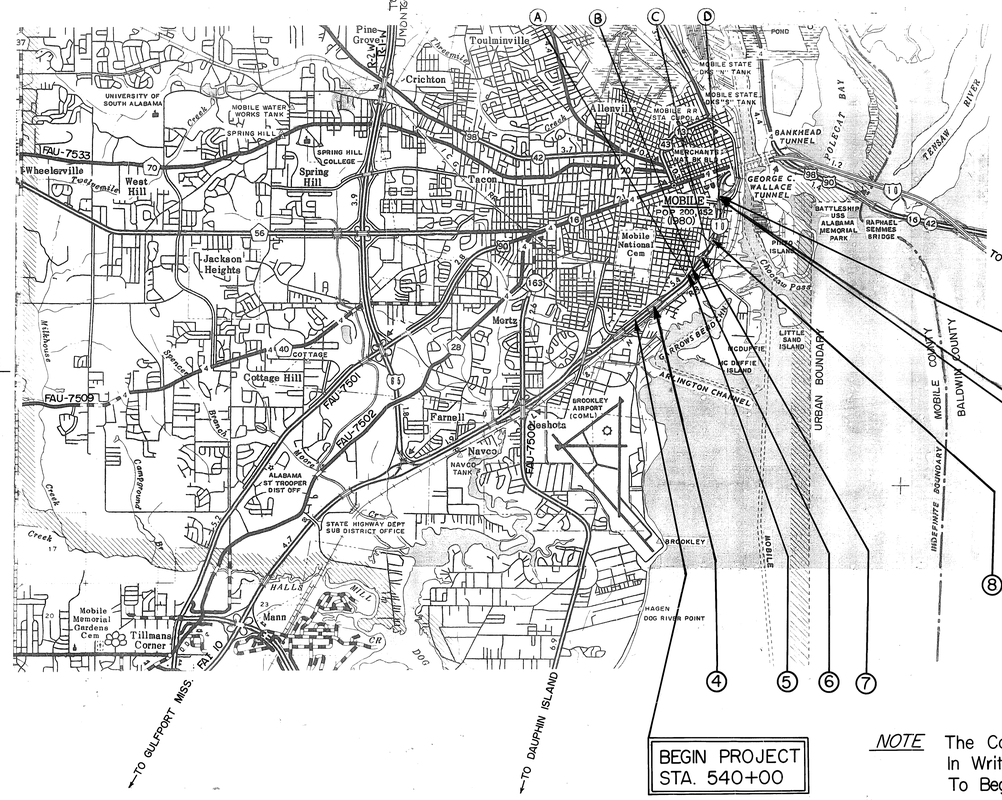
TOTAL EFFECT = 1082.64 LIN. FT.

"EQUATIONS"

Ⓐ STA. 590+86.21 BK = STA. 590+84.08 AH = 2.13 LIN. FT.
Ⓑ STA. 597+11.86 BK = STA. 597+11.68 AH = 0.18 LIN. FT.
Ⓒ STA. 614+67.29 BK = STA. 614+66.60 AH = 0.69 LIN. FT.
Ⓓ STA. 640+39.22 BK = STA. 646+50.00 AH = -610.78 LIN. FT.

TOTAL EFFECT = — 607.78 LIN. FT

NO
"EXCEPTIONS"



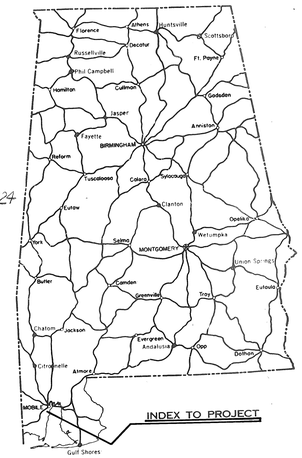
END WORK STA. 48+00 WBR = STA. 660+06.82 BK = 45+90.13 WBR AH

END PROJECT STA. 660+06.82

BEGIN PROJECT STA. 540+00

NOTE: PROJECT I-IR-IDR-10-1(84)24 AND PROJECT I-IR-IDR-10-1(83)20 ARE TO BE LET IN THE SAME CONTRACT.

NOTE THE PROJECT NO. I-IR-IDR-10-1(84)24 AS INDICATED ON SHEET NO. 1 IS THE CORRECT IDENTIFICATION FOR THESE PLANS. IT SHALL BE UNDERSTOOD THAT THIS NUMBER SUPERSEDES PROJECT NO I-IR-10-1(84)24 AS LISTED ON SHEET 1A THROUGH 159H



DESIGN		DESIGNATION
A D T	(1987)	53,000
A D T	(2007)	93,300
K	=	10%
D	=	55%
T ADT	=	11%

V = 50 MPH (DESIGN SPEED)
ACTUAL MINIMUM STOPPING SIGHT DISTANCE = N/A

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM WITH ALABAMA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS DATED 1985.

NOTE The Contractor Shall Notify The Railroad In Writing 10 (Ten) Days Before Work Is To Begin On This Project.

SUBMITTED FOR APPROVAL

CHIEF ENGINEER
STATE OF ALABAMA HIGHWAY DEPARTMENT

APPROVED

HIGHWAY DIRECTOR
STATE OF ALABAMA HIGHWAY DEPARTMENT

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE

TOTAL STATIONING OF PROJECT	12,006.82 FT.	
EQUATIONS AND EXCEPTIONS	- 607.78 FT.	
NET LENGTH OF PROJECT	11,399.04 FT.	= 2.158 MI.
NET LENGTH OF BRIDGES	1,082.64 FT.	= 0.205 MI.
NET LENGTH OF ROADWAYS	10,316.40 FT.	= 1.953 MI.

PRELIMINARY PROJECT NO. I-IR-10-1(84)
CODE NO. 4311-109-036-010-001-075-472-2

INDEX TO SHEETS CONTINUED

FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	1A	159-H

SHEET NO.	LISTING
" " 9	OMIT
" " 10	OMIT
" " 11	OMIT
" " 12	PAVING LAYOUT STA. 535+50 TO STA. 550+00
" " 13	PAVING LAYOUT STA 550+00 TO STA 566+00
" " 14	" " " 566+00 TO STA. 582+00
" " 15	" " " 582+00 TO STA. 595+00
" " 16	" " " 595+00 TO STA. 611+00
17	" " " 611+00 TO STA. 625+00
18	" " " 625+00 TO STA. 640+00
19	" " " 640+00 TO STA. 660+00
20	OMIT
21	OMIT
22	OMIT
23	OMIT
24	OMIT
25-25I	UTILITY SHEETS
26-26G	DRAINAGE SHEETS
27-27R	BRIDGE SHEETS OVER BROAD STREET
28-28U	BRIDGE SHEETS OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD
29-29U	BRIDGE SHEETS OVER WARREN-LAWERENCE CONNECTOR
30-30W	BRIDGE SHEETS OVER VIRGINIA STREET
31-31Y	BRIDGE SHEETS OVER TEXAS STREET
32-32A	TEST BORING RECORD
33	INTERIOR JOINT REPAIR
34-34U	LIGHTING DETAILS
P 35-35R	TRAFFIC STRIPING LAYOUT AND SIGN LAYOUT
36	OMIT
37	DETAIL FOR MOUNTING WARNING SIGNS ON MEDIAN BARRIER
38	SPECIAL PROJECT DETAIL BARRIER WITH LUMINAIRE MOUNTING DETAILS
39	OMIT
40	SPECIAL DWG. NO. BES-450-0 DETAILS OF BRIDGE END SLAB
41	" " " GR-630-FD FLARE DETAIL AND WARRANTY CRITERIA FOR GUARDRAIL
42	" " " GR-630-S GALVANIZED STEEL BEAM GUARDRAIL
43-43B	" " " RPC-530 (3-SHEETS) DETAILS OF BEDDING OF PIPE
44	" " " GA-630-8 DETAILS OF TYPE 8 GUARDRAIL END ANCHORS
45	" " " GA-630-10 DETAILS OF TYPE 10 GUARDRAIL END ANCHORS
46	" " " GA-630-13 DETAILS OF GUARDRAIL END ANCHOR TYPE 13
47-47A	" " " GR-9A & GUARDRAIL END ANCHOR TY 3 (FOR INFORMATION PURPOSE ONLY)
48	" " " PU-606 DETAILS FOR PIPE UNDERDRAIN INSTALLATION
49	" " " 197-4L M SUPERELEVATION OF CURVES FOR FOUR (4) LANE HIGHWAYS
50	" " " PM-705-1 PAVEMENT MARKERS
51	" " " IHS-710-14 HIGHWAY SIGN MOUNTING FOR STANDARD SIGNS
52	" " " B-107-1 BARRICADES TYPE I, TYPE II AND TYPE III
53	" " " LCS.-107 REQUIREMEMENTS FOR LIGHTING CONSTRUCTION SIGNS
54	" " " T.C.D. 100 DETAILS FOR TRAFFIC CHANNELIZING DEVICES
55	" " " T.C.M. 703 PAVEMENT LEGENDS AND MARKINGS
56	" " " P.M.-705-2 APPLICATION OF PAVEMENT MARKERS
57-57A	" " " P.M.-705-3 REFLECTORIZED MARKINGS
58	OMIT
59	OMIT
60	SPECIAL DWG. NO. ECN-659 EROSION CONTROL NETTING
61	" " " IPS-701-8 TRAFFIC STRIPING AUXILIARY LANES AND RAMPS
62	" " " IPS-701-5 TRAFFIC STRIPES FOR 6 LANE RURAL HIGHWAYS WITH PAVED SHOULDERS
63	OMIT
64	OMIT
65	SPECIAL DWG. NO. 623-XY DETAILS OF CONCRETE CURBS & CONCRETE CURB & GUTTER MOUNTABLE & BARRIER TYPES
66	" " " B-614 SLOPE PAVING ON SLOPES UNDER SEPARATION BRIDGES
67	" " " CPJ-450 PLAIN AND REINFORCED CEMENT CONC. PAVT. AND BRIDGE END SLAB JOINTS
68	" " " NC-623 GORE AT TERMINALS OF ENTRANCE & EXIT RAMPS. RURAL OR URBAN SECTIONS
69	" " " IPS-10(S.C.) DETAILS SHOWING NOSE GORE REQUIRED ADJACENT TO RECOVERY LANE & REQUIRED ADJACENT TO RECOVERY LANE
70	" " " GTE-629 CONCRETE MEDIAN BARRIER TYPE 6-A FOR USE WITH G-R-E-A-T SYSTEM (PORTABLE)
71	" " " GR-630-PP DETAIL OF GUARDRAIL FOR BRIDGE PIER PROTECTION ON EXISTING PROJ WITH SLOPES GREATER THAN 10:1
72	" " " J.B.-621-P PRE-CAST JUNCTION BOX-TYPE IP, 2P & 5
73	" " " PNJB-629 PRE-CAST CONCRETE BARRIER TYPE-6
74-74A	" " FE-619 DETAIL OF CONCRETE FLARED END SECTION W/GRATE FOR CONCRETE AND METAL PIPE
75	" " " S.W.-618 DETAILS OF SIDEWALKS
76	SPECIAL PROJECT DETAIL - STEEL PLATE ON CONC. MEDIAN BARRIER
77-77A	SPECIAL PROJECT DWG (2-SHTS) WIND VELOCITY CHART
78	SPECIA PROJECT DETAIL INLET TYPE E3 AND E4 FOR USE WITH CONC. MEDIAN BARRIER
79	" " " CONC MEDIAN BARRIER TREATMENT UNDERPASS PIERS
80	" " " DETAILS SHOWING LOCATION OF BASE PLATES & REQ'D JOINT FOR OVERHEAD SIGN SUPPORT TY.5 MEDIAN BARRIER
81	SPECIAL DWG. NO. 710-2 BEAM POST DETAILS BASE CONN. TY-1 FUSE PLATE
82	SPECIAL DWG. NO. CC-530 DETAILS OF CONC. COLLAR
83	" " " SS-654 SOD TERRACE OUTLETS & FLUMES
84	" " " EC-665-F DETAILS OF SILT FENCE
85	SPEC. DETAIL DETAILS OF TY. 2 MOD, TY. 4A MOD. CONC. BARRIER & TRANSITION ALSO DETAIL OF TY. 10 MOD. CONC. BARRIER
86	SPEC DWG NO. 710-3 BEAM POST DETAILS BASE CONN. TY-2 FUSE PLATE
87-87H	STD. DWG. NO. BRIDGE STANDARDS --- BGN-1, PSCP-1, TP1 2SHEETS, I-100, I-131 3SHEETS, LPS-1
88-88Z10	BRIDGE PLAN SHEETS FOR INFORMATION PURPOSES ONLY
89-89-H	STANDARD HIGHWAY SIGNS - 1-9-10-11-21-22-23-24-25
90	SPEC. DWG. NO. I.F.-634 -- INDUSTRIAL FENCE
91	" " " C.S.P.-532 DETAILS OF CORRUGATED SLOTTED DRAIN PIPE 12"-30" DIAMETER
92	" " " JB-620-B DETAILS OF JUNCTION BOX FOR PIPES 15"-60" TYPE I (0'-10' FILL HEIGHT)
93-93B	" " " I.H.S.-710-4 (3-SHTS) MULTI-DIRECTIONAL BREAKAWAY BASE
94	" " " I.H.S.-710-11 ALUMINUM LAMINATED SIGNS
95	" " " IA-720-G DETAILS OF G-R-E-A-T SYSTEM-IMPACT ATTENUATOR
96	" " " IHS-710-24 MOUNTING FLAT SHT. ALUM. SIGNS ON EXTRUDED ALUMINUM STIFFENERS
P 97	" " " MP-710 DETAILS FOR MILEPOST ON 2 LANE OR 4 LANE HIGHWAY
98-125I	CROSS SECTIONS EBR STA. 541+50 ~ 660+19
125J-125K	OMIT
126-148	CROSS SECTIONS WBR STA 540+00 ~ 597+25.70
149-159F	CROSS SECTIONS WBR STA. 609+18.44 ~ 653+00
159G	CROSS SECTIONS MEDIAN STA. 655+50 ~ 660+00
159-H	SPEC. DWG NO. IHS-710-19 DETAILS OF MOUNTING SIGN ON ROUND BREAKAWAY POST

P Add STD DWG 9/3/87.

