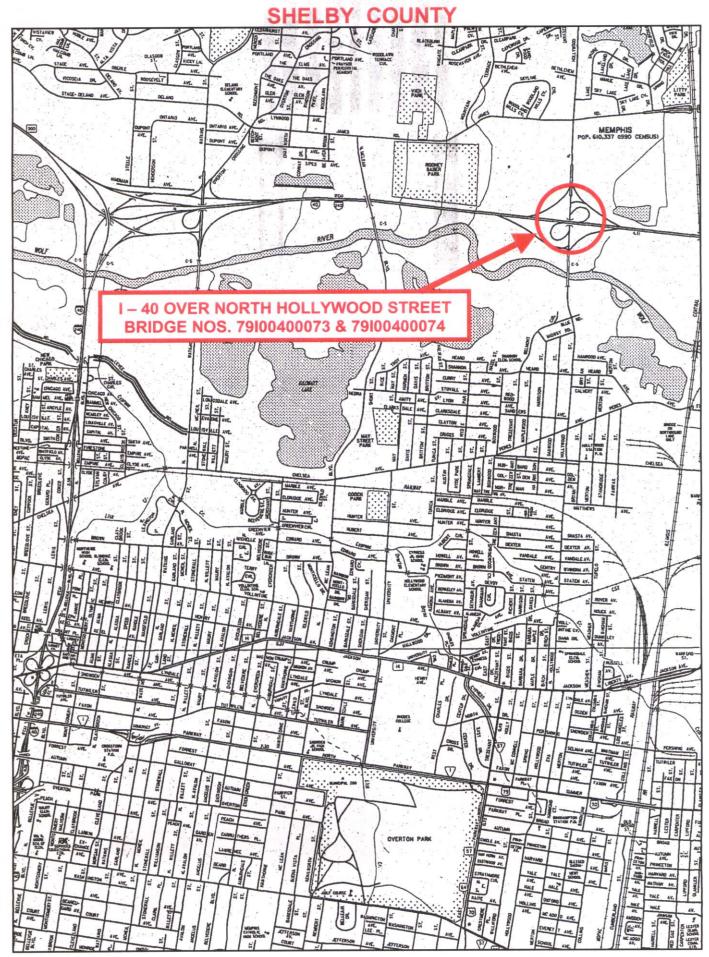
20月月日日 10月1日





CONDITION

41 - Structure Open/Posted/Closed A - Open, no restriction

| 58 - Deck | 7 - GOOD CONDITION - some minor problems. |
|---------------------------------|--|
| 59 - Superstructure | 6 - SATISFACTORY CONDITION - structural elements show some minor deterioration. |
| 60 - Substructure | 6 - SATISFACTORY CONDITION - structural elements show some minor deterioration. |
| 61 - Channel/Channel Protection | N - Not applicable. |
| 62 - Culverts | N - Not applicable. Used if structure is not a culvert. |
| 521 - Overall Bridge Cond | F - Fair |
| | |

Load Rating / Post

| AASHTOWare BrR (4" asphalt) |
|--|
| LRFR-RF - LOAD & RESISTANCE FACTOR RATING (RF) - HL93 |
| 8 - Load and Resistance Factor Rating (LRFR) rating reported by rating factor (RF) method using HL-93 loadings |
| 34.02 |
| 1.05 |
| 8 - Load and Resistance Factor Rating (LRFR) rating reported by rating factor (RF) method using HL-93 loadings |
| 45.36 |
| 1.40 |
| |
| |
| 5 - Equal to or above legal loads |
| |
| |
| |
| |

Notes

| Load Rating Assumpt | ions and QA Checklist | - Consultant Calc | ulations | |
|-------------------------|-----------------------|-------------------|----------|---|
| Bridge ID | Bridge Loc | ation | | |
| Load Rating Date | Inspection Date | Current AI | OTT Cons | idered |
| Plans Set | | | | |
| Consultant | | | | |
| | | Assumptions | QA | APPROVED By Rebecca Hayworth, P.E. at 10:46 am, Feb 29, 20 |
| Dimensions match pla | ns & field conditions | | | REVIEWED By Rebecca Hayworth, P.E. at 2:59 pm, Feb 12, 202 |
| Cross section Checked | | | | |
| Framing plan Checked | | | | |
| Material Properties Ch | ecked | | | |
| Condition Assumed fo | r Load rating | | | |
| Deterioration/Damage | e Captured | | | |
| Shear Considered | | | | |
| Rails Distribution | | | | |
| Asphalt Thickness (incl | nes) | | | |
| Asphalt Considered Fie | eld Verified | | | |
| Distribution Factors Ca | alc Method | | | |
| Impact Factor | | | | |
| AASHTO Trucks & TDO | T Trucks Rated | | | |
| Comments | | | | |

Bridge Maintenance Recommendations

Bridge Location No.: 79 - 10040 - 0759 L Over/Under Pass No. 79 - 02821 - 0532 Co. Route Log Mile Bridge Number: 79100400074 Crossing: Region: 04 Road Name: District: 45 Spec.Case: 0 Road Name #2: NORTH HOLLYWOOD ST. Maint.Resp.: 01 Co.Seq: 01 Bridge Rating: FAIR ' x t a) Inspection Cycle: 16 County: Shelby Width Barrels Length Inspection Date: 8/12/2003 City: Comments:

Maintenance Recommendations:

Maintenance Completed: by/date

| 233 | UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT NIP |
|-----|---|
| 001 | LEVEL APPROACH NO1 & 2 |
| 009 | CLEAN DRAINS AT APPROACH NO1 |
| 228 | APPROACH GUARDRAILS ARE SUBSTANDARD |
| 226 | GUARDRAIL TERMINALS AT APPROACH NO. 1 & 2 ARE SUBSTANDARD |
| 069 | REPAIR TEXTURE COAT ON SPAN NOALL (NEEDS REPAINTING) |
| 171 | REPAIR BACKWALLS ON ABUTMENT NO2 |
| | |
| | |
| | |
| | |
| | |

| COMPLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECT | ION DATE. |
|---|-----------|
| INITIAL AND DATE RECOMMENDATIONS WHEN COMPLETED. | |
| MAINTENANCE ACTIVITIES ARE COMPLETED (DATE) BY | · |
| MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) | BY |
| MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) | |
| EXPLANATIONS AND COMMENTS: | |

Page 1 of 1

Page No.

Bridge Maintenance Recommendations

Page No.____ Page 1 of 1

| Bridge Location No.: | 79 - | I0040 | - | 0759 | Ι |
|----------------------|------|--------------|---|------|---|
|----------------------|------|--------------|---|------|---|

Co. Route Log Mile

Crossing:

Road Name: Road Name #2: NORTH HOLLYWOOD ST. Bridge Rating: FAIR Inspection Cycle: 15 County: Shelby Inspection Date: 9/12/01 City:

Comments:

Maintenance Recommendations:

Over/Under Pass No.: 79 - 02821 - 0532

| Bridge Numb | ber: | 7910040007 | 4 |
|--------------|------|------------|-----|
| Region: | 04 | | |
| District: | 45 | Spec.Case | 0 |
| Maint.Resp.: | 01 | Co.Seq: | 01 |
| | a | ' x | t |
| Barrels | | Length Wi | dth |

Maintenance Completed by/date

| 228 | APPROACH GUARDRAILS ARE SUBSTANDARD |
|-----|--|
| 226 | GUARDRAIL TERMINALS AT APPROACH NO. 1 & 2 ARE SUBSTANDARD |
| 007 | CLEAN AND SEAL JOINT AT APPROACH NO1 & 2 |
| 001 | LEVEL APPROACH NO1 |
| 009 | CLEAN DRAINS AT APPROACH NO1 |
| 069 | REPAIR TEXTURE COAT ON SPAN NOALL (NEEDS REPAINTING) |
| 171 | REPAIR BACKWALLS ON ABUTMENT NO2 |
| 233 | UNDERPASS SUBSTRUCTURE PROTECTION GUARDRAILS ARE NON-EXISTENT |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| COM | PLETION NOTIFICATION: RETURN WITHIN 6 MONTHS OF INSPECTION DATE. |
| | AL AND DATE RECOMMENDATIONS WHEN COMPLETED. |
| | TENANCE ACTIVITIES ARE COMPLETED (DATE) BY |

MAINTENANCE ACTIVITIES ARE PARTIALLY COMPLETED (DATE) _____ BY_____ MAINTENANCE ACTIVITIES ARE INCOMPLETE, SCHEDULED FOR (DATE) _____

EXPLANATIONS AND COMMENTS:

| EDIDOT | Bridge Condi | ition | Revised 09/12/2001 |
|---|-------------------------|------------------|--------------------|
| STATE OF TENNESSEE | Coding For | County: | 79 |
| DEPARTMENT OF TRANSPORTATI | ON | Route: | 10040 |
| - · · · · · · · · · · · · · · · · · · · | | Special Case: | 0 |
| Bridge Number: (Includes Item 5A) | 791004000741 | County Sequence: | 01 |
| Feature Intersected: | I40-LL / N HOLLYWOOD ST | Log Mile: | 7.59 |

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

| ITEM # | DESCRIPTION | VAL | .UE | | NDITION CODING GUIDELINES |
|---|---|---------|-------------|---|---|
| 90 | INSPECTION DATE | 09/12 | /2001 | (Values for Coding Items 58, 59, 60 and 62) | |
| | | 8112 | 42003 | N | NOT APPLICABLE |
| 10 | MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS) | 99 FT | . 99 IN. | 9 | EXCELLENT CONDITION |
| | - | FT. | | 8 | VERY GOOD CONDITION - NO PROBLEMS NOTED. |
| 520 | MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS) | 99 FT | . 99 IN. | 7 | GOOD CONDITION - SOME MINOR PROBLEMS. |
| 36 | TRAFFIC SAFETY FEATURE | | IN. | 6 | SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS. |
| •• | Br. Rail Trans. Appr. Rail | | SPEED LIMIT | 5 | FAIR CONDITION - ALL PRIMARY |
| | 1 0 0 | 0 | 55 | | STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR. |
| 41 | STRC OPEN/CLOSED/POST | ED | A | 4 | POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR. |
| 58 | DECK | | 7 | 3 | |
| | | | | | DETERIORATION, SPALLING OR SCOUR HAVE SERIOURSLY AFFECTED PRIMARY |
| 59 | SUPERSTRUCTURE | | 7 | | STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE |
| 60 | SUBSTRUCTURE | | 7 | | MAY BE PRESENT. |
| 61 | CHANL/CHANL PROTECTIO | N | N | 2 | CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE |
| 62 | CULVERT AND RETAIN WAL | -L | N | | PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS |
| | | | | | CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL |
| 71 | WATERWAY ADEQUACY | | N | | CORRECTIVE ACTION IS TAKEN. |
| 72 | APPROACH RDWY ALIGNME | | 8 | 1 | "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL |
| | (USE VALUES OF 3, 6, OR 8) | | | | COMPONENTS OR OBVIOUS VERTICAL OR |
| 521 | OVERALL CONDITION (Circ | le One) | | | HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS |
| | GOOD FAIR | POOR | CRITICAL | | CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE. |
| | | 81 | 1212003 | 0 | FAILED CONDITION - OUT OF SERVICE AND |
| TEAM LEADER SIGNATURE REVIEW DATE BEYOND CORRECTIVE ACTION. | | | | | |

| R TDOT | Underpass Condi | tion | Revised 09/21/200 |
|--------------------------------------|-------------------------|------------------|-------------------|
| STATE OF TENNESSEE | Coding Form | County: | 79 |
| DEPARTMENT OF TRANSPORT | 0 | Route: | 02821 |
| | | Special Case: | 0 |
| Bridge Number: (Includes Item 5A) | 791004000742 | County Sequence: | 01 |
| Feature Intersected: | I40-LL / N HOLLYWOOD ST | Log Mile: | 5.32 |

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

| ITEM # | DESCRIPTION | VALUE | UNDERPASS SAFETY FEATURES |
|--------|---|---|--------------------------------------|
| 90 | INSPECTION DATE | 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (A) TYPE UNDERPASS BARRIER |
| | | 811212003 | None Needed or N/A |
| 10 | MINIMUM V.C. OVER ROADWAY (ROADWAY + SHOULDERS) | 16 FT. 3 IN. | |
| | | FT IN. | Revised Barrier Type |
| 520 | MINIMUM V.C. OVER ROADWAY (EXCLUDES SHOULDERS) | 16 FT. 3 IN. | (B) ADEQUACY OF N BARRIER OR RAIL |
| | | FT IN. | |
| 47 | TOTAL HORIZONTAL UNDERCLEARANCE | 76 FT. / IN. | (C) ADEQUACY OF N TRANSITIONS |
| 54 | MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) | | (D) ADEQUACY OF N TERMINALS |
| | (EXCLUDES SHOULDERS) Circle One: (H) R | 16 ft. 3 in. | |
| 55 | MINIMUM LATERAL | 554 | VERTICAL CLEARANCE |
| | UNDERCLEARANCE ON RIGHT SIDE Circle One: (H) R | $\mathcal{O}_{\mathrm{FT}}$, $\mathcal{O}_{\mathrm{IN}}$ | LISTED ON HEIGHT POSTING |
| | | | 99 FT. 99 IN. |
| 56 | MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE | FT IN. | FT IN. |
| | | | |
| 521 | OVERALL CONDITION (Circle One) | | YES [] |
| | GOOD FAIR POOR | CRITICAL BO | OTH APPROACHES? NO |
| | | | N/A [] |
| 555 | COMMENTS | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | 911212003 |
| | | | |

TEAM LEADER SIGNATURE

REVIEW DATE

| 3 | TOOT |
|----|------|
| SE | |

Bridge Condition Coding Form

| STATE OF TENNESS | Coding Form | County: | 79 |
|--------------------------------------|-------------------------|------------------|-------|
| DEPARTMENT OF TRANSPO | | Route: | 10040 |
| - · · · · · · · | | Special Case: | 0 |
| Bridge Number: (Includes Item 5A) | 791004000741 | County Sequence: | 01 |
| Feature Intersected: | I40-LL / N HOLLYWOOD ST | Log Mile: | 7.59 |

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

| 90 10 | INSPECTION DATE | 01/18/2000 1272000 99 FT. 99 IN. | (Values for Coding Items 58, 59, 60 and 62) N NOT APPLICABLE |
|----------|--|--|---|
| 10 | | | N NOT APPLICABLE |
| 10 | | 99 FT. 99 IN. | |
| | (NOADMAT + SHOOEDENG) | | 9 EXCELLENT CONDITION |
| | | FT IN. | 8 VERY GOOD CONDITION - NO PROBLEMS NOTED. |
| 520 | MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS) | 99 FT. 99 IN. | 7 GOOD CONDITION - SOME MINOR PROBLEMS. |
| | | FT IN. | 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL |
| 36 | TRAFFIC SAFETY FEATURES | | ELEMENTS. |
| | Br. Rail Trans. Appr. Ra 1 0 0 | aii Appr. Rail Ends 0 | 5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR. |
| 41 | STRC OPEN/CLOSED/POSTED A K P | | 4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR. |
| 58 | DECK | 7 | 3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOURSLY AFFECTED PRIMARY |
| 59 | SUPERSTRUCTURE | 7 | STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE |
| 60 | SUBSTRUCTURE | 7 | MAY BE PRESENT. |
| 61 | CHANL/CHANL PROTECTION | N | 2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE |
| 62 | CULVERT AND RETAIN WALL | N | PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE |
| 71 | WATERWAY ADEQUACY | Ν | NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN. |
| | APPROACH RDWY ALIGNMEN (USE VALUES OF 3, 6, OR 8) | r 8 | 1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR |
| 521 | OVERALL CONDITION (Circle (| One) | HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS |
| | GOOD FAIR PO | DOR CRITICAL | CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT BACK IN LIGHT SERVICE. |
| | M LEADER SIGNATURE | 91/21 2001 REVIEW DATE | 0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION. |

| | TE OF TENNESSE | | Cod | ling Fori | n | County: Route: | 79 02821 | | |
|-------------|-----------------------------|---------------------------------------|------------------|---|--------------|-----------------------------------|-------------|-----------|------------|
| | - | | | | S | pecial Case: | 0 | | |
| | ge Number: | 7 | 01004000742 | 2 | Count | y Sequence: | 01 | | |
| eature | Intersected: | 140-LL / | N HOLLYWO | OD ST | | Log Mile: | 5.32 | | |
| | | | <u>NHICH HAV</u> | E CHANGED | | | | | |
| ГЕМ # 90 | | | | $\gamma = \frac{\frac{01}{18/20}}{\frac{01}{12}}$ | | UNDERPASS 5 (A) TYPE U None | | SS BA | RRIF |
| 10 | MINIMUM V.C. (ROADWAY + | - | | 16 FT. | 3 IN. IN. | Rev | ised Barrie | er Type | e |
| 520 | MINIMUM V.C. (EXCLUDES S | | | 16 FT | 3 IN. | (B) ADEQUA | | | N |
| 47 | TOTAL HORIZ | | | 75 FT. 76 FT. | DIN. | (C) ADEQUA TRANSI | | | N |
| 54 | MINIMUM VER (EXCLUDES S | TICAL UNDER HOULDERS) Circle On | <u>^</u> | <u> </u> | 3 IN. | (D) ADEQUA TERMIN | | | N |
| 55 | MINIMUM LAT | RANCE ON RIG | <u>~</u> | | 55 | 4 VERTICAL | | | ΓING |
| | | Circle O | ne: (H) R | FT | <u> </u> | 9 | 9 FT. | 99 | IN. |
| 56 | MINIMUM LAT | ERAL RANCE ON LEF | | FT | OIN. | - <u></u> | FT | | IN. |
| 521 | OVERALL CO | NDITION (Circ | le One) | | | IEIGHT POSTEI | | YES NO | |
| | GOOD | FAIR | POOR | CRITICAL | 6 | | SUED: | | -/- -[] |
| 555 | <u>COMMENTS</u> | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

TEAM LEADER SIGNATURE

REVIEW DATE

Bridge Loc. No: 79 - 10040 - 07.59 - L Date: 08-12-03



BRIDGE NO. ON ABUTMENT #1 BREASTWALL



ABUTMENT #1

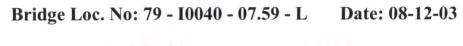
Bridge Loc. No: 79 - I0040 - 07.59 - L Date: 08-12-03



LOOKING BACK ON ROUTE



APPROACH #2 JOINT





APPROACH #2 WITH ASPHALT SPALLING

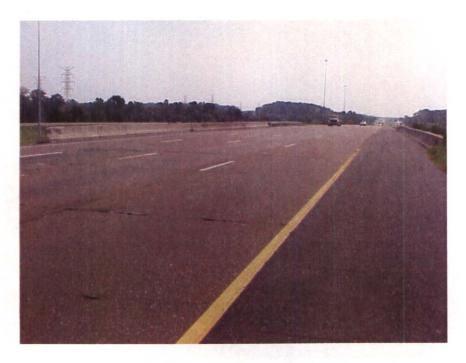


APPROACH #1 WITH ASPHALT SPALLING

Bridge Loc. No: 79 - I0040 - 07.59 - L Date: 08-12-03



VIEW ACROSS TOP OF DECK

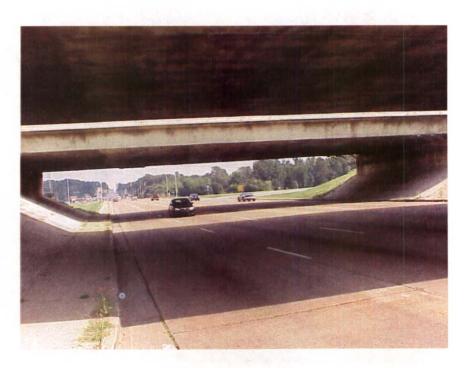


LOOKING AHEAD ON ROUTE

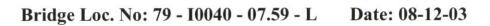
Bridge Loc. No: 79 - I0040 - 07.59 - L Date: 08-12-03



ELEVATION RIGHT SIDE

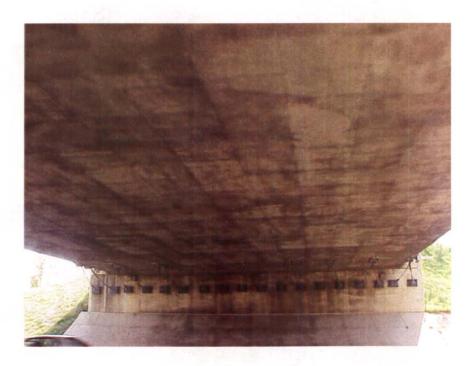


ELEVATION RIGHT SIDE





ABUTMENT #2 WITH EARTHQUAKE DEVICE



BOTTOM OF DECK

Bridge Loc. No: 79 - I0040 - 07.59 - L Date: 08-12-03



ABUTMENT #2, LEFT BACKWALL SPALLED TO STEEL



ELEVATION LEFT SIDE

BRIDGE INSPECTION REPORT

| Form BIR 3.0 | Field Report No. 16 Date 8-12-03 |
|---|--|
| (Rev. 9-22-98) | Previous Report No. <u>16</u> Date <u>8-12-03</u> Previous Report No. <u>15</u> Date <u>9-12-01</u> |
| DT-0069 | Plans: YES() NO() |
| Bridge No. <u>79100400074</u> Bridge Location Eleven Digit No. over | |
| Road Name | Crossing |
| Year Constructed | CountyShelbyMaintenance District 45 |
| Year Widened Year Rehab | |
| FEATURESWearing Surface Concrete () Timber () AsFlared Width Yes () No (>) Median WNavigational Control Yes () No (>) BridgeStructure Type (Main Span) CONC. BOX EStructure Type (Appr.Spans)No. Main Spans 1No. Main Spans 1No. ApproachMaximum Span Length125.0(**.* ft | Vidth Open (*) None () Closed ()1. \underline{GREER} Skew 85L ° LT () RT ()2. \underline{LOUE} BEAM3. \underline{POAMS} Spans6.C.)7. |
| WIDTHS_(*.* ft.) Deck Out-to-Out 71.5 Roadway Curb/Curb 69.5 Roadway Rail/Rail | · · · · · · · · · · · · · · · · · · · |
| $\frac{N035 \circ 11 ' 30.4 "}{W089 \circ 58 ' 33.2 "}$ G.P.S. Location Supervising Bridge Inspector: | BRIDGE RATING: () () GOOD FAIR POOR CRITICAL |

AUG 1.2 200

| Form BIR 3.1 (Rev. 9-22-98) DT-0080 | Bridge Lo | cation No | 0. <u>79</u> Co. | - <i>10040 -</i> Route | <u>7.59 L</u> Log Mile | A Date | UG 1 0 1120 |
|--|-----------|--------------|---------------------|---------------------------|---------------------------------------|-----------------|-------------|
| PERFORMANCE EV | | | | | | | |
| Time of Day Inspecte | ed0 / | 30 V | Veathe | ^r Conditions | SUNNY | 780 | |
| Vehicles Observed | ALL T | YPES | | | | 0 | <u> </u> |
| LIVE LOAD BEHAVI | , OR | | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> |
| Substructure | YES | S NO | | | Comments | | |
| Horiz./ Vert. De | fl. () | (74) | | | Comments | | |
| Vibration | () | · · - | | | | | ····· |
| Superstructure | () | 69 _ | | | | | <u>_</u> |
| Horiz./ Vert. De | fi. () | \bigotimes | | | | | |
| Vibration | () | Ď. | | | | | |
| | | · / _ | <u> </u> | | | | |
| APPROACH | Rating | | | | Comments | | |
| Alignment S leb <i>PARAPET</i> | G F P | | | | | | |
| Joints | G P | с | | | | | |
| Pavement | GFP | _ | | | | | |
| | GFO | C A | <u>PPROAC</u> | H#1:2 A | C. SPALLEN | G AND SET | TIED ON |
| Embankment | Ø F P | С <u> </u> | | | | | |
| Drains | G F 🗷 | C ∠ | APPRON | CHEJLE | FT ORAZN FI | LLED WITH | DEBRES 60 |
| TRAFFIC SAFETY FE | ATURES | | | | | | |
| | Rating | STAN | DARD/ S | UB-STANDAR | | Comments | |
| Bridgerailing | G 🖻 P | C D | 4 | () | | | |
| Transitions | G F P | c (|) | | | | |
| Guardrail | G F P | с (|) | (* _ | | | |
| Guardrail Terminal | G F P | c 🖄 | 4) | | | | |
| SIGNING | | YES | NO | NEEDED | | | |
| Paddleboards | | () | | | | mit Posted | |
| Vertical Clearance (| '<11' e'' | | (>) | () | YES (| | |
| NARROW () | (~14-0) | () | (>) | () | | ······ <u> </u> | |
| ONE LANE BRIDGI | = () | | \bigotimes | | | ····· | |
| | | () | (\succ) | () | 3 or more | Axles | Tons |
| Other Signs or Plaq | | | | | | | |
| Comments Regardi Problems with Signi | na: | DER H | EAD . | SIGN A | N LEFT S. | TAE | |
| | | | | | <u> </u> | ENC | |
| | | | | · · · · · | | | |
| | | | | | | | |
| | | | | | | | |

