



Structure Inventory and Appraisal

Bridge ID: WESTSIDE-128551
 FHWA No.: 128551

| | | |
|------------|----------|-------------------------------|
| Official | SR: 36.0 | SD/FO: Structurally Deficient |
| Unofficial | SR: 36.0 | SD/FO: Structurally Deficient |

IDENTIFICATION

7 Facility Carried: LOCAL
 5B Rte. Signing Prefix: 4
 5C Level of Service: 1 - MAINLINE
 5D Inventory Route: 00000
 City: RURAL
 3 County: 024 - Crawford
 9 Location: 084371503
 5E Directional Suffix: 0 - NOT APPLICABLE
 6 Feature Intersected: EAST BOYER RIVER
 2 District: 0
 Garage: 000
 98 Border Bridge Code:
 % Responsibility: 0
 99 Border Bridge No.:

INSPECTION

90 Inspection Date: 05/07/2014
 Next Routine Insp Date: 05/07/2016
 Inspection Agency: 5 - Consultant
 93A FC Inspection Date: 05/07/2014
 92A FC Frequency: 24
 93B UW Inspection Date:
 92B UW Frequency: 0
 93C SI Date:
 92C SI Frequency: 0
 Other Non-NBI Date:
 Other Non-NBI Freq.:

Inspection Type: N/A
 91 Frequency: 24
 Next Insp Type: In-Depth
 Inspection Group: Calhoun-Burns & Associates, Inc.
 Next FC Insp.: 05/07/2016
 Next UW Insp.: NA
 Next Spec. Insp.: NA
 Next Other Insp.: NA

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel
 43B Main Span Design: 10 - Truss Thru
 45 No. Spans Main Unit: 1
 44A Appr. Span 000 - NA
 44B Appr. Span Design: 000 - NA
 46 No. of Appr. Spans: Near 0 Far 1
 107 Deck Type: 8 - Wood or Timber
 108A Wearing Surface: 8 - Gravel
 108B Membrane: 0 - None
 108C Deck Protection: 0 - None

CONDITION

58 Deck: 5 - Fair Condition (minor section loss)
 59 Super: 4 - Poor Condition (advanced deterioration)
 60 Sub: 3 - Serious Condition (primary structure affected)
 61 Channel/Channel Prot.: 6 - Bank slump. widespread minor damage
 62 Culvert: N - Not Applicable

GEOMETRIC DATA

48 Length Max Span: 60 ft.
 49 Structure Length: 85 ft.
 34 Skew: 0°
 Deck Area: 1725.5 sq. ft.
 50B Curb/Sdwb Width R: 0 ft.
 50A Curb/Sdwb Width L: 0 ft.
 51 Width Curb to Curb: 20.3 ft.
 52 Width Out to Out: 20.3 ft.
 32 Appr. Roadway width: 22 ft.
 (w/ Shoulders)
 33 Median: 0 - No median
 35 Structure Flared: 00 - No flare
 10 Vertical Clearance: 99'99"
 47 Horiz. Clearance: 20'04"
 53 Min. Vert. Clearance Over: 99'99"
 54B Min. Vert. Underclearance: 00'00"
 55 Min. Lat. Underclearance R: 00'00"
 56 Min. Lat. Underclearance L: 00'00"

APPRAISAL

67 Str. Evaluation: 2 - Intolerable - high priority of replacement
 68 Deck Geometry: 5 - Somewhat better than minimum adequacy
 69 Underclear Vert & Horiz: N - Not applicable
 71 Waterway Adequacy: 5 - Occasional Flooding - Significant Delays
 72 Approach Alignment: 4 - Meets minimum tolerable limits
 36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.
 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 113 Scour Critical: 3 - Scour Critical - Unstable

NAVIGATION DATA

38 Navigation Control:
 0 - No navigation control on waterway (bridge permit not required)
 111 Pier Protection:
 39 Vertical Clearance: 00'00"
 40 Horiz. Clearance: 000'00"

LOAD RATING AND POSTING

31 Design Load: 0 - Unknown
 63 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.
 64 Operating Rating: 16.7 Tons
 65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.
 66 Inventory Rating: 11.6 Tons
 70 Posting: 2 - 20.0-29.9% below legal loads
 41 Posting Status: P - Posted for Load