BRUNING 58051

FHWA REG.NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	AL	I-IR-10-1(E4)	1987	3-A	159 H

SUMMARY OF QUANTITIES

BRIDGE		ROADWAY		
I-FUNDS	IR-FUNDS	I-FUNDS	IR-FUNDS	TOTAL
			2313	2313
			3223	3223
		50	50	100
		476	4272	4748
		1500	500	2000
		5050	4605	9655
213100	515250			728350
2	8			10
	2			2
2	6			8
2	8			10
	2			2
2	6			8
3402	10235			13637
	2005			2005
5213	13325			18538
34830	113120			147950
1	1			2
893	2249			3142
1				1
	1			1
1				1
	1			1
	1			1
	1			1
	1			1
	1			1
	1			1
	1			1
	4689			4689
1379	1379			2758
	49			49
		16	402	418
			77	77
			3	3
			42	42
		84	180	264
		4290	5616	9906
		0.22	0.28	0.50
		5628	6416	12044

ITEM NO.	UNIT	DESCRIPTION
416A-003	TON	BITUMINOUS CONCRETE WEARING SURFACE (MIX B)
416C-000	TON	BITUMINOUS CONCRETE PLANT MIX, LEVELING
416D-000	TON	BITUMINOUS CONCRETE PLANT MIX, WIDENING
420A-001	TON	OPEN GRADED PLANT MIXED SEAL (MIX B)
430B-001	TON C I P	AGGREGATE SURFACING (PROCESSED REEF SHELLS)
450B-000	SQ YD	REINFORCED CEMENT CONCRETE BRIDGE END SLAB
502A-000	POUND	STEEL REINFORCEMENT
505A-000	EACH	STEEL TEST PILES (HP 10X42)
505A-005	EACH	PRETENSIONED-PRESTRESSED CONCRETE TEST PILE (12 INCHES SQUARE)
505A-006	EACH	PRETENSIONED-PRESTRESSED CONCRETE TEST PILE (14 INCHES SQUARE)
505B-000	EACH	LOADING TESTS (HP 10X42)
505B-005	EACH	LOADING TESTS (12 INCHES SQUARE)
505B-006	EACH	LOADING TESTS (14 INCHES SQUARE)
505C-000	LIN FT	STEEL PILING (HP 10X42)
505C-005	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE PILING (12 INCHES SQUARE)
505C-006	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE PILING (14 INCHES SQUARE)
508A-000	POUND	STRUCTURAL STEEL
508C-030	SET	BEARING PLATES BRONZE (ONE SET CONSISTS OF 30 PLATES)
510A-000	CU YD	BRIDGE SUBSTRUCTURE CONCRETE, CLASS A
510C-000	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 555+41.45, APPROX. 867 CU. YDS. -(INSIDE WIDENING)
510C-001	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 555+41.45, APPROX. 769 CU. YDS. -(OUTSIDE WIDENING)
510C-002	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 366 CU. YDS. -(INSIDE WIDENING)
510C-003	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 319 CU. YDS. -(OUTSIDE WIDENING)
510C-004	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 262 CU. YDS. -(INSIDE WIDENING)
510C-005	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 597+19.36, APPROX. 147 CU. YDS. -(OUTSIDE WIDENING)
510C-006	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 289 CU. YDS. -(INSIDE WIDENING)
510C-007	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 607+73.22, APPROX. 182 CU. YDS. -(OUTSIDE WIDENING)
510C-008	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 621+66.47, APPROX. 249 CU. YDS. -(INSIDE WIDENING)
510C-009	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 621+66.47, APPROX. 255 CU. YDS. -(OUTSIDE WIDENING)
513B-004	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE II (SPECIALTY ITEM)
513B-005	LIN FT	PRETENSIONED-PRESTRESSED CONCRETE GIRDERS, TYPE III (SPECIALTY ITEM)
523B-000	EACH	LIFTING BEARING
530A-001	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.)
530A-101	LIN FT	18" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-102	LIN FT	24" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-105	LIN FT	42" ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)
530A-200	LIN FT	15" ROADWAY PIPE (14 GAUGE C.C.S.P.I.)
532A-001	LIN FT	15" B.C.C.S. SLOTTED DRAIN PIPE
600A-000	LUMP SUM	MOBILIZATION
606A-005	LIN FT	6" UNDERDRAIN PIPE, TYPE 9

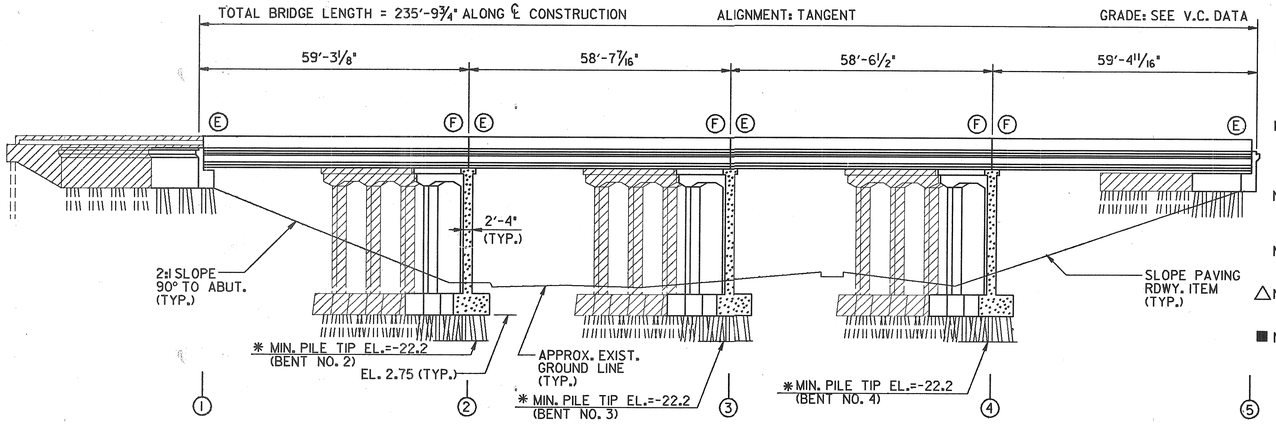
FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	3-K	159H

SUMMARY OF QUANTITIES
PROJECT NO. I-IR-10-1(84)
MOBILE COUNTY

REQUIRED WIDENING AND PARTIAL REMOVAL OLD R.C.D.G. BRIDGES

	STATION	SIDE	℄ LENGTH LIN. FT.	206A REMOVAL OF OLD BRIDGE LUMP SUM	215A UNCLASSIFIED BRIDGE EXCAVATION CU. YD.	502A STEEL REINFORCEMENT LB.	505A STEEL TEST PILE (HP10X42) EACH	505A PRETENSIONED-PRESTRESSED CONC TEST PILES (EACH) 12"SQ	14"SQ	24"SQ	505B LOADING TEST (HP 10X42) EACH	505B LOADING TEST (EACH) 12"SQ	14"SQ	24"SQ	505C STEEL PILING (HP 10X42) LIN FT	505C PRETENSIONED-PRESTRESSED CONC PILING (LIN FT) 12"SQ	14"SQ	24"SQ	508A STRUCTUAL STEEL LB	508C BEARING PLATES BRONZE SET	30		510A 501A BRIDGE SUBSTRUCTURE CONC CL A. CU YDS	510-C REINFORCED BRIDGE CONC. SUPERSTRUCTURE LUMP SUM	513B PRETENSIONED PRESTRESSED CONCRETE GIRDERS TYPE II	513B PRETENSIONED PRESTRESSED CONCRETE GIRDERS TYPE III	STD DWG NO.'S
I-FUNDS	555+41.45	206A-50		1	755	141,400	1		1		1		1		2,250		3988		22,130		1		595	1 @ 867 c.y.			
	591+16.85	206A-52		1	340	71.700	1		1		1		1		1152		1225		12,700				298	1@ 366 c.y.		1379	
				1	1095	213100	2		2		2		2		3402		5213		34830		1		893	1		1379	
IR-FUNDS	555+41.45	206A-51		1	755	136,900	1		1		1		1		2340		3988		26,480		1		581	1@ 769			
	591+16.85	206A-53		1	450	81200	1		1		1		1		1440		1627		16110				336	1@ 319 c.y.		1379	
	597+19.36	INSIDE		1	300	52,550	1	1			1	1			946	1203			12,300				248	1@ 262 c.y.	938		
	597+19.36	OUTSIDE		1	190	26000	1	1			1	1			637	802			10690				134	1@ 147 C.Y.	313		
	607+73.22	INSIDE		1	290	60,500	1		1		1		1		1344		1907		12,600				258	1@ 289	1032		
	607+73.22	OUTSIDE		1	193	31500	1		1		1		1		672		1271		10530				134	1@ 182	344		
	621+66.47	INSIDE		1	259	58,500	1		1		1		1		1344		1936		9200				258	1@ 249	1030		
	621+66.47	OUTSIDE		1	235	68 100	1		1		1		1		1512		2596		15210				300	1@ 255	1032		
				1	2672	515250	8	2	6		8	2	6		10235	2005	13325		113120		1		2249	1	4689	1379	

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28	1594



* "-" INDICATES BELOW ZERO ELEV.

ELEVATION W.B.L.
(LOOKING NORTH)
SCALE: 1/16" = 1'-0"

NOTE : EXISTING BRIDGE TO BE RETAINED FOR INSIDE WIDENING IS INDICATED BY CROSS-HATCHED AREAS (TYP. ALL BRIDGE SHEETS). SEE OUTSIDE WIDENING BRIDGE SHEETS FOR REMAINING REMOVAL OF EXTERIOR PORTION OF EXISTING BRIDGES.

NOTE : THE FINAL BRIDGE DECK FINISH BEHIND THE SCREED SHALL BE OBTAINED BY EITHER WOOD FLOATING OR BURLAP DRAG TO MATCH THE EXIST. DECK FINISH.

NOTE : (E) DENOTES EXPANSION
(F) DENOTES FIXED

NOTE : SEE BR. SHT. 2 FOR EXISTING AND PROPOSED MINIMUM VERTICAL CLEARANCE.

△ NOTE : TEST PILES SHALL NOT BE LOAD TESTED UNTIL SEVEN (7) DAYS, MINIMUM, AFTER DRIVING.

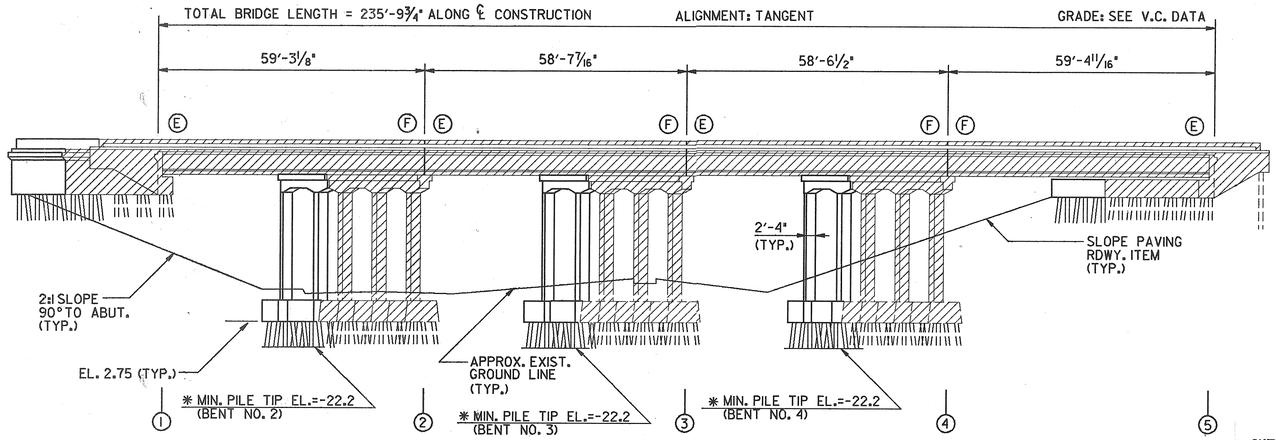
■ NOTE : USE 3" CLEAR FROM FACE OF PILE TO SPIRAL REINF. STEEL. CONCRETE SHALL BE A FLY-ASH MIX USING TYPE II CEMENT OR TYPE I CEMENT PROVIDED THE TRICALCIUM ALUMINATE CONTENT IN THE TYPE I CEMENT IS LESS THAN 8%. THE AMOUNT OF THE FLY-ASH SHALL NOT BE LESS THAN 12 LBS. PER BAG OF CEMENT.

○ NOTE : QUANTITY SHOWN IS ALL BRIDGE END SLAB WORK INCLUDING OUTSIDE WIDENING

NOTE : THE EXISTING SHOE ASSEMBLIES FOR ALL ABUTMENTS AND ALL BENTS SHALL BE SAND BLASTED AND PAINTED IN ACCORDANCE WITH SUBARTICLE 521.03(c) OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCLUDED IN PAY ITEM "REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE."

ESTIMATED QUANTITIES - "I" FUNDS

QUANTITY	UNIT	DESCRIPTION
1	LUMP SUM	REMOVAL OF OLD BRIDGE @ STA. 591+16.85 (PARTIAL ONLY W.B.L. & E.B.L.-INSIDE WIDENING)
340	CU. YD.	UNCLASSIFIED BRIDGE EXCAVATION
71,700	LB.	STEEL REINFORCEMENT
1	EACH	STEEL TEST PILES (HP10x42)
■ 1	EACH	PRETENSIONED - PRESTRESSED CONCRETE TEST PILES (14" SQUARE)
△ 1	EACH	LOADING TESTS (HP10x42)
△ 1	EACH	LOADING TEST (14" SQUARE)
152	LIN. FT.	STEEL PILING (HP10x42)
■ 1225	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE PILING (14" SQUARE)
12,700	LB.	STRUCTURAL STEEL
298	CU. YD.	BRIDGE SUBSTRUCTURE CONCRETE, CLASS "A"
1	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 366 CU. YD.
1379	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE GIRDERS, TYPE III (SPECIALTY ITEM)
○ 1876	SQ. YD.	REINFORCED CEMENT CONCRETE BRIDGE END SLAB



ELEVATION E.B.L.
(LOOKING NORTH)
SCALE: 1/16" = 1'-0"

SPECIAL NOTE REGARDING EPOXY ADHESIVES

PRIOR TO PLACING NEW CONC. AGAINST ANY BROKEN OR SCARIFIED SURFACE, A TYPE II EPOXY ADHESIVE SHALL BE APPLIED TO THE ROUGHENED CONC.

ALL DOWEL BARS PLACED IN EXIST. CONC. SHALL BE SET W/ A TYPE I, GRADE 1 EPOXY ADHESIVE.

SEE SECTION 870, EPOXY ADHESIVES, OF THE STD. SPECIFICATIONS.

CAUTION - CONTRACTOR MAY BE REQUIRED TO WORK IN CLOSE PROXIMITY TO ENERGIZED CONDUCTORS FOR LIGHTING CIRCUITS IN CONDUIT ALONG BRIDGE DECK AND THROUGH THE BRIDGE ABUTMENT WALL. CONTACT DIVISION PERSONNEL TO DE-ENERGIZE THESE CIRCUITS.

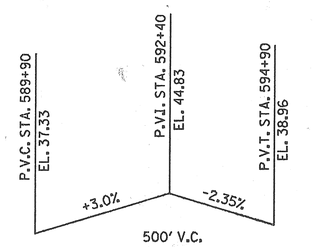
REQUIRED

WIDENING 59'-3⅛", 58'-7⅞16", 58'-6½", 59'-4¹¹⁄16" PRETENSIONED - PRESTRESSED AASHTO GIRDERS, TYPE III SIMPLE SPAN ---------- BR. SHT. NO. 1 THRU 7
WIDENING CONCRETE INT. BENTS (PILE FTGS.) ---------- BR. SHT. NO. 8 AND 9
WIDENING CONCRETE AND STEEL PILE ABUTMENTS ---------- BR. SHT. NO. 10 AND 11
◈ EXIST. ORIGINAL BRIDGE PLANS ---------- BR. SHT. NO. E14 THRU E19
TEST BORING RECORD ---------- BR. SHT. NO. 1A OF 3A
BRIDGE GENERAL NOTES ---------- STD. DWG. BGN-1 (1 SHT.)
STANDARD DETAILS ---------- STD. DWG. I-131 (3 SHTS.)
** TRAFFIC PROTECTION ---------- STD. TP-1 (2 SHTS.)
REINFORCED CONCRETE BRIDGE END SLAB ---------- SPECIAL DWG. NO. BES-450-0
PRETENSIONED-PRESTRESSED CONCRETE PILES ---------- STD. DWG. NO. PSCP-1
LIGHT POLE SUPPORT ---------- STD. DWG. LPS-1

** TRAFFIC PROTECTORS WILL ONLY BE REQUIRED UNDER THE NEW CONSTR. AREAS (5'-0" MIN. OUTSIDE THE LIMITS OF NEW CONSTR.)

NOTE:
ALL INTERIOR JOINTS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH BRIDGE SHEET 3A OF 3A. QUANTITIES FOR THIS WORK ARE INCLUDED IN ESTIMATED QUANTITIES SHOWN ON GENERAL ELEVATION SHEET OF OUTSIDE WIDENING.