Form BIR 3.2 (Rev. 9-22-98)

AUD IL CLOS

| (Rev. 9-22-98) DT-0081 | Bridge Locat | tion No | | | 0040 Route | | Bato |
|---------------------------|-----------------|---------|------------|-------------|---------------|------------|---------------------------------------|
| DECK | | Rating | Ŭ | υ. г | oute | Log Mile | Comments |
| Wearing Surface | | | | | | | |
| Deck - Structural | G | ЪP | C | | | | |
| Condition | G | D P | С | | | ····· | |
| Curbs | G | FP | С | | | | |
| Median | G | | - - | | | | |
| Sidewalks | G | | - | | | | |
| Parapet | G | ВP | Ċ | | _ | | |
| Railing | G | FΡ | C | | | | |
| Paint | G | FΡ | С | | | | |
| Drains | G | FΡ | С | | | | |
| Lighting Standards | G | FΡ | С | <u> </u> | | | |
| Utilities | G | FΡ | С | · | | | |
| Joint Leakage | G | FΡ | С | | | | |
| Expansion Joints | G | FΡ | С | <u> </u> | | | |
| SUPERSTRUCTURE | | | | | | | |
| Bearing Devices | G | FΡ | С | | | | · · · · · · · · · · · · · · · · · · · |
| Beams Box | ′ G | ÊР | С | | | | |
| Girders | G | FΡ | С | _ | | | |
| PCCS | G | FΡ | С | | | | |
| BOLTS (PCCS) | G | FΡ | С | | | | |
| Floor Beams | G | FΡ | С | | | | |
| Stringers | G | FΡ | С | _ | | | |
| Diaphragms | G | FΡ | С | | | ······ | |
| Bracing | G | FΡ | С | | | | |
| Trusses - General | G | FΡ | - | | | | |
| Portals | G | FΡ | С | | | | |
| Bracing | G | FΡ | С | | | | |
| Paint | G | FΡ | С | | | | |
| Alignment of Members | G | FΡ | С | · | | | |
| TEXTURE COAT | | | | | | | · · · · · · · · · · · · · · · · · · · |
| Condition Rating G | FÔP C | | | Fadin | - | ~ | |
| Overall Appearance G | | | | | _ | | FDC |
| Staining Rating G | ₿ F JP C | | | | | t Painting | YES () NO (++) |
| Comments | | | | | | ainting | YES (>>) NO () |
| RECOMMENDATIONS: | | | | | | | Scaling Rating G F B C |
| | ······ | ······· | | | | | CLEAN SEAL JOINTS () |
| | | | | | | | CLEAN DRAINS () |
| | | | | | | | |

| • | | •• | | | |
|---|------------------|------------------------------------|--|------------------|--|
| Form BIR 3.3 (Rev. 9-22-98) DT-0082 | Bridge Location | No. <u>79 - 10040</u> Co. Route | - 7.59 L | _ 0 | AUG 1 / 20. ate |
| SUBSTRUCTURE | | | rog wile | PILES 1 REPLA | |
| ABUTMENTS | Rating | Comments | | PILE(S) | ABUTMENT |
| Caps | G∂Ё́РС | | | | ABOTMENT |
| Breastwall | GFPC | | | ······ | |
| Wings | | | | · | |
| Backwall Plumb | GFBC A | I ABUT # 2 | SPALLIN | 5 | (171) |
| Footing | | | | <u> </u> | |
| Piles | | | | <u></u> | <u> </u> |
| Embankment | | | | · | |
| Bearing | | | | <u> </u> | |
| Slope Paving | G D P C | | | <u></u> | · |
| Rip Rap LZGHT | G FPC | | | | <u> </u> |
| Earthquake Devices | GFPC 🧕 | N ABUT#2 | ONLY | | |
| <u>PIERS</u> | | | | PILE(S) | |
| Caps | GFPC | | | | PIER |
| Columns | GFPC | | ······································ | | |
| Plumb | GFPC | - <u></u> | 77- | | · |
| Footings | GFPC | | / | | |
| Piles | G F P C | | | | |
| Bearing | G F P C | | | | |
| Web | GFPC | | · | | |
| Earthquake Devices | GFPC | | | | |
| <u>BENTS</u> | | | | | |
| Caps | GFPC | | | PILE(S) | BENT |
| Columns | GFPC_ | | | · <u> </u> | |
| Plumb | GFPC_ | AIL | <u> </u> | <u> </u> | <u> </u> |
| Footings | GFPC | | 1 | | |
| Piles | GFPC_ | ATT | / | | |
| Bearing | GFPC | | · · · · · · · · · · · · · · · · · · · | | |
| Bracing | G F P C | <u> </u> | | | ······································ |
| Earthquake Devices | s G F P C | | | · | |
| Piles | Need Replacement | | | | |
| | | | • | | <u>I</u> |
| | | NO (>>) YES | | | |
| RECOMMENDATIO | | NO YES | () | | |
| | NO | | | | ··· |
| | | | | | |

| Page 1 of 2 INSPECTION F | REPORT FOR UNDERPA | ASS ROUTE Page No |
|------------------------------------|---------------------------------------|---|
| Form BIR 3.0A (Rev. 9-22-98) | Field Report | No. 6 Date |
| DT-1443 | Previous Report | No. 15 Date 9-12-01 |
| Bridge No79100400074 | | |
| Eleven Digit No. | Underpass Location | |
| _0 or | | /er/ 70 00004 orac |
| Railroad/Walkway Co | . Route Log Mile Ur | nder <u>79 - 02821 - 0532</u> Co. Route Log Mile |
| CountyShelby | Structure Name (If Named | |
| Year Constructed | | |
| Year Widened | Year Rehabilitated | |
| GEOMETRIC FEATURES UNDER I | BRIDGE (*.* ft. unless otherv | |
| Divided Highway LEFT RDW | · · · · · · · · · · · · · · · · · · · | • |
| | NCRETE (X) ASPHALT () G | |
| Width of Approach Traveled Roadw | <u> </u> | |
| Width of Median if Divided Highway | | include Shoulders) |
| Approach Shoulder Width | | |
| Horizontal Clearance Under Bridge | ft. Right | ft. Left |
| Distance Between Pier Protection | <u>_7(eft</u> | IN. |
| Guardrail and Substructure | ft. Right | ft. Left |
| Width of Sidewalk Under Bridge | S' ft. Right | 5 ft. Left |
| Minimum Vertical Clearance: | ft. 3 in. | |
| *Show on Sketch | | |
| RAFFIC SAFETY FEATURES FOR | | |
| | | |
| Pier Protection Railing or Parape | GFPC () | SUB-STANDARD NON EXIST |
| Approach Guardrail Transitions | GFPC () | $()$ (χ) |
| Approach Guardrail | • • | $()$ (\mathbf{y}) |
| Approach Guardrail Terminal | GFPC () GFPC () | |
| | | () (y) |
| SIGNING FOR UNDERPASS ROUT | - | |
| Paddieboards YI | ES () NO (¥) NEEDED (|) INSPECTORS |
| | ES () NO (V) NEEDED (|) |
| | ES () NO (V) NEEDED (| |
| One Lane Passage YI | ES () NO () NEEDED (|) 2 |
| Other Underpass Signs Needed | (| 3 |
| | | 1. |
| Nowr | | 4 |
| Nowr | | 4 5 |

• •

件状

| - | | AUG 1 2 201.2 |
|---|---|---------------------------|
| Page 2 of 2 | | Page No |
| Form BIR 3.0A (Continued) | Dete | |
| (Rev. 9-22-98) | Date | |
| DT-1443 | Underpass Location No. 79 - 10040 | <u>- 0759 L</u> |
| Other Signs or Plaques: <u>LT. PBLT #1 STI</u> | Co. Route | Log Mile |
| Comments Regarding any Problems with Signing: <u>NON E</u> | | _ |
| BRIDGE FEATURES (*.* ft.) Bridge Skew 85116 Structure Type (Main Span) Box Baa Structure Type (Appr.Spans) Maximum Span Length 125' (ft.) Width of Bridge Out-to-Out 71.5 (ft.) Width of Bridge Along Skew (ft.) Number of Lanes/Tracks on Bridge 6 BRIDGE CONDITION: G (F) P C | No. Appr. Spans Total Length (ft.) Right Angle to Centerline of Bridge) (If Unable to Measure at Right Angle to Centerline of Bridge) | - |
| Does Potential Exist for Elements from Bridge F Does Potential Exist Because of Deteriorated Co | alling on Roadway Beneath YES (ondition or Failure of Major Member |) NO K() YES () NO (X |
| Comment on any Conditions of Bridge that would | d Effect Roadway Roposth | |

ouid Effect Roadway Beneath: y

NONE

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

- 1. Elevation View of Bridge on Both Sides Showing Underpass
- 2. View Showing Both Approaches to Bridge
- 3. View Showing Safety Features
- 4. View Showing Any Problems



Inspection Team's Summary Bridge Location No <u>79</u> -10040 07.59L -Inspection Date 08-12-03 Bridge Rating FAIR

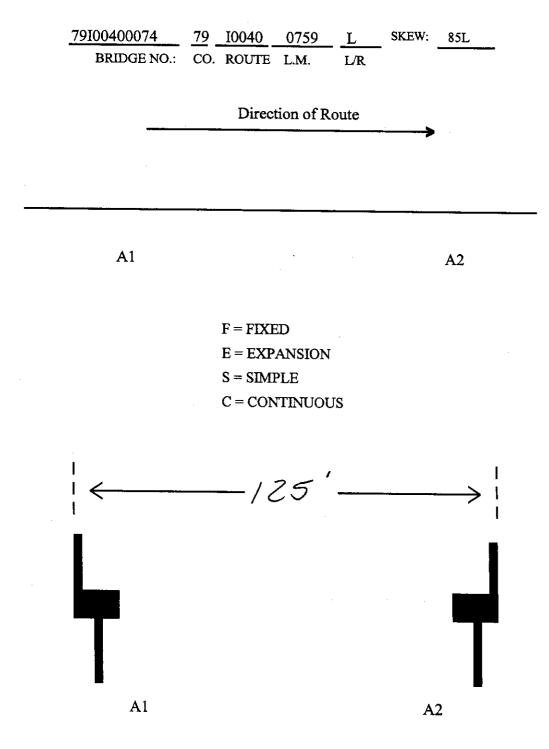
This one span solid concrete box beams bridge with concrete substructure is in fair condition. Substandard and standard terminals, substandard guardrails and standard type bridge rails present. Approach #1 patch A.C. spalling out. Approach #2 A.C. spalling. Approach #1 left drain filled with debris. Span #1 backwall spalling over abut. #2. Texture coating on all parapet is poor. Min. vertical 16'03".

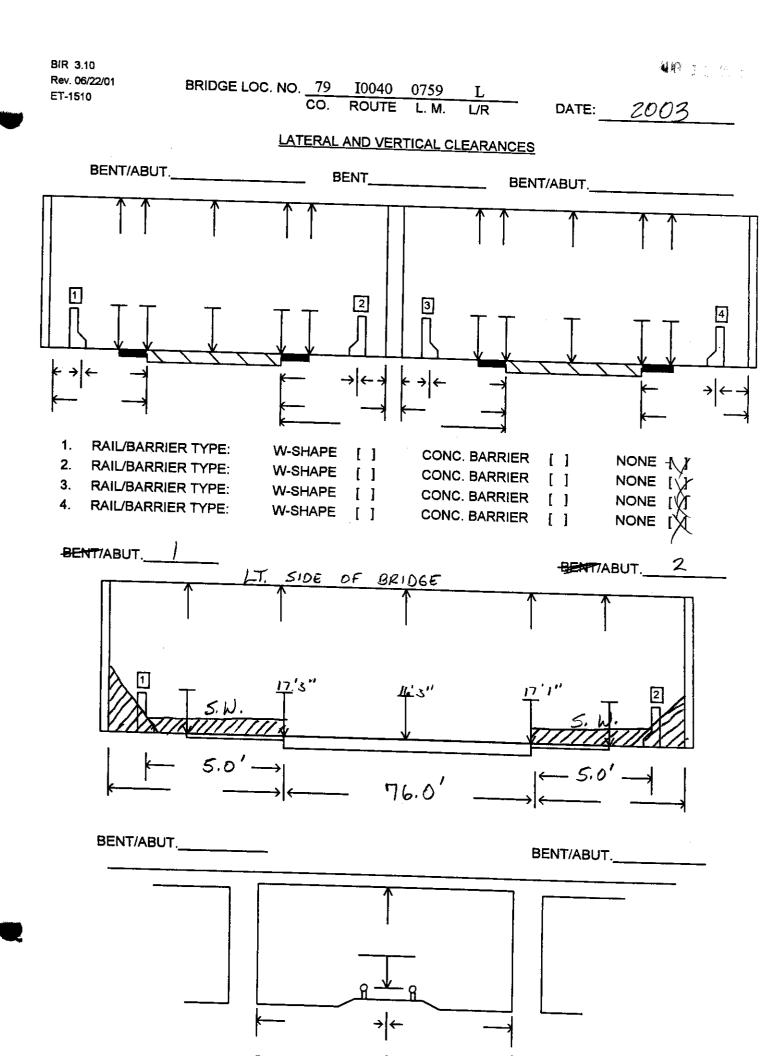
Randy Love

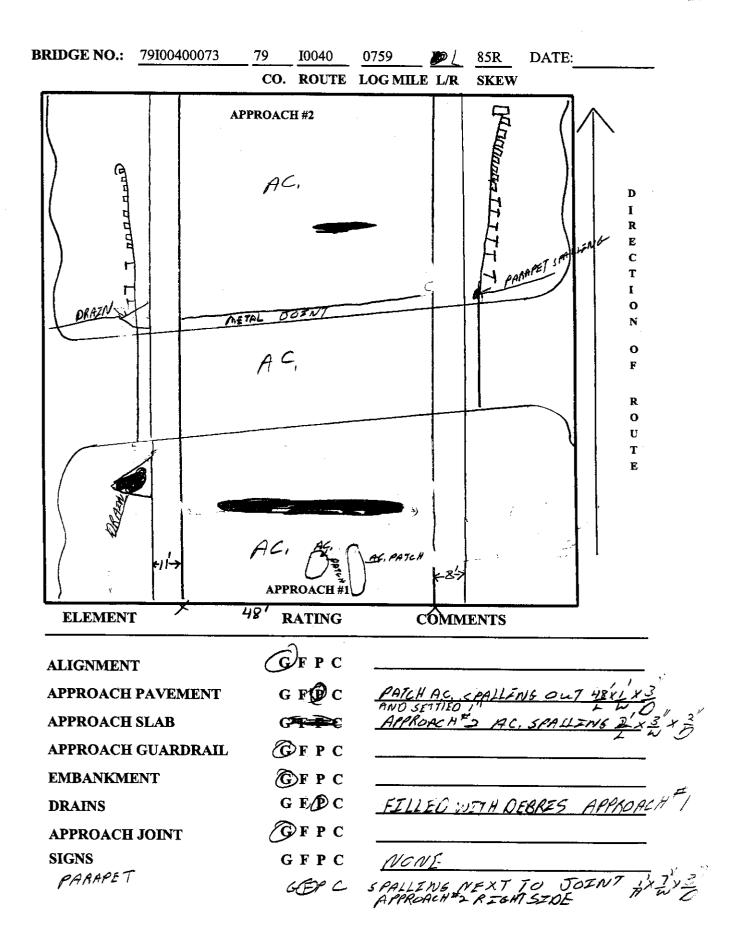
INSPECTOR

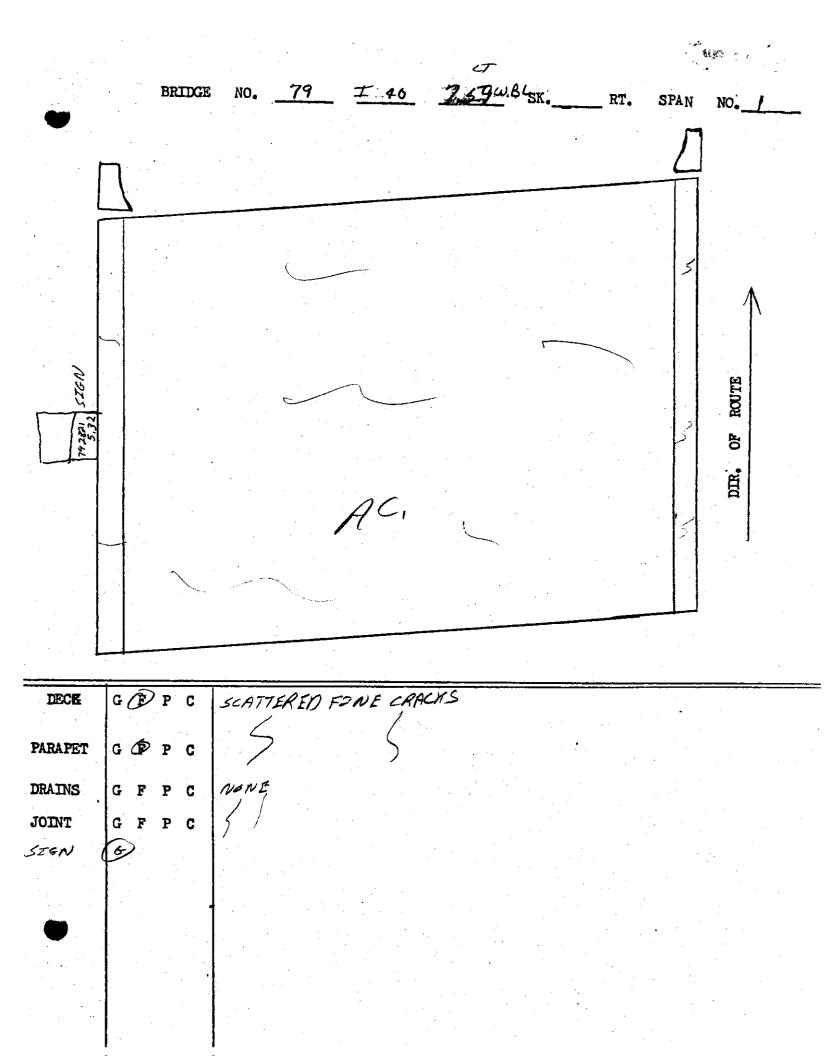
CROSS SECTION: YES () NO (X) PONTIS: YES () NO (X)

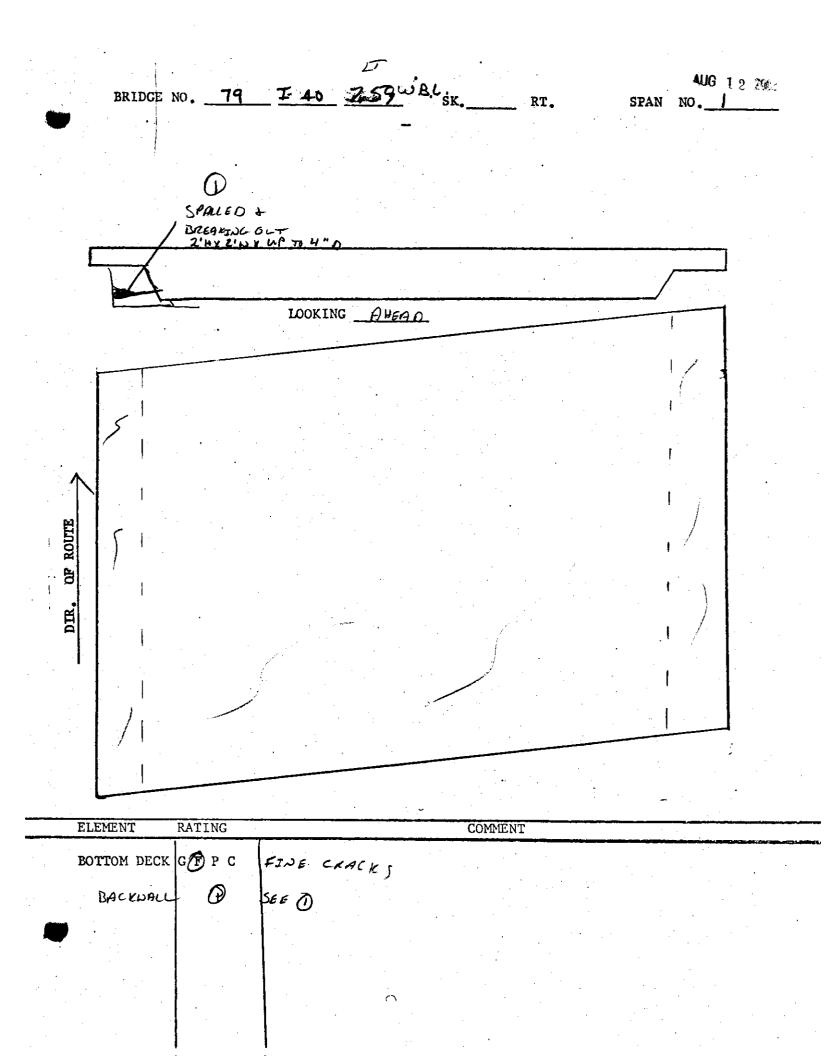
2003









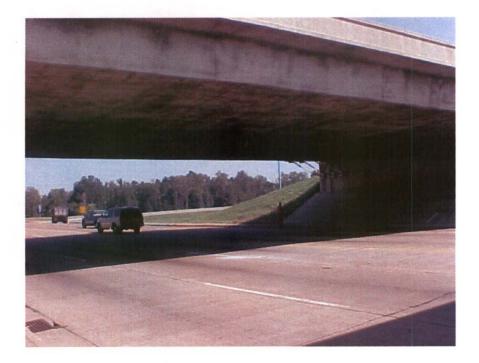


BRIDGE NO. 79 I 40 ZAP UBL. ABUT. NO. 1 (Ashe) LOOKING BACK Lights on Breast well Stope pavement SLOPE PAV. MENT RATING COMMENTS BEARING GFPC N12 PAINT GFPC Alia B. WALL G P C FINE CRACKS **(#**) G P C WINGS EMB . GFPC VEG. GFPC RIP-RAP GFPC Ala FINE CRACKS SLOPE PAV. G P C GFPC Part of the second GHTS

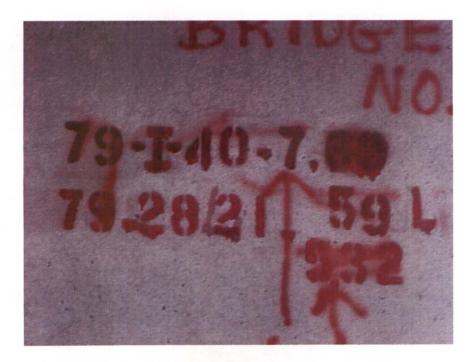
BRIDGE NO. 79 I- 40 7457 WAL. ABUT. NO. 2

LOOKING AHEAD Lights on Breastwall 0060 6 O Ø 6 G Ð Ø Ð O SLOPE PAU, RATING MENT COMMENTS GPPC BEARING PAINT GFPC FINE CRACKS CPP C CAP GBPC -WINGS EMB. ØFPC VEG. **G**FPC RIP-RAP GFPC NIA SLOPE PAV. G P C FINE CRACKS BASIMAL OF PC HÌS F.a. C 1)



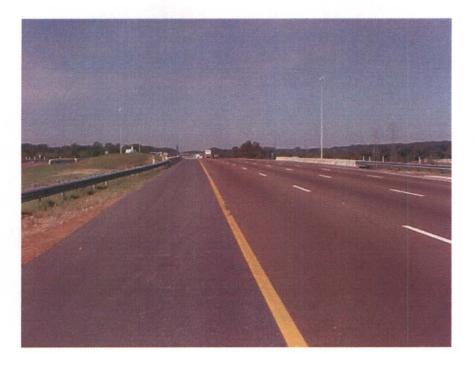


ELEVATION RIGHT SIDE

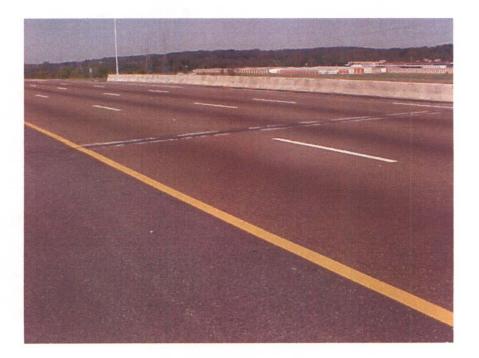


BRIDGE NO.

