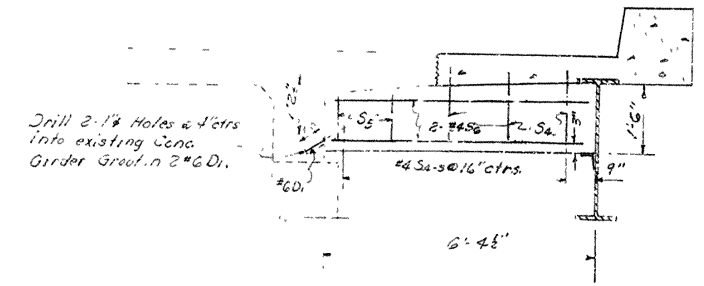
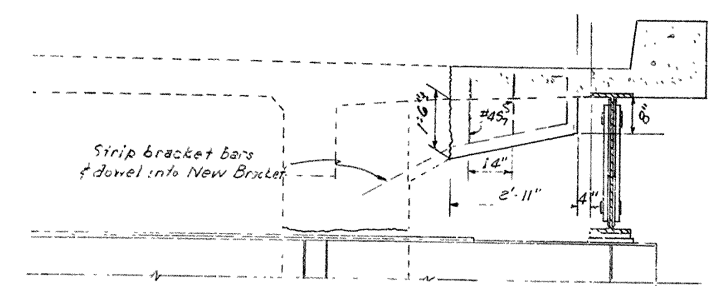


| NO.     | STATE | FED. AID | FISCAL YEAR | SHEET | TOTAL SHEETS |
|---------|-------|----------|-------------|-------|--------------|
| 6       | AR    |          | FY-1968     | 44    | 185          |
| JOB NO. |       |          | 4475        | 44    | 185          |

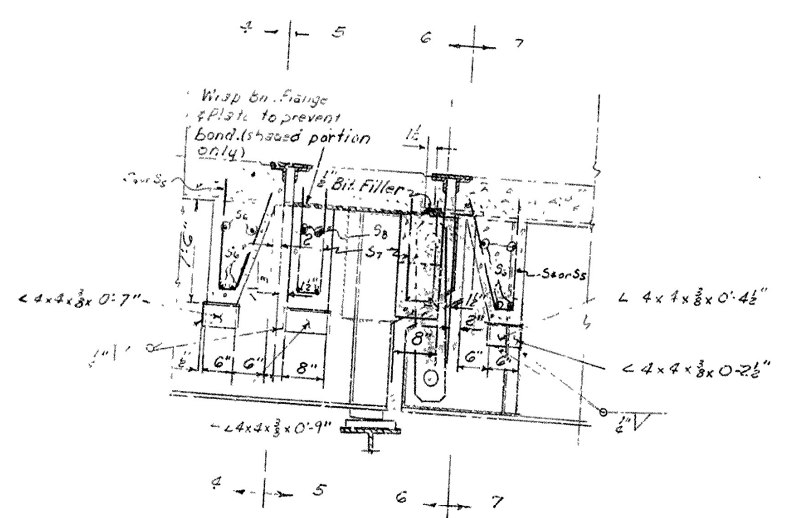


SECTION 4-4

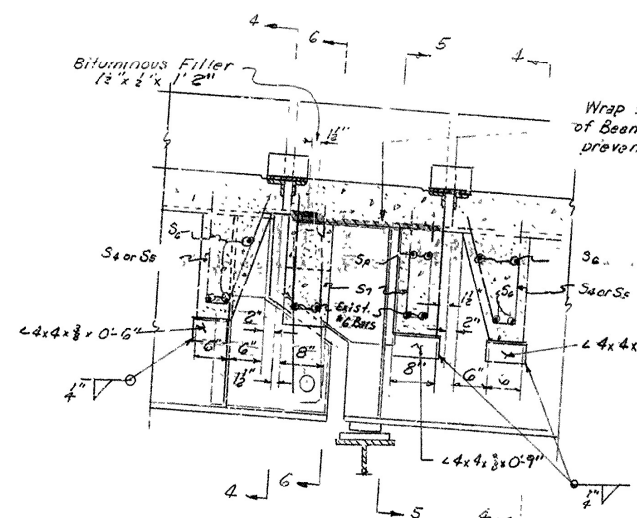


SECTION 6-6

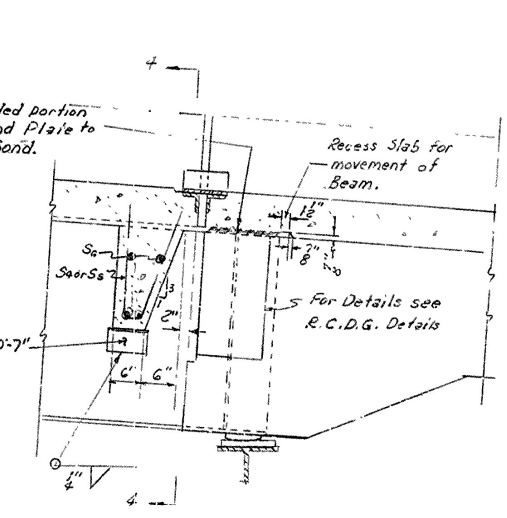
**NOTES:**  
The work contemplated consists of widening the existing bridge structure on both sides of the roadway. For requirements in conducting the work see Special Provision 'Remodeling Existing Bridges and Maintenance of Traffic.'  
All dimensions relating to existing bridge shall be verified in the field.  
All concrete in the superstructure to be Class 'S' concrete and all exposed corners to be chamfered 3/4" unless otherwise noted.  
Structural shapes of equal or greater strength may be substituted for shapes shown, but payment will be made on the basis of shapes shown, or those actually used, whichever is less.  
All welding shall conform to the American Welding Society Standard Specifications for Welded Highway and Railway Bridges, 5th Edition 1956.  
Shop Paint: All structural steel except surfaces in contact with concrete shall be given one coat of red lead and raw linseed oil before shipment.  
Field Paint: First coat - red lead tinted with lamp black; second coat - Aluminum Paint.  
All bearing plates and roadway expansion devices to be paid for as "Structural Steel in Beam Spans".  
These drawings show general features of design only. Shop drawings shall be made in accordance with the Specifications, submitted and approval secured before fabrication is begun.  
For additional Notes see drawing 11194 & 11191.  
For details of posts and rails see Dwg. No. 11191.



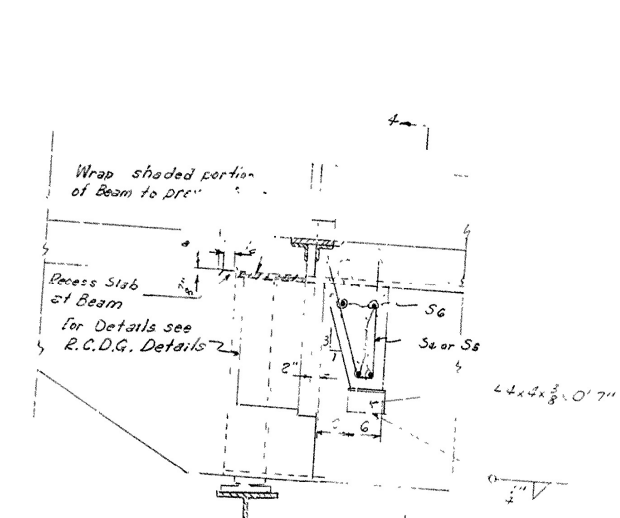
SECTION F-F  
Scale: 3/4"=1'-0"