◈ NOTE:
ILLINOIS CENTRAL GULF RAILROAD CO. IS THE OWNER OF THE TRACK THAT IS REFERRED TO IN THESE PLANS AS THE G. M. & O. RAILROAD.



VERTICAL CURVE DATA (I-10)

BRIDGE GENERAL NOTES

SEE STANDARD DRAWING NO. BGN-1 (1 SHT.)

ROADWAY : 63'-2⅝" (WESTBOUND) AND 63'-2⅝" (EASTBOUND) PROPOSED INTERIOR GUTTER TO EXISTING EXTERIOR GUTTER WITH BARRIER RAIL.

1.
2. HS20-44 AND ALTERNATE LOADING PPM20-4, DATED 8-10-56.
5. ABUTS. - 30 TONS, BENTS 56 TONS.
6.
7.
13.
15.
16.
18.
21.
23.
24.
25.
27.

SPECIAL NOTES

1. TEMPORARY BARRIER RAILS SHALL BE ERECTED CONCURRENT W/ REMOVAL OF EXIST. DECK, CURB, & HANDRAIL.
2. THE TOP OF EXIST. DECK SLAB SHALL BE SAWED A MIN. OF ½", MAX. OF ONE (1) INCH DEEP ALONG BREAKLINE PRIOR TO REMOVING THE SUPERSTRUCTURE CONCRETE.
3. ALL PLAN ELEVATIONS & DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR & ANY NECESSARY ADJUSTMENTS MADE PRIOR TO ORDERING ANY MATERIAL.

I CERTIFY THAT CHECKS OF (1) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION

BARGE, WAGGONER, SUMNER, & CANNON

Jack F. Wood 6-16-87
TITLE - SENIOR VICE-PRESIDENT — DATE

ALABAMA REGISTERED PROFESSIONAL NO. 12008 ENGINEER JACK F. WOOD

Alabama Reg. Engineer No. 12008

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 1 OF 22
REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charles H. Cook
BRIDGE ENGINEER

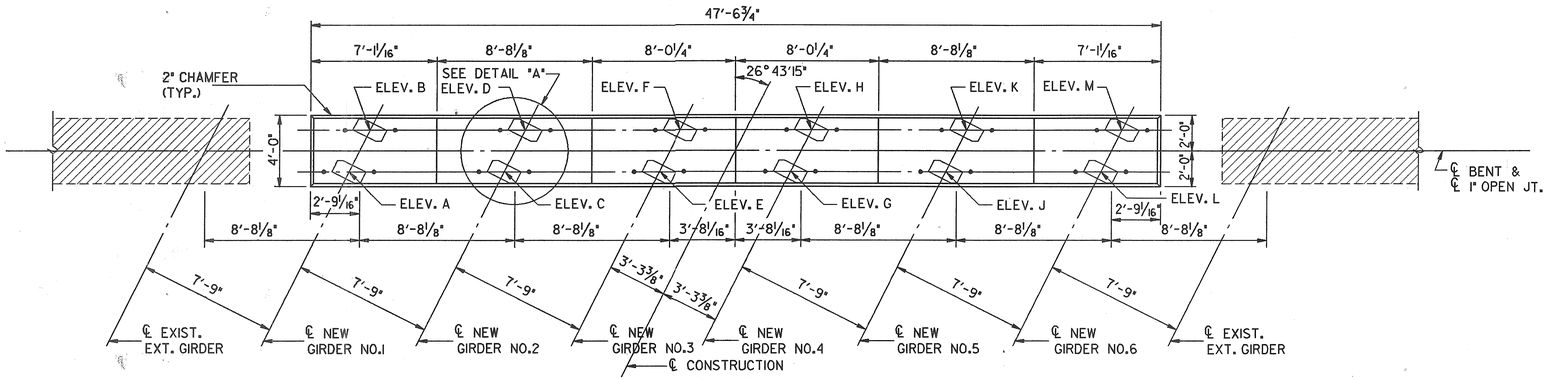
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
INSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

GENERAL ELEVATION

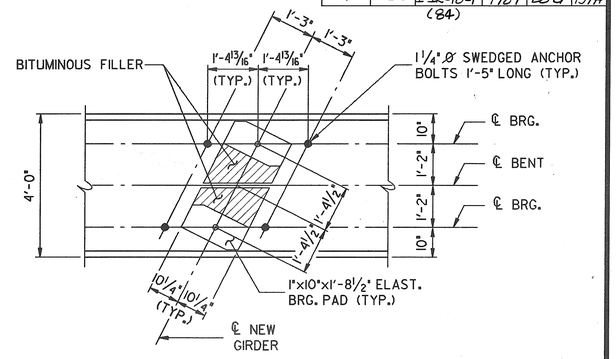
SCALE:	DESIGNED: WFD	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WFD	6/19/87
	REINF CHKD:	CHKD: TWW	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28 G	159 H



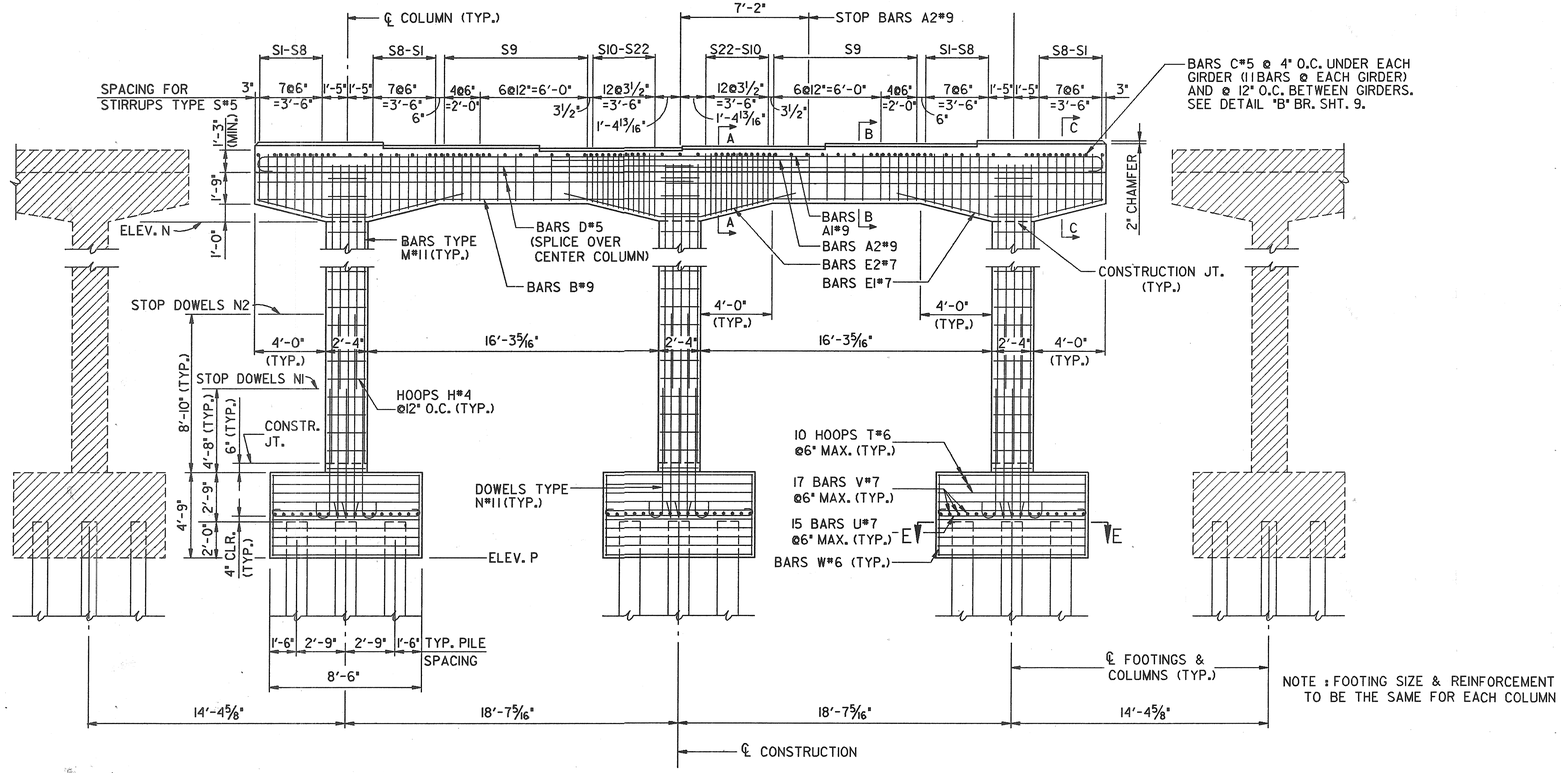
PLAN

SCALE : 1/4" = 1'-0"



DETAIL "A"

SCALE : 1/2" = 1'-0"

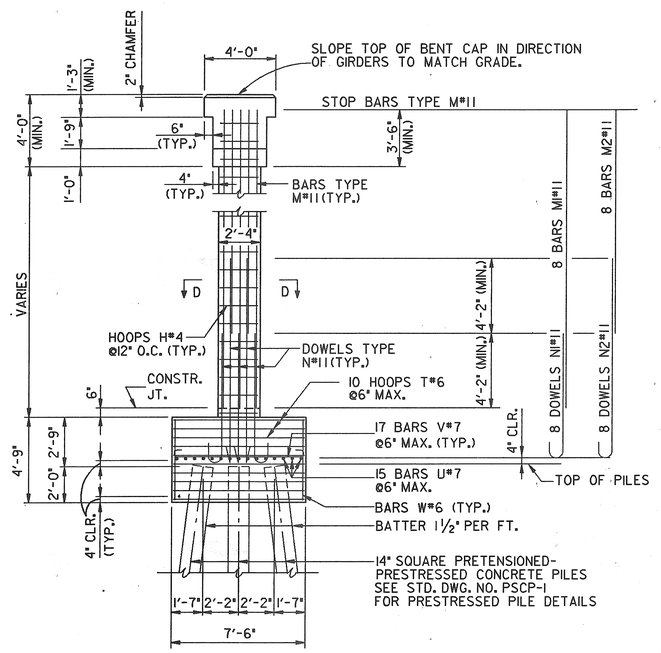


ELEVATION

(LOOKING UPSTATION)

SCALE : 1/4" = 1'-0"

NOTE : FOOTING SIZE & REINFORCEMENT TO BE THE SAME FOR EACH COLUMN



END ELEVATION

SCALE : 1/4" = 1'-0"

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
BENT NO. 2	36.2390	36.2681	36.1609	36.1888	36.0812	36.1080	36.1150	36.1409	36.2745	36.2993	36.4324	36.4561	32.1021	2.75
BENT NO. 3	36.7140	36.7266	36.6114	36.6229	36.5072	36.5176	36.5203	36.5298	36.6553	36.6637	36.7887	36.7961	32.5280	2.75
BENT NO. 4	36.8213	36.8176	36.6943	36.6895	36.5657	36.5597	36.5580	36.5512	36.6686	36.6607	36.7776	36.7686	32.5720	2.75

TABLE OF ESTIMATED QUANTITIES

ITEM	UNITS	BENT NO. 2	BENT NO. 3	BENT NO. 4
SUBSTRUCTURE CONCRETE	CU. YD.	69.5	69.7	69.6
STEEL REINFORCEMENT	LBS.	17,787	17,911	17,927

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 8 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR

William H. McAteer

CHIEF BRIDGE DESIGN ENGINEER

Charlie H. Cook

BRIDGE ENGINEER

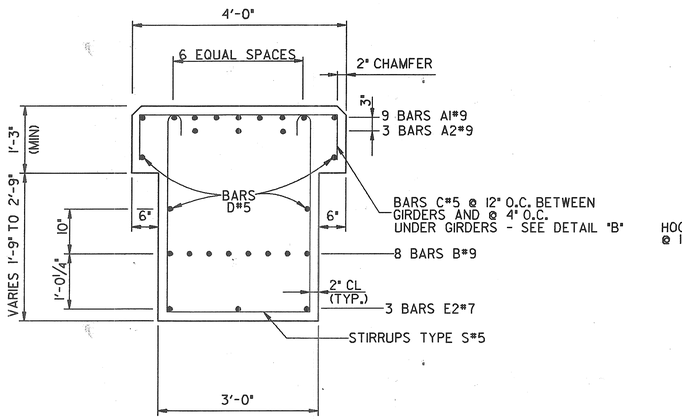
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
INSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLIONIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

BENTS NO.2, NO.3, & NO.4

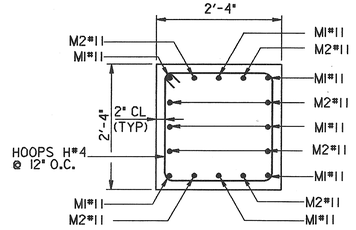
SCALE:	DESIGNED: WJFO	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WJFO	6/19/87
	REINF CHKD:	CHKD: TWW	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28H	157H



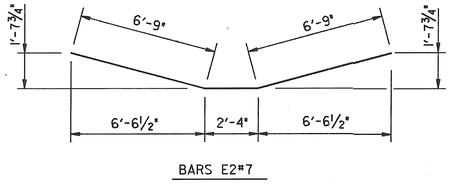
SECTION "A-A"

SCALE : 3/4" = 1'-0"

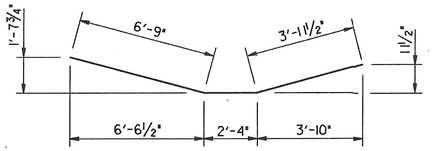


SECTION "D-D"

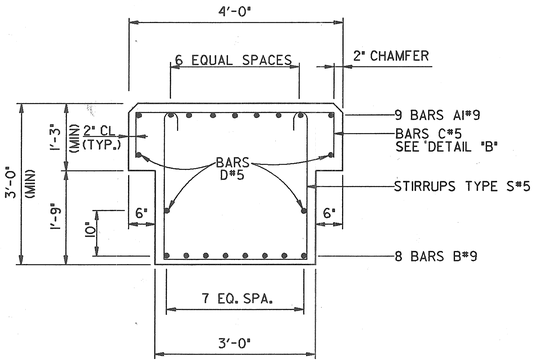
SCALE : 3/4" = 1'-0"



BARS E2*7

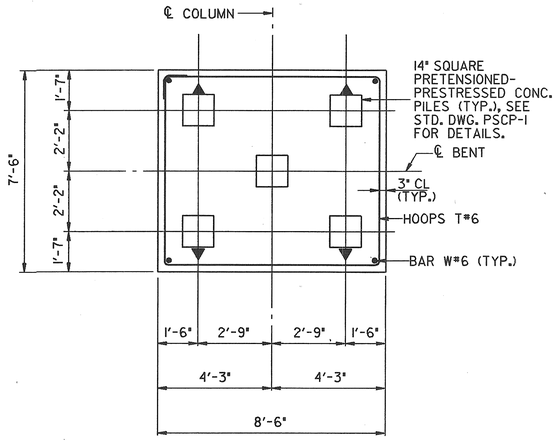


BARS E1*7



SECTION "B-B"

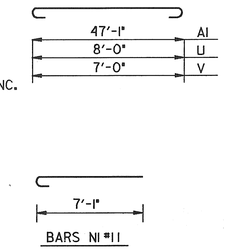
SCALE : 3/4" = 1'-0"

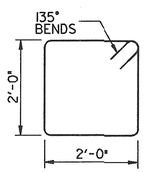


SECTION "E-E" @ TOP OF PILES

SCALE : 3/8" = 1'-0"