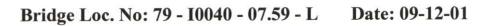




LOOKING BACK ON ROUTE



VIEW ACROSS TOP OF DECK





APPROACH #2 PARAPET SPALLING AT JOINT

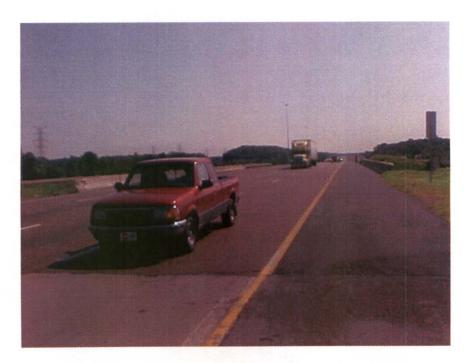


APPROACH #2 JOINT



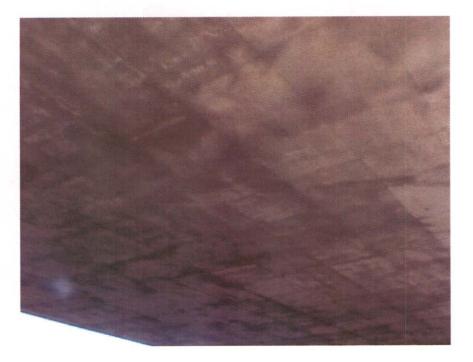
Bridge Loc. No: 79 - I0040 - 07.59 - L Date: 09-12-01

APPROACH #1 JOINT SPALLED

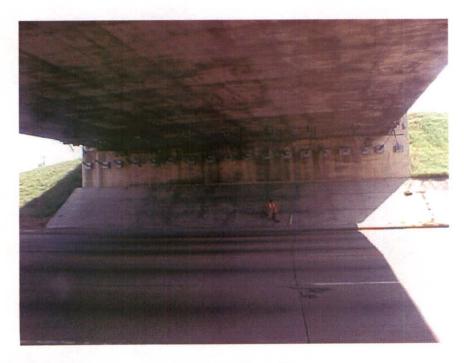


LOOKING AHEAD ON ROUTE





SPAN #1, BOTTOM OF DECK



ABUTMENT #2

Bridge Loc. No: 79 - 10040 - 07.59 - L Date: 09-12-01



ABUTMENT #2 BACKWALL SPALLED



ELEVATION LEFT SIDE

BRIDGE INSPECTION REPORT

SEP 1 < 20m

Field Report No. 15 Date 9-12-Form BIR 3.0 (Rev. 9-22-98) Previous Report No. //2 Date DT-0069 Plans: YES() NO () Bridge No. 79100400074 Bridge Location No. 79 - 10040 - 7.59 L 79 -02821 - 0532 Eleven Digit No. Route OVER/UNDER PASS Co. Log Mile over -0-Road Name Crossing Structure Name (If Named) Year Constructed County Shelby Maintenance District 45 Year Widened Year Rehabilitated FEATURES INSPECTORS Wearing Surface Concrete () Timber () Asphalt χ) Depth Z'' (in.) Flared Width Yes () No 😥 Median Width Open () None () Closed () 2. 13 Navigational Control Yes () No () Bridge Skew 85L° LT () RT () 3. RAISIIA Structure Type (Main Span) CONC. BOX BEAM 4. Structure Type (Appr.Spans) 5. No. Main Spans 1 No. Approach Spans 6. Maximum Span Length (**.* ft.) 7. Total Length 125.0 (**.* ft.) 8. WIDTHS (*.* ft.) CLEARANCES 71.5 Deck Out-to-Out Min. Vertical Clearance over Deck イノバ (ft.-in.) Roadway Curb/Curb 69.5 Min. Vertical Under Clearance (ft.-in.) Min. Lateral Under Clearance Rt. Roadway Rail/Rail (*.* ft.) Sidewalk Rt. Lt. Min. Lateral Under Clearance Lt. (*.* ft.) *Approach Roadway FRACTURE CRITICAL: *(Does Not Include Shoulders) (If Yes, Include BIR 3.9) Approach Shoulder Rt. NBIS Bridge Length (<25 ft.) N/12 (ft.-in.) Lt. UNDERWATER INSPECTION To Be Performed By: Date DOT FIELD TEAM () CONTRACT DIVERS () NONE REQUIRED () Change in Structural Condition: Yes () No K) Major Repairs Made: Yes () No () COMMENTS: N-35° 11'30.4" W- 89° 58' 33.2 BRIDGE RATING: () (χ) () () GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: <u>Gar Call</u>

| Form BIR 3.1 (Rev. 9-22-98) DT-0080 | Bridge Locatio | on No. <u>79</u> Co. | - 10040 - Route | 7.59 L Log Mile | Date | 4 4 6901 |
|---|------------------------|---|---------------------------------------|---|-----------|----------|
| PERFORMANCE EV | | | | | | |
| Time of Day Inspect | ed 10.00 | Weath | er Conditions | CLER É | .80° | |
| Vehicles Observed | ALL TYPES | > | | | | |
| LIVE LOAD BEHAV | OR | | | | | |
| Substructure | YES N | <u>0 </u> | | Comments | | |
| Horiz./ Vert. De | əfl. () (X | | | | | |
| Vibration | () () | 1 | | | | |
| Superstructure | | / | | | •••• | |
| Horiz./ Vert. De | efl. () (y | .) | | | | |
| Vibration | () 6 | -> | | | | |
| APPROACH | Rating | | | Comments | | |
| Alignment | | | | Comments | | |
| Slab | (G) F P C G F P C | NIV | 1 | | | |
| Joints | | | | Part in Company | | |
| Pavement | G F (P) C G F (P) C | | , | PALLING MAT | | (0) |
| Embankment | GFPC | <u>MT.1- 2</u> | ST STALL | CO CLOIN | | |
| Drains | G F (P) C | DOR | t'LTS | INE too | 9 | |
| | | <u>1-11. - n</u> | | | | |
| TRAFFIC SAFETY FE | | STANDARD | SUB-STANDA | RD Co | mments | |
| Drideonallina | | | ······ | | | |
| Bridgerailing | G F P C | (\mathbf{X}) | () _ (X) | · · · · · - · · · · - · · · · - · · · · | | |
| Transitions | \checkmark | () | $\gamma' - \gamma$ | | | |
| Guardrail | | () | $\frac{4}{\lambda}$ - | | | |
| Guardrail Terminal | S FPC | | Ч, - | · · · · · · · · · · · · | ····· | |
| <u>SIGNING</u> | | YES NO | NEEDED | Weight Lim | it Posted | |
| Paddleboards | | $() \qquad \qquad$ |) () | YES () | NO (Y) | |
| Vertical Clearance | (<14'-6") | () $()$ |) () | Gross | / | Tons |
| NARROW () | | () (x |) () | 2 Axle | ····· | _ Tons |
| ONE LANE BRIDO | | () (X |) () | 3 or more A: | des | _ Tons |
| Other Signs or Pla | ques: WENH | UAD ON | LISID | & SPANE, | 1-79-2 | 821-5.3 |
| ooninonu rogare | ang ang | | | | NO 1 | an sion |
| Problems with Sig | 1ing: | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | |

SEP 1 2 2001 Form BIR 3.2 (Rev. 9-22-98) Bridge Location No. 79 - 10040 -7.59 L Date DT-0081 Co. Route Log Mile DECK Rating Comments Wearing Surface G(F) 'P C Deck - Structural G F P С Condition Curbs F Ρ С G Median G F Ρ С Sidewalks G E Ρ С Parapet F G Ρ С Railing G F Ρ С Paint G F P С Drains G FΡ С Lighting Standards G FP C Utilities FPC G Joint Leakage F Ρ С **Expansion Joints** G F Р С **SUPERSTRUCTURE Bearing Devices** GEP С Beams G/F/ P С Girders GFP С GFP PCCS С BOLTS (PCCS) GFP С GFPC Floor Beams Stringers GFP С Diaphragms GFP С Bracing GFP С **Trusses - General** GF Ρ С Portals GFP С Bracing GFP C Paint GFP С F PC **Alignment of Members** Ġ **TEXTURE COAT** 1069 G F (P)C Condition Rating Fading G F Р С Overall Appearance G F(P) C YES() NO(+) Needs Spot Painting Staining Rating G F/F С Needs Repainting YES(X) NO()Comments ------ Scaling Rating G F(P) С RECOMMENDATIONS: _____ CLEAN SEAL JOINTS () CLEAN DRAINS ()

| Form BIR 3.3 (Rev. 9-22-98) DT-0082 | Bridge Location No. | <u>79 - 10040 - 7.59 L</u> Co. Route Log Mile | Da | te |
|---|---|--|--------------------|----------|
| SUBSTRUCTURE | | | PILES TO REPLAC | |
| ABUTMENTS | Rating | Comments | PILE(S) | ABUTMENT |
| Caps Breastwall Wings | GFPC | | | |
| Backwali Plumb | GFPC <i>ABU</i> | 12. 15 510B 59 | aun /s | |
| Footing Piles Embankment | G F P C | | | |
| Bearing (Slope Paving Rip Rap Earthquake Devices | Ğ (F) Р С G F Р С С Г Р С | | | |
| PIERS | <u> G</u>) F Р С | * | PILE(S) | PIER |
| Caps Columns Plumb Footings Piles Bearing Web Earthquake Devices | G F P C G F P C | 11A | | |
| BENTS Caps Columns Plumb Footings Piles Bearing | G F P C G F P C G F P C G F P C | | PILE(S) | BENT |
| Bracing Earthquake Devices | G F P C G F P C | <i>ν</i> | <u> </u> | |
| CUT V | EGETATION I R DRIFT I | NO (ナ)YES() NO (_イ) YES() NO (ナ) YES() | | |
| | | | | |

SEL LA LET

| Page 1 of 2 INSPECTION REI | PORT FOR UNDERPASS ROU | TE Page No. |
|---|---|---|
| Form BIR 3.0A | Field Report No. | Date |
| (Rev. 9-22-98) | Previous Report No. | |
| DT-1443 | | - <u></u> , |
| Bridge No. 79100400074 | Underpass Location No. 79 - | |
| Eleven Digit No. | Co. over/ To | Route Log Mile |
| or | under | - 02821 - 0532 |
| Railroad/Walkway Co. | Route Log Mile Co. | Route Log Mile |
| County Shelby | Structure Name (If Named) | |
| Year Constructed | | |
| Year Widened | Year Rehabilitated | |
| GEOMETRIC FEATURES UNDER BRI | | |
| Divided Highway LEFT RDWY (|) RIGHT RDWY () N.A. (X | |
| Type of Wearing Surface CONC | RETE 🔊 ASPHALT () GŔAVEL () | |
| Width of Approach Traveled Roadway | ft. (Does Not Include Sho | oulders) |
| Width of Median if Divided Highway | <u>N/14</u> ft. | |
| Approach Shoulder Width | ft. Right | _ft. Left |
| *Horizontal Clearance Under Bridge | <u></u> | _IN. |
| *Distance Between Pier Protection Guardrail and Substructure | N/A ft. Right N/A | ft. Left |
| *Width of Sidewalk Under Bridge | ft. Right | ft. Left |
| *Minimum Vertical Clearance: | // ft3 in. | |
| *Show on Sketch | | |
| Show on Sketch | | |
| TRAFFIC SAFETY FEATURES FOR U | NDERPASS ROUTE | |
| | STANDARD SUB-STAN | DARD NON EXIST |
| Pier Protection Railing or Parapet | GFPC () () | $(\not\prec)$ |
| Approach Guardrail Transitions | GFPC () () | $\langle \sim \rangle$ |
| Approach Guardrail | GFPC () () | \bigotimes |
| Approach Guardrail Terminal | GFPC () () | $(\not\!$ |
| SIGNING FOR UNDERPASS ROUTE | | |
| Paddleboards YES | () NO (☆) NEEDED () ^[] | NSPECTORS |
| | | - |
| Vertical Clearance (<14'-6") YES | 11. A | ltt Vt S |
| Narrow Passage YES | | |
| | () NO (\searrow) NEEDED () $\begin{vmatrix} 2 & - \\ 3 & - \end{vmatrix}$ | · · · · · · · · · · · · · · · · · · · |
| Other Underpass Signs Needed | 4. | |
| | | |
| | 6. | |
| | U | |

| Page 2 of 2 | SEP 200 Page No |
|--|---|
| Form BIR 3.0A (Continued) | Date |
| (Rev. 9-22-98) DT-1443 | Underpass Location No. 79 - 10040 - 0759 L Co. Route Log Mile |
| Other Signs or Plaques: | |
| Comments Regarding any Problems with Signing: | |
| BRIDGE FEATURES (*.* ft.) | |
| Bridge Skew 2515 | |
| Structure Type (Main Span) Box E | No. Main Course / |
| | |
| Structure Type (Appr.Spans) Maximum Span Length | No. Appr. Spans |
| | t.) Total Length <u>125</u> (ft.) t.) Right Angle to Centerline of Bridge) |
| ````` | |
| · · · · · · · · · · · · · · · · · · · | t.) (If Unable to Measure at Right Angle to Centerline of Bridge) |
| Number of Lanes/Tracks on Bridge | |
| BRIDGE CONDITION: G(F) P C | |
| Does Potential Exist for Elements from Bridge | e Falling on Roadway Beneath YES()NO 1√) |
| Does Potential Exist Because of Deteriorated | |
| | |

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

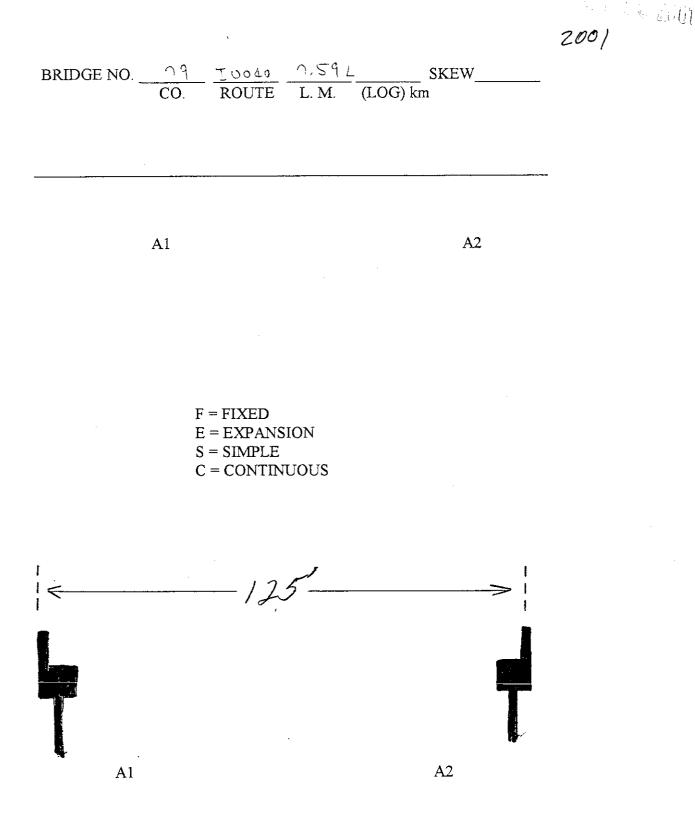
Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

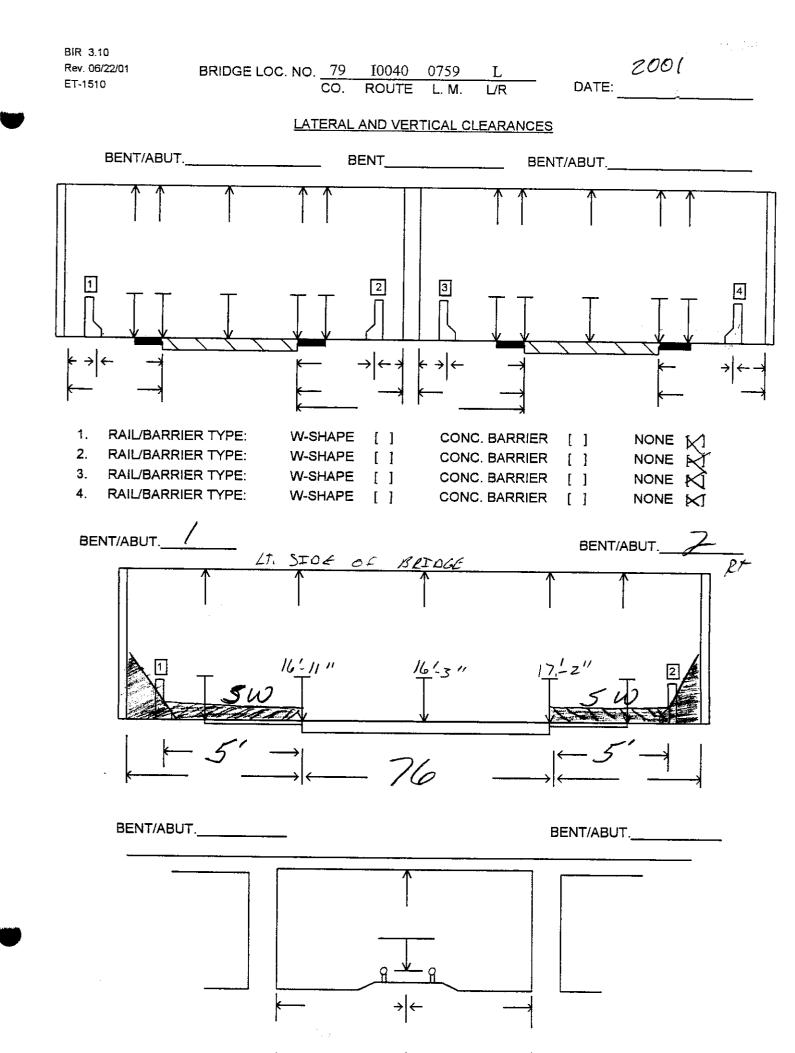
- 1. Elevation View of Bridge on Both Sides Showing Underpass
- 2. View Showing Both Approaches to Bridge
- 3. View Showing Safety Features
- 4. View Showing Any Problems

Inspection Team's Summary Bridge Location No. 79 - 10040 - 7.59 L SEP 12 2000 9-12-01 Inspection Date Bridge Rating FAIR

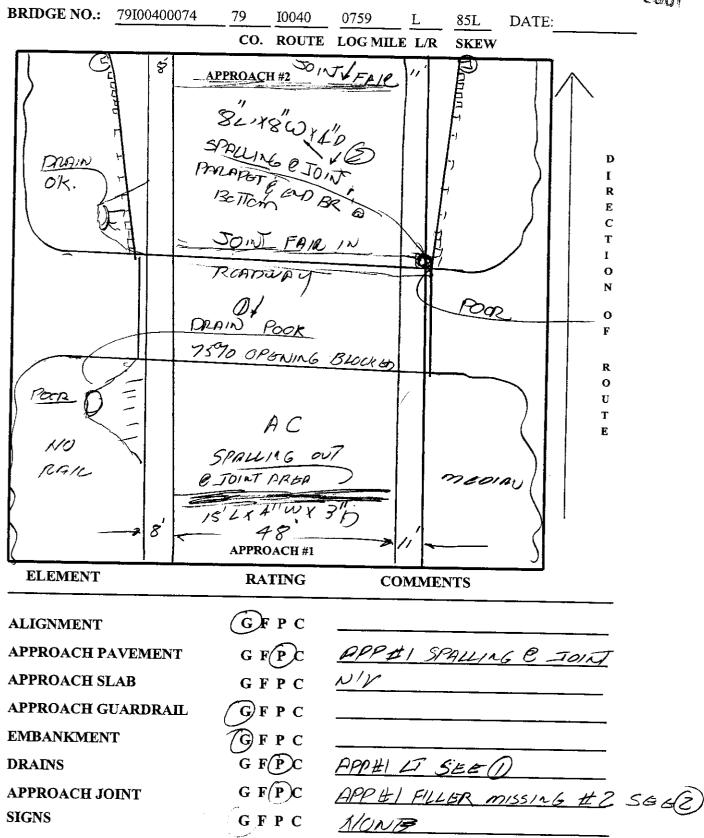
| THIS ONE SPAN CONC. BOX BEAM WITH CONC. |
|--|
| SUBSTRUCTURE BRIDGE IS IN FAIR CONDITION. |
| ALL TRAFFIC SAFETY FEATURES ARE PRESENT. |
| APP #1 & #Z JOINT & APP. # 1 PAVEMENT 15 |
| SPALLING, CRACKING, É SETTLED, APP. #1 LT. DRAIN |
| 15 100% FILLED WITH DEBRIS, APP. # 2 RT. |
| PARAPET IS SPALLING AT JOINT, ABUT. # 2 LT. |
| BACKWALL IS SPALED TO STEEL THE MINIMUM |
| VERTICAL CLEARANCE IS 16'3' |
| |
| |
| Deuk Bys |
| |
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| |
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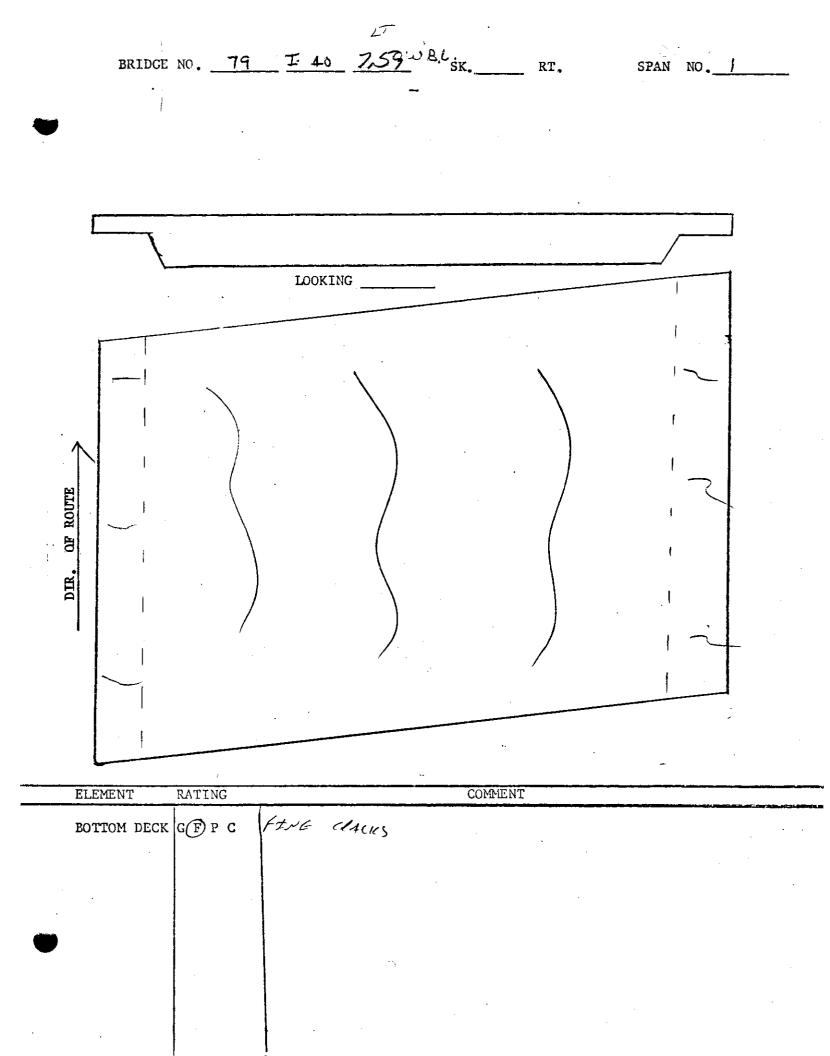
.