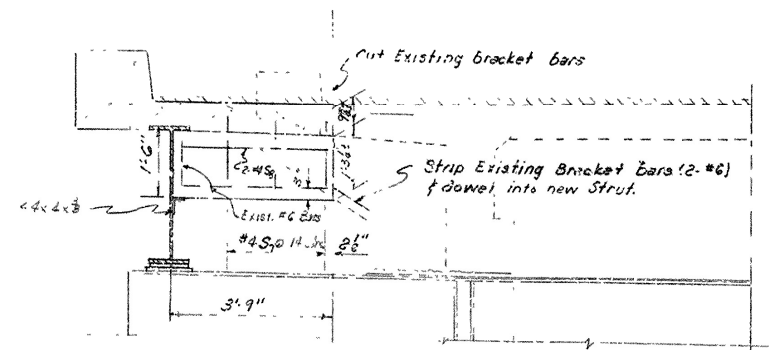
SECTION G-G  
Scale: 3/4"=1'-0"



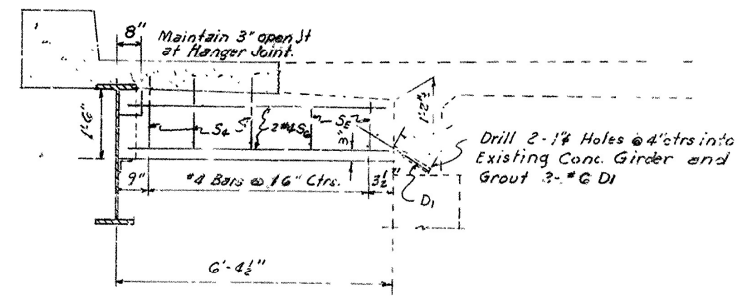
SECTION H-H  
Scale: 3/4"=1'-0"



SECTION J-J  
Scale: 3/4"=1'-0"



SECTION 5-5

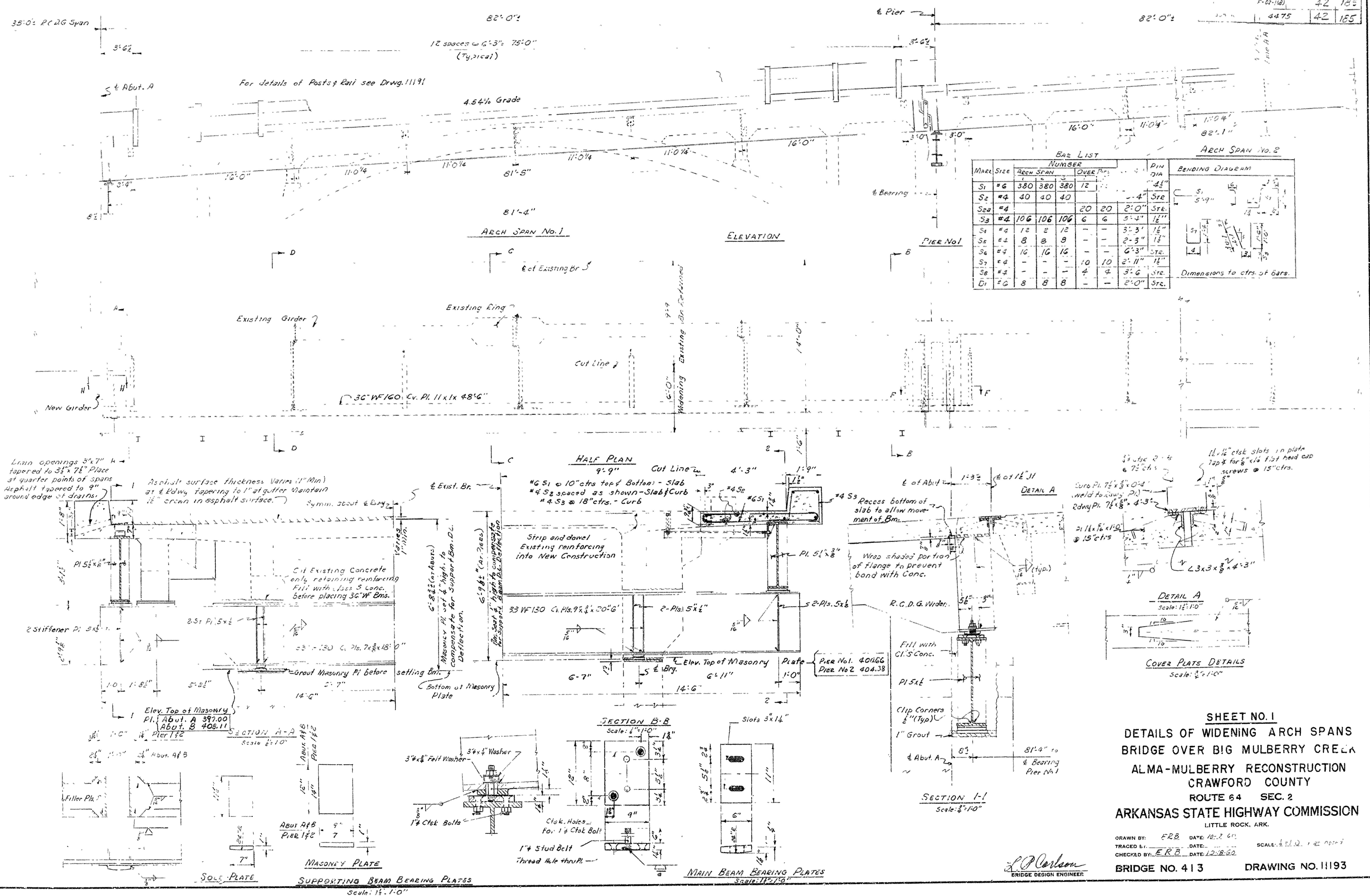


SECTION 7-7

**SHEET NO. 3**  
**DETAILS OF WIDENING ARCH SPANS**  
**BRIDGE OVER BIG MULBERRY CREEK**  
**ALMA-MULBERRY RECONSTRUCTION**  
**CRAWFORD COUNTY**  
**ROUTE 64 SEC. 2**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
**LITTLE ROCK, ARK.**  
DRAWN BY: F.R.B. DATE: 10-18-60  
TRACED BY: F.R.B. DATE: 10-28-60  
CHECKED BY: F.R.B. DATE: 10-28-60  
BRIDGE NO. 413  
DRAWING NO. 11195  
Scale: 3/4"=1'-0" or as noted