16 Latitude: 42.08655898 17 Longitude: -95.13660833

AGE AND SERVICE

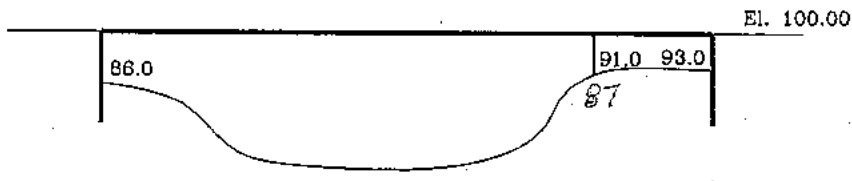
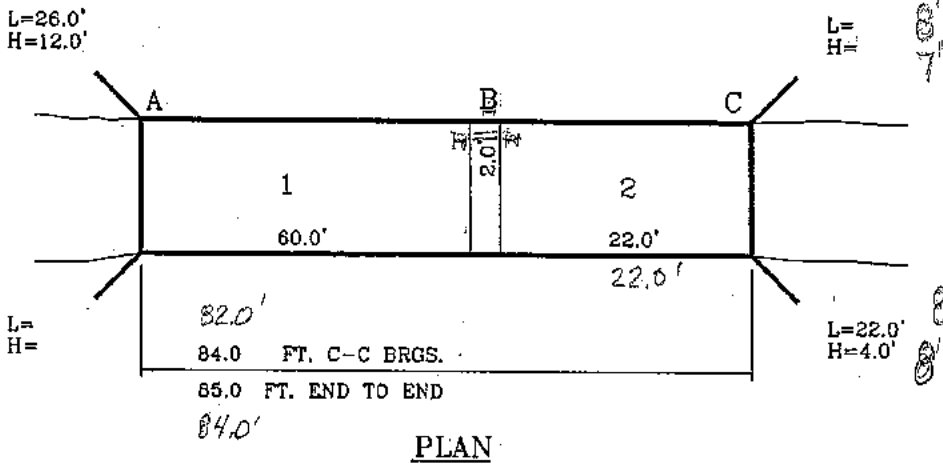
27 Year Built: 1900 Design No.: 0
 106 Year Reconstructed: 1971
 42A Type of Service on: 1 - Highway
 42B Type of Service Under: 5 - Waterway
 28A Lanes on: 2 28B Lanes under: 0
 29 ADT: 5 30 Year of ADT: 2012
 109 Truck ADT: 0 % Speed Limit: 55
 19 Detour Length: 0 mi.

FRA No. (if RR Bridge):
 Mile Post:

CLASSIFICATION

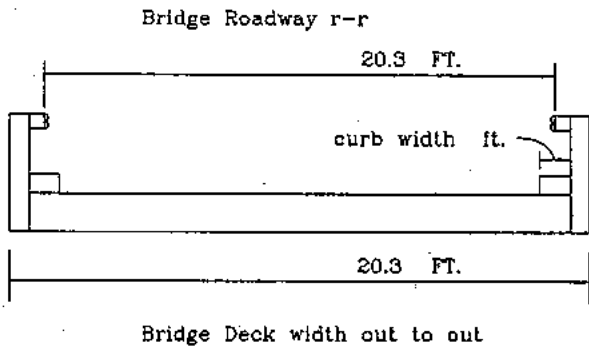
112 NBIS Length: Y
 26 Functional Class: 09 - Rural - Local
 100 STRAHNET: 0 - Not a defense highway
 101 Parallel Structure: N - No parallel structure
 102 Direction of Traffic: 2 - 2-way traffic
 22 Owner: 02 - County Highway Agency
 21 Custodian: 02 - County Highway Agency
 37 Historical Significance: 3 - May be eligible for National Register
 75A Type of Work Proposed: 31 - Replacement - Load/Geometry
 75B Work Done by: 1 - Work to be done by contract

