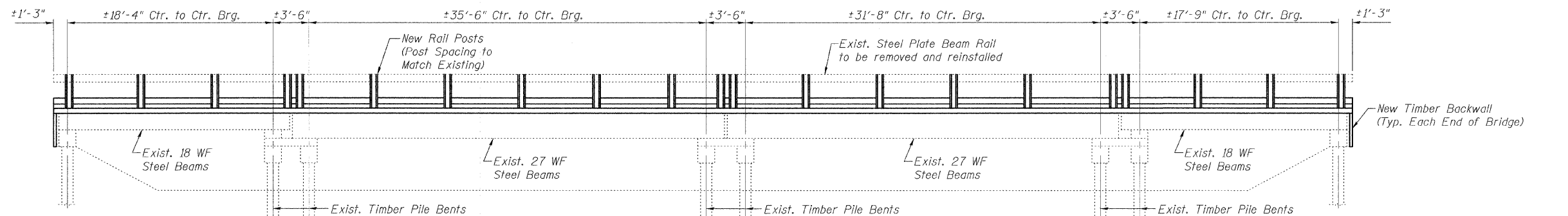
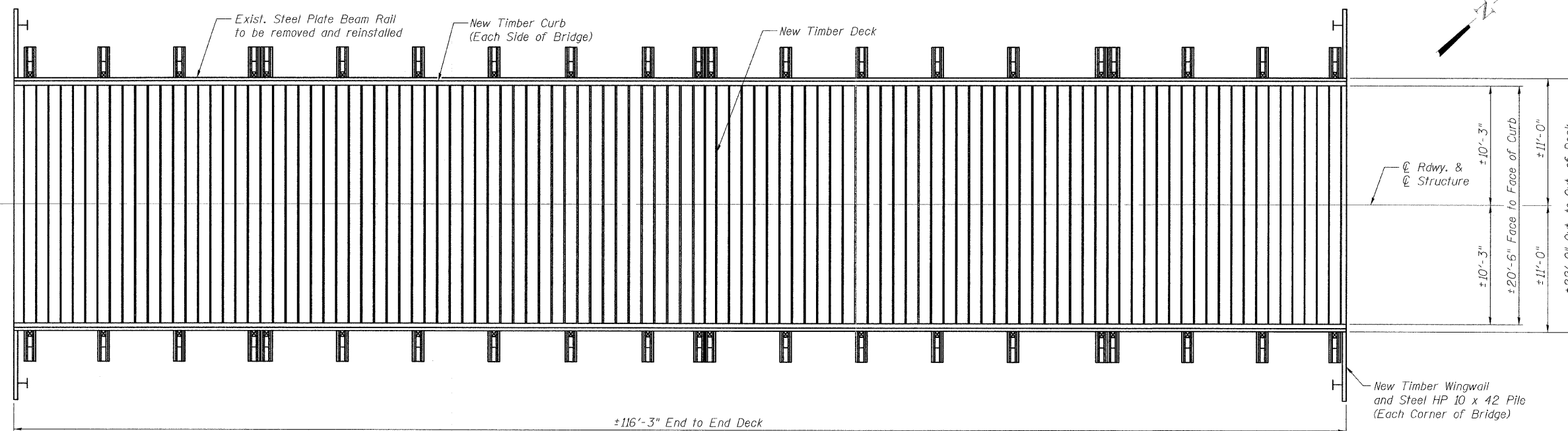


| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| | | MARION | 15 | 9 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

Existing Structure: Four span bridge with steel stringers, timber deck, steel plate beam bridge rail, and timber curbs.
Proposed Improvement: Replace timber curb, timber deck planks, and guardrail.



ELEVATION



PLAN

GENERAL NOTES

All construction shall conform to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction adopted January 1, 2007.