*L.P. Peterson*  
BRIDGE DESIGN ENGINEER

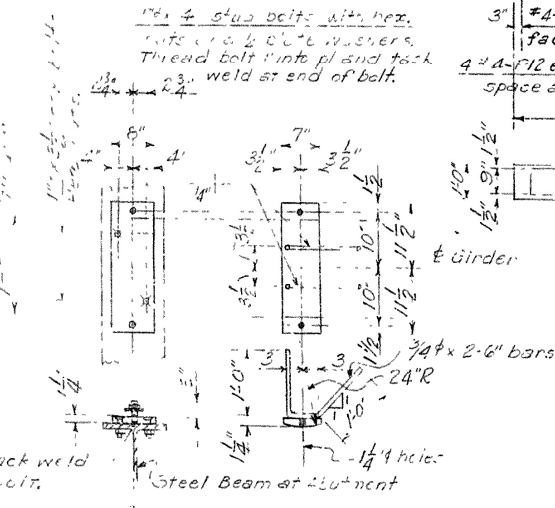
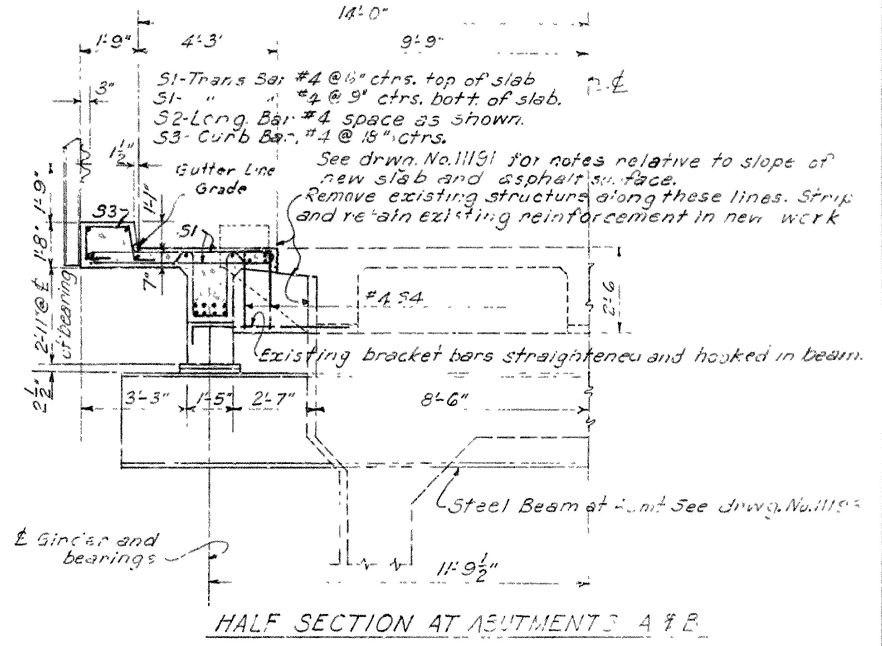
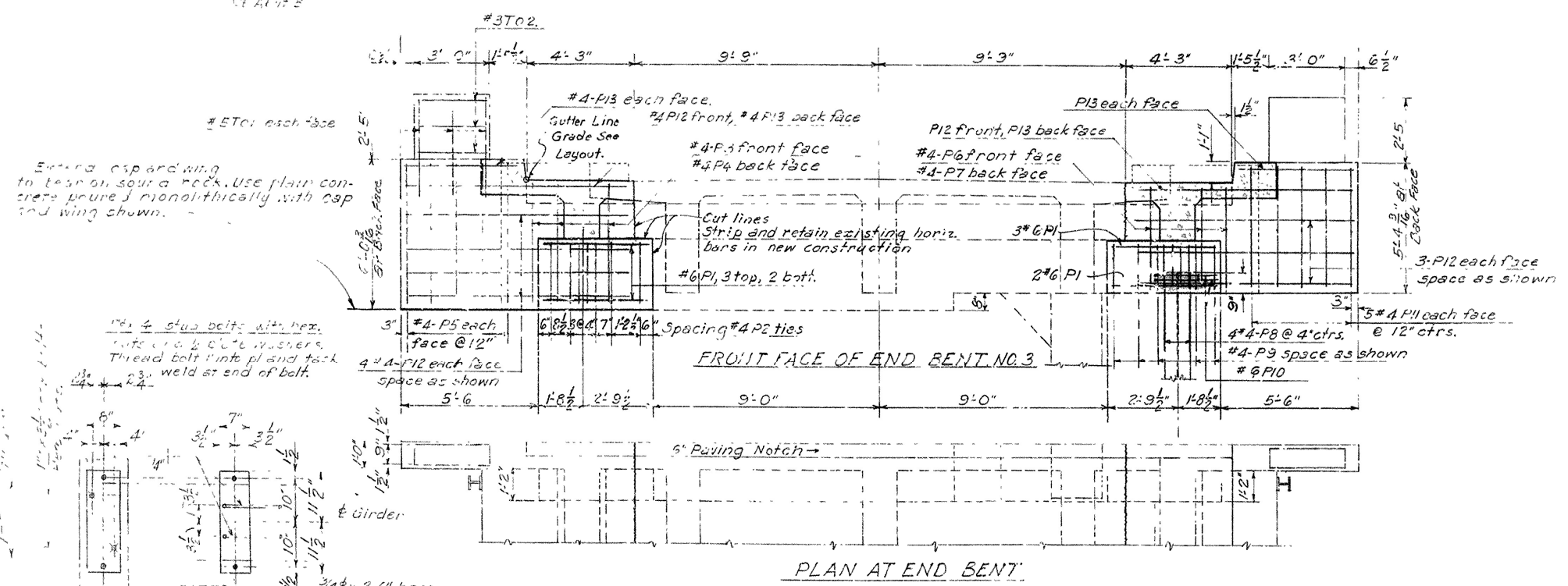
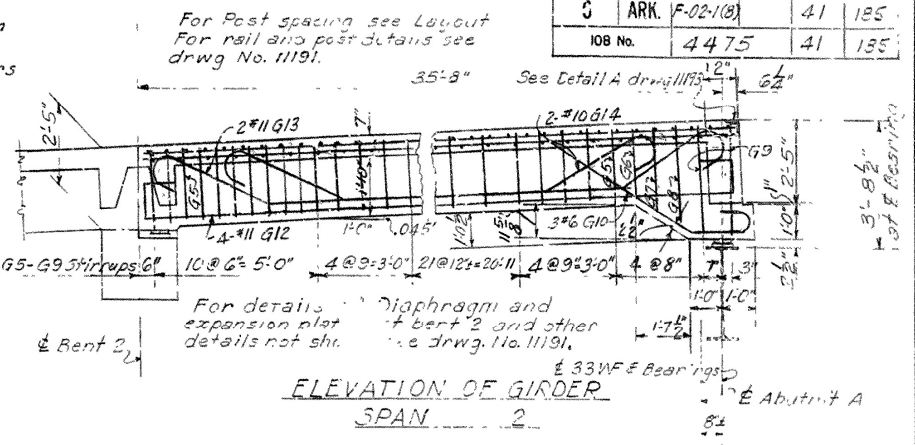
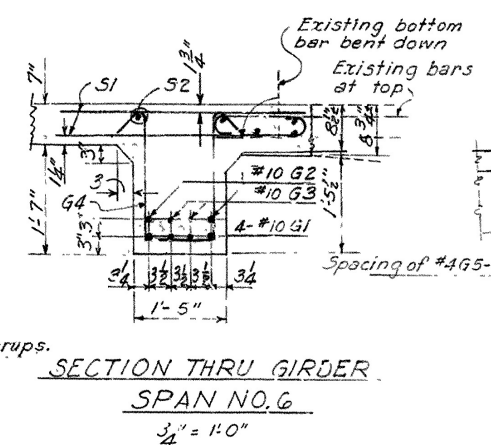
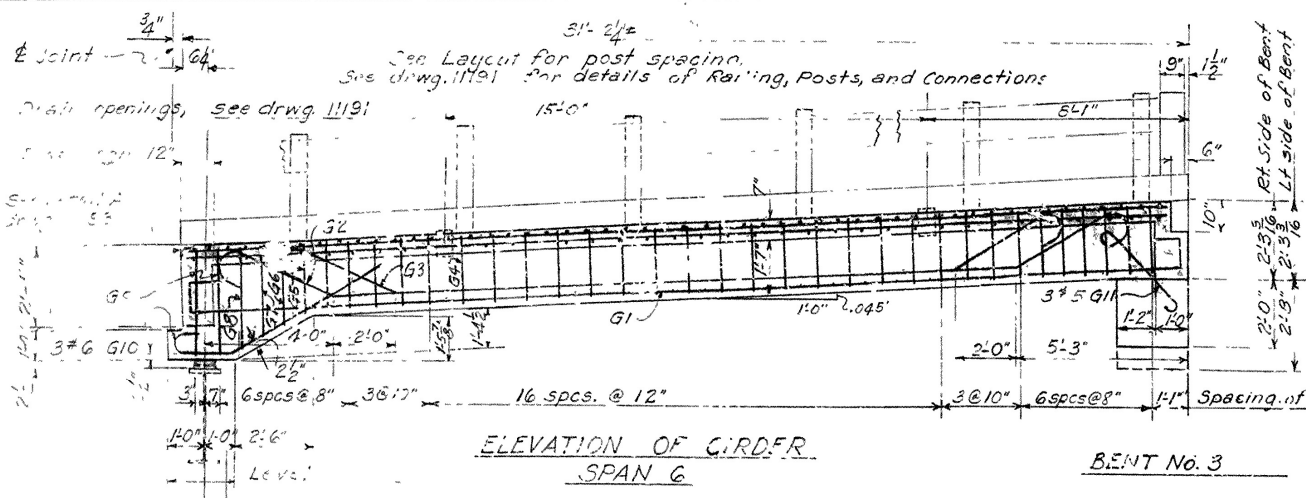




