

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. AID DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|--------------|-------------|--------------|-------------|--------------------|-------|--------------------|-----------|--------------|
| | | | | 6 | ARK. | | | |
| | | | | | | JOB NO. 110859 | 1 | 10 |

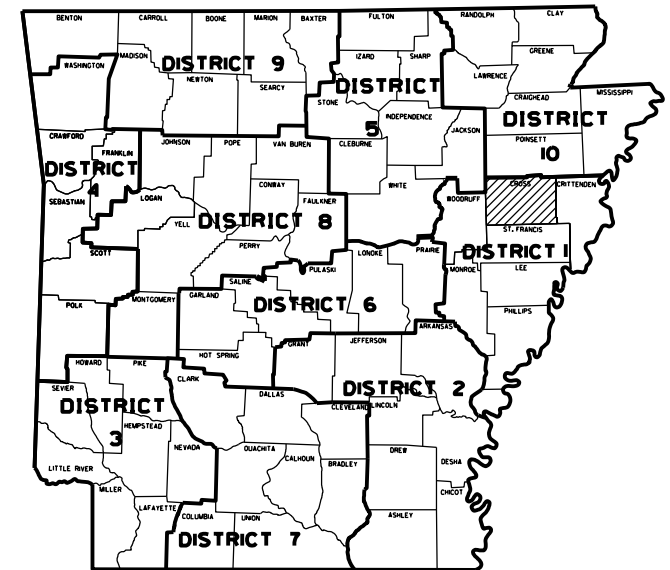
**ARKANSAS DEPARTMENT OF TRANSPORTATION
BRIDGE OPERATIONS**

ST. FRANCIS RIVER STR. RECOVERY (COLDWATER) (S)

**CROSS COUNTY
HWY. 42, SEC. 3**

JOB 110859

FEDERAL AID PROJECT STPF-0019(63)



ARKANSAS HIGHWAY DISTRICT 1



BRIDGE DATA:

BRIDGE NO. M3057
 SH 42, SEC. 03 & 42, LM 12.558
 540' (12 - 45' PRECAST
 PRESTRESSED CONCRETE SPANS)
 24' CLEAR ROADWAY.
 LAT. 35.36439 LONG. -90.57778



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| | | | | JOB NO. | 110859 | 2 10 |

INDEX OF SHEETS & GOV. SPEC.

GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

INDEX OF SHEETS

NUMBER TITLE

SHEET NO.

TITLE

- 1__ TITLE SHEET
- 2__ INDEX OF SHEETS & GOVERNING SPECIFICATIONS
- 3__ GENERAL NOTES
- 4__ QUANTITIES
- 5__ SUMMARY OF QUANTITIES AND REVISIONS
- 6__ BRIDGE PICTURES - FOR INFORMATION ONLY
- 7__ BRIDGE LAYOUT- FOR INFORMATON ONLY
- 8-10__ BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE DETAILS - FOR INFORMATION ONLY

- ERRATA__ ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
- FHWA-1273_ REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
- FHWA-1273_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
- FHWA-1273_ SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
- FHWA-1273_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
- FHWA-1273_ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
- FHWA-1273_ SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
- FHWA-1273_ SUPPLEMENT - WAGE RATE DETERMINATION
- 100-3__ CONTRACTOR'S LICENSE
- 100-4__ DEPARTMENT NAME CHANGE
- 102-2__ ISSUANCE OF PROPOSALS
- 102-3__ PREQUALIFICATION OF BIDDERS
- 103-2__ CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
- 105-4__ MAINTENANCE DURING CONSTRUCTION
- 107-2__ RESTRAINING CONDITIONS
- 108-1__ LIQUIDATED DAMAGES
- 108-2__ WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
- 306-1__ QUALITY CONTROL AND ACCEPTANCE
- 603-1__ LANE CLOSURE NOTIFICATION
- 604-1__ RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
- 604-3__ TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
- 620-1__ MULCH COVER
- JOB 110859_ BIDDING REQUIREMENTS AND CONDITIONS
- JOB 110859_ BUY AMERICA - CONSTRUCTION MATERIALS
- JOB 110859_ CARGO PREFERENCE ACT REQUIREMENTS
- JOB 110859_ DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
- JOB 110859_ LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
- JOB 110859_ MANDATORY ELECTRONIC CONTRACT
- JOB 110859_ MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
- JOB 110859_ OFF-SITE RESTRAINING CONDITIONS FOR NORTHERN LONG-EARED BATS
- JOB 110859_ PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
- JOB 110859_ ROCK FILL
- JOB 110859_ SECTION 404 NATIONWIDE 3 PERMIT REQUIREMENTS
- JOB 110859_ UTILITY ADJUSTMENTS