Plan dimensions and details relative to existing structure have been taken from field measurements and are subject to nominal variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All timber shall be treated in accordance with Section 1007.12 of the Standard Specifications. **The timber shall be treated in accordance with AWP Standard U1-07, Use Category UC4A.**

The Contractor shall predrill holes where required for driving nails. The cost of predrilling holes will be included with "Hardware".

All hardware shall be hot dip galvanized according to AASHTO M232, Class C.

STRESSES

Fb = 850 psi (Southern Pine/Douglas Fir No. 2, 5" x 5" and larger)

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|---|---------|-------|
| Remove and Re-Erect Steel Plate Beam Guardrail, Single Rail | Foot | 233 |
| Removal of Existing Bridge Deck | Each | 1 |
| Removal of Existing Backwalls and Wingwalls | Sq. Ft. | 196 |
| Treated Timber | F.B.M. | 17595 |
| Bridge Rail | Foot | 233 |
| Hardware | Pound | 1292 |
| Furnishing Steel Piles, HP 10x42 | Foot | 48 |
| Driving Piles | Foot | 48 |

* Includes bolts attaching curb to deck and rail posts, bolts attaching deck to steel beams, and fasteners connecting backwalls and wingwalls to new and existing piling.

| | |
|----------|--------|
| DESIGNED | F.L.L. |
| CHECKED | M.A.H. |
| DRAWN | F.L.L. |
| CHECKED | M.A.H. |



Date Signed: 2/11/2008
Expiration Date: 11/30/2008

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

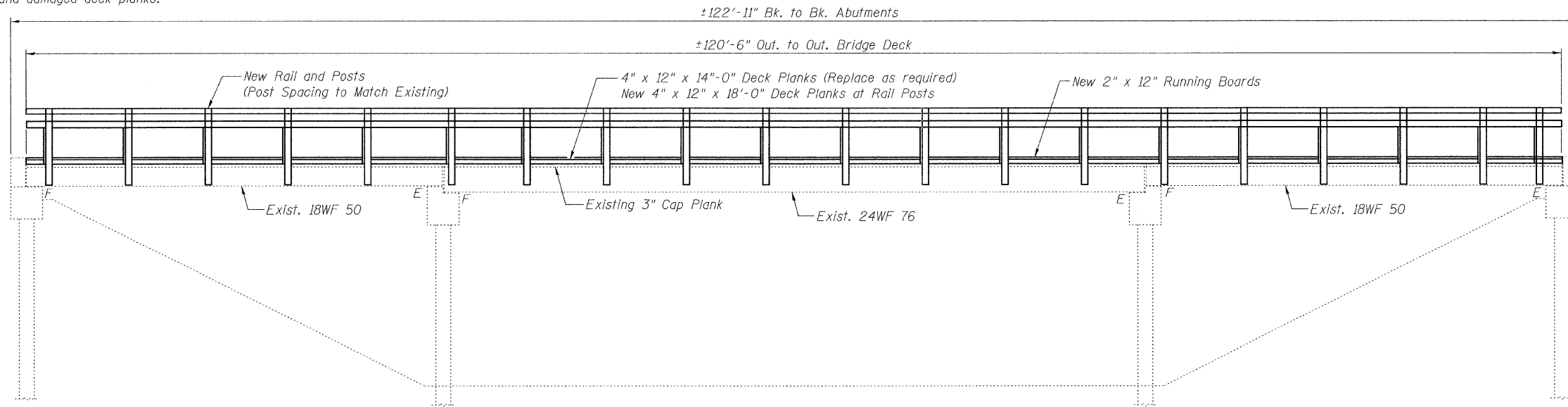
**GENERAL PLAN & ELEVATION
THUNDER BRIDGE
STEPHEN FORBES STATE PARK
MARION COUNTY
STRUCTURE NO. 061-9920**