**SHEET NO. 1**  
**DETAILS OF WIDENING ARCH SPANS**  
**BRIDGE OVER BIG MULBERRY CREEK**  
**ALMA-MULBERRY RECONSTRUCTION**  
**CRAWFORD COUNTY**  
**ROUTE 64 SEC. 2**  
**ARKANSAS STATE HIGHWAY COMMISSION**  
**LITTLE ROCK, ARK.**

DRAWN BY: **FRB** DATE: **12-2-61**  
 TRACED BY: **FRB** DATE: **12-2-61**  
 CHECKED BY: **FRB** DATE: **12-2-61**  
**BRIDGE NO. 413** **DRAWING NO. 11193**

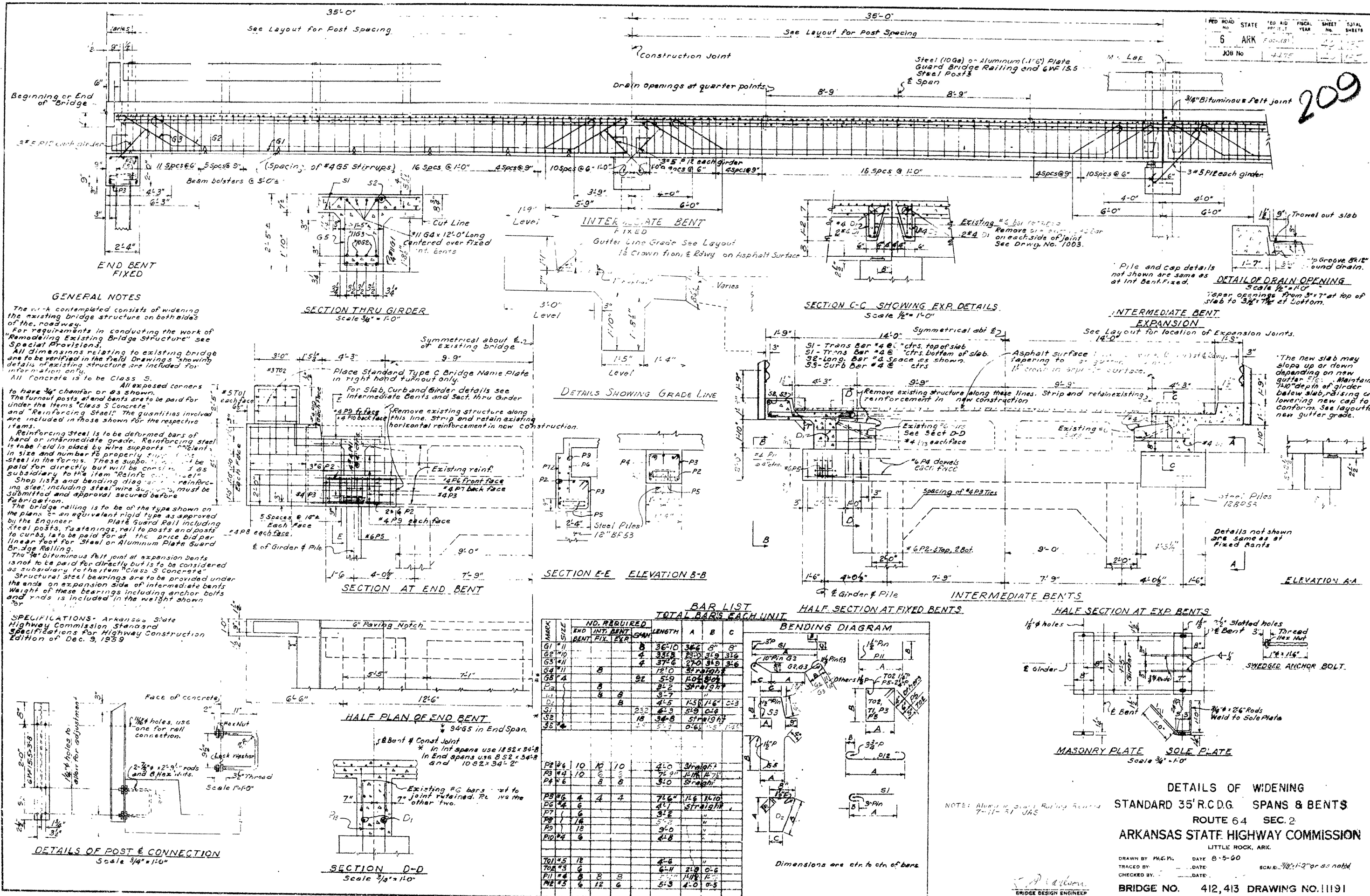
| FED. ROAD DIST. | STATE | FED. AID PROJECT | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|-----------------|-------|------------------|-------------|-----------|--------------|
| 5               | ARK.  | F-02-1(3)        |             | 41        | 185          |
| 108 No.         |       | 4475             |             | 41        | 185          |