SEP 1 2 2001



SEP 1 2 2001 LT NO. 79 I 40 7.59W.BLSK. RT. SPAN BRIDGE NO. SCALEING ON BOFTOM ISLY 6"HX2"D FAIR ROUTE P0 DIR. RUTTED GFPC DECE MEN POPUTS -SEED GFPC PARAPET NIA GFPC DRAINS NA GFPC JOINT



BRIDGE NO. 79 I 40 759 WBL. ABUT. NO. 1 SEP 1 2 200 LOOKING BACK Lights on Breast walk Slope pavement EMENT RATING COMMENTS BEARING GFPC G P C SCALLENG PAINT 14" OPEN CRACKS WEFF ACTION GPPC CAP GFPC WINGS FING CRACKS WIEFF ACTION GFPC EMB_ GEP C VEG. MODGRATE GROWTH MA RIP-RAP GFPC FING CLARES SLOPE PAV. CFP C BACKWALL GFPC FINE CLACKS LIGHTS O

1357 & N COU. BRIDGE NO. 79 I- 40 2.59 W.B.L. ABUT. NO. 2

TO STEEL D LOOKING AHEAD EnB. TXEXE Tables on Breastwall <u> 1</u>

| RATING | COMMENTS |
|--------|--|
| ĜFPC | |
| GPPC | SCALLENG FENE CRACKS |
| GF P C | FENE CRACKS |
| G P C | |
| GF P C | WASHENG BESIDE WING IS' X WX D' LA SIDE |
| GFP C | MODGRATE GROUTH |
| GFPC | NA |
| G P C | · |
| GFPC | 566 0 |
| Ð | U |
| Ð | |
| | |
| | |
| | G F P C G F P C G P P C G F P C G F P C G F P C |



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION AND REPAIR OFFICE NASHVILLE, TENNESSEE 37243-0338 January 5, 1998

Mr. Jim Moore Program Scheduling Section Suite 600, James K. Polk Bldg. Nashville, TN. 37243

> RE: Contract Maintenance – In House Construction No. 79959-4152-04 Bridge No. 79-140-9.50 (R & L lane) / Wolf River Bridge No. 79-140-8.25 (R & L lane) / I.C.R.R. Bridge No. 79-140-7.60 (R & L lane) / Hollywood St. Bridge No. 79-140-5.09 (R & L lane) / Wolf River Bridge No. 79-4186-2.11 / I40 Bridge No. 79-2819-4.93 / I40 Sheiby County

Dear Mr. Moore

We request scheduling the above Contract Maintenance Bridge Repair project for the May 1, 1998, letting.

PROPOSED REPAIRS:

1) Place seismic restraints on bridges.

If we can be of any further assistance, please contact us.

Sincerely,

BRIAN EGLI

(for) Hollis I. Tackitt, Civil Engineering Manager II Bridge Inspection and Repair

BKE:bke

cc: Mr. Ed Wasserman Mr. Paul Sharp ✓ Mr. Wayne Seger File

ESTIMATED QUANTITIES

| | ITEM NO. | ITEM DESCRIPTION | UNIT | 79-140-5.09 L&R OVER WOLF RIVER | 79-2819-4.93 OVER I40-6.60 | 79-140-7.60 L&R OVER FAU 2821 | 79-140-8.25 L&R OVER 1.C.G.RAILROAD | 79-4186-2.11 OVER I40-9.36 | 79-140-9.50 L&R OVER WOLF RIVER | TOTAL QUANTITIES | |
|-----|-----------|---|------|---------------------------------------|--|-------------------------------------|---|----------------------------------|---------------------------------------|---------------------|---|
| (1) | 602-10.39 | STRUCTURAL STEEL BRIDGE (REPAIRS) | EACH | | | | 24 | | <u></u> | 24 | |
| 2 | | BRIDGE JOINT SEISMIC MODIFICATION | EACH | 48 | 36 | 36 | 28 | 40 | 30 | 218 | |
| 3 | 604-10.42 | CONCRETE REPAIRS | C.F. | 36 | | | | | | 36 | |
| - | 712-01 | TRAFFIC CONTROL | L.S. | 0.17 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 1 | |
| | 712-02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | L.F. | 500 | 440 | | 620 | 460 | 400 | 2420 | |
| | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | | ······································ | 10 | 18 | | | 28 | |
| | 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | | 6 | 2 | 4 | 6 | I | 18 | |
| | 712-06 | SIGNS (CONSTRUCTION) | S.F. | | 116 | 44 | 120 | 116 | | 396 | |
| 4 | 712-05.03 | WARNING LIGHTS (TYPE C) | EACH | | | | 8 | | | 8 | |
| 5 | 712-06.10 | NEW SIGNS (CONSTRUCTION) | S.F. | 232 | | | | | 232 | 464 🚺 | 2 |
| 6 | 712-06.16 | SIGNS (CONSTRUCTION) (REDUCE SPEED WARNING) | EACH | 4 | 2 | | | 2 | 4 | 12 | |
| | 717-01 | MOBILIZATION | L.S. | 0.17 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 1 | |
| | 712-08.03 | ARROW BOARDS (TYPE C) | EACH | | | 1 | 2 | | | 3 | |
| | | | | | | | | | | | |
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| | | | | | | | | | 1 | | |

- () INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE STRUCTURAL STEEL LATERAL SEISMIC RESTRAINTS.
- (2) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE WIRE ROPE SEISMIC RESTRAINTS.
- (3) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PROVIDE CONCRETE LATERAL SEISMIC RESTRAINTS.
- (4) TO BE USED ON FLEXIBLE DRUMS THROUGH TAPERS.
- (5) INCLUDES THE INSTALLATION AND MAINTENANCE OF A NEW SIGN PANEL. SHEETING AND SUPPORTS.
- (6) ITEM TO BE USED ONLY WHEN CONTRACTOR ESTABLISHES A REDUCED SPEED LIMIT WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE. SUPPORTS AND TWO (2) TYPE "B" FLASHING LIGHTS AS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER PRESENT IN THE CONSTRUCTION WORK ZONE.

<u>utility notes</u>

THE LOCATION OF UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR, AND BY CONTACTING THE UTILITY COMPANIES INVOLVED. SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM. INC. AT 1-800-351-1111.

UNLESS OTHERWISE NOTED. ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO CO-OPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID, IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF THE WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED "AROUND" UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.

THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.

NOTE:

CONST. WORK ZONE TRAFFIC CONTROL

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF SIGN FACE IS FULLY COVERED

IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPERATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) S.F. AND 712-06.10, NEW SIGNS (CONSTRUCTION) S.F.

A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS FLAGGER SIGNS MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

USE OF BARRICADES. PORTABLE BARRIER RAILS. VERTICAL PANELS. AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL. BRIDGE RAIL. AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRY (30) FEET SETBACK. THE ENGINEER SHALL APPROVE ALTERNATE LOCATIONS.

THE CONTRACTOR WILL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THRITY (30) FEET SETBACK, THE ENGINEER SHALL APPROVE ALTERNATE LOCATIONS.



ALL NEW STEEL SHALL BE GALVANIZED TO ASTM A123 STANDARDS.

NOTE: ROADSIDE BANKS/SLOPES USED BY THE CONTRACTOR FOR WORK ACCESS, PARKING, AND ANY OTHER OPERATIONS THAT ARE DISTURBED BY HIS OPERATIONS SHALL BE REPAIRED BY REGRADING, RESEEDING, MULCHING OR WHATEVER MEANS ARE NECESSARY TO RESTORE THE BANKS/SLOPES TO THE ORIGINAL CONDITION. ALL RESTORATION WORK SHALL MEET THE FULL SATISFACTION OF THE ENGINEER. COST OF ALL RESTORATION WORK SHALL BE INCLUDED IN ITEMS BID ON.

| DESIGNED BY BRIAN EGLI | DATE | 01/1998 |
|---|-------|---------|
| ORAMN BY SCOTT C. NELSON | DATE | 01/1998 |
| SUPERVISED BY M.LAWSON & T.CHRISTIANSON | DATE | 01/1998 |
| CHECKED BY M. LAWSON & B. EGLI | DATE | 02/1998 |
| | D. TE | |

| F | ROJECI | NO. | YEA | R | SHE | ET N | 0. |
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| | | | REVIS | IONS | | | |
| NO. | DATE BY BRIEF DESCRIPTION | | | | | | |
| 1 | 4-6-98 | BKE | REVISED 4 | LANTI | TYEAD | DED | NOTE |
| 2 | 5-8-98 | BKE | ADDED GENERAL NOTE | | | | |
| 3 | 5-15-98 | BKE | ADDED GENERAL NOTE | | | | |
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GENERAL NOTES

<u>SPECIFICATIONS</u>: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (MARCH 1, 1995 EDITION)

DESIGN SPECIFICATIONS: AASHTO 1992 EDITION WITH ADDENDA.

STRUCTURAL STEEL: SHALL CONFORM TO AASHTO M270 GRADE 36 (ASTM A709 GRADE 36) UNLESS OTHERWISE NOTED.

REINFORCING STEEL: SEE THE STANDARD SPECIFICATIONS.

<u>GROUTED BARS IN DRILLED HOLES</u>: HORIZONTALLY DRILLED HOLES SHALL BE DRILLED 1/2'' IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH NON-SHRINK GROUT AND BAR DRIVEN TO ITS SEAT. VERTICALLY DRILLED HOLES SHALL BE DRILLED 1/a''IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH EPOXY GROUT AND BAR DRIVEN TO ITS SEAT. ALL GROUTING MATERIAL SHALL BE APPROVED BY T.D.O.T. MATERIALS AND TESTS.

SHOP DRAWINGS: SHALL BE SUBMITTED ACCORDING TO SPECIAL PROVISION NO. 105A, EXCEPT SHOP DRAWINGS SHALL BE SUBMITTED TO THE HEADOUARTERS BRIDGE INSPECTION AND REPAIR OFFICE IN LIEU OF THE DIVISION OF STRUCTURES.

BOLTS: SHALL BE HIGH TENSILE STRENGTH BOLTS (ASTM-A325), UNLESS OTHERWISE NOTED. SIZE TO BE AS NOTED ON PLANS. SEE AASHTO SPECIFICATIONS; ARTICLE 11.5.6 DIVISION II. EXISTING CONTRACT SURFACES SHALL BE CLEANED TO SSPC-10 SPECIFICATIONS PRIOR TO ATTACHMENT OF NEW MEMBERS.

CONCRETE: TO BE CLASS 'A' CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

CONCRETE CURING: ALL CONCRETE IN REPAIR AREAS SHALL BE CURED ACCORDING TO THE STANDARD SPECIFICATIONS.

WELDING: ANSI/AASHTO/AWS D1.5-88 BRIDGE WELDING CODE AND THE STANDARD SPECIFICATIONS.

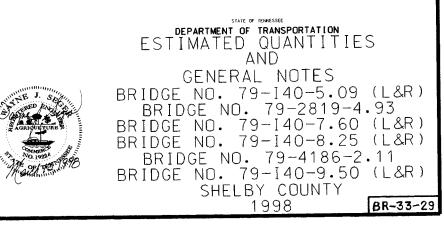
SPECIAL NOTE TO CONTRACTOR: CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURE NECESSARY TO INSURE THAT NO DEBRIS IS DROPPED INTO THE STREAM. ANY DEBRIS WHICH IS ALLOWED TO DROP ON THE BANKS BELOW THE BRIDGE SHALL NOT BE ALLOWED TO ENTER THE STREAM AND SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVING AND DISPOSING OF DEBRIS SHALL BE INCLUDED IN ITEMS BID ON.

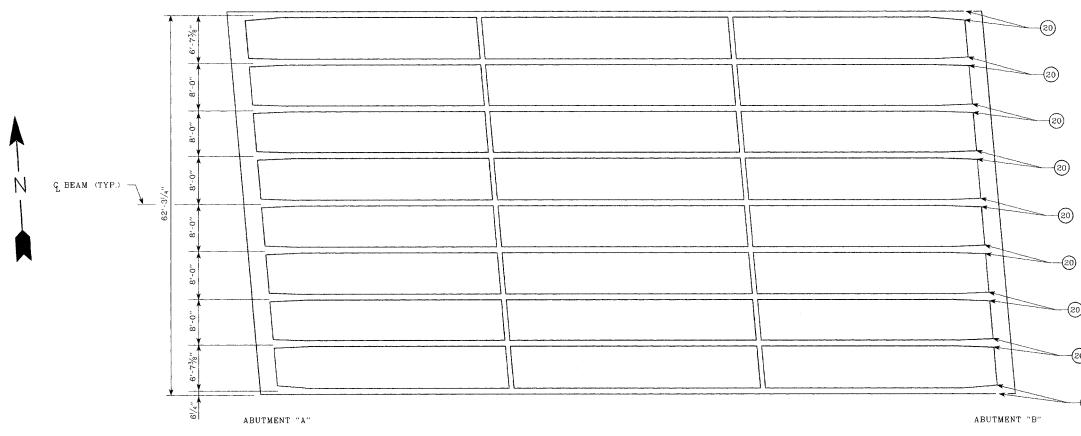
NOTE: ALL STRUCTURAL STEEL FOR SEISMIC RESTRAINER AND LATERAL RESTRAINERS, EXCEPT FOR NON-CORROSIVE WIRE ROPE AND THIMBLES, SHALL BE FABRICATED BY AISC, SIMPLE SPAN BRIDGES CATEGORY, CERTIFIED SHOP.

A SPECIAL NOTE CONCERNING DRILLED ANCHORS: AT ALL LOCATIONS WHERE A DRILLCO MAXI-BOLT OF ANCHOR BOLT IS SPECIFIED, A WILLIAMS UNDERCUTTING ANCHOR SHALL BE ACCEPTABLE AS WELL AS THE DRILLCO MAXI-BOLT.

WIRE ROPE: WIRE ROPE SHALL BE AS SPECIFIED IN AASHTO DESIGNATION M277-81(1990).

WIRE ROPE CLIPS: EACH CONNECTION SHALL HAVE A MINIMUM OF FOUR (4) WIRE ROPE CLIPS AND CUMULATIVELY DEVELOP 125% OF THE YIELD STRESS OF THE WIRE ROPE. THIS YIELD STRESS SHALL BE VERIFIED BY TENNESSEE DEPARTMENT OF TRANSPORTATION MATERIALS AND TEST.





NOTE:

DIMENSIONS GIVEN ARE RADIAL DIMENSIONS. MEASUREMENTS ARE ACROSS BOTTOM OF BRIDGE.

AAAALIST OF DRAWINGS

| WORK | DRAWING NO. REV. DATE DRAWING BR-33-34 | LIST OF SPECIAL PROVISI LAST <u>NO. REV. DATE REGARDING</u> 105A ** APPROVAL OF S |
|-------------------|--|--|
| on and locations. | LIST OF REFERENCE DRAWINGS | ** DENOTES: CURRENT REVISION DATE, AS PER CONTRACT D |
| | (TO BE PRINTED WITH PLANS) | |
| | DRAWING NO. DRAWING | |
| | M-44-33, M-44-36 THRU 38, M-44-41 THRU 43 EXISTING BRIDGE DRAWNGS | |
| | | |

PLAN (EASTBOUND)

GENERAL SCOPE OF W

1) PROVIDE WIRE ROPE SEISMIC RESTRAINTS AT ABUTMEN REFER TO LEGEND AND PLAN VIEW FOR DESCRIPTION

| DESIGNED BY Brian Egli | DATE <u>September</u> , 1997 |
|---|------------------------------|
| DRAMN BY <u>Cory Hawkins</u> SUPERVISED BY <u>Mike Lawson</u> , J. Christianson CHECKED BY <u>Mike Lawson, Brian Cali</u> | DATE December, 1997 |
| CHECKED BY Mike Lawson, Brian Egli | DATE Jebruary, 1998 |

BR-33-34

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION SEISMIC RESTRAINER LAYOUT INTERSTATE 40 (EASTBOUND) OVER NORTH HOLLYWOOD STREET BRIDGE NO. 79-140-7.60 SHELBY COUNTY 1998

SHOP DRAWINGS DOCUMENTS.



BRIDGE NO. 79I00400073 & 79I00400074

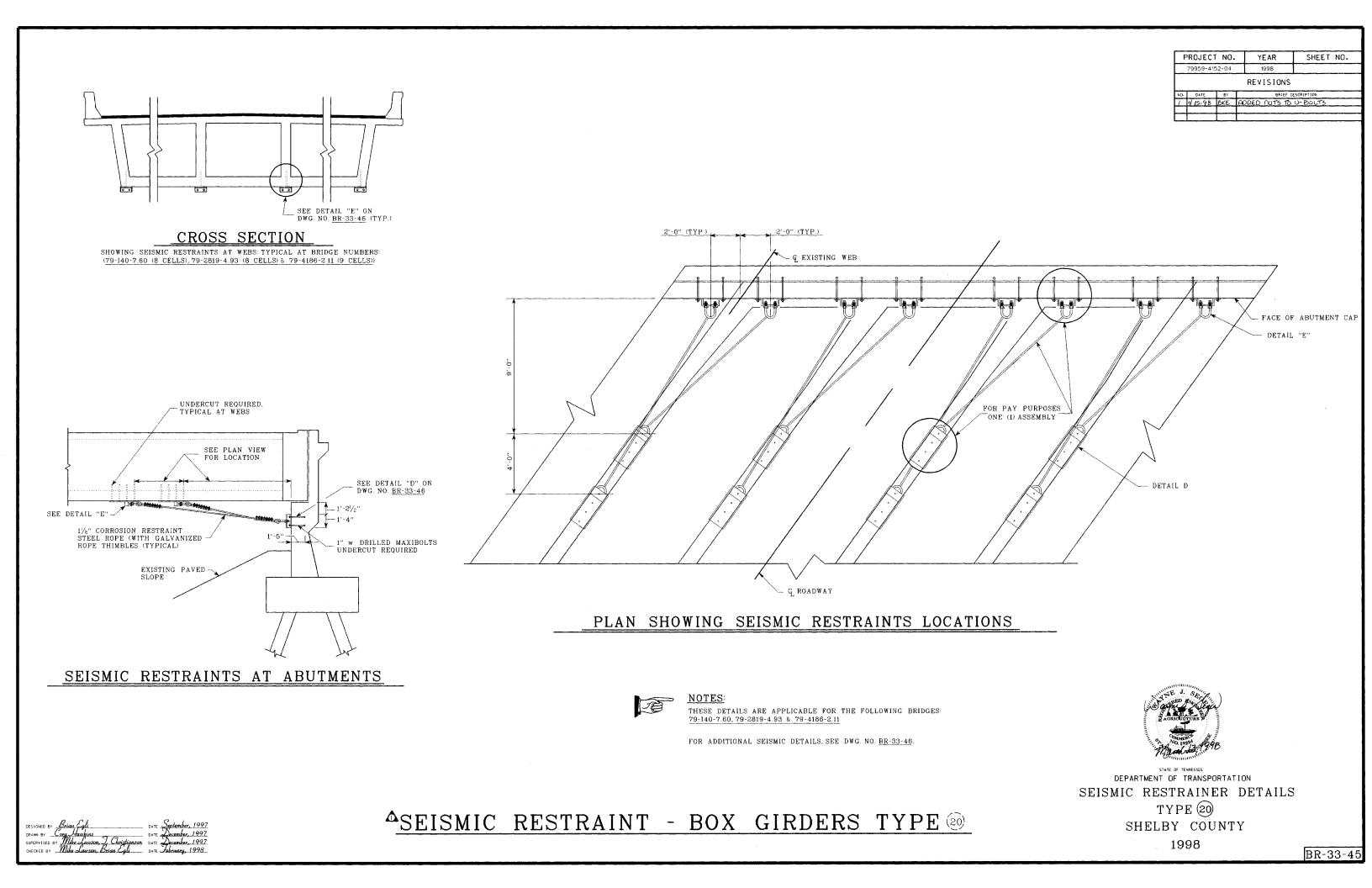
 $\underbrace{\text{LEGEND}}_{\text{(20)}} \text{ denotes: seismic restraint type (20). see drawing } \underbrace{\text{BR-33-45}}_{\text{AND}} \text{ and } \underbrace{\text{BR-33-46}}_{\text{BR-33-46}} \text{ for details.}$

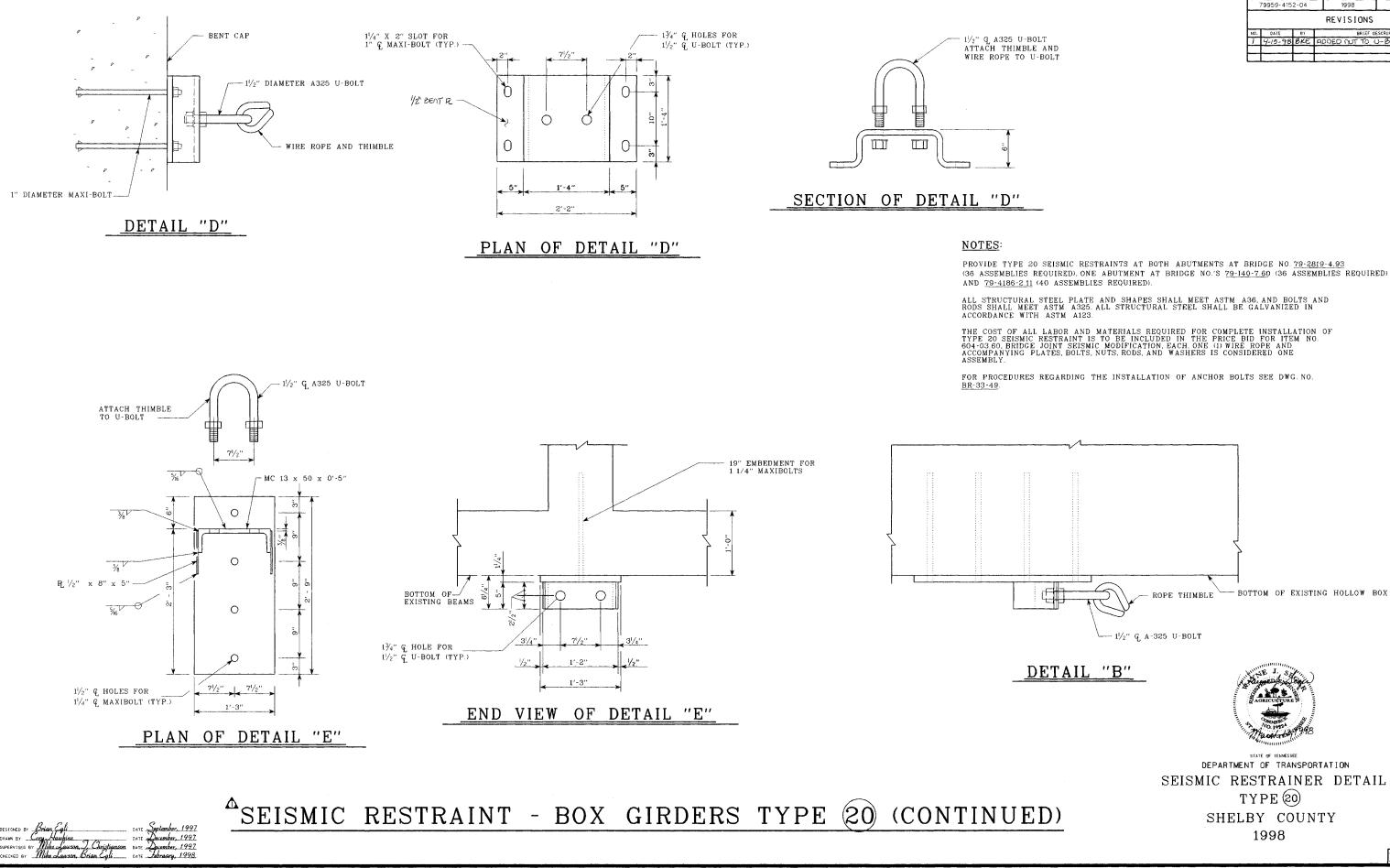
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BR-33-46