Rev. 4-15-08

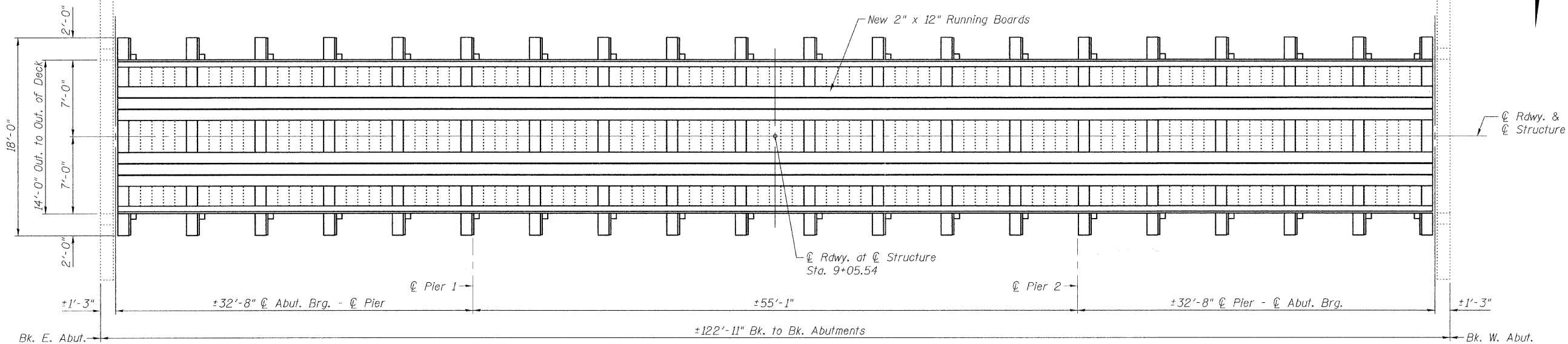
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FILE NAME = #FILES

| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | MARION | 15 | 14 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

Existing Structure: Three span bridge with steel stringers, timber deck, timber running boards, and timber guardrail.
Proposed Improvement: Clean timber deck, remove and replace timber running boards, timber curb, timber guardrail, and damaged deck planks.



ELEVATION



PLAN

GENERAL NOTES

All construction shall conform to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction adopted January 1, 2007.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All timber shall be treated in accordance with Section 1007.12 of the Standard Specifications. The timber shall be treated in accordance with AWP Standard U1-07, Use Category UC3B.

The Contractor shall predrill holes where required for driving nails. The cost of predrilling holes will be included with "Hardware".

All hardware shall be hot dip galvanized according to AASHTO M232, Class C.

| | |
|----------|--------|
| DESIGNED | F.L.L. |
| CHECKED | M.A.H. |
| DRAWN | F.L.L. |
| CHECKED | M.A.H. |

STRESSES

Fb = 850 psi (Southern Pine/Douglas Fir No. 2, 5" x 5" and larger)

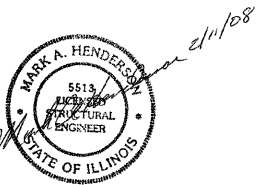
TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|-----------------------------------|---------|-------|
| Removal Of Existing Runners | Sq. Ft. | 723 |
| Removal Of Existing Curbs | Foot | 241 |
| Removal Of Existing Bridge Rail | Foot | 241 |
| * Removal Of Existing Deck Planks | Sq. Ft. | 504 |
| Cleaning Deck | Sq. Ft. | 1297 |
| Treated Timber | F.B.M. | 4838 |
| Bridge Rail | Foot | 241 |
| ** Hardware | Pound | 303 |

* Includes deck planks at rail posts and estimated 10% of remaining deck planks.

** Includes attachment of curb to deck and rail posts, deck to exist. cap plank, and runners to deck planks.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRATION DATE: 11/30/08

GENERAL PLAN & ELEVATION
BIOSTATION BRIDGE
STEPHEN FORBES STATE PARK
MARION COUNTY
STRUCTURE NO. 061-9201

Rev. 4-15-08