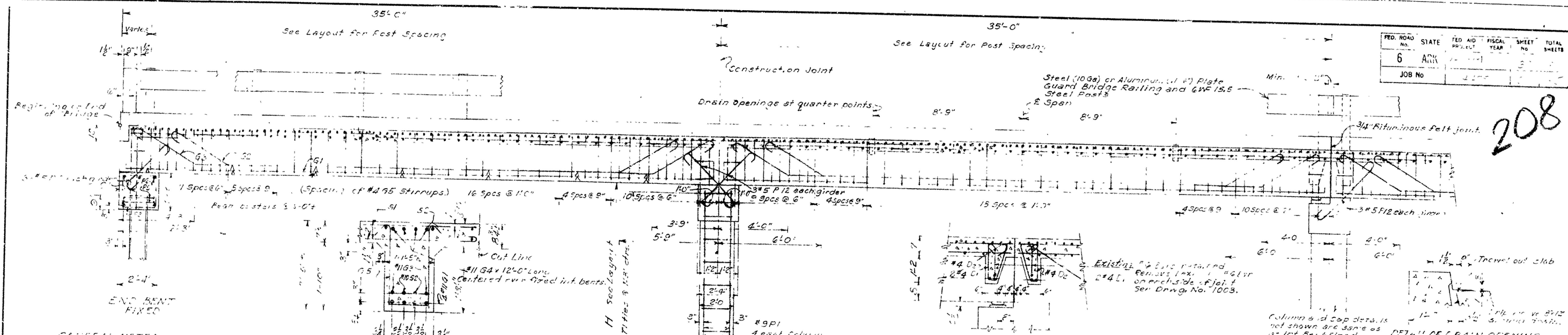


| BAR LIST |      |              |        |             |            |            |          |                  |  |
|----------|------|--------------|--------|-------------|------------|------------|----------|------------------|--|
| MARK     | SIZE | NO. REQUIRED | LENGTH | A           | B          | C          | PIN DIA. | BENDING DIAGRAMS |  |
| G1       | 10   | 8            | 33'-0" | 30'-8"      | 0'-8"      | 0'-8"      | 3"       | G1, G12          |  |
| G2       | 10   | 4            | 31'-5" | 21'-5"      | 3'-7"      | 3'-6"      | 10"      | G2, G3           |  |
| G3       | 10   | 4            | 27'-5" | 17'-5"      | 3'-7"      | 3'-6"      | 10"      | G3, G4           |  |
| G4       | 4    | 60           | 5'-5"  | 1'-0 1/2"   | 1'-10 1/2" | 1'-10 1/2" | 1 1/2"   | G4, G5           |  |
| G5       | 4    | 82           | 5'-11" | 1'-0 1/2"   | 1'-10 1/2" | 1'-10 1/2" | 1 1/2"   | G5, G6           |  |
| G6       | 4    | 2            | 6'-4"  | 1'-0 1/2"   | 2'-4"      | 1'-10 1/2" | 1 1/2"   | G6, G7           |  |
| G7       | 4    | 2            | 7'-1"  | 1'-0 1/2"   | 2'-8"      | 1'-10 1/2" | 1 1/2"   | G7, G8           |  |
| G8       | 4    | 2            | 7'-10" | 1'-0 1/2"   | 3'-1"      | 1'-10 1/2" | 1 1/2"   | G8, G9           |  |
| G9       | 4    | 4            | 8'-1"  | 1'-0 1/2"   | 3'-2 1/2"  | 1'-10 1/2" | 1 1/2"   | G9, G10          |  |
| G10      | 4    | 6            | 7'-7"  | See diagram |            |            |          | G10, G11         |  |
| G11      | 5    | 6            | 4'-6"  | 3'-3"       | 0'-5"      |            | 3 3/4"   | G11, G12         |  |
| P1       | 6    | 10           | 4'-0"  | Straight    |            |            |          | P1, P2           |  |
| P2       | 4    | 7            | 8'-9"  | 2'-3 1/2"   | 1'-9 1/2"  |            | 1 1/2"   | P2, P3           |  |
| P3       | 3    | 3            | 4'-6"  | Straight    |            |            |          | P3, P4           |  |
| P4       | 3    | 3            | 3'-8"  |             |            |            |          | P4, P5           |  |
| P5       | 10   | 10           | 5'-8"  |             |            |            |          | P5, P6           |  |
| P6       | 4    | 3            | 3'-10" |             |            |            |          | P6, P7           |  |
| G12      | 11   | 8            | 38'-0" | 35'-8"      | 0'-8"      | 0'-8"      | 3"       | G12, G13         |  |
| G13      | 11   | 4            | 39'-2" | 28'-8"      | 3'-9"      | 3'-6"      | 1 1/2"   | G13, G14         |  |

DETAILS OF WIDENING  
SPANS 2 AND 6 AND BENT NO. 3  
BRIDGE OVER BIG MULBERRY CREEK  
ALMA-MULBERRY RECONSTRUCTION  
CRAWFORD AND FRANKLIN COS.  
ROUTE 64 SEC. 2 & 3  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: W.E.W. DATE: 9-20-60  
TRACED BY: DATE: SCALE: 3/8" = 1'-0" or noted.  
CHECKED BY: F.R.B. DATE: 10-1-60  
BRIDGE NO. 413 DRAWING NO. 11192



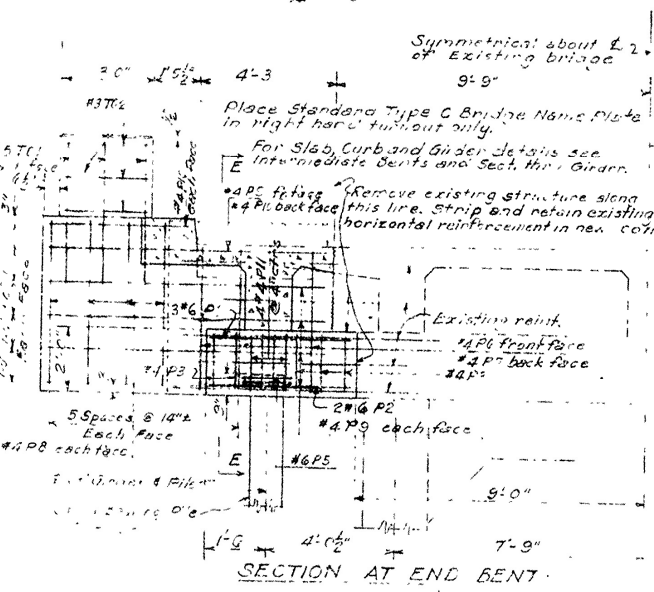




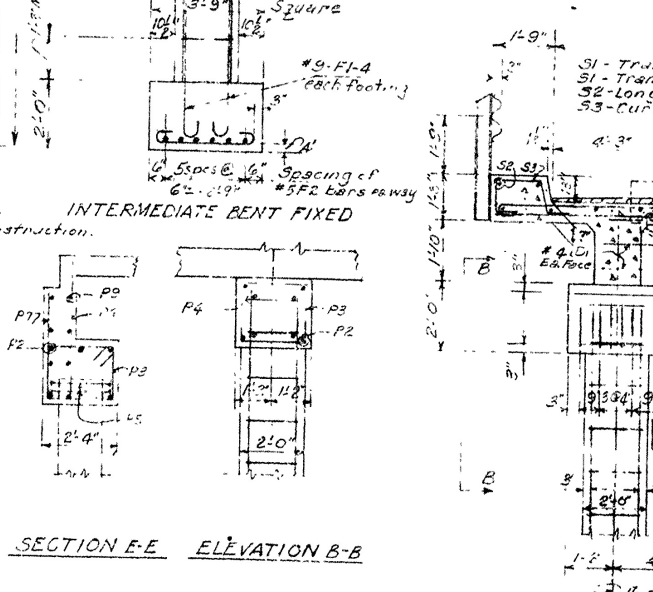
**GENERAL NOTES**

The work on this bridge consists of widening the existing bridge and adding a new span to the existing bridge. The work is to be done in accordance with the plans and specifications of the Arkansas State Highway Commission. The plans show the existing bridge and the new span to be added. The new span is to be 35 feet long and 12 feet wide. The existing bridge is 12 feet wide and 10 feet long. The new span is to be added to the existing bridge at the center of the existing bridge. The new span is to be supported by two bents. The bents are to be 12 feet wide and 10 feet long. The new span is to be supported by two bents. The bents are to be 12 feet wide and 10 feet long. The new span is to be supported by two bents. The bents are to be 12 feet wide and 10 feet long.