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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 110859 | 3 | 10 |

① GENERAL NOTES

GENERAL NOTES

1. THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 3 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.
2. EXISTING BRIDGE NO. M3057 SHALL BE REMOVED IN ACCORDANCE WITH SECTION 205. DURING REMOVAL OF THE BRIDGE, THE CONTRACTOR WILL CAREFULLY REMOVE THE TIMBER PILES FROM BENTS 2, 10, 11, 12 AND THE 45' PRECAST UNITS STILL STANDING FROM SPANS 1, 10, 11, AND 12. THESE PILES AND PRECAST UNITS WILL BE SALVAGED BY THE DEPARTMENT AND WILL BECOME PROPERTY OF THE DEPARTMENT. EACH PIECE SELECTED BY THE DEPARTMENT FOR SALVAGE SHALL BE SET ASIDE AND STORED BY THE CONTRACTOR WHO WILL THEN NOTIFY THE ENGINEER WHEN THEY ARE AVAILABLE FOR PICK UP BY STATE PERSONNEL. THE CONTRACTOR SHALL ASSIST THE DEPARTMENT WITH THE LOADING OF THE PILES AND PRECAST UNITS ONTO ARDOT HAULING VEHICLES. ALL OTHER MATERIAL FROM THE BRIDGE SHALL BECOME PROPERTY OF THE CONTRACTOR. PAYMENT OF THIS WORK WILL BE CONSIDERED SUBSIDIARY TO THE "REMOVAL OF EXISTING BRIDGE STRUCTURE" PAY ITEM.
3. IT IS ANTICIPATED THAT CONTRACTOR OPERATIONS WILL NOT DISTURB MORE THAN ONE ACRE OF LAND. IF THE CONTRACTOR'S METHOD OF ACCESS OR CONSTRUCTION OPERATIONS WILL DISTURB MORE THAN ONE ACRE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NPDES PERMIT AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION "PROTECTION OF WATER QUALITY AND WETLANDS" AT NO COST TO THE DEPARTMENT.
4. ALL PIPE LINES, POWER, TELEPHONE, AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS.
5. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING U.S. MAILBOXES WITHIN THE PROJECT LIMITS IN SUCH A MANNER THAT THE PUBLIC MAY RECEIVE CONTINUED MAIL SERVICE. PAYMENT WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE VARIOUS BID ITEMS.
7. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
8. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCES MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE, MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.
10. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | 110859 | | 4 | 10 |

① QUANTITIES

MOBILIZATION

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|----------|
| SITE 1 | BRIDGE NO. M3057 | 1.00 | LUMP SUM |
| | TOTAL JOB | 1.00 | LUMP SUM |

MULCH COVER

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|-------|
| SITE 1 | BRIDGE NO. M3057 | 0.90 | ACRES |
| | TOTAL JOB | 0.90 | ACRES |

MAINTENANCE OF TRAFFIC

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|----------|
| SITE 1 | BRIDGE NO. M3057 | 1.00 | LUMP SUM |
| | TOTAL JOB | 1.00 | LUMP SUM |

NOTE: TRAFFIC CONTROL DEVICES FOR ROADWAY SIGNAGE ALREADY IN PLACE BY DISTRICT CONTRACTORS SHALL INSTALL RIVER SIGNAGE IN ACCORDANCE WITH MUTCD MOT FOR FLAGGING OPERATIONS IF NEEDED