BRIDGE PLAN AND PROFILE

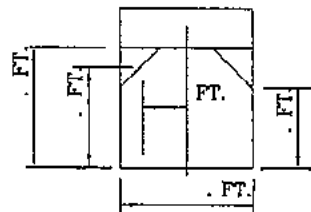


| STREAMBED ELEVATION | DATE |
|---------------------|------|
| 81.0 | 6/10 |
| 80.0 | 6/08 |
| 80.0 | 6/06 |
| 81.0 | 5/04 |
| 80.5 | 2/02 |
| 80.5 | 4/00 |
| 80.5 | 5/98 |
| 81.0 | 1/96 |

PROFILE



DECK SECTION



CLEARANCE DIAGRAM

REMARKS: _____

BRIDGE DECK DETAILS

DECK

| <u>Span</u> | <u>Pontis No. Element</u> | <u>Wearing Surface</u> | <u>Thickness Size</u> | <u>Condition State</u> | <u>Remarks</u> |
|-------------|---------------------------|------------------------|-----------------------|------------------------|---------------------------|
| 1 | 141 timber deck (bare) | | 1 1/2 (3x12) | 2 | fair condition, weathered |
| 2 | 141 timber deck (bare) | | 1 1/2 (3x12) | 1 | good condition |
| | | | | | |
| | | | | | |

BRIDGE RAILING

| <u>Span</u> | <u>Pontis No. Element</u> | <u>Total Length</u> | <u>Condition State</u> | <u>Remarks</u> |
|-------------|---------------------------|---------------------|------------------------|----------------|
| 1 | 385 painted steel | 120.0' | 2 | fair condition |
| 2 | 383 timber | 48.0' | 2 | fair condition |
| | | 48 | | |
| | | | | |

DECK/SLAB JOINTS

| <u>Loc.</u> | <u>Pontis No. Element</u> | <u>Length</u> | <u>Condition State</u> | <u>Opening Width</u> | <u>Remarks</u> |
|-------------|---------------------------|---------------|------------------------|----------------------|----------------|
| | | | | | |
| | | | | | |

ADDITIONAL DECK/SLAB ELEMENTS

| <u>Elements</u> | <u>Condition State</u> | <u>Remarks</u> |
|--------------------------------|------------------------|----------------|
| 131-Bottom of deck/slab or box | | |
| 391-Approach slab | | |
| 410 Deck/slab cracking | | |
| Drains | | |

REMARKS: paint railing, repair railing in span #1

SUPERSTRUCTURE DETAILS
(STEEL OR TIMBER BEAM)

DIMENSIONAL DATA

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|----|-----|---|------|-----------------|-----------|-----------------|---------|
| 1 | 20.3' | B | 6" | 20" | | 3/4" | S 20x66 | 8 | 8'-7" | |

Remarks: truss floorbeam, fixed ends

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|--------|----|---|------|-----------------|-----------|-----------------|---------|
| 1 | 60.0' | B | 3 3/8" | 6" | | 3/8" | S 6x12.5 | 10 | 24" | nails |

Remarks: truss stringers

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|--------|-----|------|----|-----------------|-----------|-----------------|---------|
| 2 | 22.0' | B | 5 1/2" | 15" | 1/2" | 1" | S 15x42.9 | 9 | 30 1/2" | |

Remarks: bridging at 1/2 points and ends

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|---|---|---|---|-----------------|-----------|-----------------|---------|
| | | | | | | | | | | |

Remarks: _____

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|---|---|---|---|-----------------|-----------|-----------------|---------|
| | | | | | | | | | | |

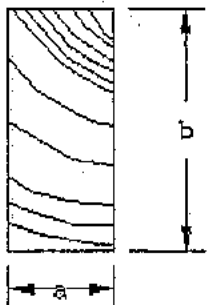
Remarks: _____

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|---|---|---|---|-----------------|-----------|-----------------|---------|
| | | | | | | | | | | |

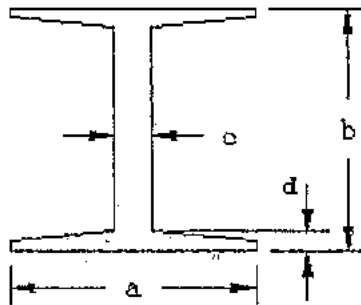
Remarks: _____

| Span | Length | Element Type | a | b | c | d | Steel beam size | No. beams | Lateral Spacing | Support |
|------|--------|--------------|---|---|---|---|-----------------|-----------|-----------------|---------|
| | | | | | | | | | | |