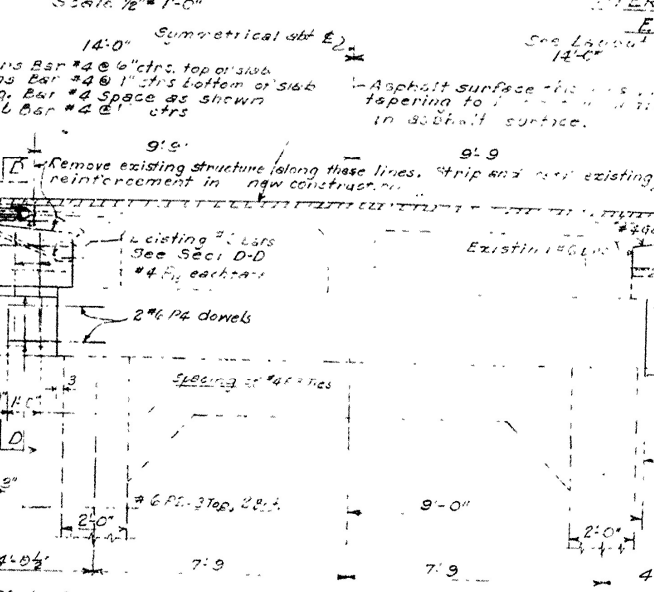
**SECTION THRU GIRDER**  
Scale 3/4" = 1'-0"



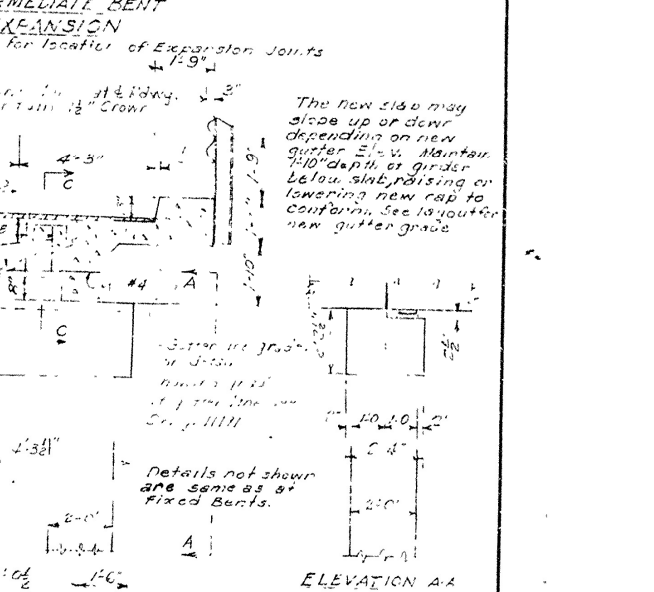
**SECTION C-C SHOWING EXP. DETAILS**  
Scale 1/2" = 1'-0"



**SECTION E-E ELEVATION B-B**

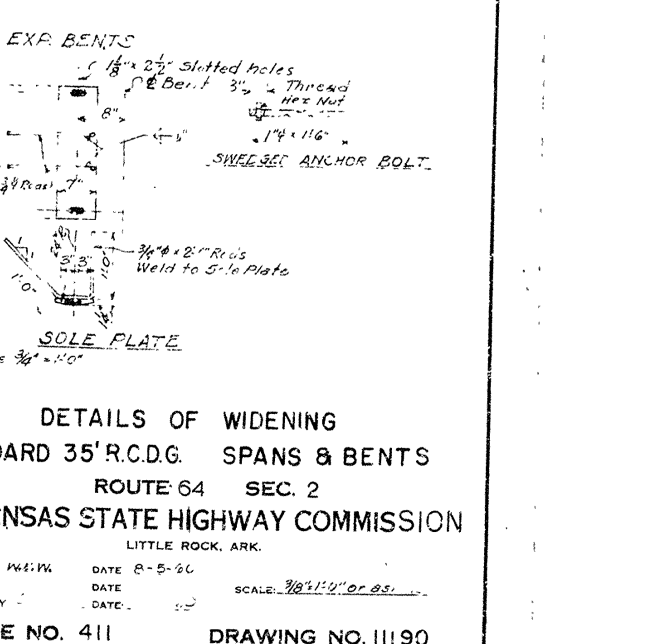
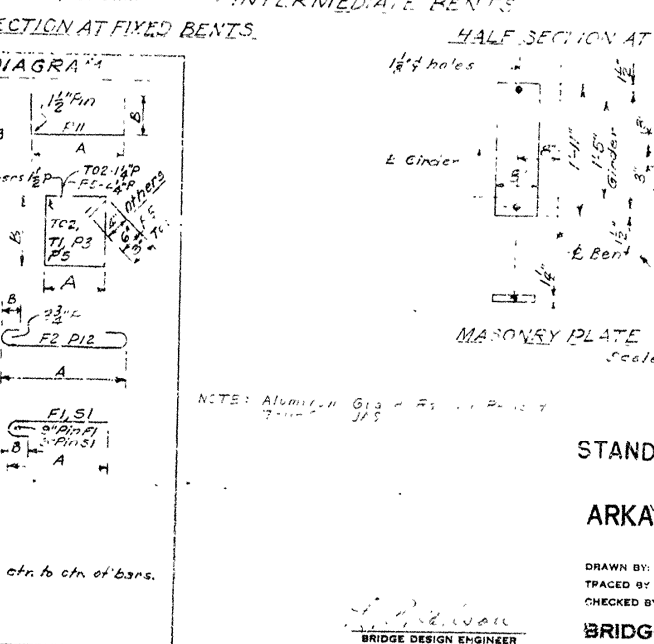
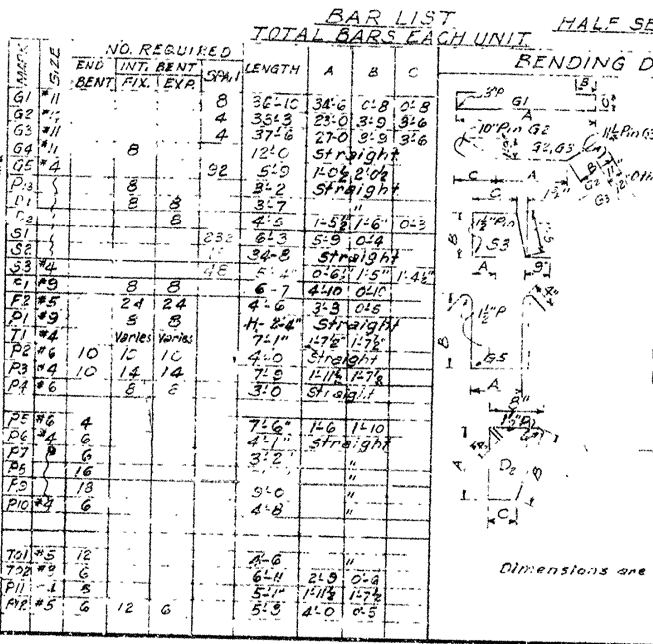
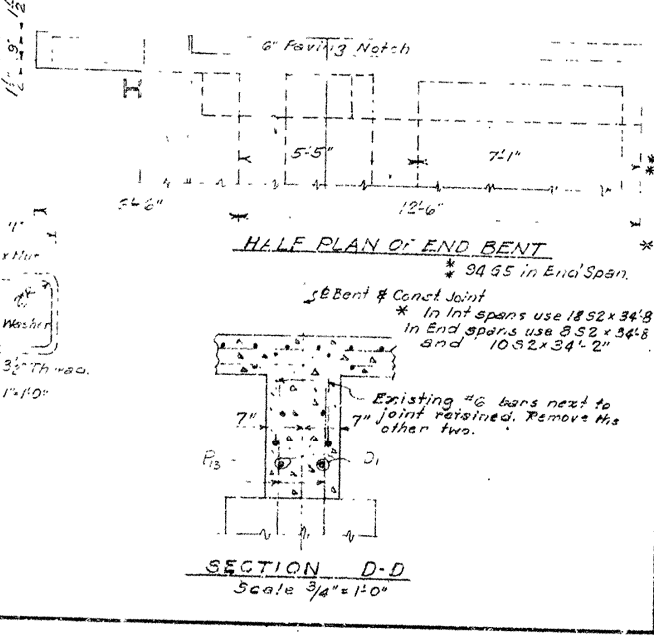
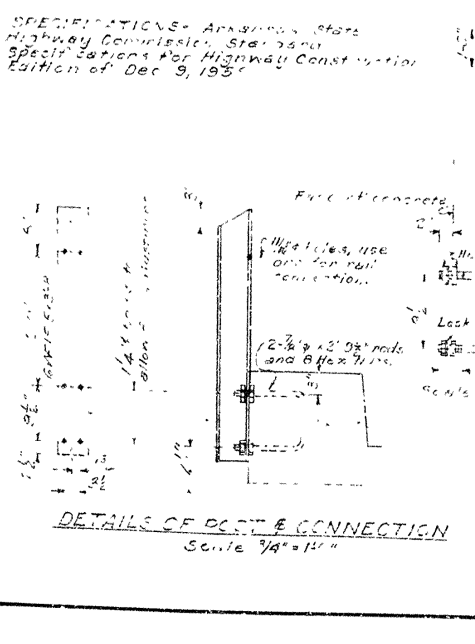