WATER

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|------|
| SITE 1 | BRIDGE NO. M3057 | 91.80 | M.G. |
| | TOTAL JOB | 91.80 | M.G. |

BASIS OF ESTIMATE
WATER..... 102.0 M.G./ ACRE OF SEEDING

SEEDING

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|-------|
| SITE 1 | BRIDGE NO. M3057 | 0.90 | ACRES |
| | TOTAL: | 0.90 | ACRES |

REMOVAL OF EXISTING BRIDGE STRUCTURE

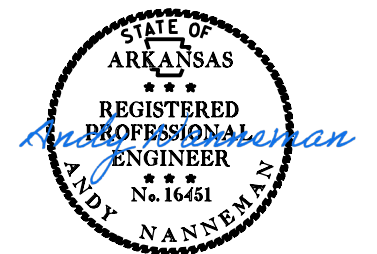
| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|----------|
| SITE 1 | BRIDGE NO. M3057 | 1.00 | LUMP SUM |
| | TOTAL: | 1.00 | LUMP SUM |

ROCK FILL

| LOCATION | DESCRIPTION | QUANTITY | UNIT |
|----------|------------------|----------|------|
| SITE 1 | BRIDGE NO. M3057 | 2,000.00 | TON |
| | TOTAL: | 2,000.00 | TON |

SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS

NOTE: REFER TO SECTION 110.05 (C) FOR THE REQUIREMENTS OF TEMPORARY WORK RAMPS AND HAUL ROADS. CONSTRUCTION OF WORK ROAD WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER TON (METRIC TON) FOR ROCK FILL. PRICE SHALL BE FULL COMPENSATION FOR FURNISHING, HAULING, PLACING, AND COMPACTING ALL EMBANKMENT MATERIALS, INCLUDING STONE OR GRAVEL AND DUMPED RIPRAP AND FOR REMOVAL AND SATISFACTORY CLEAN-UP OF THE AREA.



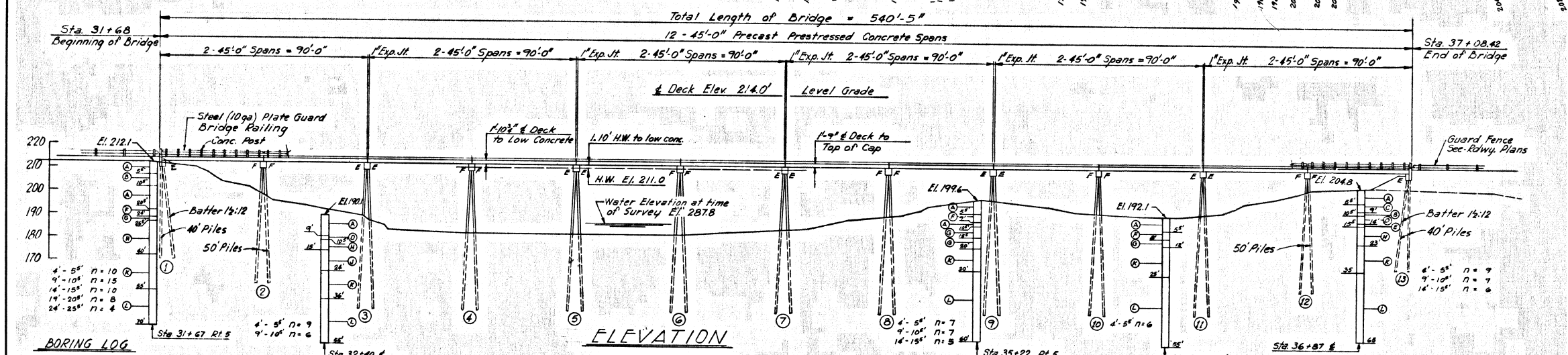
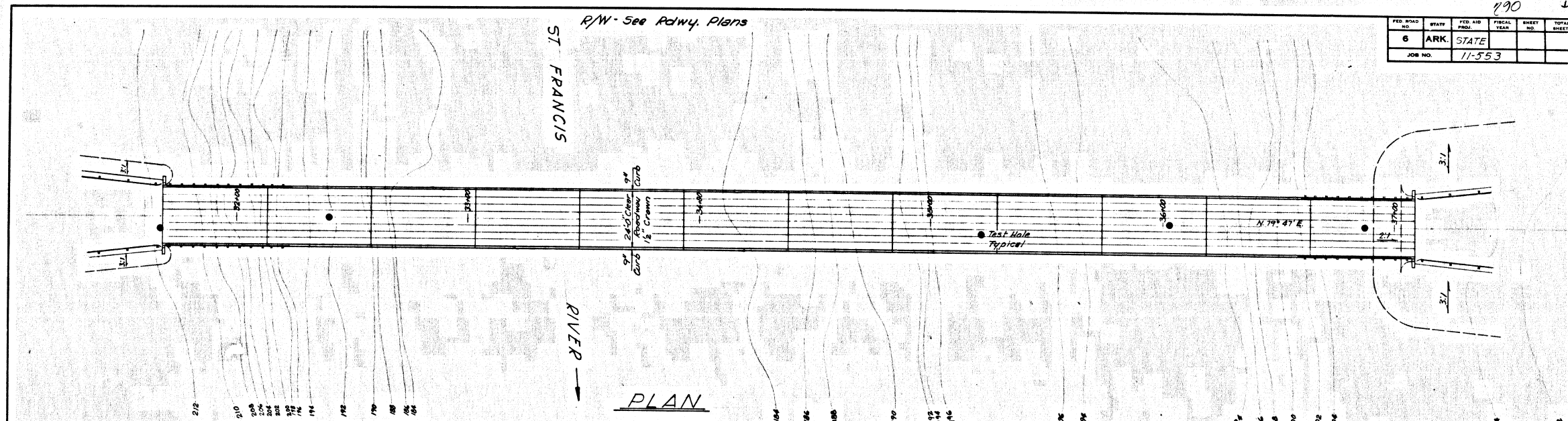
QUANTITIES