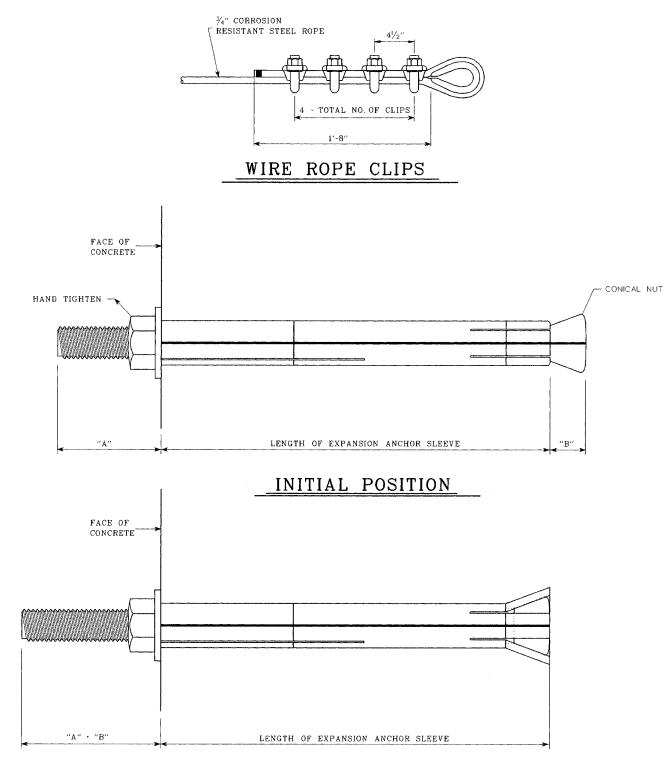
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION SEISMIC RESTRAINER DETAIL TYPE 📀 SHELBY COUNTY 1998





- BOTTOM OF EXISTING HOLLOW BOX BRIDGE

PROJECT NO. YEAR SHEET NO. 79959-4152-04 1998 REVISIONS 4-15-98 BKE ADDED NUT TO U-BOLT



SET POSITION

PROCEDURE FOR INSTALLATION OF ANCHOR BOLTS:

(3/4" DIAMETER DRILLCO MAXI-BOLT OR WILLIAMS BOLTS)(UNDERCUTING REQUIRED)

- 1. LOCATE PLACEMENT OF EXISTING REBAR IN VICINITY OF ANCHORS WITH A REBAR LOCATING DEVICE AND MAKE NECESSARY CORRECTIONS IN LOCATIONS OF ANCHORS ON CONCRETE. ANCHOR LOCATION MAY VARY PLUS OR MINUS 3 INCHES IN ANY DIRECTION BUT THE HOLE SHALL BE DRILLED WITHIN 6 DEGREES OF PERPENDICULAR TO THE NOMINAL CONCRETE SURFACE. CUTTING OF REBAR WILL BE ALLOWED.
- 2. HOLES SHALL BE DRILLED WITH A CARBIDE PERCUSSION DRILL BIT, A "REBAR EATER" BIT OR A DIAMOND CORE BIT.
- 3. THE DRILL BIT DIAMETER AND HOLE DEPTHS ARE SPECIFIED AS FOLLOWS: a) THE MAXIMUM DRILL BIT DIAMETER SHALL NOT EXCEED 1.172 INCH DIAMETER. b) THE HOLE DEPTH SHALL NOT BE LESS THAN THE ANCHOR EMBEDMENT PLUS 1^{1}_{2} INCHES BUT MAY EXCEED THE SPECIFIED HOLE DEPTH BY NOT MORE THAN 1 INCH
- 4. IF AN ANCHOR MUST BE RELOCATED AND A NEW HOLE DRILLED, THE OLD HOLE SHALL BE REPAIRED WITH A NON-SHRINKAGE PACK GROUT.
- 5. UNDERCUT IN PRIMARY HOLE SHALL BE AS SPECIFIED BY THE MANUFACTURER OF THE UNDERCUTTING TOOL
- 6. CLEAN THE HOLE OF CONCRETE DUST AND DEBRIS USING OIL FREE COMPRESSED AIR OR BY VACUUMING. PLACE BEARING SLEEVE FLUSH WITH THE CONCRETE SURFACE.
- 7. THE EXPANSION SLEEVE IS TO EXPAND INTO THE UNDERCUT CREATED BY THE UNDERCUTTING TOOL THEREFORE THE ANCHOR TUBE MUST TERMINATE AT THE BASE OF THE UNDERCUT SECTION.
- 8. TO SET THE ANCHOR, IT IS NECESSARY TO DRAW THE CONICAL NUT OF THE STUD BOLT INTO THE ANCHOR SLEEVE. AFTER THE ASSEMBLY IS INSERTED INTO THE DRILLED HOLE, THE ANCHOR WILL BE CONSIDERED SET WHEN THE DIMENSION "A" (SEE ANCHOR SETTING DETAILS) HAS INCREASED BY AN AMOUNT EQUAL TO DIMENSION "B". AFTER THE STEEL PLATES ARE IN PLACE THE FINAL TENSION LOAD OF 28400 LBS. SHALL BE APPLIED. THE ANCHOR LOADS MAY BE APPLIED BY MANUAL TORQUING OR HYDRAULIC TENSIONING.
- 9. BECAUSE OF CLOSE TOLERANCE BETWEEN CONICAL NUT O.D. AND HOLE I.D. IT MAY BE NECESSARY TO LIGHTLY HAMMER THE ANCHOR INTO THE HOLE. IF HAMMERING IS NECESSARY, STEPS SHALL BE EMPLOYED WHICH WILL PREVENT DAMAGE TO THE STUD BOLT THREADS.
- 10. INSTALLATION PROCEDURES REQUIRED BY THE ANCHOR MANUFACTURER IN ADDITION TO THE INSTRUCTIONS LISTED ABOVE SHALL BE FOLLOWED.
- 11. BENT PLATES SHALL BE ASTM A709 (GRADE 36) MATERIAL GALVANIZED TO ASTM A123 STANDARD
- 12. POSITION OF PLATE OR ANGLE ON BEAM: ABUTMENTS: THE PLATE OR ANGLE ON BEAM. IN THE FULL EXTENDED POSITION AND PLATE OR ANGLE POSITION MARKED. THE PLATE OR ANGLE SHALL THEN BE SHIFTED TOWARD THE ABUTMENT 3" AND THE ANCHOR BOLT LOCATIONS MARKED THROUGH THE PLATE OR ANGLE ANCHOR HOLES. BENTS (BEAM TO BEAM): AFTER ONE ANCHOR HAS BEEN ATTACHED THE ANGLE OF THE OTHER SHALL BE POSITIONED ON THE BEAM WITH CABLE IN THE FULL EXTENDED POSITION ANGLE POSITION MARKED. THE PLATE OR ANGLE SHALL THEN BE SHIFTED TOWARD THE BENT 3" AND THE ANCHOR BOLT LOCATIONS MARKED THROUGH THE

PROCEDURE FOR INSTALLATION OF ANCHOR BOLTS:

(3/4" | HILTI BOLTS OR EQUAL)(NO UNDERCUTTING REQ'D)

ANGLE ANCHOR HOLE.

1. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PROCEDURES.

ANCHOR SETTING DETAILS

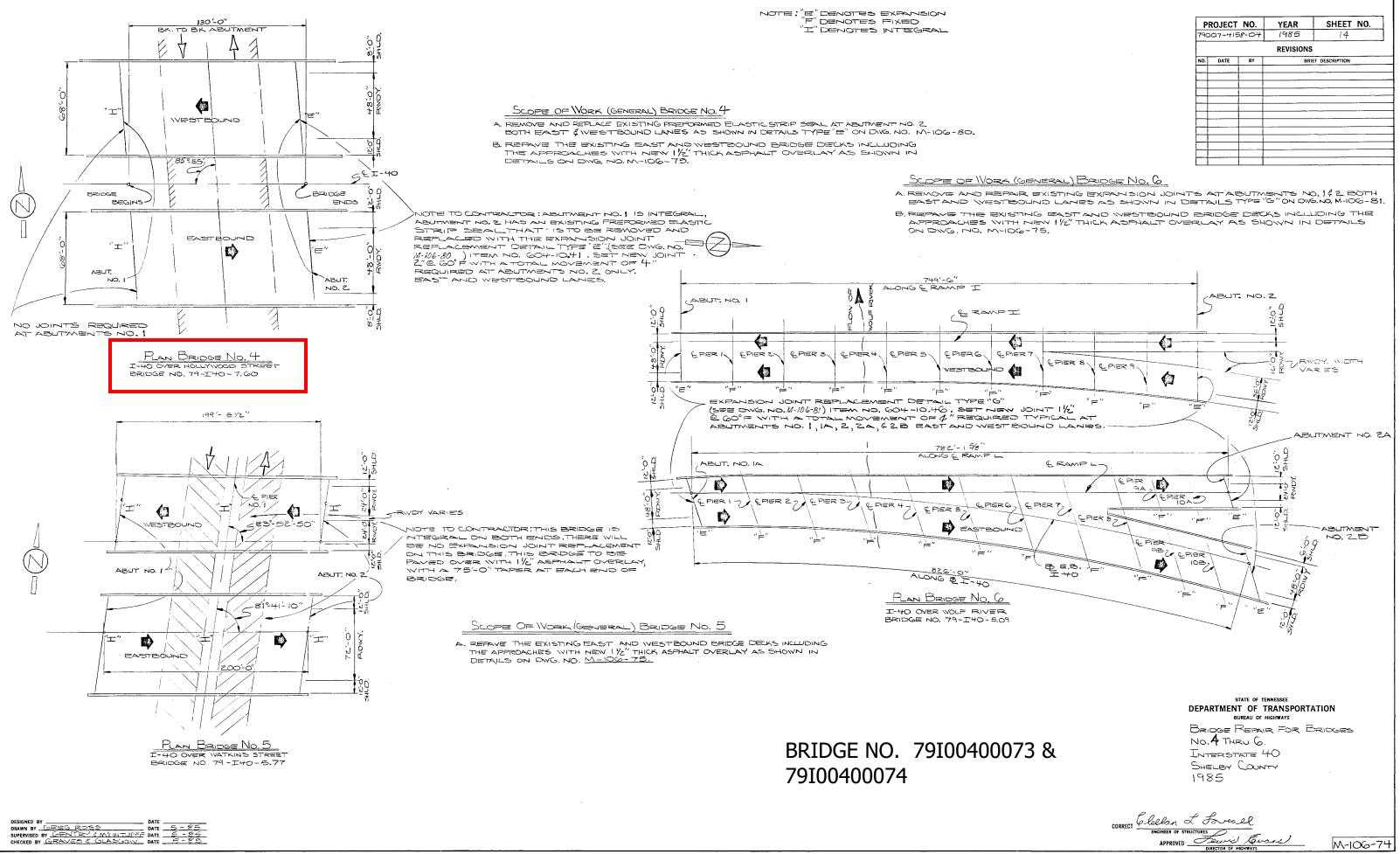
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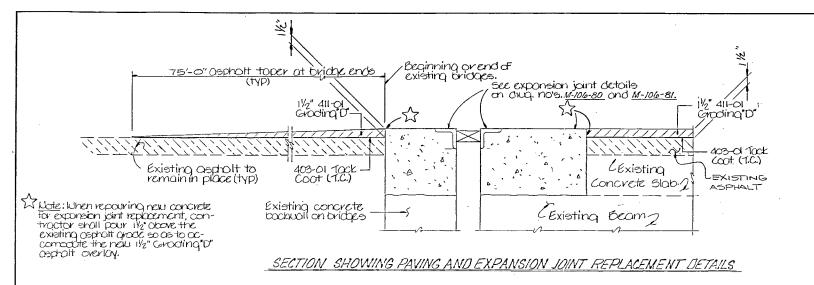
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BOLT INSTALLATION SHELBY COUNTY 1998





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ALL EXISTING BRIDGE DECK DRAINS, WHEN ALL EXISTING BRIDGE DECK DRAINS, WHEN ADPHALT OVERLAY CARE SHALL BE TAKEN OVERLAY AROUND THE BRIDGE DECK DRAIN DRAINS AND TAPERING THE NEW ASPHALT O INCLUDED IN COST OF ITEMS BID ON.

ESTIMATED QUANTITIES

| | ITEM NO. | TEM | UNIT | | 10.4 -40/ 2117110000 57 RIDG= NO. 9-I40- | NO. 5 I-40/ IVATKINS ST. BRIDGE NO. 79-240- | BRIDGE NO. G I-40/WOLF RIVER BRIDGE NO. 79-II40- 5.09 | TOTAL |
|------|-----------|--|------|---|--|---|---|-------|
| _/ | 403-01 | Bituminous Material for tack Cont (T.C.) | Tan | | .75 | .75 | 1.5 | 3 |
| - Q- | | Miners! Assessite for Asphaltis Concrete Surface (ACS) Gr. "D" | Ton | | 227 | 381 | 1230 | 1838 |
| | 611-01.02 | Aspinali Cement for Aspinalis Concrete Surface (ACS) GP."". | Ton | 1 | 15 | 24 | 79 | 118 |
| 91 | 604-10.41 | Expansion Joint Reporte (Type"") | L.F. | | 138 | | [| 138 |
| Ś | 604-10.43 | Exponsion Coint Repairs (Tupe"G") | L.F. | - | | | 378 | 378 |
| | | | 1 | | | | | |
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DENOTES ITEMS FOR NEW 1%" ASPHALT OVERLAY ON BRIDGES NO." THRU G. SEE PAVING DETAILS ABOVE AND PLAN OF BRIDGES ON DWG. NO M-106-74

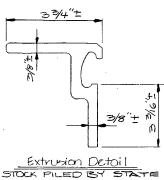
C DENOTES EXPANSION JOINT REPAIR ON BRIDGES NO. 4,46. SEE DETAILS AND NOTES ON DWG. NO'S. M-106-76, M-106-77, M-106-80, M-106-61, AND REE OPECIAL NOTE BELOW.

Special Note Concerning Expansion Joint Repair Bid Item Nots. 604-10.41, 000 604-10.46,

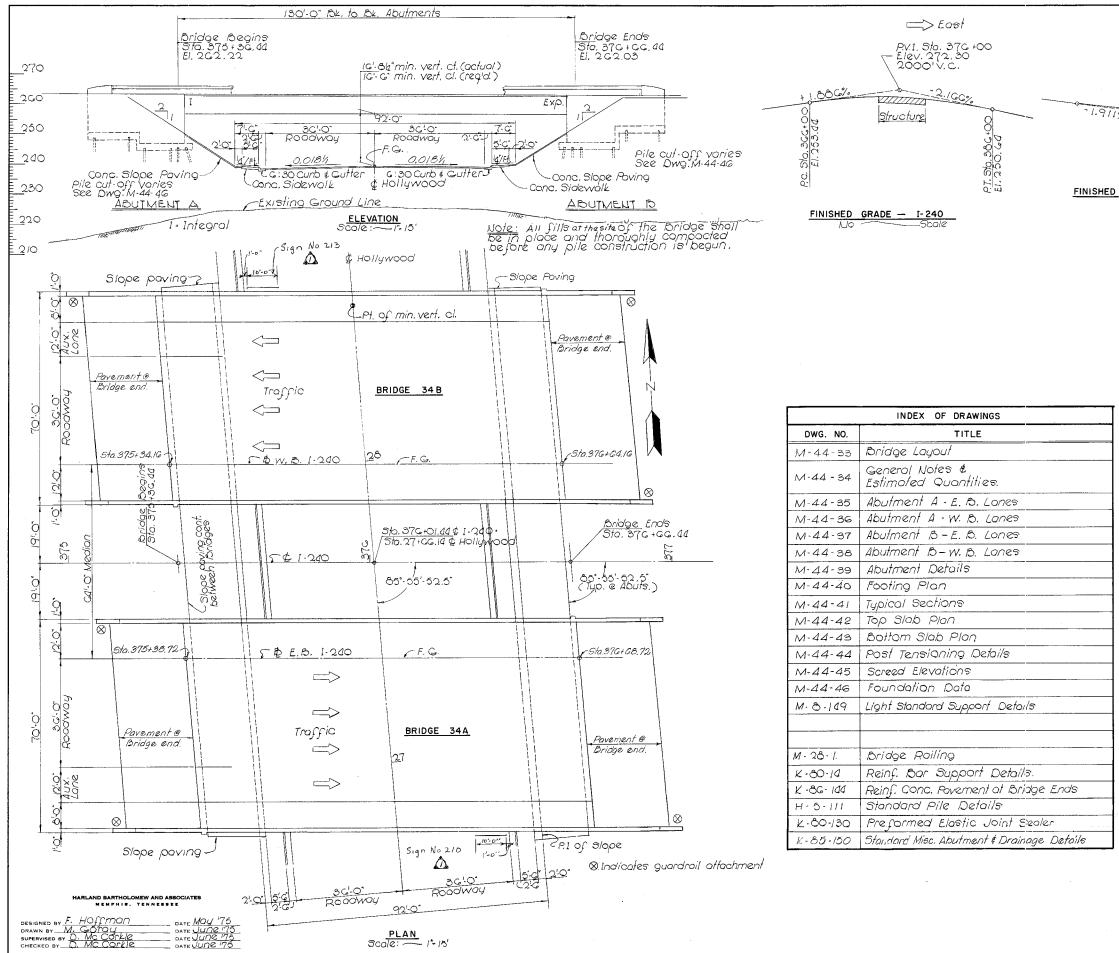
The contractor shall inspect 450± Feet. (22 individual pieces) of steel extrusions that are stored of the state construction of Fice, located on centennial Blyd. In Lashville, prior to submitting a bid for items no. 64-10.41 and 604-10.46. These extrusions are state property. The successful bidder on this project shall make provisions for picking up the extrusions and utilizing as much of the 450± Feet as reasonably possible in the fobrigation of the expansion joints specified in items no. 64-10.41 and 604-10.42, shop drawings for the expansion joints shall show each individual piece of these extrusions and where they are used, see detail below for configuration of extrusions that are stack pilled of the state construction office.

DESIGNED BY

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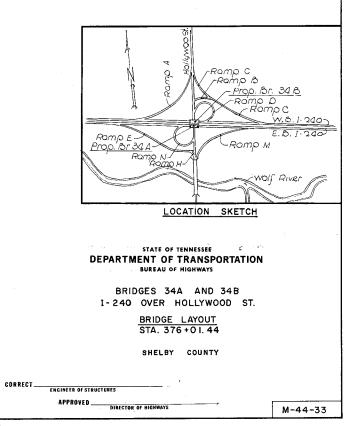
| E FOR THE CLEANING OF | PROJECT NO. | YEAR | SHEET NO. |
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| - Overlay shall be | NO. DATE BY | REVISIONS | F DESCRIPTION |
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| GENERAL NOTES | : | | |
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| LIST OF DRAWINGS | | | |
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| DRAWING | <u>DWG, NO,</u> | | <u>ast rev date</u> |
| BRIDGE REPAIR DETAILS BRIDGE REPAIR AND ESTIMATED QUANTITIES-1 | | | |
| Reference Drawings | | | |
| | | | |
| BRIDGE NO. 4 M-44-3 | | | |
| BRIDGENO.5 M-44-1 | 3,37,38,41 9,410 | 04400 | |
| BR:DGE NO. 6 M-44-70 10 | 9,10,¢111 | 97,108 | |
| | | | |
| LIST OF DRAWINGS TO BE F | RINTED WITH | + PLANE | 2 |
| DRAWING | D.VG. NO. | <u>L</u> | AST REV DATE |
| STRIP SEAL EXPANSION JOINTS REFLACEMENT CONSTRUCTION | | | |
| | N-106-80 | | |
| STRIP SEAL EXPANSION JOINTS REPLACEMENT CONSTRUCTION | | | |
| | n-106-81 | | |
| GENERAL NOTES FOR EXPANSION | | | |
| JOINT REPLACEMENT CONSTRUCTS | V-106-76 | | |
| EXPANSION JOINT REPLACEMEN | | | |
| Construction details type "a" thru " \mathbf{J} " N | 1-106-77 | | |
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| P. | BUREAU OF H | | STIMATED |
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| CORRECT Glellon I | foreall | | |
| ENGINEER OF STRUC | TURES · , E |) | |
| APPROVED | DIRECTOR OF HIGHWAYS | us | M-106-75 |



MICROFILME

| х-281 Соль <i>Н. No. 790</i> 07-3125-44 | PROJECT NO. EAC 1-240-1(132)6 | YEAR 1975 | SHEET NO. |
|--|--------------------------------------|--------------|---|
| North | EAU 1-240-1(134)6 | REVISION | s |
| | NO. DATE BY | | F DESCRIPTION Cation of Signs 213 |
| +0.484% | | | |
| P.V.I. Sto. 2C +75 -El. 238.15 150' V.C, | | | - |
| | TES: Dee Dwg. M-44 Dnd Summary | 34 for G | eneral Notes |

BRIDGE NO. 79I00400073 & 79100400074



GENERAL NOTES

<u>SPECIFICATIONS:</u> Standard Road and Bridge Specifications of the Tennessee Department of Highways (1968 Edition)

2. LOADING: H3.20.00 and Alternate Military.

3. DESIGH SPECIFICATIONS: 1973 AASHO and Addenda.

- 4. CONCRETE: To be Closs A* f'C = 4000 pair for Superatructure concrete \$ 3000 pair for 15. LINGEED OIL PROTECTIVE TREATMENT: Surfaces receiving a Textured Coated Finish Substructure and parapets. See Special Provision Regarding Section CO4 Concrete \$ 3000 pair for 15. LINGEED OIL PROTECTIVE TREATMENT: Surfaces receiving a Textured Coated Finish Structures.
- 5. REINFORCING STEEL: To be ASTM AGIS Grade GO. Standard CRSI hook details opply unless otherwise noted on Bill of Steel. Bending dimensions shown, are based on Grade GO Steel. Spacing dimensions are center to center unless otherwise noted on detail drawings.
- G. BRIDGE RAIL: Build bridge rail in accordance with Tenn. Std. Dwg. M.28.1
- 7. FINISHING CONCRETE SURFACES: Concrete finishing shall be in accordance with Section CO4, 22 of the Tennesse Standard Specifications except as modified by the Special Provision Regarding Section CO4 Concrete Structures. A Textured Chated Finish shall be used in lieu of a Closs 2 Finish. The color of the finish Sholl be Similar to Federal Specification No. (See Detail) Federal Color Standard 3950, and a color sample Sholl be Submitted to the Engineer of Structures for approval. All exposed Concrete Surfaces, including concrete parapets and wingposts, piers and abutments above grade (but not including bridge slab), Sholl receive a textured cooted. finish.
- 8. FOUNDATION NOTE: FRICTION PILES: After excavating to the proposed footing elevations a test pile shall be driven at each substructure of the locations designated on drawing number M-44-40 . A load test will then applied to the test pile on Abut A-E.B. Lanes and Abut B:WB Lanes. The load test shall be in accordance with Special Provision Regarding Load test for Friction Piles." From the results of the load test the Engineer of Structures will determine final pile tip elevations, For pile design loads, cut-off elevations and pile tip elevations see table on Own Wo.M-44-46 on Dwg. No. M-44-46.
- <u>9. Alternate piles:</u> The contractor may use piling of a different materials or configuration from that shown on the plans provided the substitution meets minimum design standards and specifications, is approved by the Engineer and conforms to conditions established by the Special Provision No. 131, Regarding Section 606, Piling dated October 1, 1975.