**INTERMEDIATE BENT EXPANSION**  
Scale 1/2" = 1'-0"



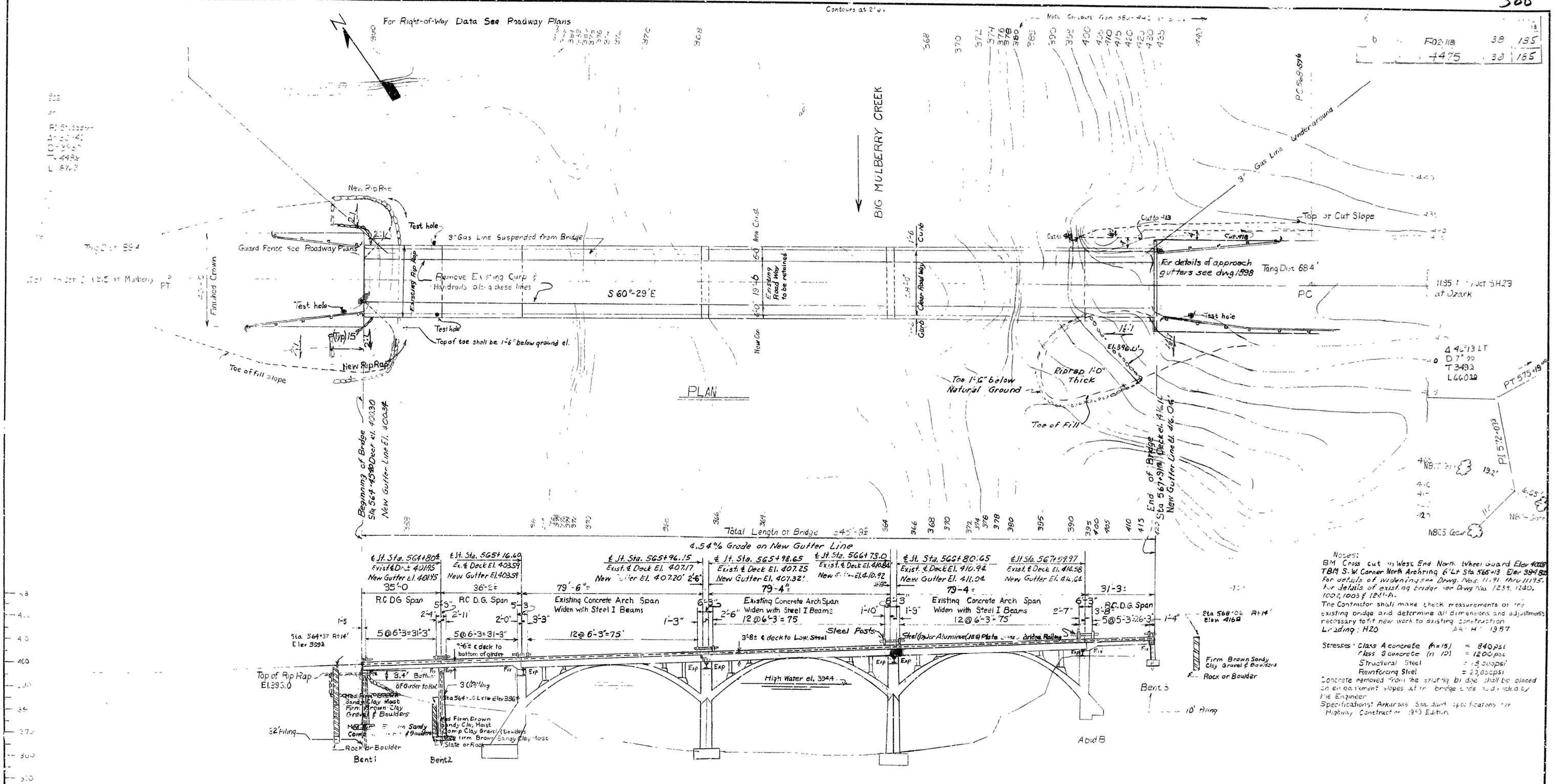
**BAR LIST**

| NO. REQUIRED | END BENT | INT. BENT | SPAN | LENGTH | A   | B   | C   |
|--------------|----------|-----------|------|--------|-----|-----|-----|
| 1            | 1        | 1         | 1    | 1      | 1   | 1   | 1   |
| 2            | 2        | 2         | 2    | 2      | 2   | 2   | 2   |
| 3            | 3        | 3         | 3    | 3      | 3   | 3   | 3   |
| 4            | 4        | 4         | 4    | 4      | 4   | 4   | 4   |
| 5            | 5        | 5         | 5    | 5      | 5   | 5   | 5   |
| 6            | 6        | 6         | 6    | 6      | 6   | 6   | 6   |
| 7            | 7        | 7         | 7    | 7      | 7   | 7   | 7   |
| 8            | 8        | 8         | 8    | 8      | 8   | 8   | 8   |
| 9            | 9        | 9         | 9    | 9      | 9   | 9   | 9   |
| 10           | 10       | 10        | 10   | 10     | 10  | 10  | 10  |
| 11           | 11       | 11        | 11   | 11     | 11  | 11  | 11  |
| 12           | 12       | 12        | 12   | 12     | 12  | 12  | 12  |
| 13           | 13       | 13        | 13   | 13     | 13  | 13  | 13  |
| 14           | 14       | 14        | 14   | 14     | 14  | 14  | 14  |
| 15           | 15       | 15        | 15   | 15     | 15  | 15  | 15  |
| 16           | 16       | 16        | 16   | 16     | 16  | 16  | 16  |
| 17           | 17       | 17        | 17   | 17     | 17  | 17  | 17  |
| 18           | 18       | 18        | 18   | 18     | 18  | 18  | 18  |
| 19           | 19       | 19        | 19   | 19     | 19  | 19  | 19  |
| 20           | 20       | 20        | 20   | 20     | 20  | 20  | 20  |
| 21           | 21       | 21        | 21   | 21     | 21  | 21  | 21  |
| 22           | 22       | 22        | 22   | 22     | 22  | 22  | 22  |
| 23           | 23       | 23        | 23   | 23     | 23  | 23  | 23  |
| 24           | 24       | 24        | 24   | 24     | 24  | 24  | 24  |
| 25           | 25       | 25        | 25   | 25     | 25  | 25  | 25  |
| 26           | 26       | 26        | 26   | 26     | 26  | 26  | 26  |
| 27           | 27       | 27        | 27   | 27     | 27  | 27  | 27  |
| 28           | 28       | 28        | 28   | 28     | 28  | 28  | 28  |
| 29           | 29       | 29        | 29   | 29     | 29  | 29  | 29  |
| 30           | 30       | 30        | 30   | 30     | 30  | 30  | 30  |
| 31           | 31       | 31        | 31   | 31     | 31  | 31  | 31  |
| 32           | 32       | 32        | 32   | 32     | 32  | 32  | 32  |
| 33           | 33       | 33        | 33   | 33     | 33  | 33  | 33  |
| 34           | 34       | 34        | 34   | 34     | 34  | 34  | 34  |
| 35           | 35       | 35        | 35   | 35     | 35  | 35  | 35  |
| 36           | 36       | 36        | 36   | 36     | 36  | 36  | 36  |
| 37           | 37       | 37        | 37   | 37     | 37  | 37  | 37  |
| 38           | 38       | 38        | 38   | 38     | 38  | 38  | 38  |
| 39           | 39       | 39        | 39   | 39     | 39  | 39  | 39  |
| 40           | 40       | 40        | 40   | 40     | 40  | 40  | 40  |
| 41           | 41       | 41        | 41   | 41     | 41  | 41  | 41  |
| 42           | 42       | 42        | 42   | 42     | 42  | 42  | 42  |
| 43           | 43       | 43        | 43   | 43     | 43  | 43  | 43  |
| 44           | 44       | 44        | 44   | 44     | 44  | 44  | 44  |
| 45           | 45       | 45        | 45   | 45     | 45  | 45  | 45  |
| 46           | 46       | 46        | 46   | 46     | 46  | 46  | 46  |
| 47           | 47       | 47        | 47   | 47     | 47  | 47  | 47  |
| 48           | 48       | 48        | 48   | 48     | 48  | 48  | 48  |
| 49           | 49       | 49        | 49   | 49     | 49  | 49  | 49  |
| 50           | 50       | 50        | 50   | 50     | 50  | 50  | 50  |
| 51           | 51       | 51        | 51   | 51     | 51  | 51  | 51  |
| 52           | 52       | 52        | 52   | 52     | 52  | 52  | 52  |
| 53           | 53       | 53        | 53   | 53     | 53  | 53  | 53  |
| 54           | 54       | 54        | 54   | 54     | 54  | 54  | 54  |
| 55           | 55       | 55        | 55   | 55     | 55  | 55  | 55  |