| DATE REVISED | DATE FILMED | DATE REVISED | DATE FILMED | FED. AID DIST. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
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| | | | | 6 | ARK. | | | |
| | | | | JOB NO. | | 110859 | 6 | 10 |

① BRIDGE PICTURES



| | | | | | |
|---------------|-------|----------------|-------------|-----------|--------------|
| FED. ROAD NO. | STATE | FED. AID PROJ. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 6 | ARK. | STATE | | | |
| JOB NO. | | 11-553 | | | |



- BORING LOG**
- (A) - Brown Sandy Clay
 - (B) - Brown Clay
 - (C) - Brown Sandy Clay (Mostly Clay)
 - (D) - Brown Sandy Clay & Silt (Wet)
 - (E) - Brown Silty Sand
 - (F) - Brown Sandy Clay (Wet)
 - (G) - Brown Silty Sand (Water Bearing)
 - (H) - Fine Brown Silty Sand (Water Bearing)
 - (I) - Fine Gray Sand (Water Bearing - Firm)
 - (J) - Med. Comp. Fine Gray Sand (Water Bearing)
 - (K) - Comp. Med. Coarse Gray Sand (Water Bearing)

NOTE:
Piling in Bents 3 thru 11 to be 60'-0" long.

GENERAL NOTES

Bench Mark - Nail in side, 10" Willow, 3' Right, Station 34 + 80, Elevation 181.60.

All concrete to be poured in the dry.

All piling shall be treated timber piling driven to a minimum bearing capacity of 28 tons per pile. All timber to be Pacific Coast Douglas Fir or Southern Yellow Pine.

Piles in and bents to be driven after embankment to subgrade is in place.

For Details of End Bents see Dwg. No. 5307G
For Details of Intermediate Bents see Dwg. No. 5307F
For Details of 45'-0" Prestressed Precast Concrete Spans see Dwg. No. 5307E

SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 1960, the 1966 Supplemental Specifications, and applicable Special Provisions.