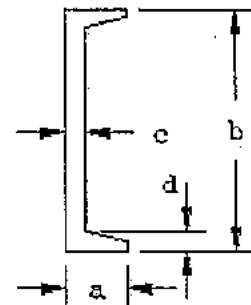
Remarks: _____



Type AT (Treated)
Type AUT (Untreated)



Type B



Type C

SUBSTRUCTURE DETAILS

REINFORCED CONCRETE ABUTMENTS AND WINGWALLS AND BACKWALLS

| Pontis No./Element | Location | Length | Height | Condition | |
|--------------------|----------|--------|--------|-----------|---------|
| | | | | State | Remarks |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

TIMBER/STEEL ABUTMENTS, WINGWALLS AND BACKWALLS

| Pontis No./Element | Location | Length | Height | Condition | |
|-------------------------|----------|---------------------|---------------------|-----------|-------------------------------------|
| | | | | State | Remarks |
| 312 timber backing wall | A | 24.0' ²⁴ | 10.0' | 2 | 3x12, fair condition, soil pressure |
| 312 timber backing wall | C | 24.0' ²⁴ | 6.0' ⁶ | 1 | 3x12, good condition |
| 313 timber wingwall | A | 26.0' ²⁶ | 12.0' ¹² | 2 | fair condition |
| 313 timber wingwall | C | 22.0' ¹⁶ | 4.0' ⁸ | 2 | fair condition |

PIER/PILE CAPS

| Pontis No./Element | Location | Type | Length | Height | Condition | |
|------------------------|----------|------|-----------------------|---------------------|-----------|----------------|
| | | | | | State | Remarks |
| 238 red lead abut. cap | A | B | 20.3' | 0.8' | 2 | fair condition |
| 244 red lead pier cap | B | B | 20.3' ^{20.3} | 0.8' ^{0.8} | 2 | fair condition |
| 314 timber pier cap | B | A | 20.3' ^{20.3} | 1.0' ^{1.0} | 2 | fair condition |
| 238 red lead abut. cap | C | B | 20.3' ^{20.3} | 0.8' ^{0.8} | 1 | good condition |

PIER/ABUTMENT - PILE/BENT

| Pontis No./Element | Location | Total Length | Condition | | Remarks |
|--------------------------|----------|---|-----------|--|--|
| | | | State | | |
| / timber trestle pile | A | 6 @ 23.0 = 138.0' | 2 | | 12" Ø, fair condition |
| 327 timber trestle pile | B | 12 @ 21.0 = 252.0' | 9@2 | | 12" Ø, poor condition |
| | | | 2@4, 1@3 | | medium decay, truss - pile #3, 6 advanced decay (no value), 1, 2, 5 moderate decay |
| 247 redlead trestle pile | B | 6 @ 21.0 = 126.0' ^{40.0 = 240.0} | 1 | | 8" x 8" h-pile, good condition |
| 327 timber trestle pile | C | 6 @ 18.0 = 108.0' ^{30.0 = 150.0} | 1 | | 12" Ø, good condition |

SUBSTRUCTURE SMART FLAGS

| Pontis No. | Description | Condition | | Remarks |
|------------|----------------------------------|-----------|----|---------|
| | | Yes | No | |
| 405 | Structure Impact | | X | |
| 412 | Streambed Movement (Degradation) | | X | |
| 413 | Streambed Scour | | X | |
| 414 | Abutment Erosion | | X | |
| 415 | Settlement | | X | |

SUBSTRUCTURE DETAILS

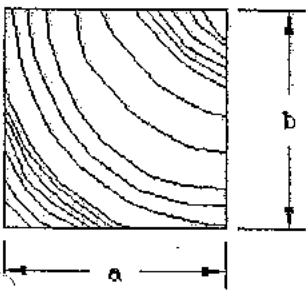
PIER/PILE CAP DIMENSIONS (IN. U.I.A./LA)

| Location | Type | a | b | c | d | e | f |
|----------|------|---------|-----|-----------|--------|-----------|------|
| A | B | 13 1/2" | 10" | 3/8" | 2 3/4" | 1/2" | 1/2" |
| B | B | 13 1/2" | 10" | 3/8" | 2 3/4" | 1/2" | 1/2" |
| B | A | 12" | 12" | | | | |
| C | B | 13 1/2" | 10" | 3/8" 1/2" | 2 3/4" | 1/2" 1/4" | 1/2" |
| | | | | | | | |
| | | | | | | | |