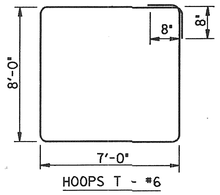
▲ DENOTES : PILES TO BE BATTERED & DIRECTION



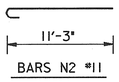


HOOPS H - #4

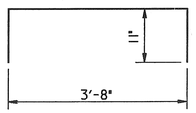
BARS N1 #11

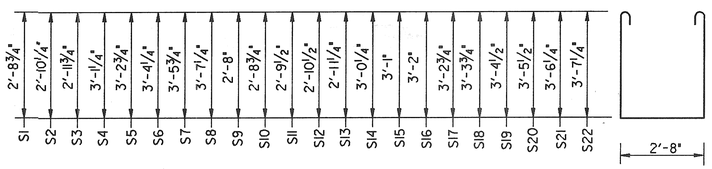


HOOPS T - #6

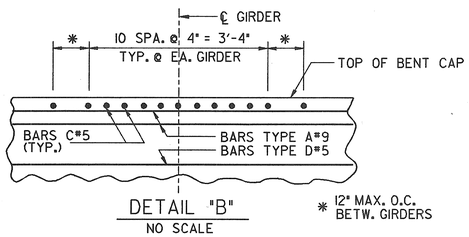


BARS N2 #11





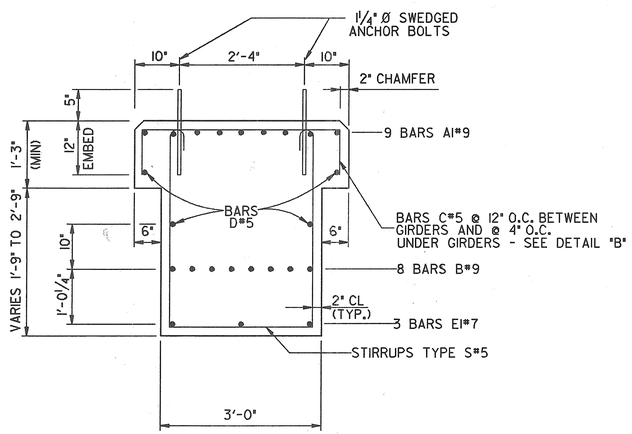
STIRRUPS S*5



DETAIL "B"

NO SCALE

* 12" MAX. O.C. BETW. GIRDERS



SECTION "C-C"

SCALE : 3/4" = 1'-0"

BILL OF STEEL REINFORCEMENT

BAR	SIZE	BENT NO. 2 NO. REQ'D	BENT NO. 2 LENGTH	BENT NO. 3 NO. REQ'D	BENT NO. 3 LENGTH	BENT NO. 4 NO. REQ'D	BENT NO. 4 LENGTH
A1	9	9	49'-7"	9	49'-7"	9	49'-7"
A2	9	3	14'-4"	3	14'-4"	3	14'-4"
B	9	8	47'-1"	8	47'-1"	8	47'-1"
C	5	91	5'-6"	91	5'-6"	91	5'-6"
D	5	8	24'-6"	8	24'-6"	8	24'-6"
E1	7	6	13'-0 1/2"	6	13'-0 1/2"	6	13'-0 1/2"
E2	7	3	15'-10"	3	15'-10"	3	15'-10"
H	4	84	9'-0"	87	9'-0"	87	9'-0"
M1	II	24	27'-7"	24	28'-0"	24	28'-0 3/4"
M2	II	24	23'-5"	24	23'-10"	24	23'-10 3/4"
N1	II	24	8'-8"	24	8'-8"	24	8'-8"
N2	II	24	12'-10"	24	12'-10"	24	12'-10"
S1	5	4	9'-3 1/2"	4	9'-3 1/2"	4	9'-3 1/2"
S2	5	4	9'-6 1/2"	4	9'-6 1/2"	4	9'-6 1/2"
S3	5	4	9'-9 1/2"	4	9'-9 1/2"	4	9'-9 1/2"
S4	5	4	10'-0 1/2"	4	10'-0 1/2"	4	10'-0 1/2"
S5	5	4	10'-3 1/2"	4	10'-3 1/2"	4	10'-3 1/2"
S6	5	4	10'-6 1/2"	4	10'-6 1/2"	4	10'-6 1/2"
S7	5	4	10'-9 1/2"	4	10'-9 1/2"	4	10'-9 1/2"
S8	5	4	11'-0 1/2"	4	11'-0 1/2"	4	11'-0 1/2"
S9	5	22	9'-2"	22	9'-2"	22	9'-2"
S10	5	2	9'-3 1/2"	2	9'-3 1/2"	2	9'-3 1/2"
S11	5	2	9'-5"	2	9'-5"	2	9'-5"
S12	5	2	9'-7"	2	9'-7"	2	9'-7"
S13	5	2	9'-8 1/2"	2	9'-8 1/2"	2	9'-8 1/2"
S14	5	2	9'-10 1/2"	2	9'-10 1/2"	2	9'-10 1/2"
S15	5	2	10'-0"	2	10'-0"	2	10'-0"
S16	5	2	10'-2"	2	10'-2"	2	10'-2"
S17	5	2	10'-3 1/2"	2	10'-3 1/2"	2	10'-3 1/2"
S18	5	2	10'-5 1/2"	2	10'-5 1/2"	2	10'-5 1/2"
S19	5	2	10'-7"	2	10'-7"	2	10'-7"
S20	5	2	10'-9"	2	10'-9"	2	10'-9"
S21	5	2	10'-10 1/2"	2	10'-10 1/2"	2	10'-10 1/2"
S22	5	2	11'-0 1/2"	2	11'-0 1/2"	2	11'-0 1/2"
T	6	30	31'-4"	30	31'-4"	30	31'-4"
U	7	45	9'-8"	45	9'-8"	45	9'-8"
V	7	51	8'-8"	51	8'-8"	51	8'-8"
W	6	12	4'-3"	12	4'-3"	12	4'-3"

NOTE: ALL BAR BENDING DIMENSIONS ARE OUT TO OUT UNLESS OTHERWISE NOTED.

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 9 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR: William J. McAteer

CHIEF BRIDGE DESIGN ENGINEER

Charles H. Cook

BRIDGE ENGINEER

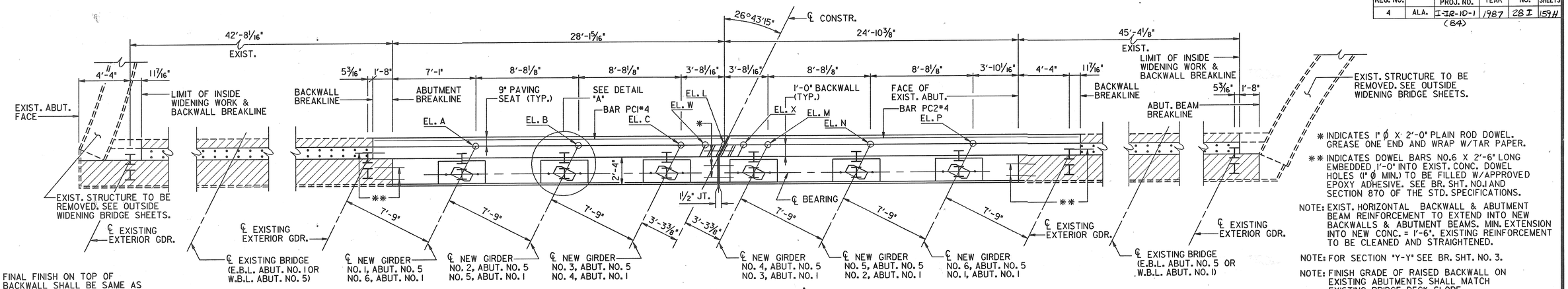
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
INSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

BENT DETAILS

SCALE:	DESIGNED: WJP	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP:	6/19/87
	REINF CHKD: TNW	CHKD:	
	CHECKED: TNW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28 I	159 H



* INDICATES 1" ϕ X 2'-0" PLAIN ROD DOWEL. GREASE ONE END AND WRAP W/TAR PAPER.

** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED 1'-0" INTO EXIST. CONC. DOWEL HOLES (1" ϕ MIN.) TO BE FILLED W/APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO.1 AND SECTION 870 OF THE STD. SPECIFICATIONS.

NOTE: EXIST. HORIZONTAL BACKWALL & ABUTMENT BEAM REINFORCEMENT TO EXTEND INTO NEW BACKWALLS & ABUTMENT BEAMS. MIN. EXTENSION INTO NEW CONC. = 1'-6". EXISTING REINFORCEMENT TO BE CLEANED AND STRAIGHTENED.

NOTE: FOR SECTION "Y-Y" SEE BR. SHT. NO. 3.

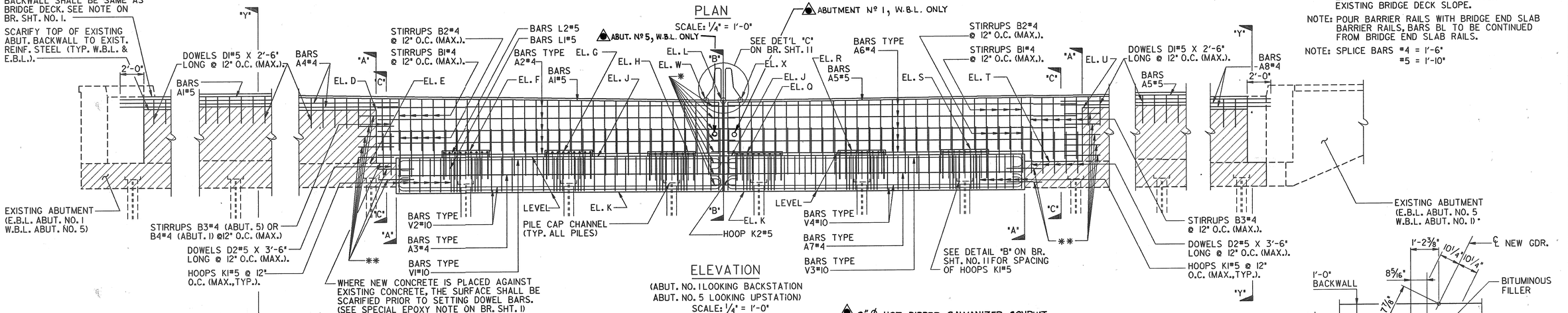
NOTE: FINISH GRADE OF RAISED BACKWALL ON EXISTING ABUTMENTS SHALL MATCH EXISTING BRIDGE DECK SLOPE.

NOTE: POUR BARRIER RAILS WITH BRIDGE END SLAB BARRIER RAILS, BARS BL TO BE CONTINUED FROM BRIDGE END SLAB RAILS.

NOTE: SPLICE BARS #4 = 1'-6"
#5 = 1'-10"

PLAN

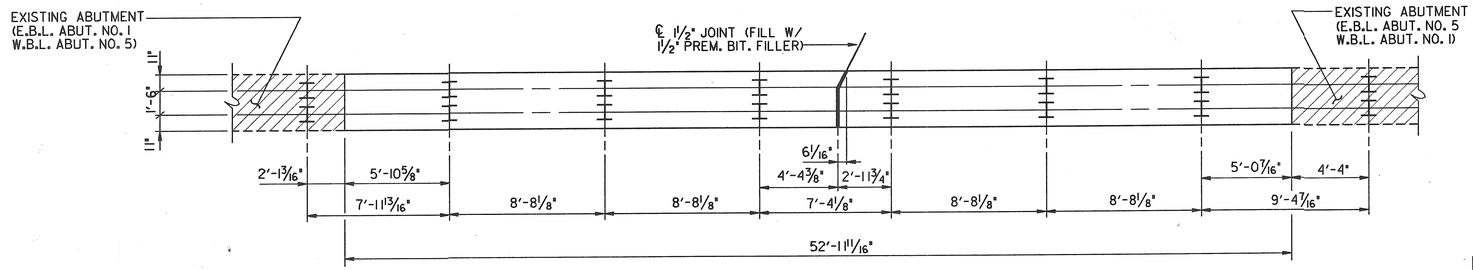
SCALE: 1/4" = 1'-0"



ELEVATION

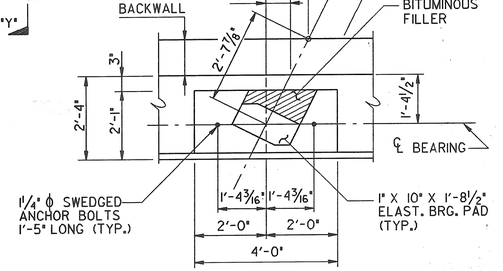
(ABUT. NO. 1 LOOKING BACKSTATION
ABUT. NO. 5 LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"

▲ 2" ϕ HOT DIPPED GALVANIZED CONDUIT (W.B.L. ONLY), SEE STD. DWG. LPS-1



PILE LOCATION PLAN

SCALE: 1/4" = 1'-0"



DETAIL "A"

SCALE: 1/2" = 1'-0"

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	W	X
ABUT. NO. 1	40.3021	40.1200	39.9363	39.304±	34.71	35.7593	35.5784	35.3958	35.0924	32.0924	39.8580	39.8820	39.9375	39.9915	35.3424	35.3990	35.4541	34.35	38.511±	39.8923	39.8686
ABUT. NO. 5	41.1287	40.9764	40.8224	40.121±	35.60	36.5657	36.4145	36.2616	35.9835	32.9835	40.7567	40.7933	40.8786	40.9622	36.2335	36.3199	36.4047	35.42	39.682±	40.7855	40.7728

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 10 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR
William D. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charles H. Cook
BRIDGE ENGINEER

STATE OF ALABAMA
HIGHWAY DEPARTMENT

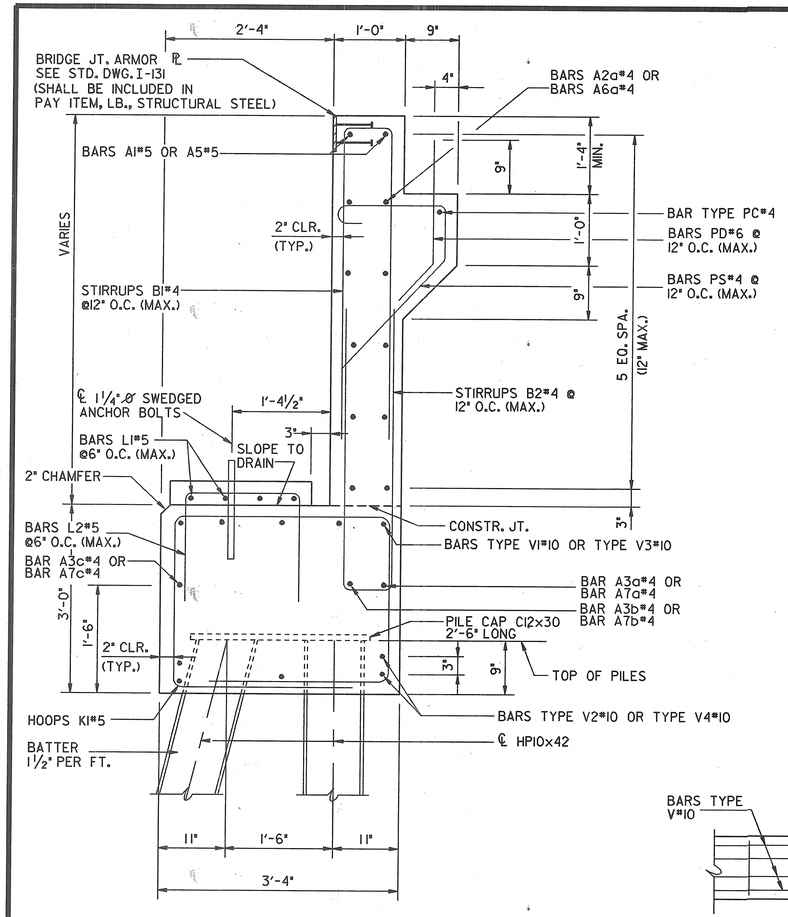
PROJECT NO. I-IR-10-1(84)
INSIDE WIDENING OF I-10 BRIDGES
OVER TENNESSEE STREET AND
ILLINOIS CENTRAL GULF RAILROAD
AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