DESIGN SPECIFICATIONS: AASHTO 1961

Live Loading: HS

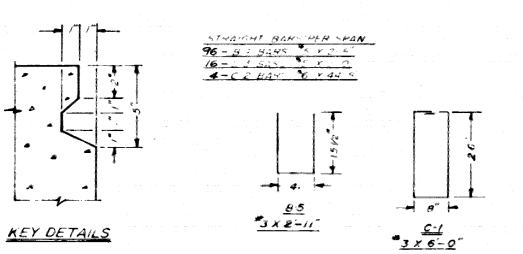
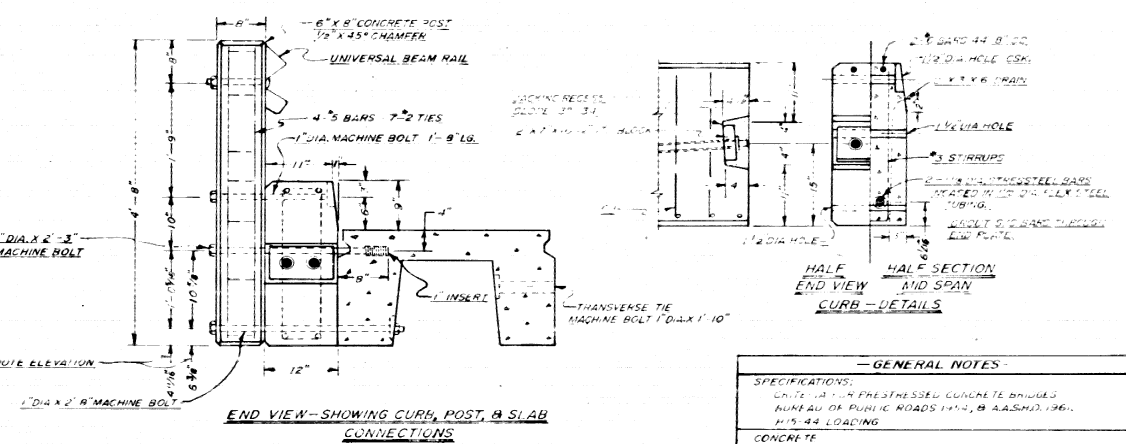
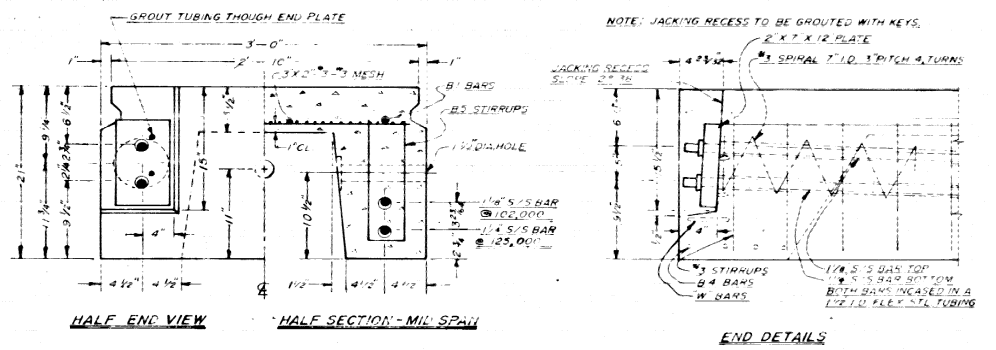
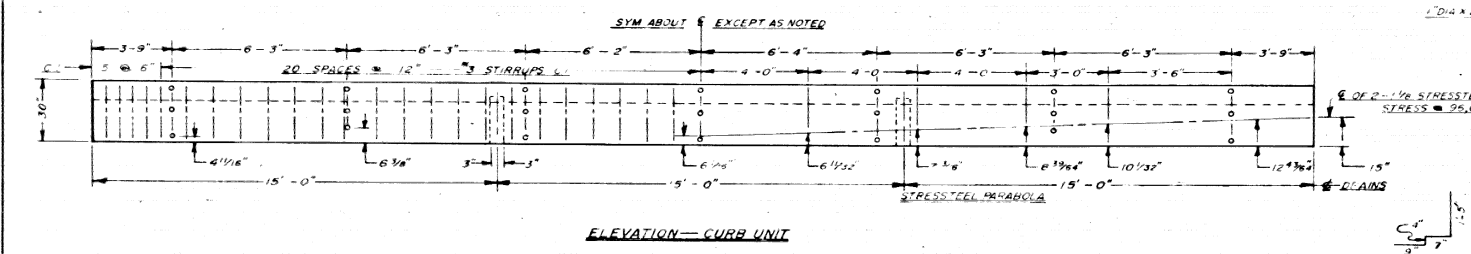
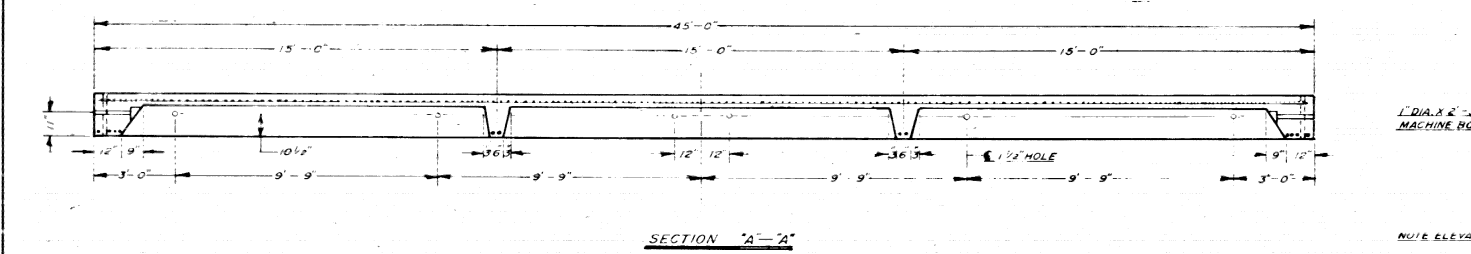
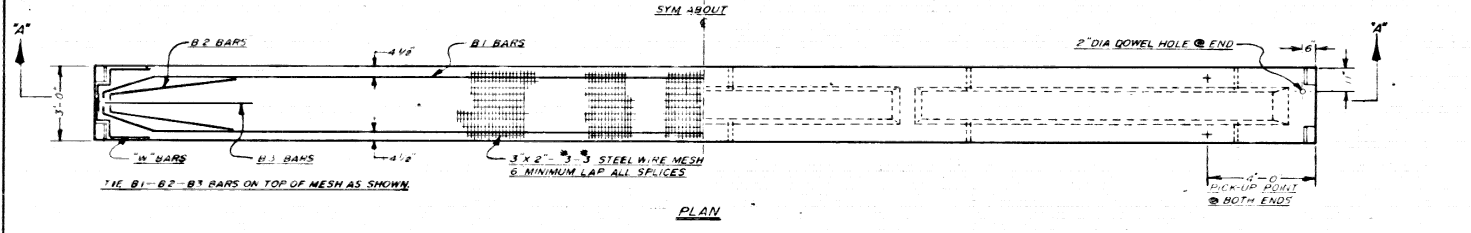