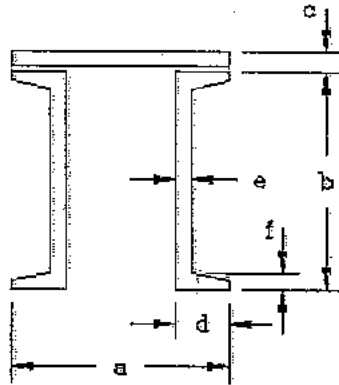
} same with channel on top



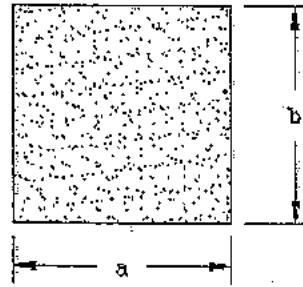
REMARKS:



Type A



Type B



Type C

| Project Number: | | CLIFORD COUNTY DAY LABOR PROJECT SHEET | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date: December 16, 2009 | | | | | | | |
|--------------------------------------|----------------------|--|---|-------------------------------------|----------|-----------|---------|-----------|-------------|---------------------------------|----|----|----|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|-----------------------------|-------------|-------------|--------|----|----------|------------|------------|
| Location: 341109w | | | | | | | | | | | | | | | Section: 15 | | | | | | | | | | | | | Township: Westside | | | | | | | | | |
| Description of Work: | | Drive steel H pile in corpaol on truss bridge and replace old wood approach stringers with used 15"x30" l beams with diaphragms. | | | | | | | | | | | | | | | | | | | | | | | | | | | | FHWA No: 128551 | | | | | | | |
| For the month of: Nov. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Bridge Type: truss | | | | | | | |
| Employee | Hours worked per day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total Hours | Hourly Rate | Totals | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | 31 | | | |
| Terry Lally | | | | | | | | | 8 | 8 | 8 | | | | | 8 | 8 | 4 | 8 | 8 | | | | | | | | | | | | | | 71 | \$ 44.81 | \$3,181.51 | |
| Dan Blunk | | | | | | | | | 8 | 8 | 8 | | | | | 8 | 8 | 4 | 8 | 8 | | | | | | | | | | | | | | 71 | \$ 38.90 | \$2,761.90 | |
| Chris Clark | | | | | | | | | 8 | 8 | 8 | | | | | 8 | 8 | 4 | 8 | 8 | | | | | | | | | | | | | | 68 | \$ 31.93 | \$2,171.24 | |
| Ken Miller | | | | | | | | | 8 | 8 | 8 | | | | | 8 | 8 | 4 | 8 | 8 | | | | | | | | | | | | | | 68 | \$ 30.28 | \$2,059.04 | |
| Tim Beery | | | | | | | | | 8 | 8 | 8 | | | | | 8 | 8 | 4 | 8 | 8 | | | | | | | | | | | | | | 71 | \$ 22.26 | \$1,580.46 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ - | \$0.00 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ - | \$0.00 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ - | \$0.00 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ - | \$0.00 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Labor Cost: \$11,754.15 | | | | | | | |
| Equipment | Hours worked per day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Total Hours | Hourly Rate | Totals | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | 31 | | | |
| #83 Cat Excavator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 85.14 | \$0.00 |
| #73 Link Bolt Crane | | | | | | | | | 4 | 3 | 4 | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | 15 | \$ 115.15 | \$1,727.25 |
| #103 Tele-Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 105.37 | \$0.00 |
| #75 IH Dozer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 52.17 | \$0.00 | |
| #59 J. D. Dozer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | \$ 33.32 | \$98.96 |
| #32 J.D. crawler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | \$ 34.78 | \$104.34 |
| #07 air comp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | \$ 10.00 | \$100.00 |
| #63 Welder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | \$ 10.00 | \$200.00 |
| #18 Tool Truck | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 44 | \$ 6.94 | \$305.36 |
| #68 Cat Excavator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 85.14 | \$0.00 |
| #54 Int. Flatbed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 36.45 | \$0.00 |
| #27 Ford semi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | \$ 77.47 | \$0.00 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Equipment Costs: \$2,536.91 | | | | | | | |