11. LOADING TESTS: See Special Provision Regarding Load Tests for Friction Piles.

12. BRIDGE DECK SEALANT: The Bridge deck and reinforced approach slab shall be sealed in a juliure paving contract (2050 Sq. Yds. required.)

13. BRIDGE DECK FORMS: Dridge deck forms for concrete decks shall be constructed using either, removable forms or permanent forms. In either case, forms shall be attached by means other than welding to Support members. See Special Provision Regording Permanent Steet Bridge Deck forms, Revised November 9, 1973.

M. POST TENSIONING: See Special Provision No. 560, Special Provision Regarding Post-Tensioned Prestressed Concrete and Notes on Dwg. M-44-44.

- Section GO4 Concrete Structures.
- IG BEARING DEVICES: In lieu of the bearing devices shown on these plans the Contractor may submit shap plans and design calculations of alternate bearing devices to the Engineer of Structures for approval. Bearing seat elevations shall be adjusted to compensate for differences in bearing heights. The bearings shall be capable of providing the following minimum requirements under service loads. (Laminated pads - 50 durometer regid., plain pads -70 durometer reg(d.)
 - Total Movement 98" Dead Load Reaction - 150* Live Load Reaction - 35* Total (D.L.+L.L.+Z) Reaction - 185 K

- (2) See Alternate Pile note.

- (8)

| | | | | | SUMMARY | OF ESTIMATE | D QUANTITIES | ; ; | | | | | | | |
|---------------------|-------------|----------------------------------|--|------------------------------|--|---|--|-----------------|-------------------------------|---|--------------------------------------|------------------------------|--------------------------|---|--------------------------------|
| Item NO. | 204-02,01 | 604.03.01 | 604-03,02 | 604-25.04 | | | | | ୋତେଥି | 710-10 | 710.11 | 714.01.03 | 604-03.03 | 602-05.07 | 908-21,02 |
| Description | | Closs A Concrete (Bridges) | Steel Dar Reinforcemen (Bridges) | Textured Coated Finish | Test Piles (Precost Conc Size 1) (2) | Loading Test (Precost Conc Size 1)(2) | Precost Conc. Piles - Size 1 (2) | Post Tensioning | Concrete Paropet (G)(7) | GifPerf. C.M.P. (1890)W/Porous Dockfill (3) | G'\$C.M.P. Underdroins (18ga)) | Structure Lighting (4) | Linseed Oil Treatment | Preformed Elastic Joint Sealer Type I | Bearings (Laminoted) E 1 |
| Unit . | Cu, Yds. | Cu, Yds, | Lbs. | 59, YOS, | Lin. Ft. | Each | Lin. Ft. | Lump Sum | Lin. Ft. | Lin. Ft. | Lin. Ft. | Lump Sum | Sq.Yds. | Lin. Ft. | Each |
| Abutment A | 280 | 203,0 | 16,994 | 300 | 40 | | 2260 | | | /35 | 4 | | | 67 | |
| & Abutment B | 280 | 225.9 | 17,282 | 300 | 40 | 1 | 2260 | | | /35 | 4 | | 136 | 67 | |
| S Rymit at Br. Ends | | 139.9 | 33,046 | | | | 60 | | | | | | 362 | | |
| Superstructure | | 620.4 | 108,217 | 1410 | | | | .5 | 376 | | | .5 | 946 | | 9 |
| Q Abutment A | 280 | 203,0 | 16,994 | 300 | 45 | 1. 1 | .2535 | | | 135 | 4 | | | 67 | |
| & Abutment B | 280 | 225.9 | 17,282 | 300 | 40 | | 2260 | | | 135 | 4. | | 136 | 67 | |
| Pvm't of Pr. Ends | | 139.9 | 33,046 | | | | 60 | | | | | | 362. | | |
| Superstructure | - | 620.4 | 108,217 | 1410 | | | | . 5 | 376 | | | .5 | 946 | | 9 |
| Total | 1120 | 2378.4 | 351,678 | 4020 | 165 | 2 | 9475 | 1 | 752 | 540 | 16 | 1 | 2888 | 268 | 18 |
| | BARTHOLOMEW | | | | | | | | | | | | <u>_</u> | | <u> </u> |

| DRAWN BY M. GOLOY | DATE APril 175 DATE APRIL 175 |
|---------------------------|----------------------------------|
| SUPERVISED BY D. MCCORLIC | DATE <u>ADII 70</u> |
| CHECKED BY D. MCCORLIC | DATE <u>ADII 75</u> |

ANCROFILM

CONST. No. 79007 - 3125-44

| PF | ROJECT | NO. | YEAR | SHEET NO. |
|-----|--------|----------|----------|---------------------------------------|
| EAC | I-240 | -1(132)6 | 1975 | |
| | | | REVISION | S |
| NO. | DATE | BY | BRIE | F DESCRIPTION |
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QUANTITY NOTES

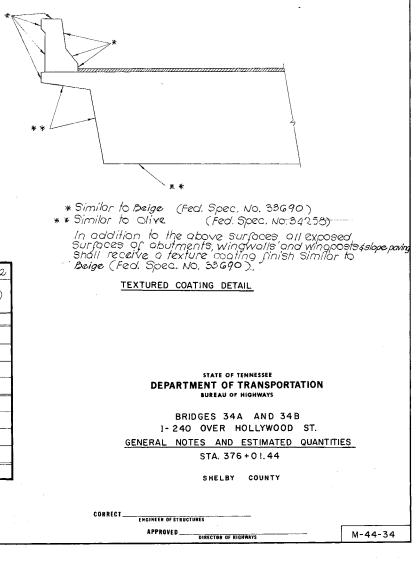
(1) Excovotion based on lower roadway profile.

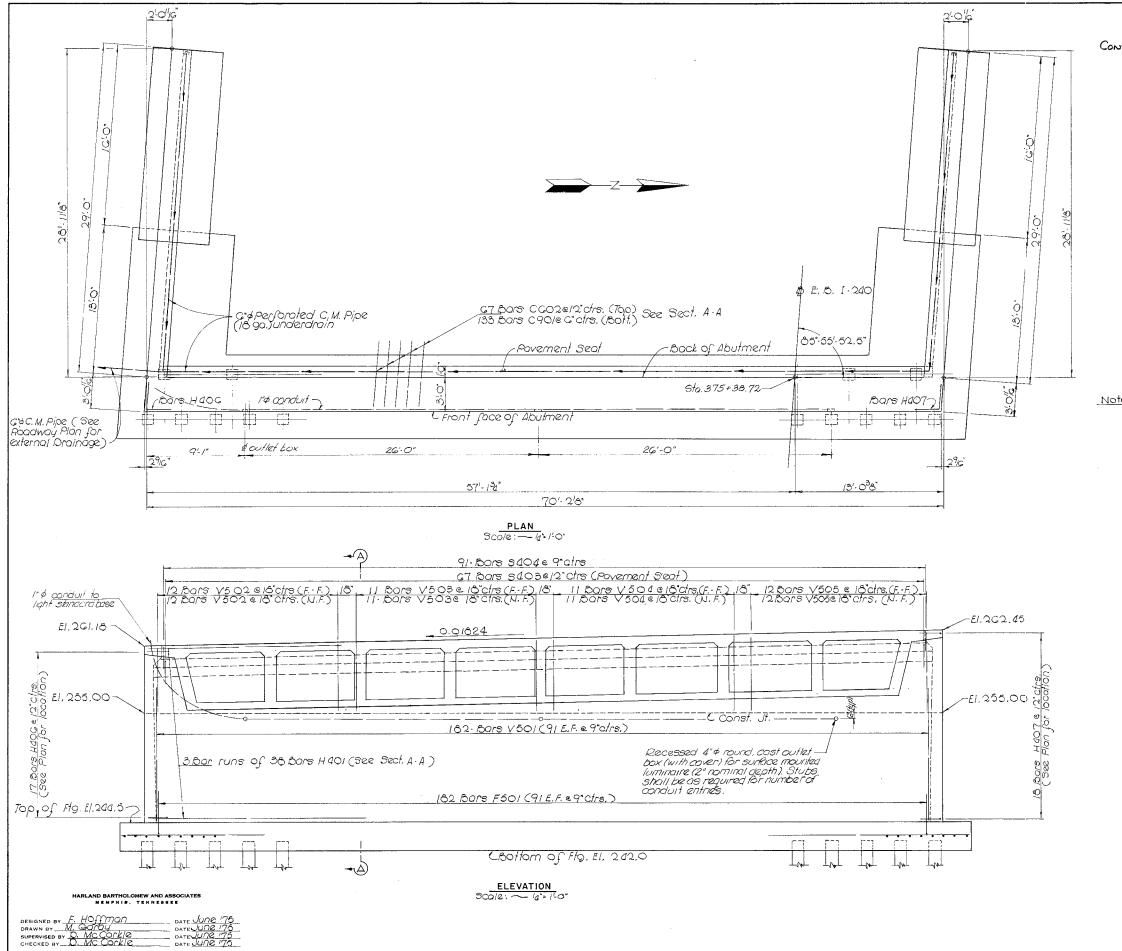
(3) The cost of polyethylene sheeting and all miscellaneous items necessory for installation to be included in the cost of perforated C.M. Pipe.

(4) Lump Sum for Structure Lighting includes 425+ lin, ft 2" & conduit with puil wires, 130+ lin. ft. 1" & conduit with pull wires, 4 pull boxes, 6 condulets, and 8 anchor bolts on each structure and all necessary materials for installation of future struct. lighting (5) The cost of 16 threaded steel inserts and 16.787 ×4" hex head bolts (A 307) Shall be included in Bridge Items bid on.

(c) Quantity given is out to out of Wingposts. (7) The cost of light standard base including concrete and reinfarcing to be included in price bid

for bridge parapet. The cost of bituminous fiberboard, 2"4 Abutment drains and miscellaneous joint material to be included in bridge items bid on.





ROFILME

CONST. No. 79007-3125-44

| | ROJECT | | YEAR | SHEET NO. | | | | |
|-------------------------------|--------|--|---------------------------------------|-----------|--|--|--|--|
| EAC I-240-1(132) 6 1975 | | | | | | | | |
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NOTES:

- I. See Dwg, M-44-40 for Footing Layout, Bill of Steel and number and location of piles.
- 2, See Std. Dwg. M-28-1 for parapet & wingpost reinforcement to be placed in wingwall.
- 3. See Dwg, M-44-39 for Elevation View of Wings.
- 4. See Dwg. M-44-36 for Section A-A.

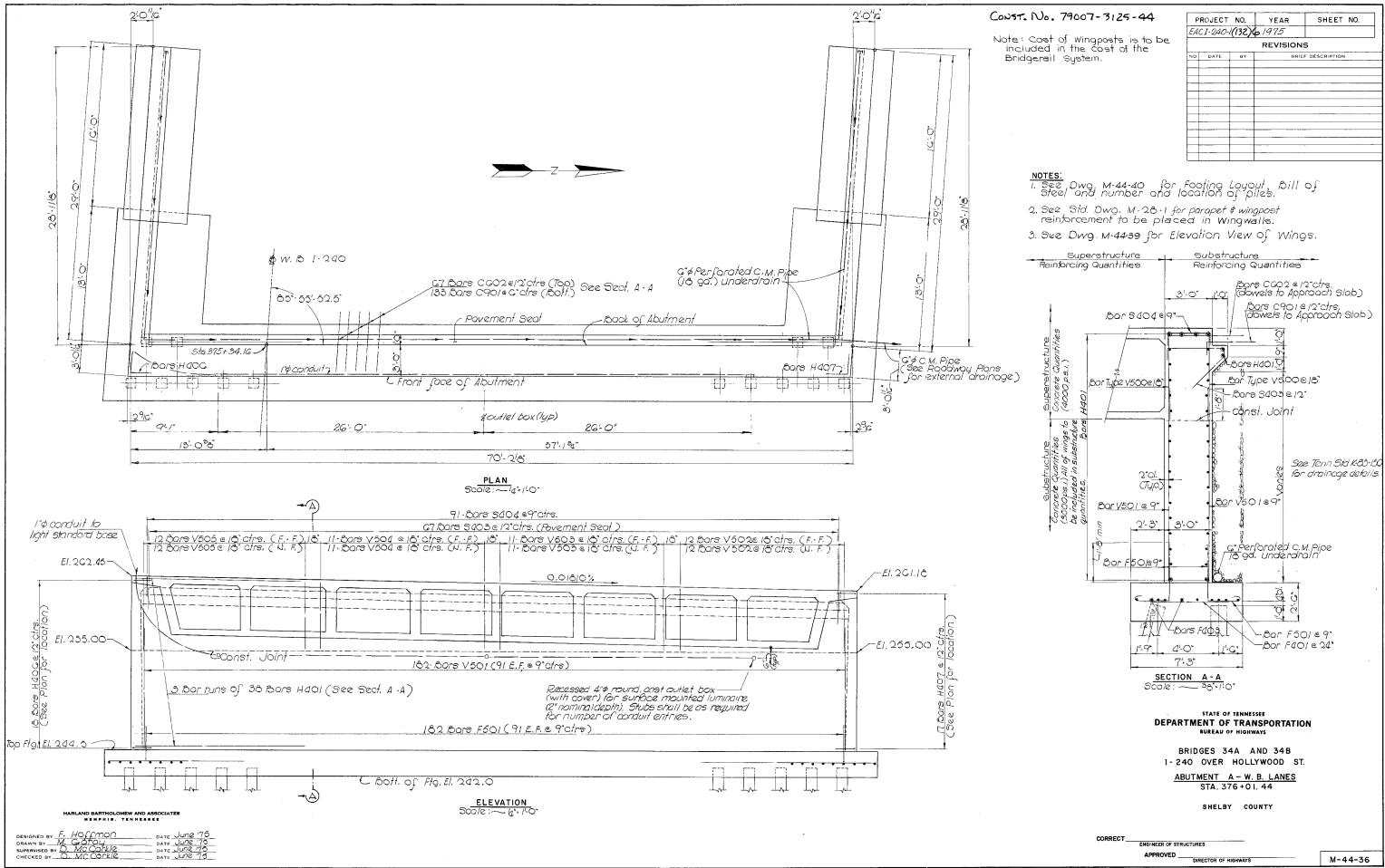
<u>Note:</u> Cost of Wingposts is to be included in the cost of the Bridge Rail System.

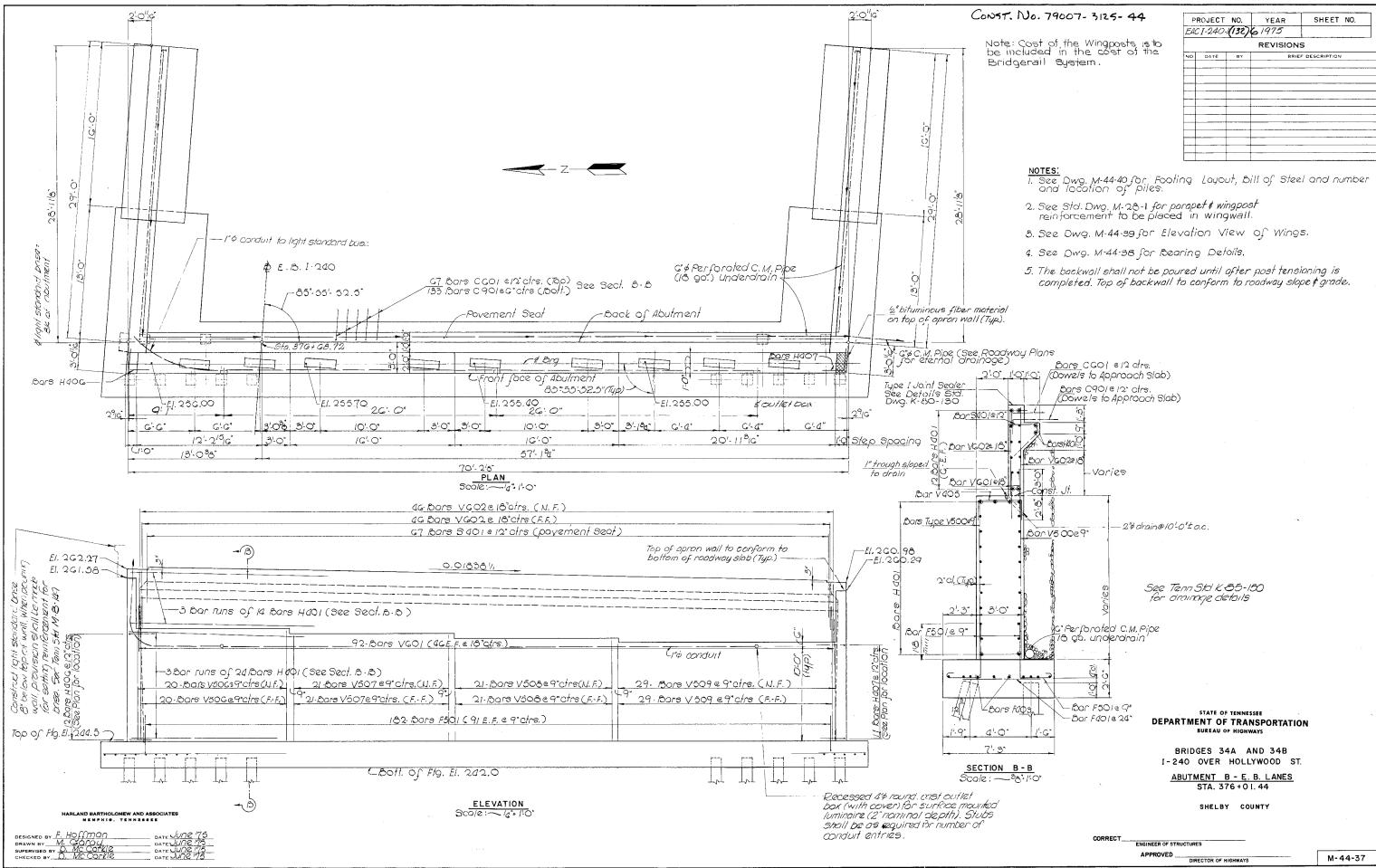
STATE OF TENNESSEE BUREAU OF HIGHWAYS

BRIDGES 34A AND 34B 1-240 OVER HOLLYWOOD ST. ABUTMENT A - E. B. LANES STA. 376+01.44

SHELBY COUNTY

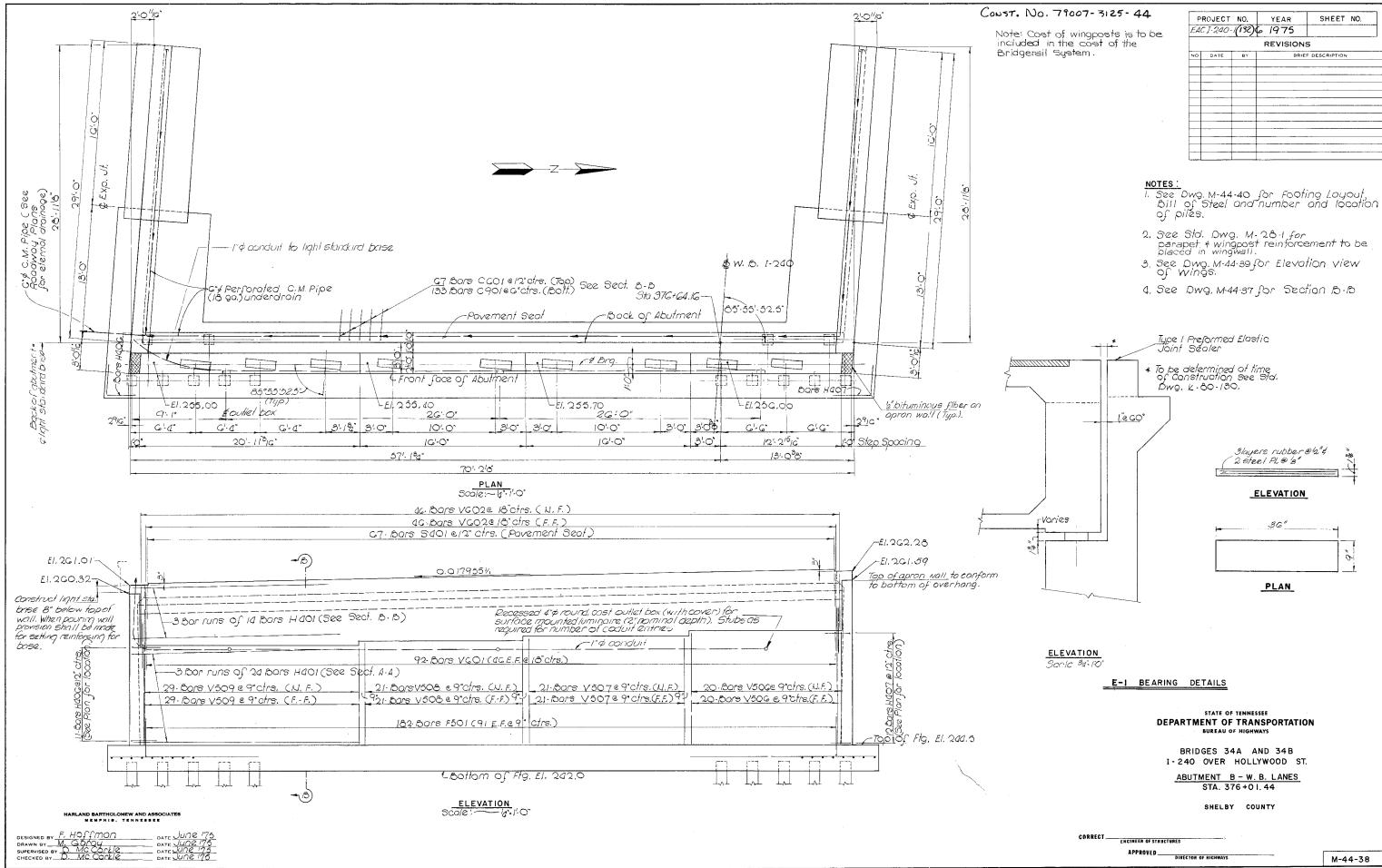
CORRECT_ ENGINEER OF STRUCTURES APPROVED DIRECTOR OF HIGHWAYS