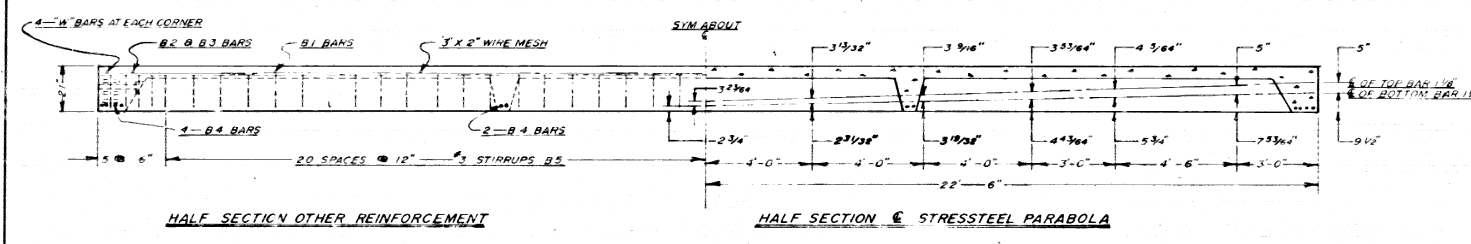
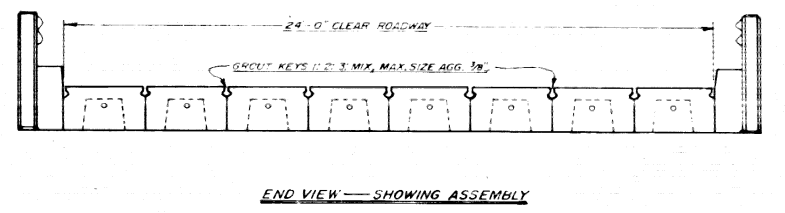
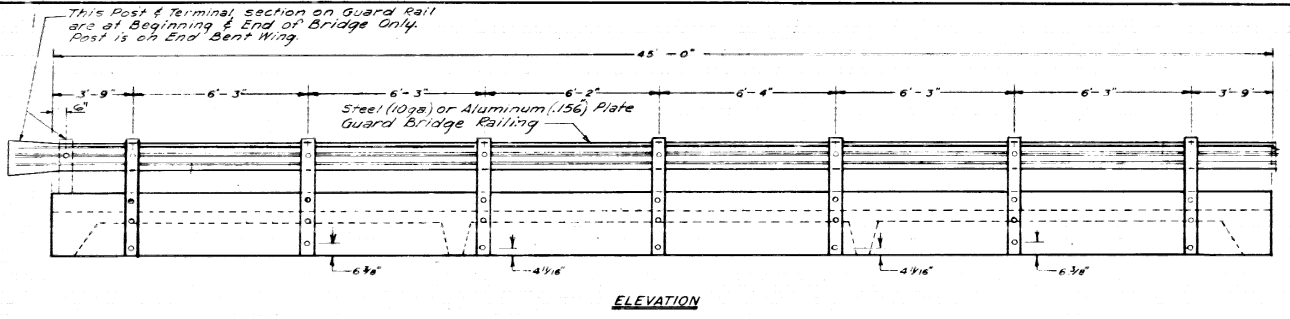
Unit Stresses: Class S Concrete (m-10) 1,200 psi
Reinforcing Steel 20,000 psi
Prestressed Units Concrete 5,000 psi, Ultimate @ 28 days
Prestressed Units Reinforcing - See Details