| No. of pieces | Size | Materials List | | Sockpile location or purchased from | New/Used | No. Units | * Units | Unit Cost | Total Costs | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Description of materials used | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 15"x24' | I beam | | stock | used | 9 | each | \$ 120.00 | \$ 1,080.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | 7/8"x2 1/2" | bolts & nuts | | stock | New/ | 81 | each | \$ 0.70 | \$ 56.70 | Materials (page 1): \$ 1,271.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | lbs. | #60 ring shank spikes | | stock | | 20 | lbs | \$ 2.50 | \$ 50.00 | Materials (page 2): \$ 5,708.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 1/2"x10" | bolts & nuts | | stock | | 7 | each | \$ 0.98 | \$ 6.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 7/8" | washers | | stock | | 42 | each | \$ 0.72 | \$ 30.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24' | 12' | felt fabric | | stock | | 24 | ln.ft. | \$ 0.68 | \$ 16.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | lbs. | welding rods | | stock | | 10 | lbs. | \$ 2.60 | \$ 26.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 3/4" | 2.5" bolts | | | | 8 | each | \$ 0.61 | \$ 4.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 0 | | \$ - | \$ - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material Costs (page 1): \$ 1,271.00 | | | | | | | | | | Total Labor Costs: \$11,754.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Total Material Cost: \$6,979.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Equipment Costs: \$2,536.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Total Costs: \$21,271.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Crawford County Secondary Roads Material List | | | | Project No.: | | | | |
|---|---------|--------------------------------|--|--------------|-----------|--------------------|-----------|-------------------|
| No. Pieces | Size | Description of Materials Used: | Stockpile Location or Direct Purchase From | New or Used | No. Units | Units *(see below) | Unit Cost | Total Cost |
| | 3"x12" | 16' Plank | Denison | new | 0 | In.ft. | \$ 3.92 | \$0.00 |
| 14 | 3"x12" | 18' Plank | Denison | used | 252 | In.ft. | \$ 2.50 | \$630.00 |
| | 3"x12" | 20' Plank | Denison | new | 0 | In.ft. | \$ 3.92 | \$0.00 |
| | 3"x12" | 22' Plank | Denison | new | 0 | In.ft. | \$ 3.60 | \$0.00 |
| 20 | 3"x12" | 24' plank | Denison | used | 480 | In.ft. | \$ 2.50 | \$1,200.00 |
| | 4"x12" | 16' plank | | | 0 | In.ft. | \$ 7.41 | \$0.00 |
| | 4"x12" | 24' plank | | | 0 | In.ft. | \$ 7.41 | \$0.00 |
| | 4"x16" | any length | | | 0 | In.ft. | \$ 7.41 | \$0.00 |
| | | | | | 0 | | \$ - | \$0.00 |
| | 10"x10" | Wood Cap | | | 0 | In.ft. | \$ 9.17 | \$0.00 |
| | 12"x12" | Wood Cap | | | 0 | In.ft. | \$ 13.20 | \$0.00 |
| | | | | | 0 | | \$ - | \$0.00 |
| | 4"x6" | 12' nailer | | | 0 | each | \$ 26.05 | \$0.00 |
| 1 | 4"x6" | 16' nailer | | | 1 | each | \$ 33.14 | \$33.14 |
| | | | | | 0 | | \$ - | \$0.00 |
| | 2"x4" | any length | | | 0 | In.ft. | \$ 0.28 | \$0.00 |
| | 2"x6" | any length | | | | In.ft. | \$ 0.39 | \$0.00 |
| | 1/2" | 4'x8' plywood | | | 0 | each | \$ 11.37 | \$0.00 |
| | 3/4" | 4'x8' plywood | | | 0 | each | \$ - | \$0.00 |
| | | | | | 0 | | \$ - | \$0.00 |
| 2 | 25' | wood piling | | used | 2 | each | \$ 80.00 | \$160.00 |
| 6 | 30' | wood piling | | | 6 | each | \$ 280.71 | \$1,684.26 |
| | 35' | wood piling | | | 0 | each | \$ 386.65 | \$0.00 |
| | 40' | wood piling | | | 0 | each | \$ 296.37 | \$0.00 |
| | | | | | 0 | | \$ - | \$0.00 |
| 6 | 8"x8" | 40'steel@36lb./ft. | | | 6 | In. ft. | \$ 10.61 | \$63.66 |
| | 8"x8" | 50'steel @36lb./ft | | | 0 | In. ft. | \$ 7.99 | \$0.00 |
| Total Materials (page two) : | | | | | | | | \$3,771.06 |