LUCKOEKTY

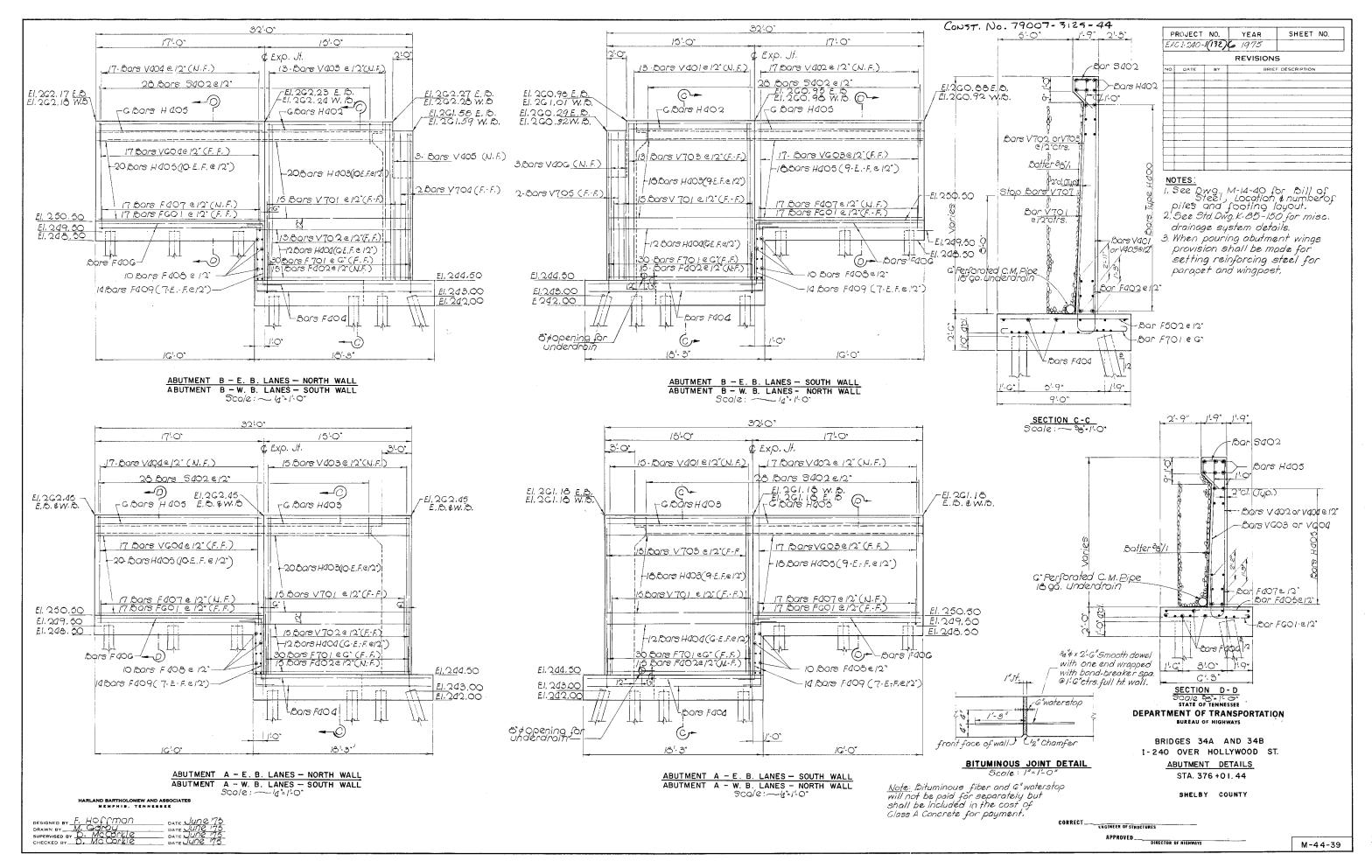
| 9007- 3125- 44 | PROJEC | T NO. | YEAR | SHEET NO. |
|-----------------------------------|-----------|----------|----------|---------------|
| | EAC I-240 | 2. (132) | 61975 | |
| Wingposts is to he cast of the | | | REVISION | s |
| n. | NO. DATE | BY | BRIE | F DESCRIPTION |
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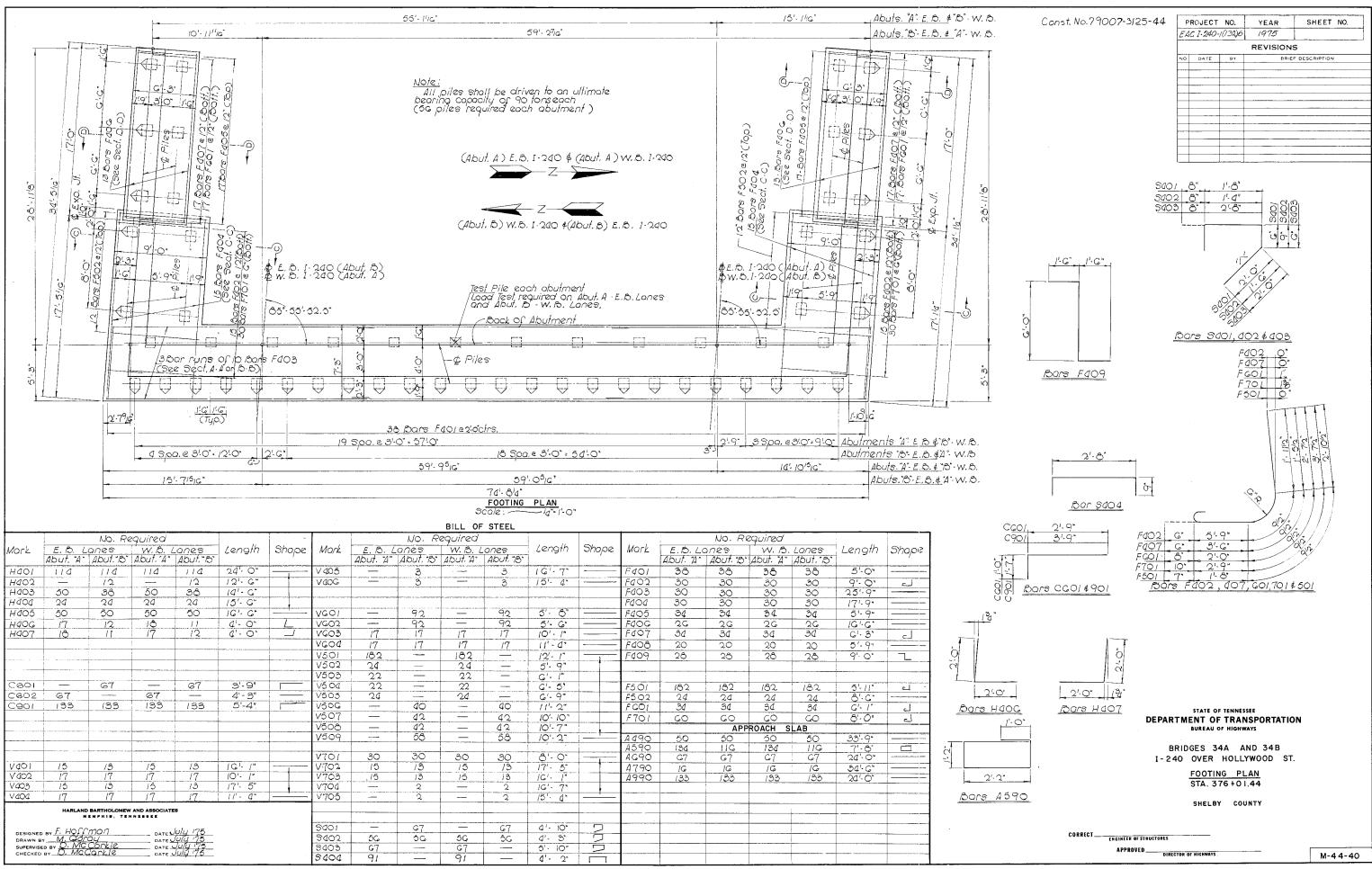
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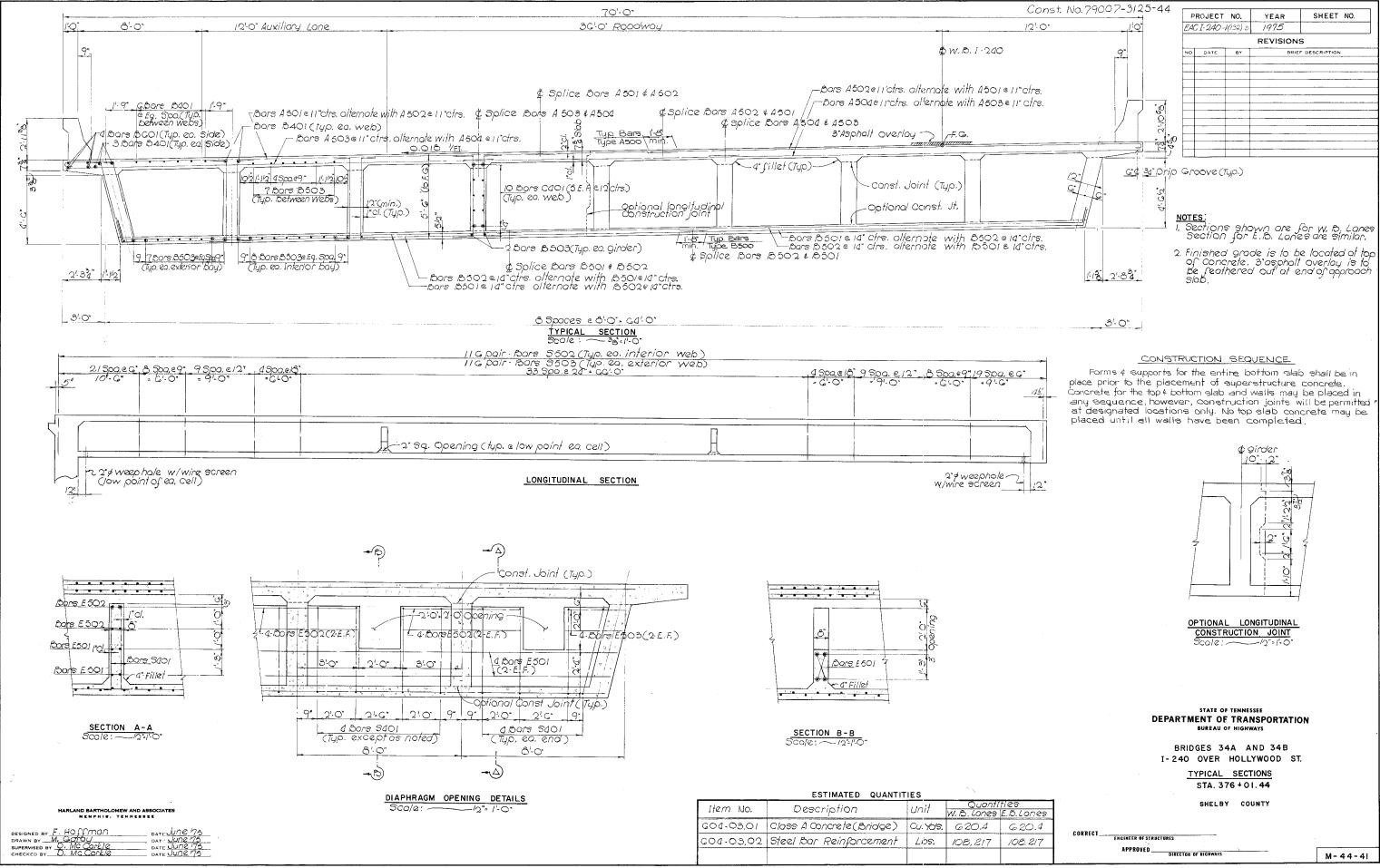
| | JECT -240- | YEAR 9 1975 | SHEET NO. |
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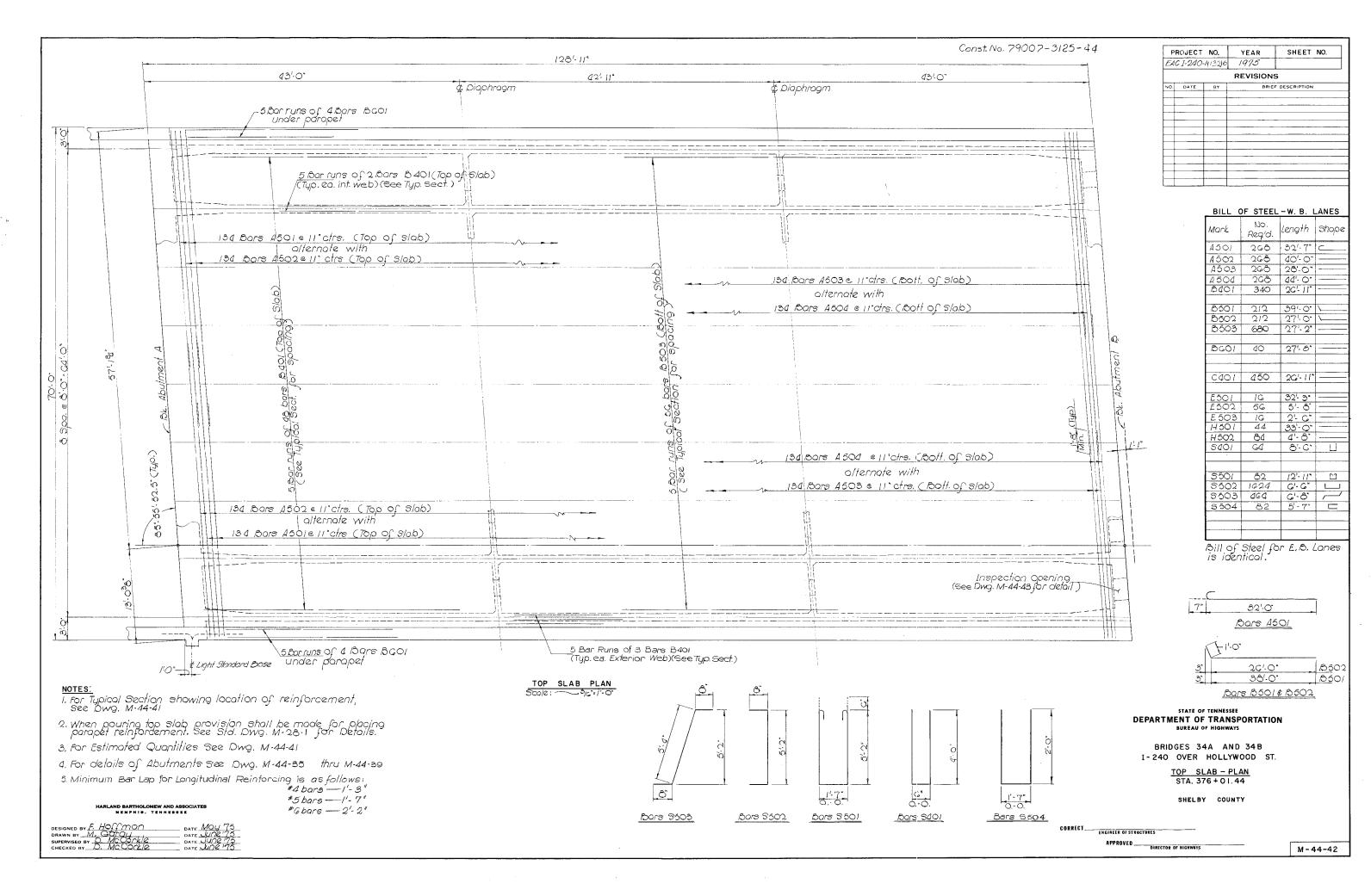
| ELEVATION Socie 34 10 | |
|--|---------|
| E-1 BEARING DETAILS | |
| STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS | |
| BRIDGES 34A AND 34B I-240 OVER HOLLYWOOD ST. | |
| <u>ABUTMENT B - W. B. LANES</u> STA. 376+01.44 | |
| SHELBY COUNTY | |
| CORRECT ENGINEER OF STRUCTURES | |
| APPROVED DIRECTOR OF HIGHWAYS | M-44-38 |

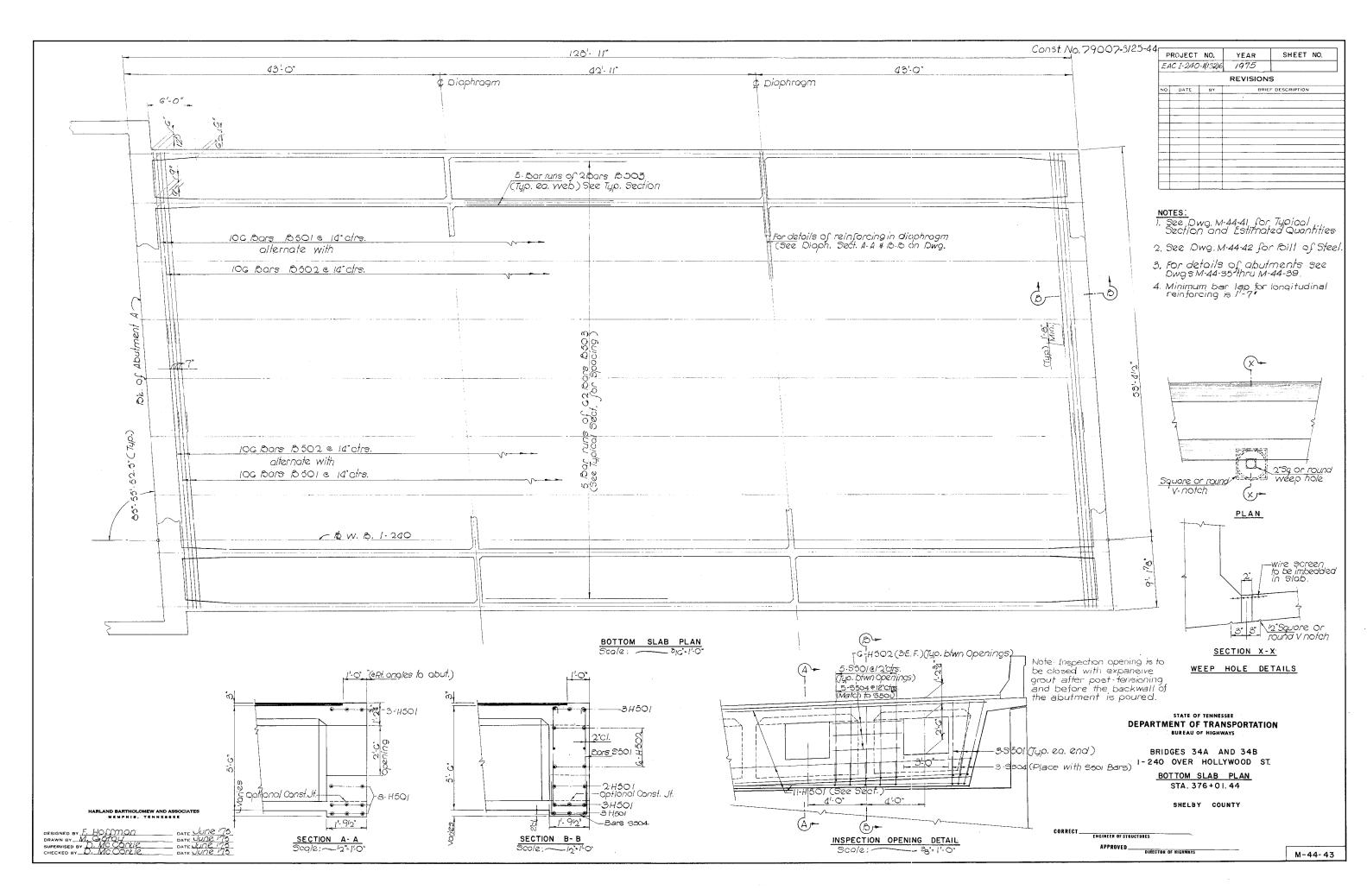


MICROFILM









MICROFILMED

1 POST-TENSIONING: See Special Provision No. 500, Special Provision Regarding Post-Tensioned Prestressed Concrete and notes this sheet.

- 2. CONCRETE: To be Closs A. fc = 1000 psi. Stressing operations shall not begin until the concrete has reached a compressive strength of 3500 psi. as indicated by test specimens, see Section Cl5.09 of the Tennessee Standard Specification.
- 3. DESIGN: Based on U=0.25 and K=0.0002, P/Jack specified of the jacking ends includes friction losses plus provision for 1200 psi. loss in stress at jacking plus 30800 psi. long term loss in stress.
- <u>A. TENSIONING FORCE</u>: The maximum required tensioning force at the jack is 200002 ips. per web which is 77 percent of the specified minimum ultimate tensile strength of the prestressing steel. Tendons sholl be jacked to the above value and anchored at an equivalent anchor set of 58
- 5. STRESSING SEQUENCE: Jocking shall be done from both abutments. Avoid stressing sequence that will cause unsymmetrical forces about a vertical axis.
- <u>G. CLEARANCES FOR POST-TENSIONING-UNIT:</u> Horizontal clearance between units = 212° minimum. Units may be bundled vertically in groups of 3 maximum. Vertical clearance between bundled units = 3° minimum.
- 7. Bar reinforcement interfering with prestressing tendon olignment shall be adjusted by the Engineer.
- 8. Form work shall not be removed until all post-tensioning is complete.
- 9. If ducts are to be placed within limits of the bottom slab, provisions shall be made to the the ducts to the vertical steel before the bottom slab is poured.

10. Anchorage details are to be determined by the sabricator.

11. In each web every other strond shall be Jacked from the opposite end.

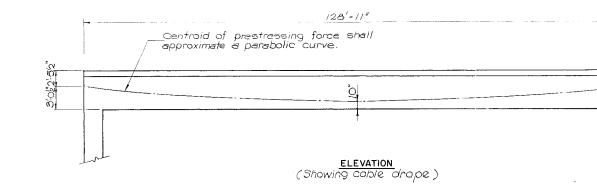
12. Losses given in note 3 above are consistent with forces given in noted and with cable drope shown. The fabricator may substitute an equivalent system with the fallowing limitations:

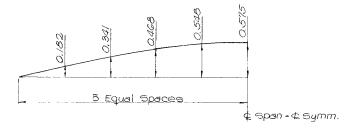
clist, to c.g. force c & spon minimum eff force c & spon 10" 12" 14"

16"

| monona: | |
|---------|---|
| ino qe | minimum effective prestress force e g spon ofter all losses (per web) $1500 \ kips$ 1570 1670 1670 1750 |
| | |

- 13. REINFORCING STEEL: Reinforcing steel required at each end anchorage shall not be paid for separately, but shall be included in the price bid for Post - Tensioned Prestressed Concrete . These details are to be included in the Shop drawings for post tensioning.
- <u>14.CAMBER</u>: Dead Load Camber shown on the plans is based on Ec = 1,214,700 psi. The Contractor shall submit calculations of deflections due to prestress load based on tendon arrangement selected and Ec = 1,214,700 psi. These deflections shall be subtracted from the dead load camber shown on these plans and adjusted for the vertical curve to determine screed elevations for pouring.
- <u>15 SHOP DRAWINGS</u>: The contractor shall submit five sets of shop drawings, together with three sets of design calculations to the state for approval. No concrete for the superstructure shall be poured until the Contractor has received from the State the approval of shop drawings.
- IG OPTIONAL CONSTRUCTION JOINT AT BOTTOM SLAB: If the draped tendons extend into the bottom slab the optional construction joint will not be permitted.





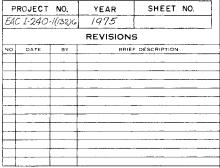
DEAD LOAD CAMBER DIAGRAM

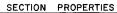
Note: The curve shows the dead load camber only. Camber shall be increased by the amount of anticipated take-up in the falsework. Camber values are based on Ec=1,214,700 psi. See Note 15 this Dwg. for adjustments necessary due to prestress forces and vertical curve.

HARLAND BARTHOLOMEW AND ASSOCIATES MEMPHIS, TENNEBBEE

| DESIGNED BY F. HOFFMan | DATE JULY 175 |
|---|---------------|
| DRAWN BY M. GOLOU SUPERVISED BY D. MCCOLLO | DATE JULY 175 |
| CHECKED BY D. MC CONKIC | DATE JUIY 175 |

Construction No. 79007-3125-44 EAC 1-240-1(132)6





| A | - | 16374 in2 |
|----|---|-------------------------|
| Ι | 4 | 10190312 in4 |
| Zt | = | 355,657 in ³ |
| Zb | * | 287,366 in ³ |
| УT | 2 | 29,5 IN |
| 4B | - | 36.5 in |

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

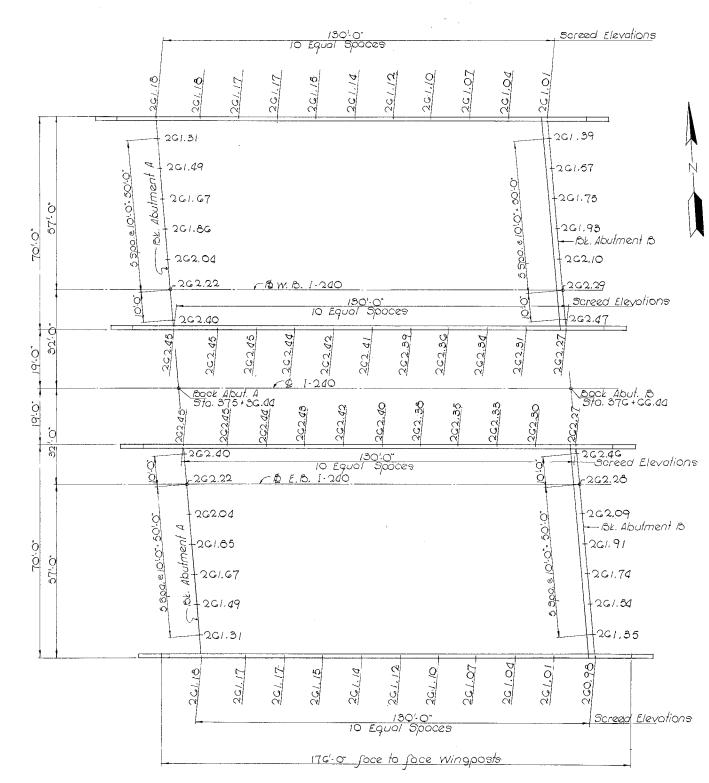
BRIDGES 34A AND 34B I-240 OVER HOLLYWOOD ST. POST-TENSIONING DETAILS STA. 376+01.44

SHELBY COUNTY

CORRECT ________ ENGINEER OF STRUCTURES

APPROVED_____

DIRECTOR OF HIGHWAYS



NOTE: Elevations given are of top of concrete and do not include "3" asphalt overlay.