ABUTMENTS NO. 1 & NO. 5

SCALE:	DESIGNED: WFD	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP:	6/19/87
	REINF CHKD:	CHKD:	
	CHECKED: TWW		

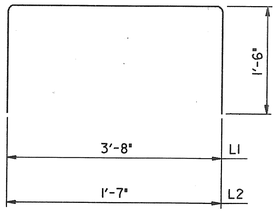
FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1	1987	28 J	159H

(84)

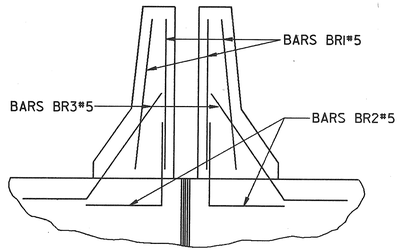


TYPICAL ABUTMENT SECTION

SCALE: 1" = 1'-0"



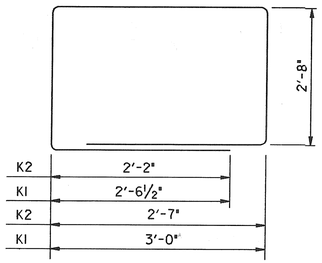
BARS L



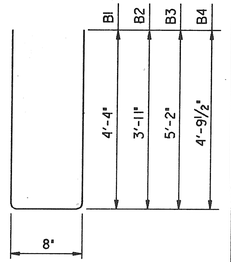
DETAIL "C"

NO SCALE

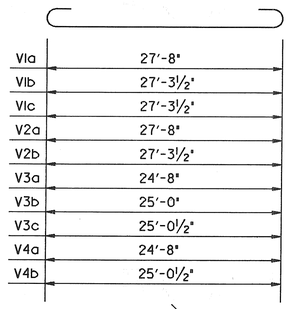
NOTE: BARS BR2 & BARS BR3 EMBED. 7"
ALSO FOR ADDITIONAL INFORMATION, SEE
BR. SHT. 3 & STD. DWG. I-131

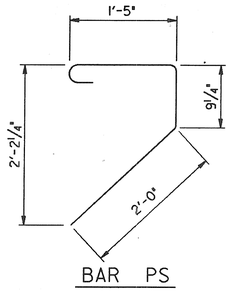


HOOPS K

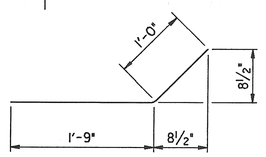


STIRRUPS B

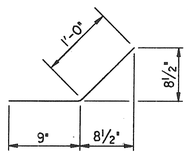




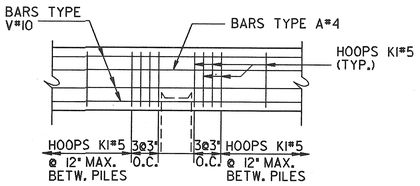
BAR PS



BAR PD1



BAR PD2



DETAIL "B"

NO SCALE

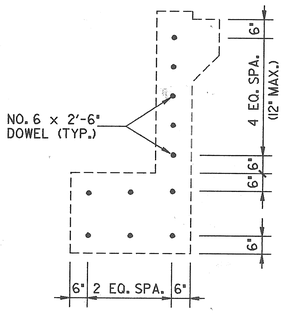
BILL OF STEEL REINFORCEMENT					
		ABUT. NO. 1		ABUT. NO. 5	
BAR	SIZE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
A1	5	4	37'-3"	4	37'-3"
A2a	4	5	29'-4"	5	29'-4"
A2b	4	5	29'-0½"	5	29'-0½"
A3a	4	1	27'-8"	1	27'-8"
A3b	4	1	27'-4½"	1	27'-4½"
A3c	4	1	27'-3½"	1	27'-3½"
A4	4	4	44'-11½"	4	44'-11½"
A5	5	4	36'-9"	4	36'-9"
A6a	4	5	29'-11"	5	29'-11"
A6b	4	5	30'-2½"	5	30'-2½"
A7a	4	1	24'-8"	1	24'-8"
A7b	4	1	24'-11"	1	24'-11"
A7c	4	1	25'-0½"	1	25'-0½"
A8	4	4	44'-0"	4	44'-0"
BR1	5	8	2'-3"	8	2'-3"
BR2	5	4	2'-9½"	4	2'-9½"
BR3	5	4	3'-6"	4	3'-6"
V1a	10	1	30'-6"	1	30'-6"
V1b	10	1	30'-1½"	1	30'-1½"
V1c	10	3	30'-1½"	3	30'-1½"
V2a	10	2	30'-6"	2	30'-6"
V2b	10	3	30'-1½"	3	30'-1½"
V3a	10	1	27'-6"	1	27'-6"
V3b	10	1	27'-10"	1	27'-10"
V3c	10	3	27'-10½"	3	27'-10½"
V4a	10	2	27'-6"	2	27'-6"
V4b	10	3	27'-10½"	3	27'-10½"
PC1	4	1	29'-8½"	1	29'-8½"
PC2	4	1	29'-7"	1	29'-7"
K1	5	87	13'-5"	87	13'-5"
K2	5	1	12'-3"	1	12'-3"
B1	4	55	9'-4"	55	9'-4"
B2	4	55	8'-6"	55	8'-6"
B3	4	5	11'-0"	7	11'-0"
B4	4	2	10'-3"	—	—
PS	4	62	4'-8¼"	62	4'-8¼"
PD1	6	62	2'-9"	62	2'-9"
PD2	6	86	1'-9"	86	1'-9"
L1	5	24	6'-8"	24	6'-8"
L2	5	54	4'-7"	54	4'-7"
DOWEL D1	5	172	2'-6"	172	2'-6"
DOWEL D2	5	14	3'-6"	14	3'-6"
DOWEL	6	22	2'-6"	22	2'-6"
DOWEL	1"Ø	14	2'-0"	14	2'-0"

NOTE : ALL BAR BENDING DIMENSIONS ARE
OUT TO OUT UNLESS OTHERWISE NOTED.

TABLE OF ESTIMATED QUANTITIES ⚠

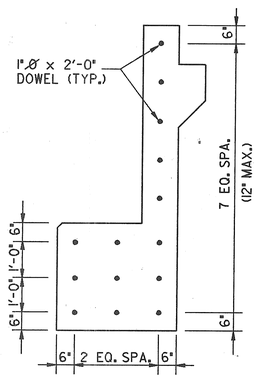
ITEM	UNITS	ABUT. NO. 1	ABUT. NO. 5
SUBTRUCTURE CONCRETE	CU.YD.	36.9	36.7
STEEL REINFORCEMENT	LBS.	7322	7323
STRUCTURAL STEEL	LBS.	1710	1710

⚠ COMBINED TOTAL FOR E.B.L. & W.B.L. INSIDE WIDENING.



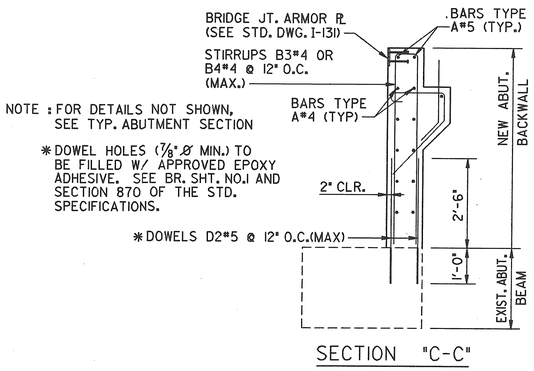
SECTION "A-A"

NO SCALE



SECTION "B-B"

NO SCALE



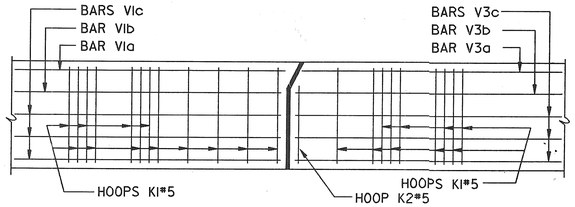
NOTE : FOR DETAILS NOT SHOWN,
SEE TYP. ABUTMENT SECTION

* DOWEL HOLES (⅞"Ø MIN.) TO BE FILLED W/ APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO. 1 AND SECTION 870 OF THE STD. SPECIFICATIONS.

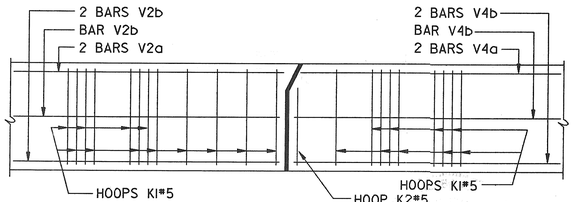
* DOWELS D2*5 @ 12" O.C. (MAX)

SECTION "C-C"

NO SCALE



TOP ROW



BOTTOM ROW

PARTIAL PLAN
ABUTMENT BEAM REINFORCEMENT

NO SCALE

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 11 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McSteen
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

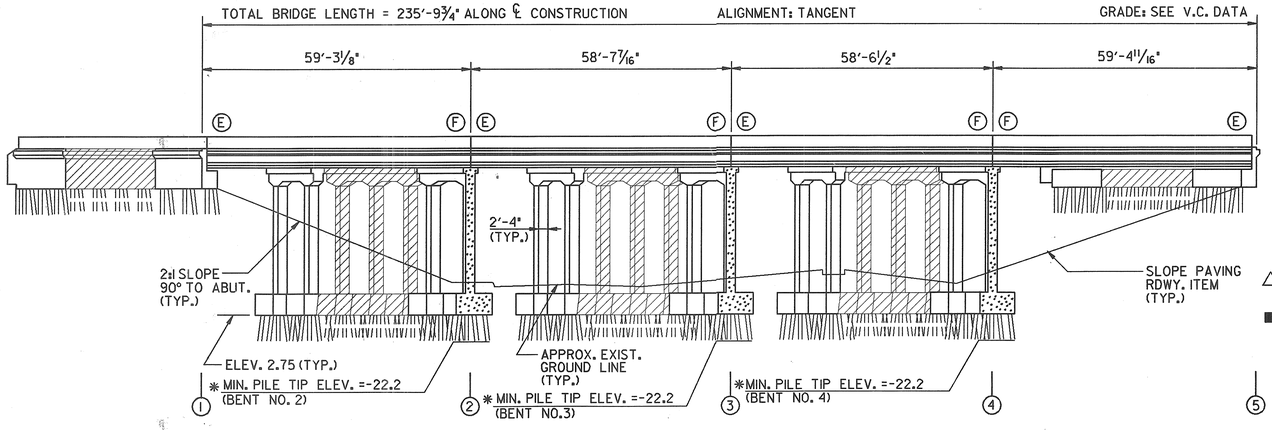
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
INSIDE WIDENING OF I-10 BRIDGES
OVER TENNESSEE STREET AND
ILLINOIS CENTRAL GULF RAILROAD
AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

ABUTMENT DETAILS

SCALE:	DESIGNED: WJFO	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WJFO	6/19/87
	REINF CHK'D: TWW	CHK'D: TWW	
	CHECKED: TWW		

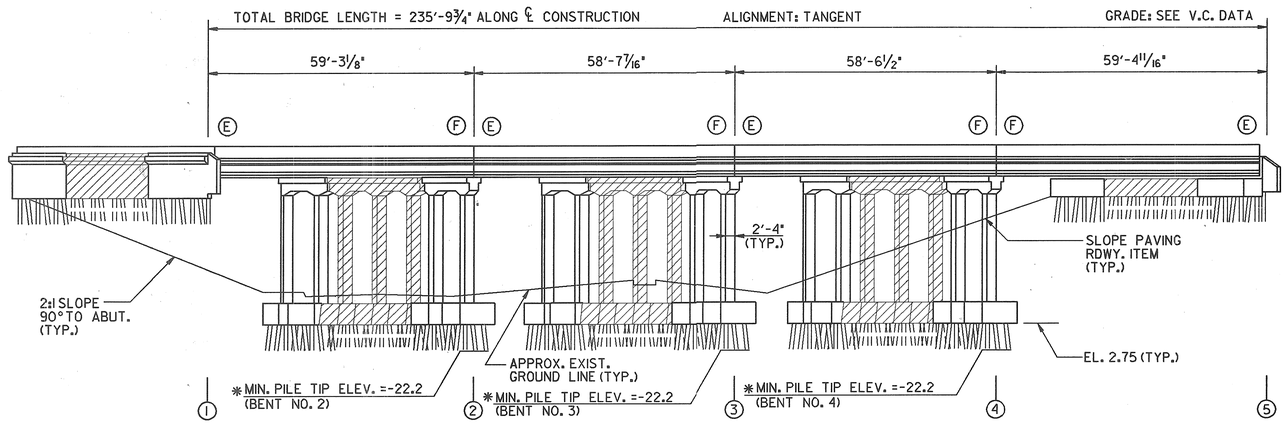
FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28K	159H



* "-" INDICATES BELOW ZERO ELEVATION

ELEVATION W.B.L.

(LOOKING NORTH)
SCALE: 1/16" = 1'-0"



ELEVATION E.B.L.

(LOOKING NORTH)
SCALE: 1/16" = 1'-0"

NOTE : EXISTING BRIDGE TO BE RETAINED IS INDICATED BY CROSS-HATCHED AREAS (TYP. BR. SHTS. 12-22).

NOTE : THE FINAL BRIDGE DECK FINISH BEHIND THE SCREED SHALL BE OBTAINED BY EITHER WOOD FLOATING OR BURLAP DRAG TO MATCH THE EXIST. DECK FINISH.

NOTE : (E) DENOTES EXPANSION
(F) DENOTES FIXED

NOTE : SEE BR. SHT. 13 FOR EXISTING AND PROPOSED MINIMUM VERTICAL CLEARANCE.

△ NOTE : TEST PILES SHALL NOT BE LOAD TESTED UNTIL SEVEN (7) DAYS, MINIMUM, AFTER DRIVING.

■ NOTE : USE 3" CLEAR FROM FACE OF PILE TO SPIRAL REINF. STEEL. CONCRETE SHALL BE A FLY-ASH MIX USING TYPE II CEMENT OR TYPE I CEMENT PROVIDED THE TRICALCIUM ALUMINATE CONTENT IN THE TYPE I CEMENT IS LESS THAN 8%. THE AMOUNT OF THE FLY-ASH SHALL NOT BE LESS THAN 12 LBS. PER BAG OF CEMENT.

NOTE : SEE BRIDGE SHEET 1 FOR REINFORCED CEMENT CONCRETE BRIDGE END SLAB QUANTITY.

NOTE : THE EXISTING SHOE ASSEMBLIES FOR ALL ABUTMENTS AND ALL BENTS SHALL BE SAND BLASTED AND PAINTED IN ACCORDANCE WITH SUBARTICLE 521.03(c) OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCLUDED IN PAY ITEM "REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE."