| Crawford County Secondary Roads Material List | | | | Project No.: | | | | |
|---|--------------|--------------------------------|--|--------------|-----------|--------------------|-----------|-------------------|
| No. Pieces | Size | Description of Materials Used: | Stockpile Location or Direct Purchase From | New or Used | No. Units | Units *(see below) | Unit Cost | Total Cost |
| | 10"x10" | 40' Steel H@42 lb./ft. | Denison | new | 0 | lin. Ft. | \$ 8.50 | \$0.00 |
| | 10"x10" | 50' Steel H@42 lb/ft | Denison | new | 0 | lin. Ft. | \$ 15.52 | \$0.00 |
| 1 | 10" | 40' channel @15.3 lbs./ft. | Denison | new | 40 | lin. Ft. | \$ 3.13 | \$125.20 |
| 1 | 12" | 40' channel @15.3 lbs./ft. | Denison | new | 20 | lin. Ft. | \$ 4.90 | \$98.00 |
| | 1/2"x14" | 10' steel plates | Denison | new | 0 | lin. Ft. | \$ 6.43 | \$0.00 |
| 1 | 25' | Steel Caps | | | 1 | each | \$ 565.40 | \$565.40 |
| 24 | 30 1/2" | Diaphragms | | | 24 | each | \$ 31.04 | \$744.96 |
| | 38 1/2" | Diaphragms | | | 0 | each | \$ 37.43 | \$0.00 |
| 8 | 85lb. | rail posts | | | 8 | each | \$ 12.75 | \$102.00 |
| | straight 20' | 7 ga.sheet piling | Denison | new | 0 | each | \$ 123.22 | \$0.00 |
| | 45degree | sheet piling | Denison | new | 0 | each | \$ 151.40 | \$0.00 |
| | 90degree | sheet piling | Denison | new | 0 | each | \$ 139.80 | \$0.00 |
| | | | | | 0 | | | \$0.00 |
| 1 | 13' | gaurdrail | | used | 13 | lin. Ft. | \$ 1.00 | \$13.00 |
| 2 | 26' | gaurdrail | | | 52 | lin. Ft. | \$ 1.00 | \$52.00 |
| | 25' | W-beam gaurdrail | | new | 0 | lin. Ft. | \$ 4.95 | \$0.00 |
| | 2' | gaurdrail terminal ends | | new | 0 | each | \$ 55.00 | \$0.00 |
| | 1/4" | 2 1/2"x2 1/2" angle 20' | Denison | new | 0 | lin. Ft. | \$ 0.78 | \$0.00 |
| | 3/8" | 3"x3" angle 20' | Denison | new | 0 | lin. Ft. | \$ 1.35 | \$0.00 |
| | | | | | 0 | | | \$0.00 |
| | 1/2" | wire cable | Denison | new | 235 | lin. Ft. | \$ 0.75 | \$176.25 |
| | 1/2" | cable clamps | Denison | new | 32 | each | \$ 1.91 | \$61.12 |
| | | | | | 0 | | | \$0.00 |
| | 1/2" | 20' rebar | Denison | new | 0 | lin. Ft. | \$ 0.16 | \$0.00 |
| | 5/8" | 20' rebar | Denison | new | 0 | lin. Ft. | \$ 0.24 | \$0.00 |
| | 5/8" | 20" rebar with Epoxy | Denison | new | 0 | each | \$ 0.41 | \$0.00 |
| | | | | | 0 | | | \$0.00 |
| Total Materials (page three) : | | | | | | | | \$1,937.93 |