LAYOUT OF BRIDGE OVER ST. FRANCIS RIVER JCT. HWY. 75-EAST CROSS COUNTY ROUTE 42 SEC. 3 ARKANSAS STATE HIGHWAY COMMISSION LITTLE ROCK, ARK.

BRIDGE NO. 5151 DRAWING NO. 13978

FOR INFORMATION ONLY

| | | | | | |
|-----------------|-------|------------------|-------------|-----------|--------------|
| FED. ROAD DIST. | STATE | FED. AID PROJECT | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| R | ARK | | | 11-553 | |
| JOB NO. 11-553 | | | | | |



—GENERAL NOTES—

SPECIFICATIONS:
 CONCRETE SHALL BE 5,000 PSI AT 28 DAYS
 PRESTRESSING STEEL
 STRESS 1/8" BAR TO 102,000 PSI & 1/4" BAR TO 125,000 PSI
 AFTER CONCRETE HAS REACHED 4,000 PSI
 GROUT ALL BARS AFTER FINAL STRESS HAS BEEN APPLIED

HARDWARE
 BOLTS ETC. SHALL CONFORM TO ALL LOCAL STATE HIGHWAY DEPARTMENT SPECIFICATIONS
 F_u = 30,000 PSI F_y = 20,000 PSI T_u = 2,400 PSI

ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

DESIGNED BY: J. B. B. DRAWN BY: J. B. B.
 45'-0" PRESTRESSED PRECAST CONCRETE BRIDGE SLAB
 HIS-44 LOADING 5307 E