| 56           | 56       | 56        | 56   | 56     | 56  | 56  | 56  |
| 57           | 57       | 57        | 57   | 57     | 57  | 57  | 57  |
| 58           | 58       | 58        | 58   | 58     | 58  | 58  | 58  |
| 59           | 59       | 59        | 59   | 59     | 59  | 59  | 59  |
| 60           | 60       | 60        | 60   | 60     | 60  | 60  | 60  |
| 61           | 61       | 61        | 61   | 61     | 61  | 61  | 61  |
| 62           | 62       | 62        | 62   | 62     | 62  | 62  | 62  |
| 63           | 63       | 63        | 63   | 63     | 63  | 63  | 63  |
| 64           | 64       | 64        | 64   | 64     | 64  | 64  | 64  |
| 65           | 65       | 65        | 65   | 65     | 65  | 65  | 65  |
| 66           | 66       | 66        | 66   | 66     | 66  | 66  | 66  |
| 67           | 67       | 67        | 67   | 67     | 67  | 67  | 67  |
| 68           | 68       | 68        | 68   | 68     | 68  | 68  | 68  |
| 69           | 69       | 69        | 69   | 69     | 69  | 69  | 69  |
| 70           | 70       | 70        | 70   | 70     | 70  | 70  | 70  |
| 71           | 71       | 71        | 71   | 71     | 71  | 71  | 71  |
| 72           | 72       | 72        | 72   | 72     | 72  | 72  | 72  |
| 73           | 73       | 73        | 73   | 73     | 73  | 73  | 73  |
| 74           | 74       | 74        | 74   | 74     | 74  | 74  | 74  |
| 75           | 75       | 75        | 75   | 75     | 75  | 75  | 75  |
| 76           | 76       | 76        | 76   | 76     | 76  | 76  | 76  |
| 77           | 77       | 77        | 77   | 77     | 77  | 77  | 77  |
| 78           | 78       | 78        | 78   | 78     | 78  | 78  | 78  |
| 79           | 79       | 79        | 79   | 79     | 79  | 79  | 79  |
| 80           | 80       | 80        | 80   | 80     | 80  | 80  | 80  |
| 81           | 81       | 81        | 81   | 81     | 81  | 81  | 81  |
| 82           | 82       | 82        | 82   | 82     | 82  | 82  | 82  |
| 83           | 83       | 83        | 83   | 83     | 83  | 83  | 83  |
| 84           | 84       | 84        | 84   | 84     | 84  | 84  | 84  |
| 85           | 85       | 85        | 85   | 85     | 85  | 85  | 85  |
| 86           | 86       | 86        | 86   | 86     | 86  | 86  | 86  |
| 87           | 87       | 87        | 87   | 87     | 87  | 87  | 87  |
| 88           | 88       | 88        | 88   | 88     | 88  | 88  | 88  |
| 89           | 89       | 89        | 89   | 89     | 89  | 89  | 89  |
| 90           | 90       | 90        | 90   | 90     | 90  | 90  | 90  |
| 91           | 91       | 91        | 91   | 91     | 91  | 91  | 91  |
| 92           | 92       | 92        | 92   | 92     | 92  | 92  | 92  |
| 93           | 93       | 93        | 93   | 93     | 93  | 93  | 93  |
| 94           | 94       | 94        | 94   | 94     | 94  | 94  | 94  |
| 95           | 95       | 95        | 95   | 95     | 95  | 95  | 95  |
| 96           | 96       | 96        | 96   | 96     | 96  | 96  | 96  |
| 97           | 97       | 97        | 97   | 97     | 97  | 97  | 97  |
| 98           | 98       | 98        | 98   | 98     | 98  | 98  | 98  |
| 99           | 99       | 99        | 99   | 99     | 99  | 99  | 99  |
| 100          | 100      | 100       | 100  | 100    | 100 | 100 | 100 |



**DETAILS OF WIDENING  
STANDARD 35' R.C.D.G. SPANS & BENTS  
ROUTE 64 SEC. 2  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.**

DRAWN BY: W.L.W. DATE: 8-5-60  
TRACED BY: DATE: 8-5-60  
CHECKED BY: DATE: 8-5-60  
BRIDGE NO. 411 DRAWING NO. 11190



Drive one pile on each side of bents 1 and 2 and on the right side of bent 3.  
All piling shall be 12 BP 53 steel bearing piles, driven to refusal or to a minimum depth of two feet into the material designated as rock on the boring logs with a minimum bearing capacity of 40 tons per pile.  
Order lengths shown;  
Cut off or built up if necessary. Payment will be in accordance with section 804 of the Specifications. Piling in end bents shall be driven after embankment is in place. All piling shall be driven with a steam hammer.

# LAYOUT OF BRIDGE OVER BIG MULBERRY CREEK ALMA-MULBERRY RECONSTRUCTION CRAWFORD AND FRANKLIN CO.

ROUTE 64 SEC. 283  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: CHS  
TRACED BY: DATE: 7-24-61  
CHECKED BY: L.V. DATE: 8-1-61  
BRIDGE NO. 413  
DRAWING NO. 11189