ESTIMATED QUANTITIES - "IR" FUNDS

QUANTITY	UNIT	DESCRIPTION
1	LUMP SUM	REMOVAL OF OLD BRIDGE @ STA. 591+16.85 (PARTIAL ONLY W.B.L. & E.B.L. - OUTSIDE WIDENING)
450	CU. YD.	UNCLASSIFIED BRIDGE EXCAVATION
81,200	LB.	STEEL REINFORCEMENT
1	EACH	STEEL TEST PILES (HP10x42)
■ 1	EACH	PRETENSIONED - PRESTRESSED CONCRETE **TEST PILES** (14" SQUARE)
△ 1	EACH	LOADING TESTS (HP10x42)
△ 1	EACH	LOADING TESTS (14" SQUARE)
1440	LIN. FT.	STEEL PILING (HP10x42)
■ 1627	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE PILING (14" SQUARE)
16,110	LB.	STRUCTURAL STEEL
336	CU. YD.	BRIDGE SUBSTRUCTURE CONCRETE, CLASS "A"
1	LUMP SUM	REINFORCED BRIDGE CONCRETE SUPERSTRUCTURE, STA. 591+16.85, APPROX. 319 CU. YD. (W.B.L. & E.B.L.)
1379	LIN. FT.	PRETENSIONED - PRESTRESSED CONCRETE GIRDERS, TYPE III **(SPECIALTY ITEM)**

SPECIAL NOTE REGARDING EPOXY ADHESIVES

PRIOR TO PLACING NEW CONC. AGAINST ANY BROKEN OR SCARIFIED SURFACE, A TYPE II EPOXY ADHESIVE SHALL BE APPLIED TO THE ROUGHENED CONC.

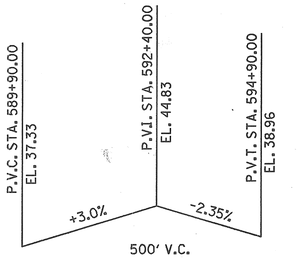
ALL DOWEL BARS PLACED IN EXIST. CONC. SHALL BE SET W/ A TYPE I, GRADE 1 EPOXY ADHESIVE.

SEE SECTION 870, EPOXY ADHESIVES, OF THE STD. SPECIFICATIONS.

REQUIRED

WIDENING 59'-3⅛", 58'-7⅞", 58'-6½", 59'-4¹¹⁄₁₆"
PRETENSIONED - PRESTRESSED AASHTO GIRDERS, TYPE III SIMPLE SPAN ____ BR. SHT. NO. 12 THRU 18
WIDENING CONCRETE EXT. BENTS (PILE FTGS.) ____ BR. SHT. NO. 19 AND 20
WIDENING CONCRETE AND STEEL PILE ABUTMENTS ____ BR. SHT. NO. 21 AND 22
EXIST. ORIGINAL BRIDGE PLANS ____ BR. SHT. NO. E14 THRU E19
TEST BORING RECORD ____ BR. SHT. NO. 1A OF 3A
BRIDGE GENERAL NOTES ____ STD. DWG. BGN-1 (1 SHT.)
STANDARD DETAILS ____ STD. DWG. I-131 (3 SHTS.)
** TRAFFIC PROTECTION ____ STD. TP-1 (2 SHTS.)
REINFORCED CONCRETE BRIDGE END SLAB ____ STD. DWG. BES-450-0
PRETENSIONED-PRESTRESSED CONCRETE PILES ____ STD. DWG NO. PSCP-1
INTERIOR JOINT REPAIR ____ BR. SHT. NO. 3A OF 3A

** TRAFFIC PROTECTORS WILL ONLY BE REQUIRED UNDER THE NEW CONSTR. AREAS (5'-0" MIN. OUTSIDE THE LIMITS OF NEW CONSTR.)



VERTICAL CURVE DATA (I-10)

BRIDGE GENERAL NOTES

SEE STANDARD DRAWING NO. BGN-1 (1 SHT.)

ROADWAY : 83'-2⅝" (WESTBOUND) AND 83'-2⅝" (EASTBOUND) GUTTER TO GUTTER WITH BARRIER RAILS.

1.
2. HS20-44 AND ALTERNATE LOADING PPM20-4, DATED 8-10-56.
5. ABUTS. - 30 TONS, BENTS 56 TONS.
6.
7.
13.
15.
16.
18.
21.
23.
24.
25.
27.

SPECIAL NOTES

1. TEMPORARY BARRIER RAILS SHALL BE ERECTED CONCURRENT W/ REMOVAL OF EXIST. DECK, CURB, & HANDRAIL.
2. THE TOP OF EXIST. DECK SLAB SHALL BE SAWED A MIN. OF ½", MAX. OF ONE (1) INCH DEEP ALONG BREAKLINE PRIOR TO REMOVING THE SUPERSTRUCTURE CONCRETE.
3. ALL PLAN ELEVATIONS & DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR & ANY NECESSARY ADJUSTMENTS MADE PRIOR TO ORDERING ANY MATERIAL.

I CERTIFY THAT CHECKS OF (1) DESIGN CALCULATIONS AND (2) DETAILS AND DRAFTING OF PLANS HAVE BEEN MADE BY COMPETENT ENGINEERS OF THIS ORGANIZATION

BARGE, WAGGONER, SUMNER, & CANNON

Jack L. Wood 6-16-87
TITLE - SENIOR VICE-PRESIDENT — DATE

ALABAMA REGISTERED PROFESSIONAL NO. 12008 ENGINEER JACK L. WOOD

Alabama Reg. Engineer No. 12008

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 12 OF 22

REVISIONS

APPROVED:

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
OUTSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

GENERAL ELEVATION

SECTION SUPERVISOR	SCALE:	DESIGNED: WJFO	QUANTITIES	DATE
William J. McAteer, CHIEF BRIDGE DESIGN ENGINEER	AS SHOWN	DRAWN: BWSC CAD/D	COMP: WJFO	6/19/87
Charlie H. Cook, BRIDGE ENGINEER		REINF CHKD: CHECKED: TWW	CHKD: TWW	

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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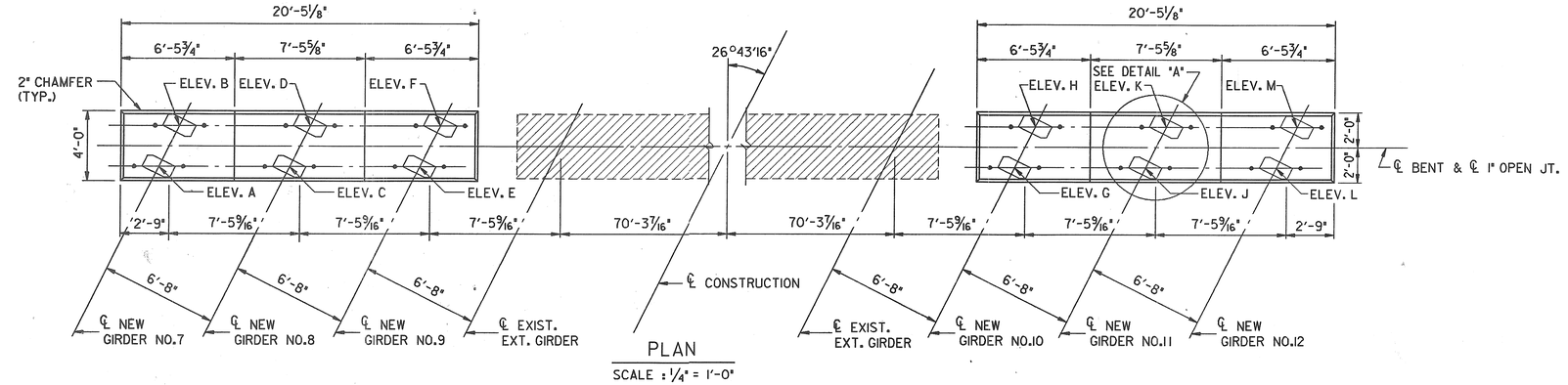
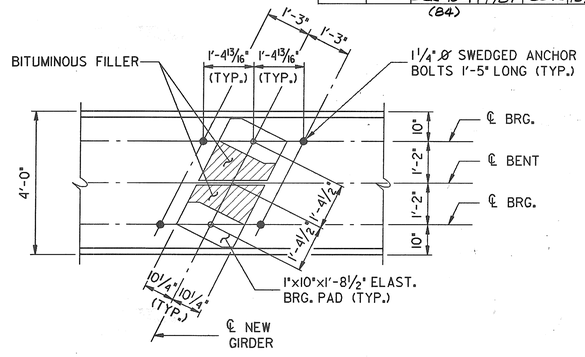


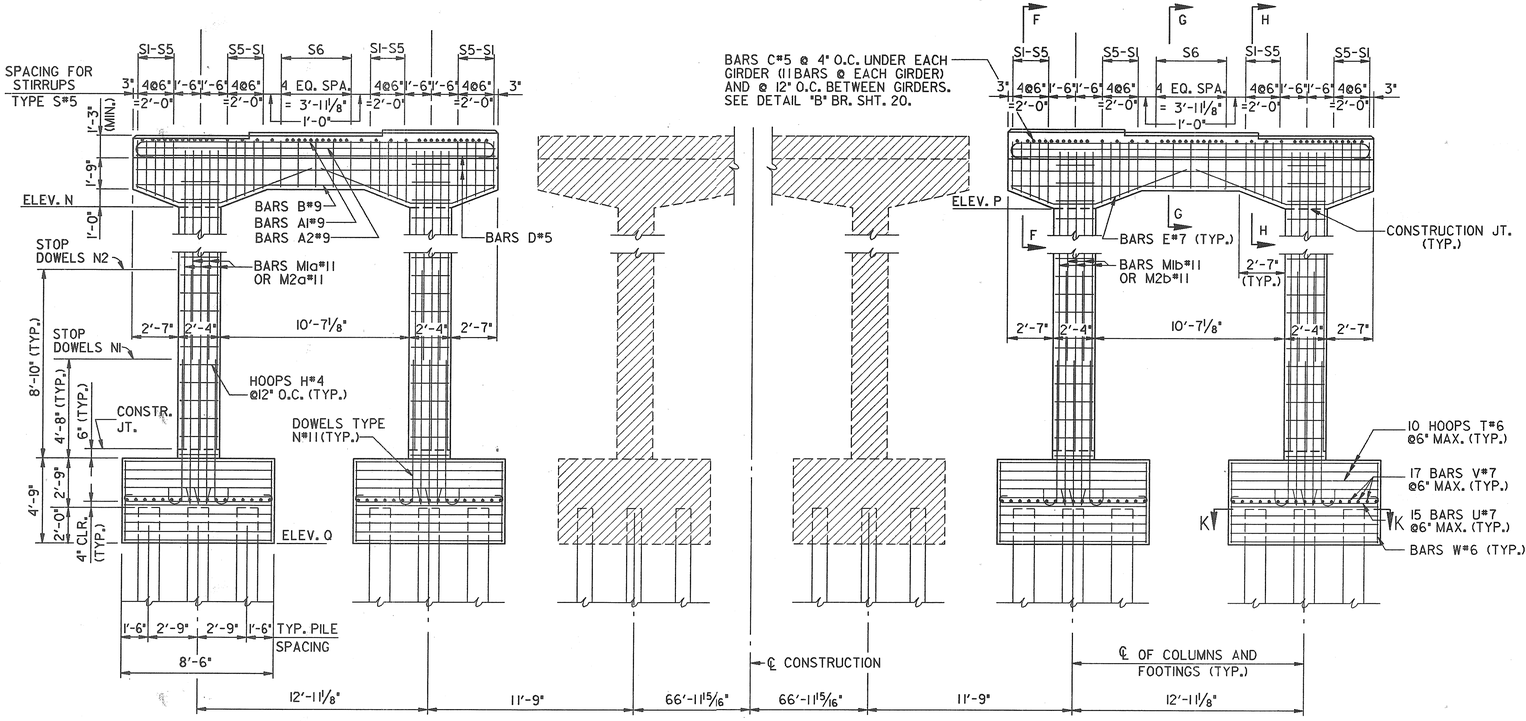
PLAN

SCALE : 1/4" = 1'-0"



DETAIL "A"

SCALE : 1/2" = 1'-0"

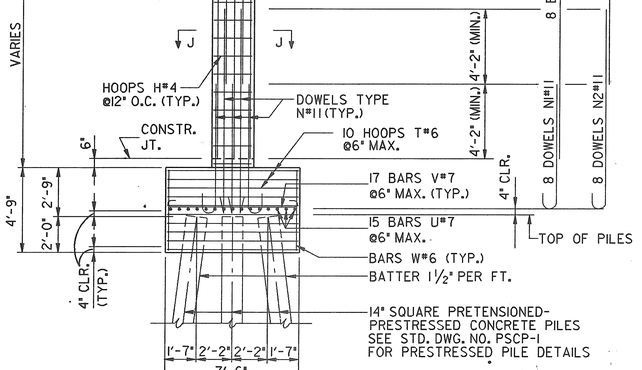


ELEVATION

(LOOKING UPSTATION)

SCALE : 1/4" = 1'-0"

NOTE : FOOTING SIZE & REINFORCEMENT TO BE THE SAME FOR EACH COLUMN



END ELEVATION

SCALE : 1/4" = 1'-0"

TABLE OF ESTIMATED QUANTITIES ⚠

ITEM	UNITS	BENT NO. 2	BENT NO. 3	BENT NO. 4
SUBSTRUCTURE CONCRETE	CU. YD.	83.4	83.7	83.7
STEEL REINFORCEMENT	LBS.	21,667	21,821	21,580

⚠ COMBINED TOTAL FOR E.B. & W.B. OUTSIDE WIDENING.

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O
BENT NO. 2	35.6509	35.6889	35.8038	35.8408	35.9554	35.9915	36.6704	36.6870	36.5874	36.6030	36.5031	36.5178	31.6509	32.5031	2.75
BENT NO. 3	36.3279	36.3495	36.4597	36.4804	36.5903	36.6101	36.8667	36.8669	36.7627	36.7619	36.6574	36.6557	32.3279	32.6557	2.75
BENT NO. 4	36.6370	36.6422	36.7478	36.7521	36.8574	36.8608	36.6958	36.6796	36.5707	36.5536	36.4444	36.4264	32.6370	32.4264	2.75

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 19 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR
William D. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

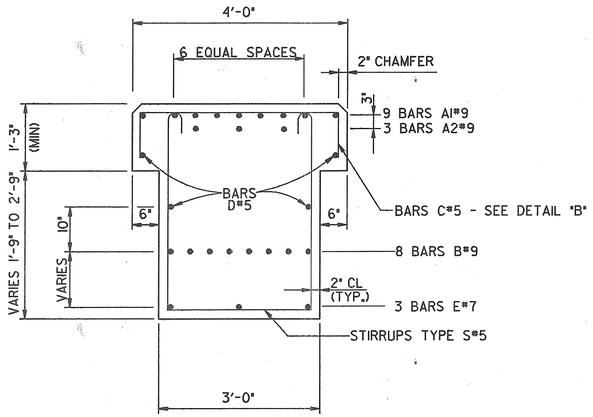
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
OUTSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

BENTS NO.2, NO.3, & NO.4

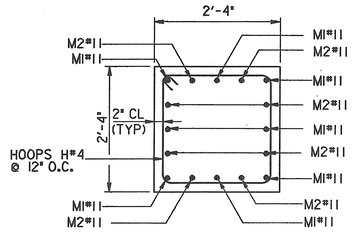
SCALE:	DESIGNED: WFO	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WFO	6/19/87
	REINF CHKD:	CHKD: TWW	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	285	159H



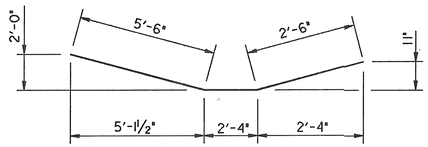
SECTION "F-F"

SCALE : 3/4" = 1'-0"

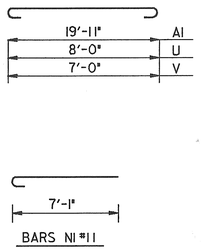


SECTION "J-J"

SCALE : 3/4" = 1'-0"



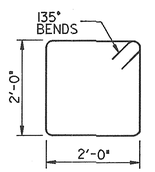
BARS E*7



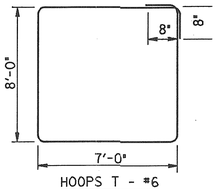
BARS N1 #11

BARS N2 #11

BARS C #5



HOOPS H - #4

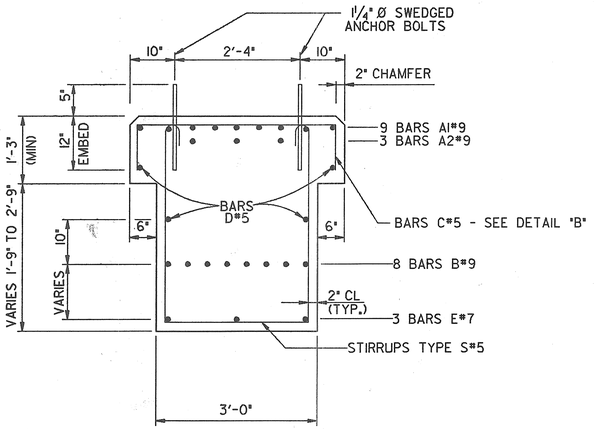


HOOPS T - #6

STIRRUPS S*5

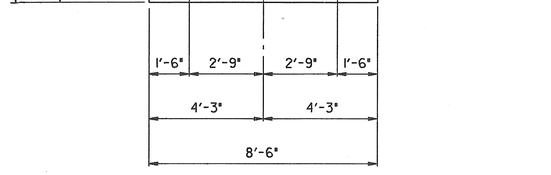
BILL OF STEEL REINFORCEMENT							
		BENT NO. 2		BENT NO. 3		BENT NO. 4	
BAR	SIZE	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH	NO. REQ'D	LENGTH
A1	9	18	22'-5"	18	22'-5"	18	22'-5"
A2	9	6	19'-11"	6	19'-11"	6	19'-11"
B	9	16	19'-11"	16	19'-11"	16	19'-11"
C	5	86	5'-6"	86	5'-6"	86	5'-6"
D	5	8	19'-11"	8	19'-11"	8	19'-11"
E	7	12	10'-4"	12	10'-4"	12	10'-4"
H	4	112	9'-0"	114	9'-0"	114	9'-0"
M1a	11	16	27'-2"	16	27'-10"	16	28'-2"
M1b	11	16	28'-0"	16	28'-2"	16	27'-11"
M2a	11	16	23'-0"	16	23'-8"	16	24'-0"
M2b	11	16	23'-10"	16	24'-0"	16	23'-9"
N1	11	32	8'-8"	32	8'-8"	32	8'-8"
N2	11	32	12'-10"	32	12'-10"	32	12'-10"
S1	5	8	9'-4 1/2"	8	9'-4 1/2"	8	9'-4 1/2"
S2	5	8	9'-9"	8	9'-9"	8	9'-9"
S3	5	8	10'-1 1/2"	8	10'-1 1/2"	8	10'-1 1/2"
S4	5	8	10'-6"	8	10'-6"	8	10'-6"
S5	5	8	10'-11"	8	10'-11"	8	10'-11"
S6	5	10	9'-2"	10	9'-2"	10	9'-2"
T	6	40	31'-4"	40	31'-4"	40	31'-4"
U	7	60	9'-8"	60	9'-8"	60	9'-8"
V	7	68	8'-8"	68	8'-8"	68	8'-8"
W	6	16	4'-3"	16	4'-3"	16	4'-3"

NOTE: ALL BAR BENDING DIMENSIONS ARE OUT TO OUT UNLESS OTHERWISE NOTED.



SECTION "H-H"

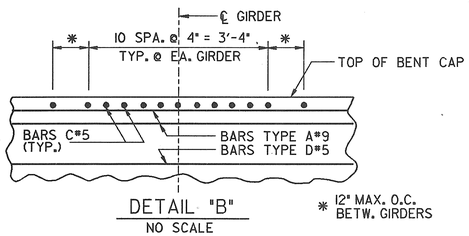
SCALE : 3/4" = 1'-0"



SECTION "K-K" @ TOP OF PILES

SCALE : 3/8" = 1'-0"

▲ DENOTES PILES TO BE BATTERED & DIRECTION



DETAIL "B"

NO SCALE

* 12" MAX. O.C. BETW. GIRDERS

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 20 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR: William J. McAteer

CHIEF BRIDGE DESIGN ENGINEER

Charlie H. Cook

BRIDGE ENGINEER

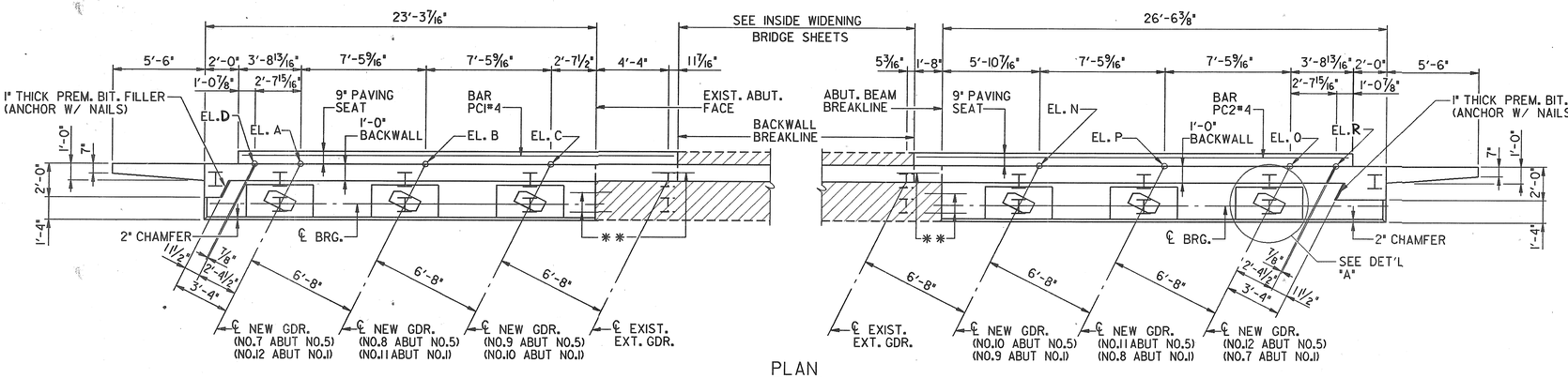
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
OUTSIDE WIDENING OF I-10 BRIDGES
OVER TENNESSEE STREET AND
ILLINOIS CENTRAL GULF RAILROAD
AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

BENT DETAILS

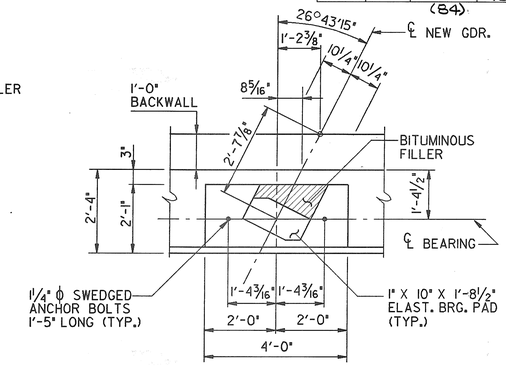
SCALE:	DESIGNED: WJFO	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP:	6/19/87
	REINF CHKD: TWW	CHKD:	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28 T	157H



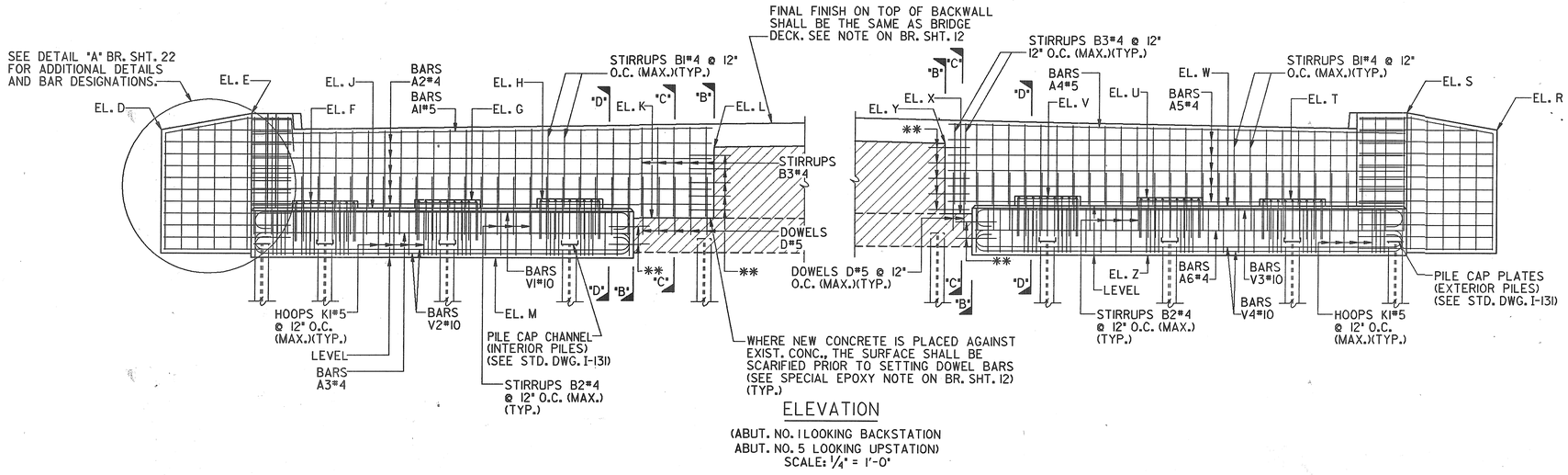
PLAN

SCALE: 1/4" = 1'-0"



DETAIL "A"

SCALE: 1/2" = 1'-0"



ELEVATION

(ABUT. NO. 1 LOOKING BACKSTATION
ABUT. NO. 5 LOOKING UPSTATION)
SCALE: 1/4" = 1'-0"

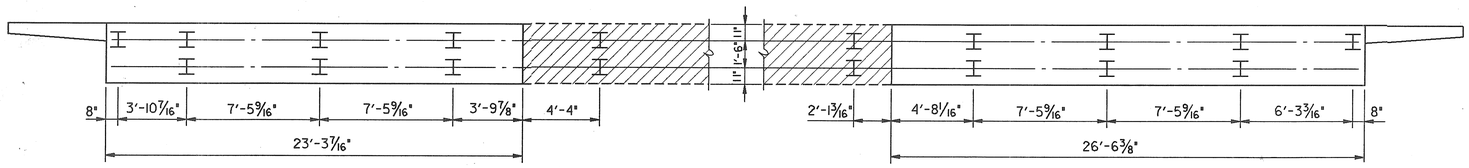
** INDICATES DOWEL BARS NO.6 X 2'-6" LONG EMBEDDED 1'-0" INTO EXIST. CONC. DOWEL HOLES (1" ϕ MIN.) TO BE FILLED W/APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO.12 AND SECTION 870 OF THE STD. SPECIFICATIONS.

NOTE: EXIST. HORIZONTAL BACKWALL & ABUTMENT BEAM REINFORCEMENT TO EXTEND INTO NEW BACKWALLS & ABUTMENT BEAMS. MIN. EXTENSION INTO NEW CONC. = 1'-6". EXISTING REINFORCEMENT TO BE CLEANED AND STRAIGHTENED.

NOTE: FINISH GRADE OF RAISED BACKWALL ON EXISTING ABUTMENTS SHALL MATCH EXISTING BRIDGE DECK SLOPE.

NOTE: SEE DETAIL "B" BRIDGE SHEET 22 FOR SPACING OF HOOPS K1#5

NOTE: SPLICE BARS #4 = 1'-6
#5 = 1'-10"



PILE LOCATION PLAN

SCALE: 1/4" = 1'-0"

TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
ABUT. NO. 1	40.5517	40.6151	40.6774	40.5288	41.5288	36.0207	36.0850	36.1482	35.7707	35.98	39.659±	32.7707	39.5287	39.3563	39.1826	39.1205	40.1205	34.6753	34.8480	35.0195	34.4253	34.00	38.628±	31.4253
ABUT. NO. 5	41.1328	41.2218	41.3096	41.1008	42.1008	36.5815	36.6714	36.7602	36.3315	35.72	40.319±	33.3315	40.6940	40.5471	40.3990	40.3459	41.3459	35.8713	36.0184	36.1644	35.6213	35.24	39.766±	32.6213

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 21 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR William D. McAteer

CHIEF BRIDGE DESIGN ENGINEER

Charles H. Crook

BRIDGE ENGINEER

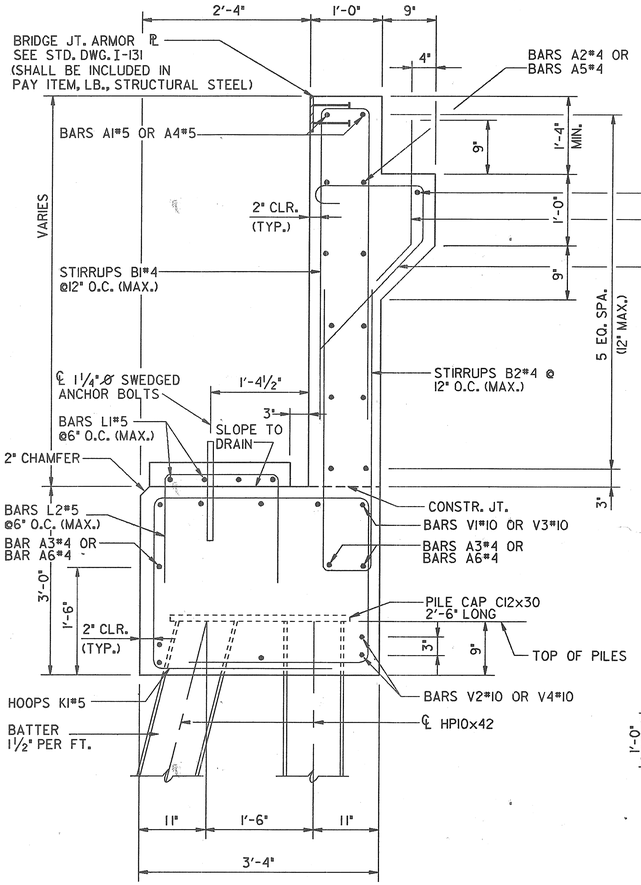
STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
OUTSIDE WIDENING OF I-10 BRIDGES OVER TENNESSEE STREET AND ILLINOIS CENTRAL GULF RAILROAD AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

ABUTMENTS NO. 1 & NO. 5

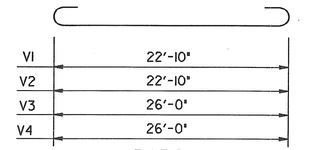
SCALE:	DESIGNED: WFD	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP:	6/19/87
	REINF CHKD:	CHKD:	
	CHECKED: TWW		

FHWA REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1 (84)	1987	28U	159H

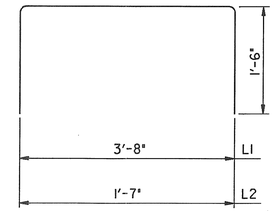


SECTION "D-D"

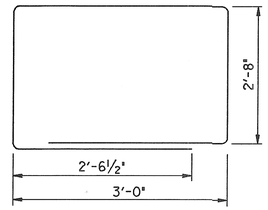
SCALE: 1" = 1'-0"



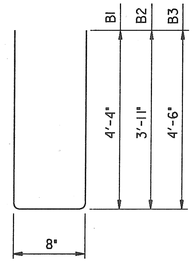
BARS V



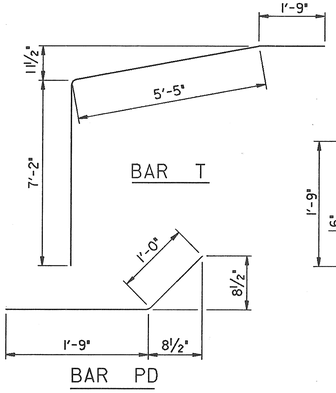
BARS L



HOOPS K1

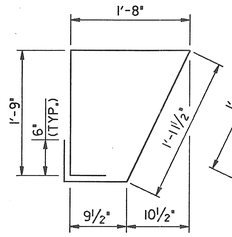


STIRRUPS B

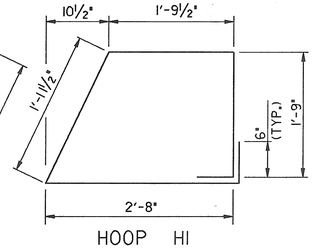


BAR T

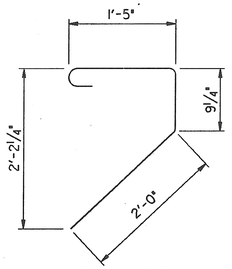
BAR PD



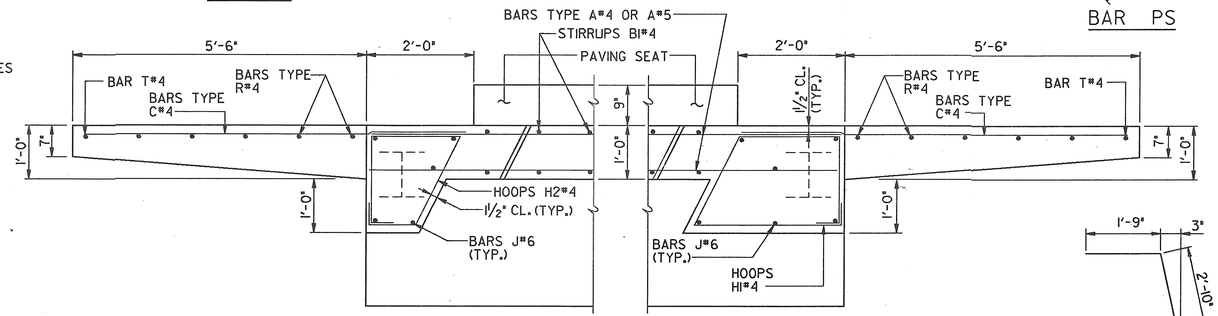
HOOP H2



HOOP H1



BAR PS



PLAN VIEW SHOWING WING REINFORCEMENT

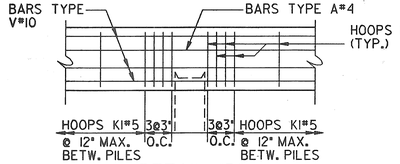
SCALE : ¾" = 1'-0"

BARS Z

BILL OF STEEL REINFORCEMENT

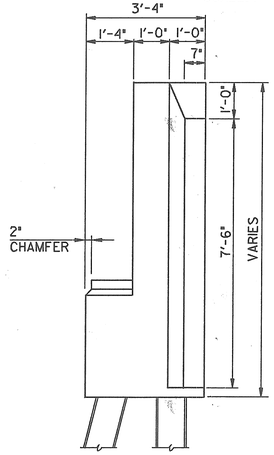
BAR	SIZE	ABUT. NO. 1 NO. REQ'D	ABUT. NO. 1 LENGTH	ABUT. NO. 5 NO. REQ'D	ABUT. NO. 5 LENGTH
A1	5	2	28'-4"	2	28'-4"
A2	4	10	28'-4"	10	28'-4"
A3	4	3	23'-0½"	3	23'-0½"
A4	5	2	27'-10½"	2	27'-10½"
A5	4	10	27'-10½"	10	27'-10½"
A6	4	3	26'-2½"	3	26'-2½"
V1	10	5	25'-8"	5	25'-8"
V2	10	5	25'-8"	5	25'-8"
V3	10	5	28'-10"	5	28'-10"
V4	10	5	28'-10"	5	28'-10"
PC1	4	1	26'-4"	1	26'-4"
PC2	4	1	25'-10½"	1	25'-10½"
K1	5	85	13'-5"	85	13'-5"
B1	4	45	9'-4"	45	9'-4"
B2	4	45	8'-6"	45	8'-6"
B3	4	7	9'-8"	7	9'-8"
PS	4	54	4'-8¼"	54	4'-8¼"
PD	6	54	2'-9"	54	2'-9"
L1	5	24	6'-8"	24	6'-8"
L2	5	54	4'-7"	54	4'-7"
DOWEL D	5	14	3'-6"	14	3'-6"
DOWEL	6	22	2'-6"	22	2'-6"
R1	4	2	7'-5"	2	7'-5"
R2	4	2	7'-7"	2	7'-7"
R3	4	2	7'-9"	2	7'-9"
R4	4	2	7'-11"	2	7'-11"
R5	4	2	8'-1"	2	8'-1"
C1	4	20	7'-2"	20	7'-2"
C2	4	2	6'-8"	2	6'-8"
T	4	2	14'-4"	2	14'-4"
H1	4	8	9'-2"	8	9'-2"
H2	4	8	7'-2"	8	7'-2"
J	6	15	8'-3"	15	8'-3"
Z	5	4	4'-7"	4	4'-7"

NOTE : ALL BAR BENDING DIMENSIONS ARE OUT TO OUT UNLESS OTHERWISE NOTED.



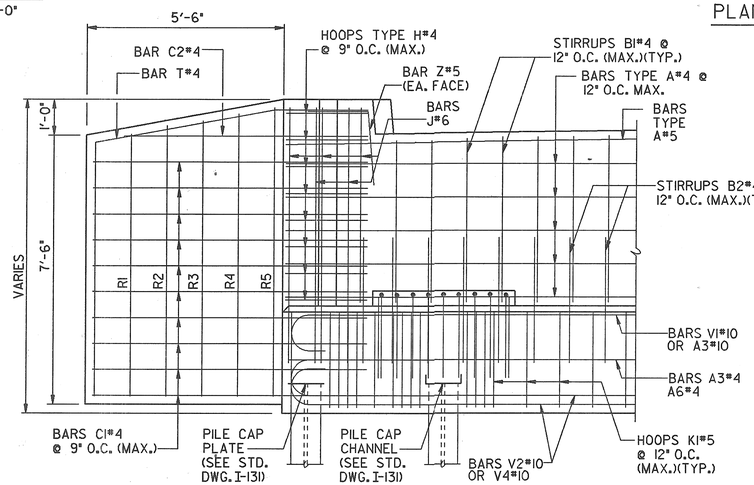
DETAIL "B"

NO SCALE



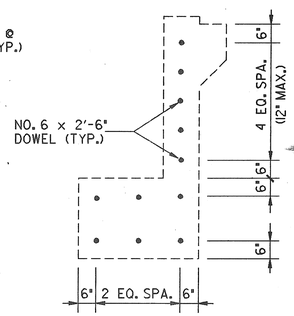
END ELEVATION

SCALE: ½" = 1'-0"



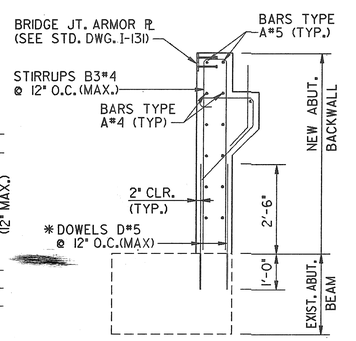
DETAIL "A"

SCALE: ½" = 1'-0"



SECTION "B-B"

NO SCALE



SECTION "C-C"

NO SCALE

NOTE : FOR DETAILS NOT SHOWN, SEE SECTION "D-D".

* DOWEL HOLES (⅞" ø MIN.) TO BE FILLED W/ APPROVED EPOXY ADHESIVE. SEE BR. SHT. NO.12 AND SECTION 870 OF THE STD. SPECIFICATIONS.

TABLE OF ESTIMATED QUANTITIES ▲

ITEM	UNITS	ABUT. NO. 1	ABUT. NO. 5
SUBSTRUCTURE CONCRETE	CU.YD.	33.9	34.0
STEEL REINFORCEMENT	LBS.	6142	6142
STRUCTURAL STEEL	LBS.	1236	1236

▲ COMBINED TOTAL FOR E.B.L. & W.B.L. OUTSIDE WIDENING.

BARGE, WAGGONER, SUMNER, & CANNON

BRIDGE SHEET NO. 22 OF 22

REVISIONS

APPROVED:

SECTION SUPERVISOR

William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER

Charlie H. Cook
BRIDGE ENGINEER

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
OUTSIDE WIDENING OF I-10 BRIDGES
OVER TENNESSEE STREET AND
ILLINOIS CENTRAL GULF RAILROAD
AT STATION 592+57.86
MOBILE COUNTY, ALABAMA

ABUTMENT DETAILS

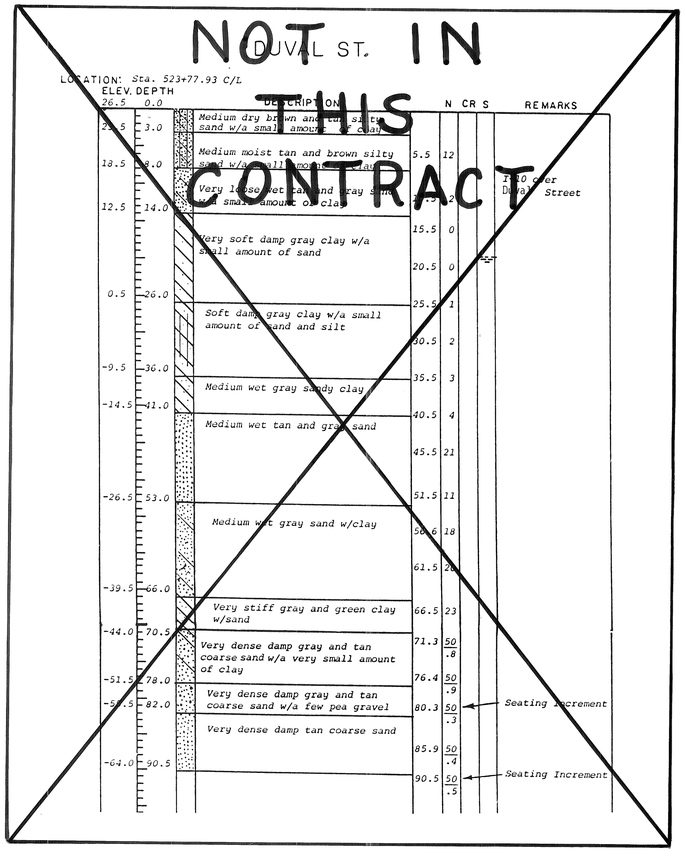
SCALE:	DESIGNED: WFD	QUANTITIES	DATE
AS SHOWN	DRAWN: BWSC CAD/D	COMP: WFD	6/19/87
	REINF CHKD: TWW	CHKD: TWW	
	CHECKED: TWW		

FEDERAL REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	ALA.	I-IR-10-1(84)	1987	32	159H

NOT IN THIS CONTRACT

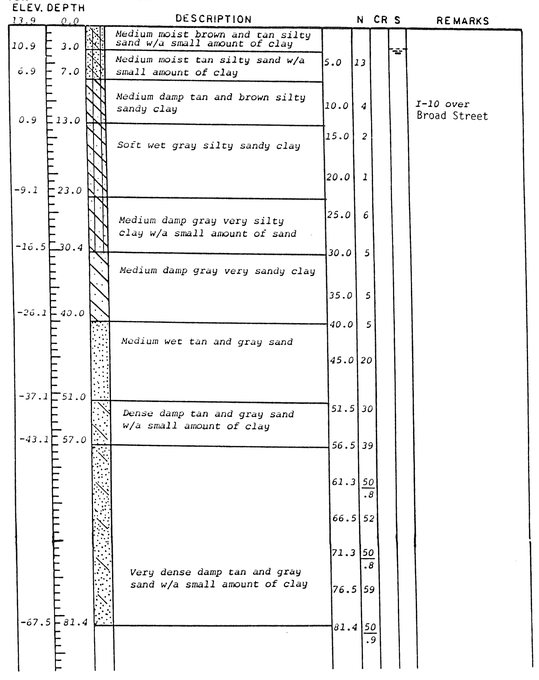
DUVAL ST.

LOCATION: Sta. 523+77.93 C/L



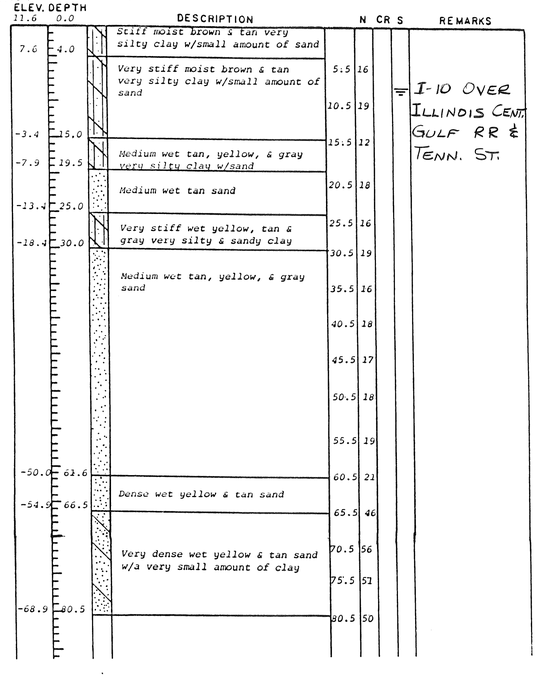
BROAD ST.

LOCATION: Sta. 557+06.72 C/L



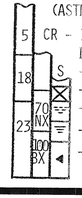
TENN. ST. AND ILLINOIS CENTRAL GULF R R

LOCATION: Sta. 592+40; C/L of I-10



SPECIAL NOTE: SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IT IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THIS PROJECT.

N - IS PENETRATION IN BLOWS PER FOOT (ASTM D-1586)



CR - IS % CORE RECOVERY, NX OR AX DESIGNATES BIT SIZE (ASTM D-2113)
- SYMBOLS DESCRIBED BELOW:
- UNDISTURBED SAMPLE (ASTM D-1587)
- WATER TABLE, TIME OF BORING
- WATER TABLE, 24 HOUR READING
- LOSS OF DRILLING FLUID

BRIDGE SHEET NO. 1A OF 3A

REVISIONS

APPROVED:

SECTION SUPERVISOR
William J. McAteer
CHIEF BRIDGE DESIGN ENGINEER
Charlie H. Cook
BRIDGE ENGINEER

STATE OF ALABAMA
HIGHWAY DEPARTMENT

PROJECT NO. I-IR-10-1(84)
WIDENING OF I-10 BRIDGES OVER BROAD ST., TENN. ST., WAR.-LAW. ST., VIRGINIA ST., AND TEXAS ST.
MOBILE COUNTY, ALABAMA

TEST BORING RECORD

SCALE:	DESIGNED:		QUANTITIES	DATE
	DRAWN:	G.W.	COMP:	MARCH
	TRACED:		CHKD:	1986
	CHECKED:	F.B.		

K&E 19-1253