HARLAND BARTHOLOMEW AND ASSOCIATES

DESIGNED BY D. MC COLLO DAAWN BY M. GOLOY DATE JUNE 75 SUPERVISED BY C. H. BLYONT DATE JUNE 75 CHECKED BY D. MC COLLO DATE JUNE 75

INCROFILMED

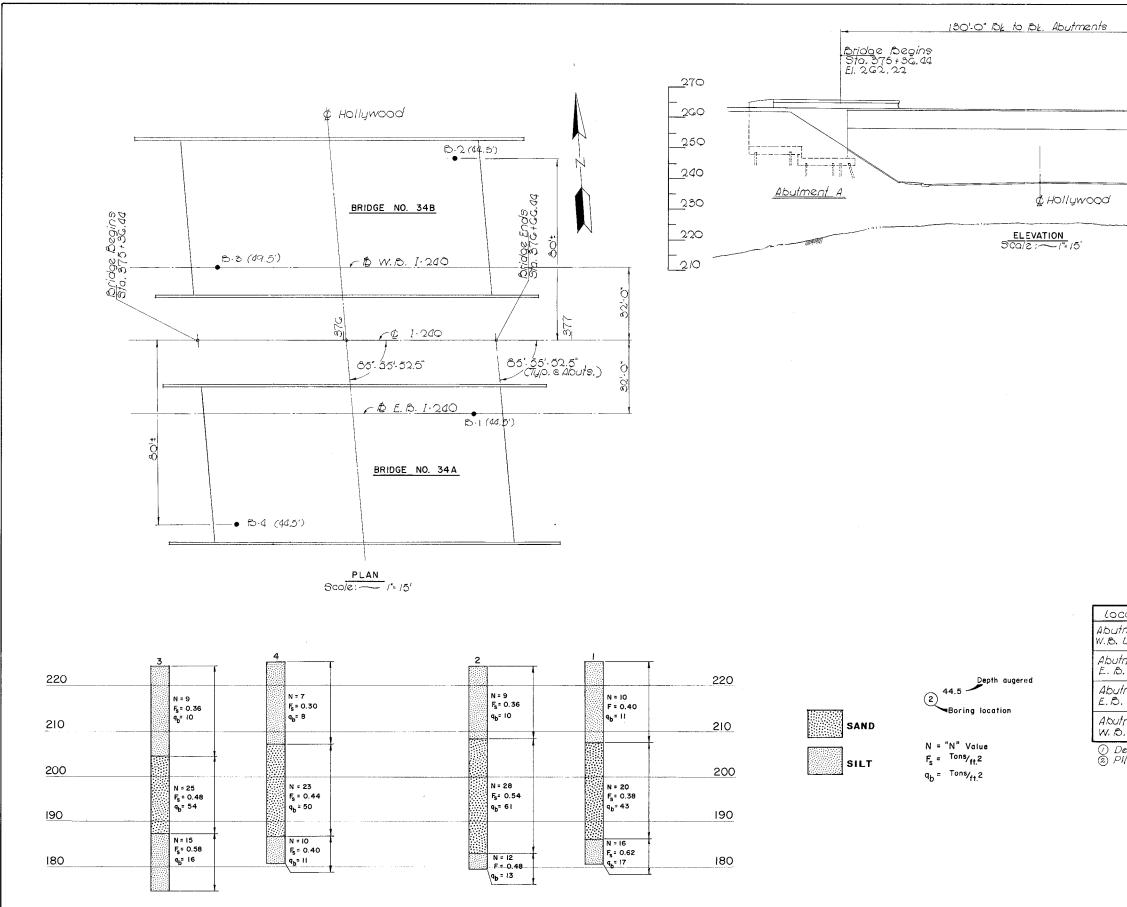
Construction No. 790073125-44

| | ROJECT 01-240 | | YEAR 1975 | SHEET | NO. |
|-----|------------------|----|--------------|---------------|-----|
| | | | REVISION | S | |
| NO. | DATE | BY | | F DESCRIPTION | |
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STATE OF TENNESSEE BUREAU OF HIGHWAYS

BRIDGES 34A AND 34B 1-240 OVER HOLLYWOOD ST. SCREED ELEVATIONS STA. 376 +0 1. 44

SHELBY COUNTY



MICROFILMED

| CONSTRUCTION I | No. 79007-3125-44 | PROJECT NO. | YEAR | SHEET NO. |
|----------------|--|-------------------|------|-----------|
| | | EAC 1-240-1/132)G | 1975 | |
| | <u>Bridge_Enc</u> Sto, 376 + 60 El, 262,03 | 6,44 | | |
| <u></u> | | | | |
| | | | | |
| | Abutment B | | | |
| | -Existing Gro | -1 11- | | |

| | \bigcirc | PILE DATA | | | Q |
|----------------------|-------------|------------|---------------|---------------|-------------|
| cation | Design Lood | NO, Regid, | cut-off-Elev. | Tip Elevation | Pile Length |
| tment A | 90 TONS | 44 | 213.0 | 198.0 | 45.0' |
| Lones | | 12 | 249.5 | 199.5 | 50,0' |
| tment A | 90.Tons | 44 | 243.0 | 203,0 | 40,Qʻ |
| s. Lones | | 12 | 249.5 | 204,5 | d5.0' |
| itment 13 . Lones | 90 Tons | 44 | 203.0 | 203,0 | 40,0' |
| | | 12 | 249.5 | 204,5 | 45.0' |
| tment B | 90 TONS | 44 | 243,0 | 203,0 | 40,0' |
| s, Lanes | | 12 | 249,5 | 204,5 | 45,0' |

.

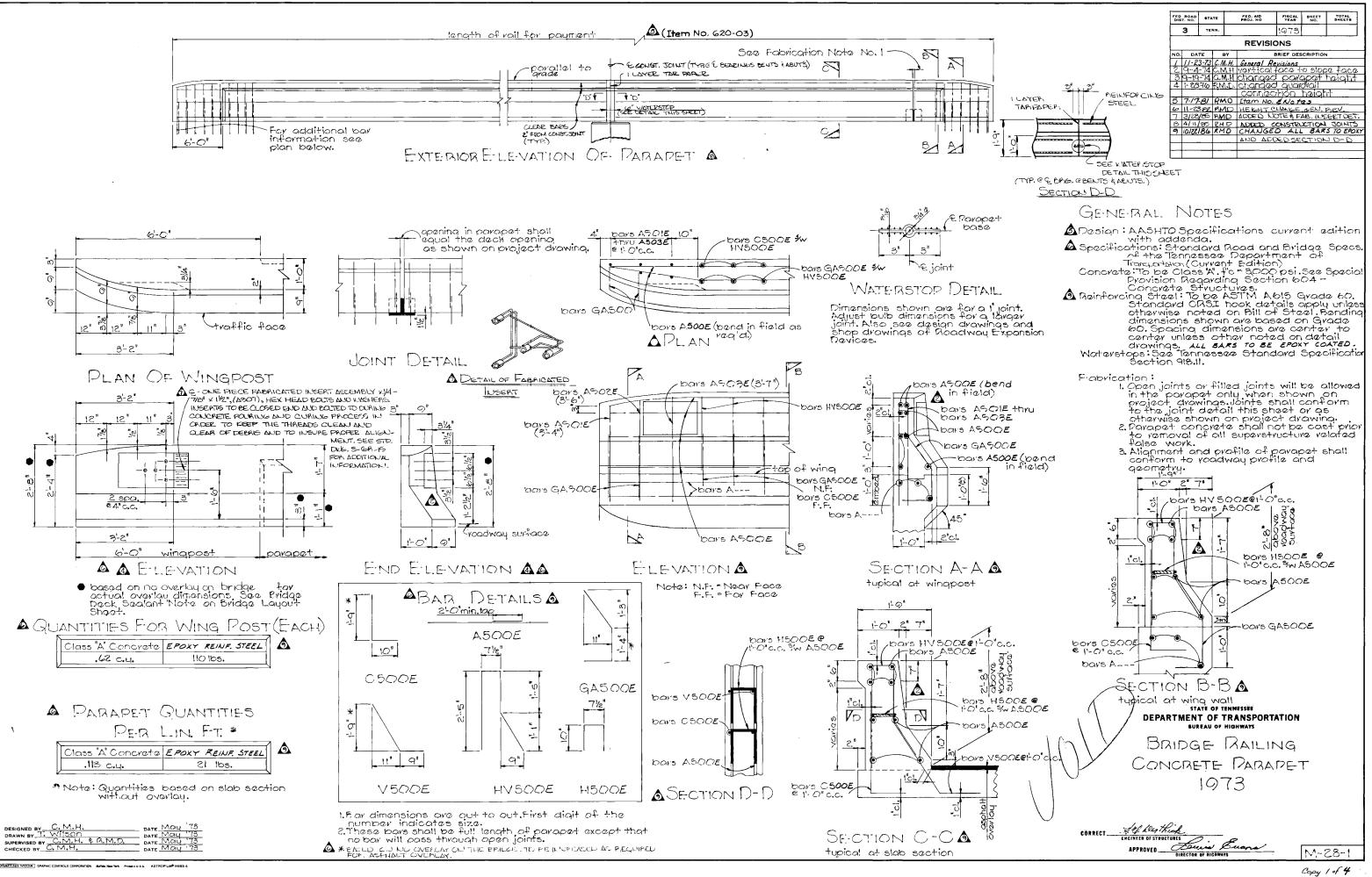
① Design loads are based on factored loads.
② Pile lengths are subject to charge after reviewing results of load tests.

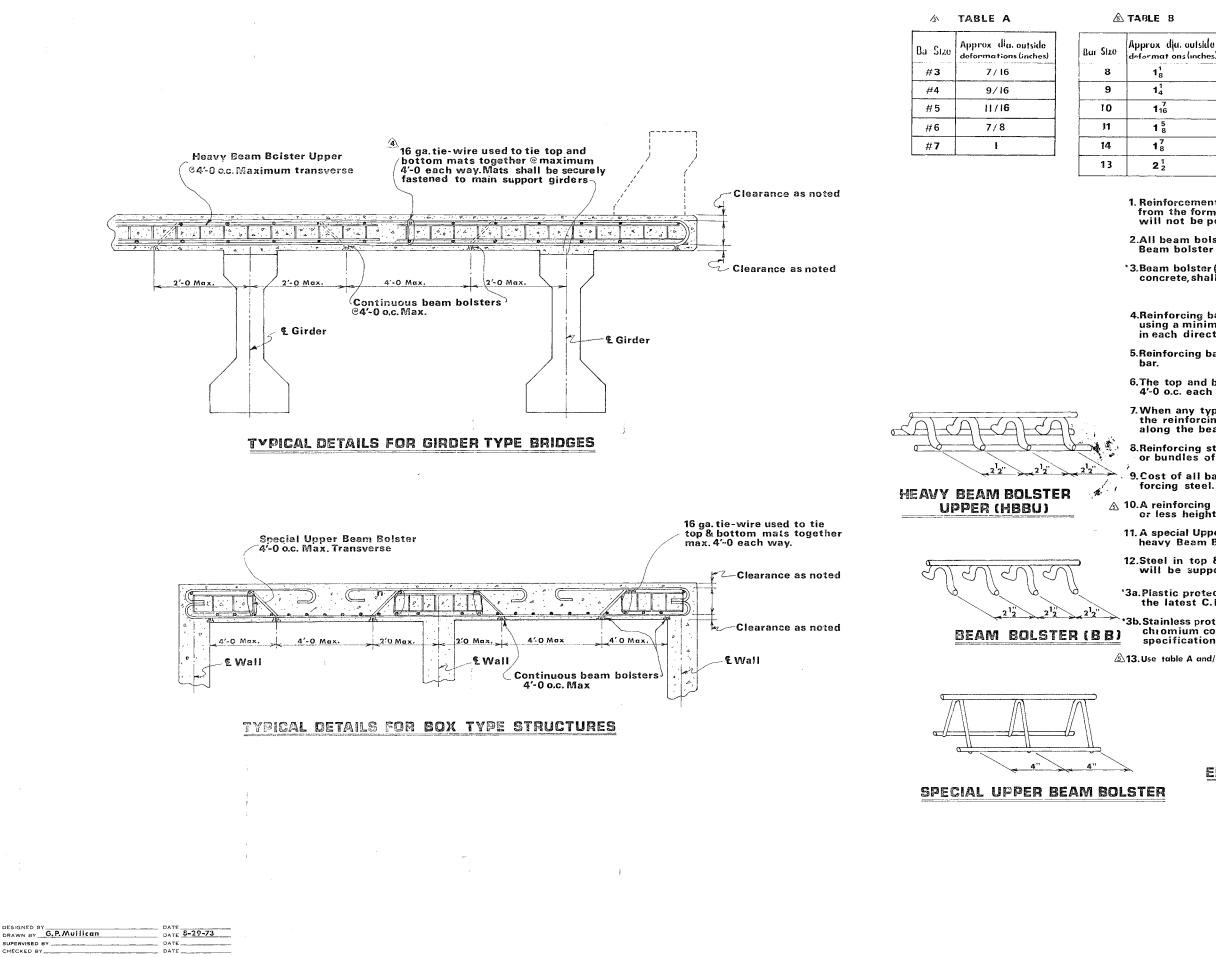
FOUNDATION DATA

E.B. & W.B. I-240 OVER HOLLYWOOD ST.

SHELBY COUNTY







| | Р | ROJECT | NO. | YEAR | SHEET NO. | |
|---|-----|-----------|-----|---------------------------------------|-------------------------|--|
| 7 | | REVISIONS | | | | |
| | NO. | DATE | BY | BRIE | F DESCRIPTION | |
| | 1 | 10-13-59 | | Reinf bar cle | | |
| | | 6.16-70 | | Gen. Revision | | |
| | 3 | 9-12-74 | | Note 3 Chang | led | |
| | 9 | 1 14-75 | | Revised Note | | |
| | 5 | 8-27-76 | | Revised Note #10 & | added TABLE && B, added | |
| | | | | note 13. | | |
| | | | | | | |
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 Reinforcement in Bridge slabs and top slabs of boxes shall be securely spaced from the forms by metal spacers as indicated this sheet. Other type spacers will not be permitted.

2.All beam bolsters (BB) & heavy beam bolster upper (HBBU) and Special Upper Beam bolster shall be made according to C.R.S.I. Specifications.

*3.Beam bolster (BB) legs in contact with forms and to be at exposed surface of concrete, shall be either "plastic protected" or "stainless steel protected"

4.Reinforcing bars shall be securely fastened together at each intersection using a minimum 16 ga.tie wire, except where spacing is less than one foot in each direction, alternate intersections shall be fastened.

5. Reinforcing bar supports shall be furnished to minus ¹16" or plus ¹8" of specified

6. The top and bottom reinforcing mats shall be tied together at maximum of 4'-0 o.c. each way.

7. When any type shear connector protrudes from the top flange of the beam, the reinforcing steel shall be tied to these connectors at maximum 2'-0 o.c. along the beam.

8.Reinforcing steel shall not be used to support concrete buggies, material carts, $\dot{}$ or bundles of re-bars.

9. Cost of all bar supports and tie wire shall be included in bid price for reinforcing steel.

▲ 10.A reinforcing bar may be substituted when a heavy Beam Bolster Upper of a 1" or less height is required. See Table A above.

11. A special Upper Beam Bolster (as detailed this sheet) may be substituted for heavy Beam Bolster Uppers required in heights of 5¹4" or greater.

12.Steel in top & bottom of slabs of Reinforced Concrete Hollow Box Girders will be supported in accordance with this drawing.

*3a.Plastic protected legs shall be dipped and baked onto the upturned legs per the latest C.R.S.I. specifications.

*3b.Stainless protected legs shall be made from stainless steel with a minimum chromium content of 16% (similar to AISI TYPE 430). Per the latest C.R.S.I. specifications.

313.Use table A and/or B for bar sizes to determine beam bolster size to use.

~R=1¹/8"

END VIEW

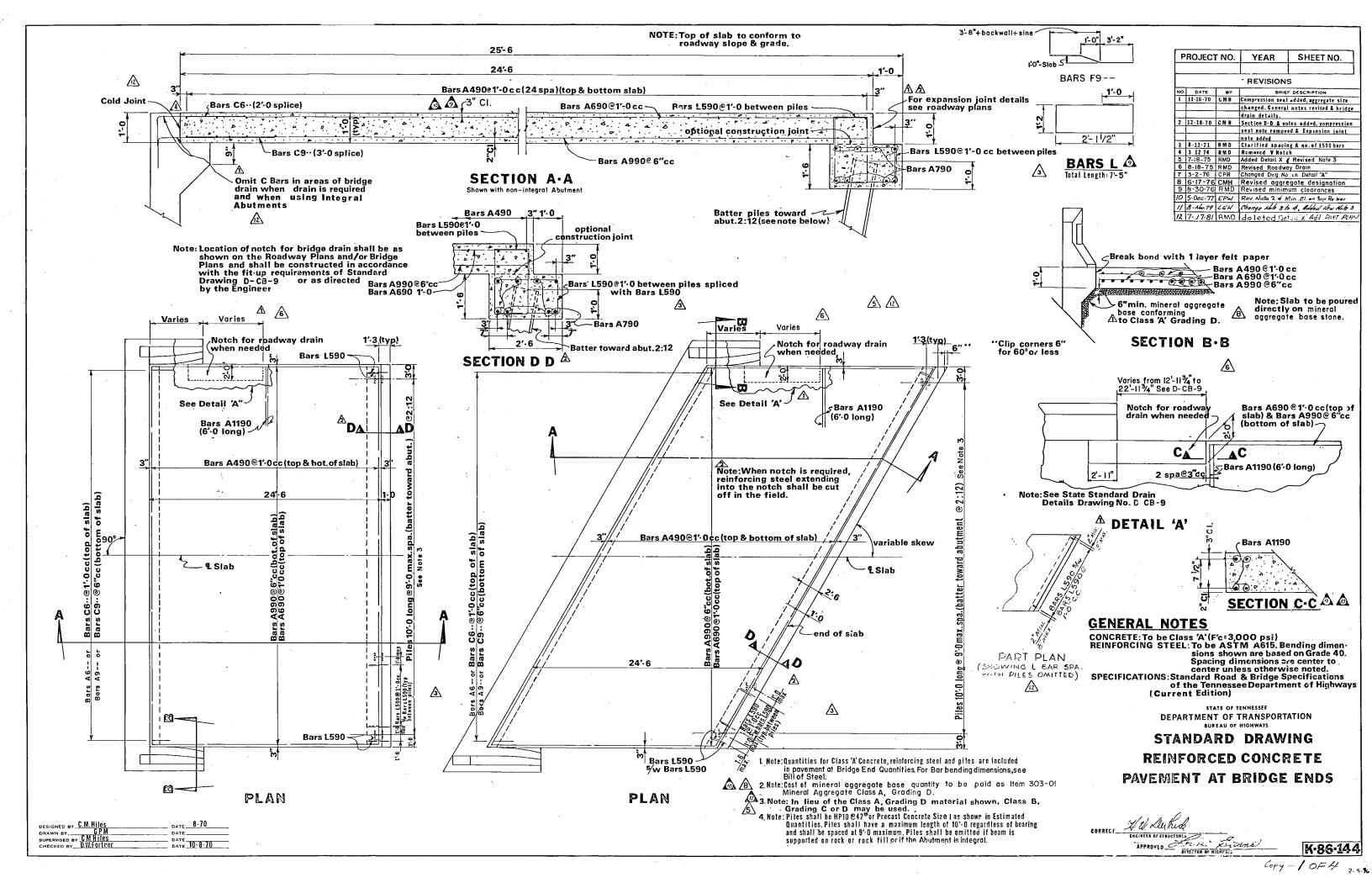
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS

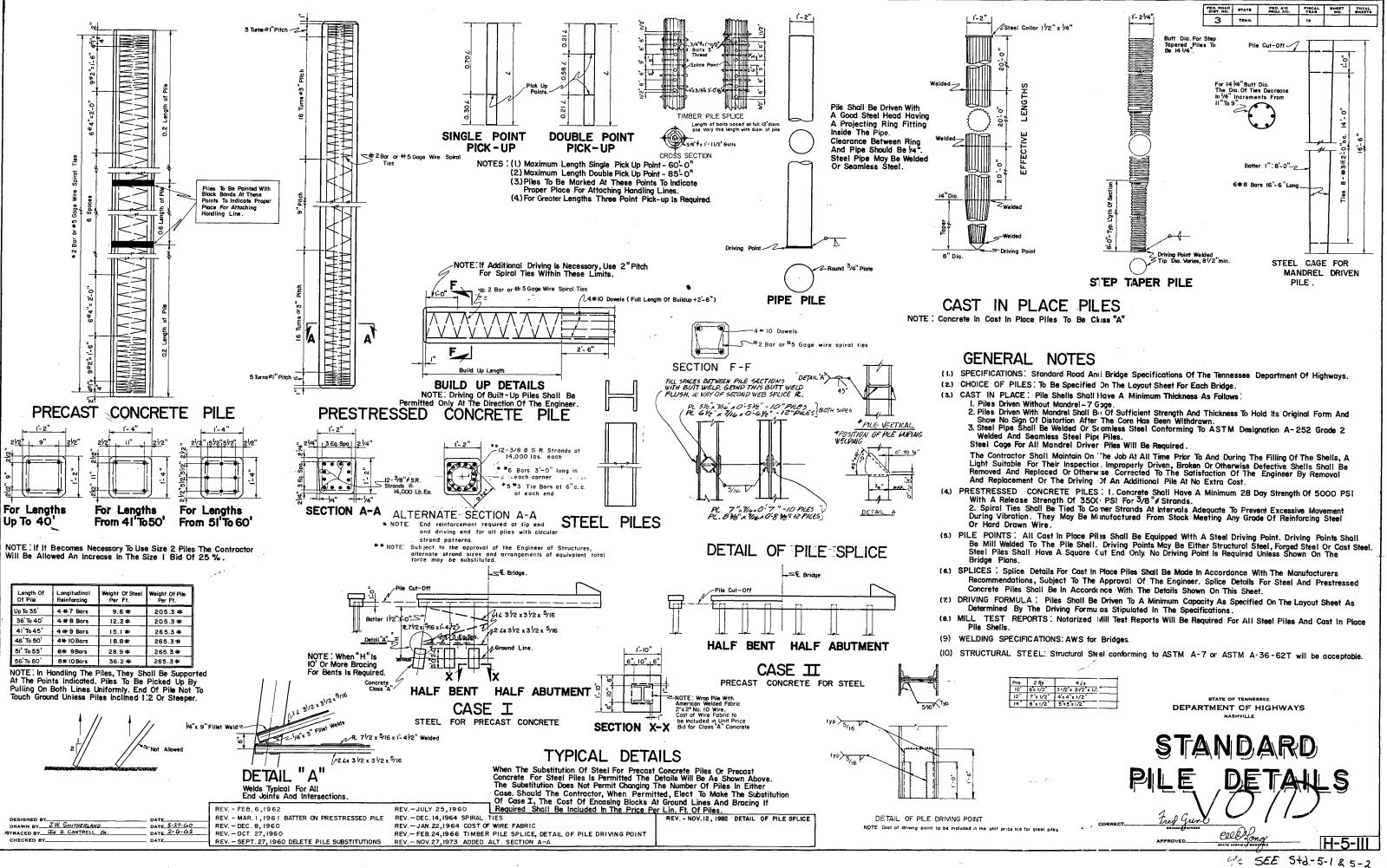
STANDARD REINFORCING BAR Support Details For

CONCRETE SLABS

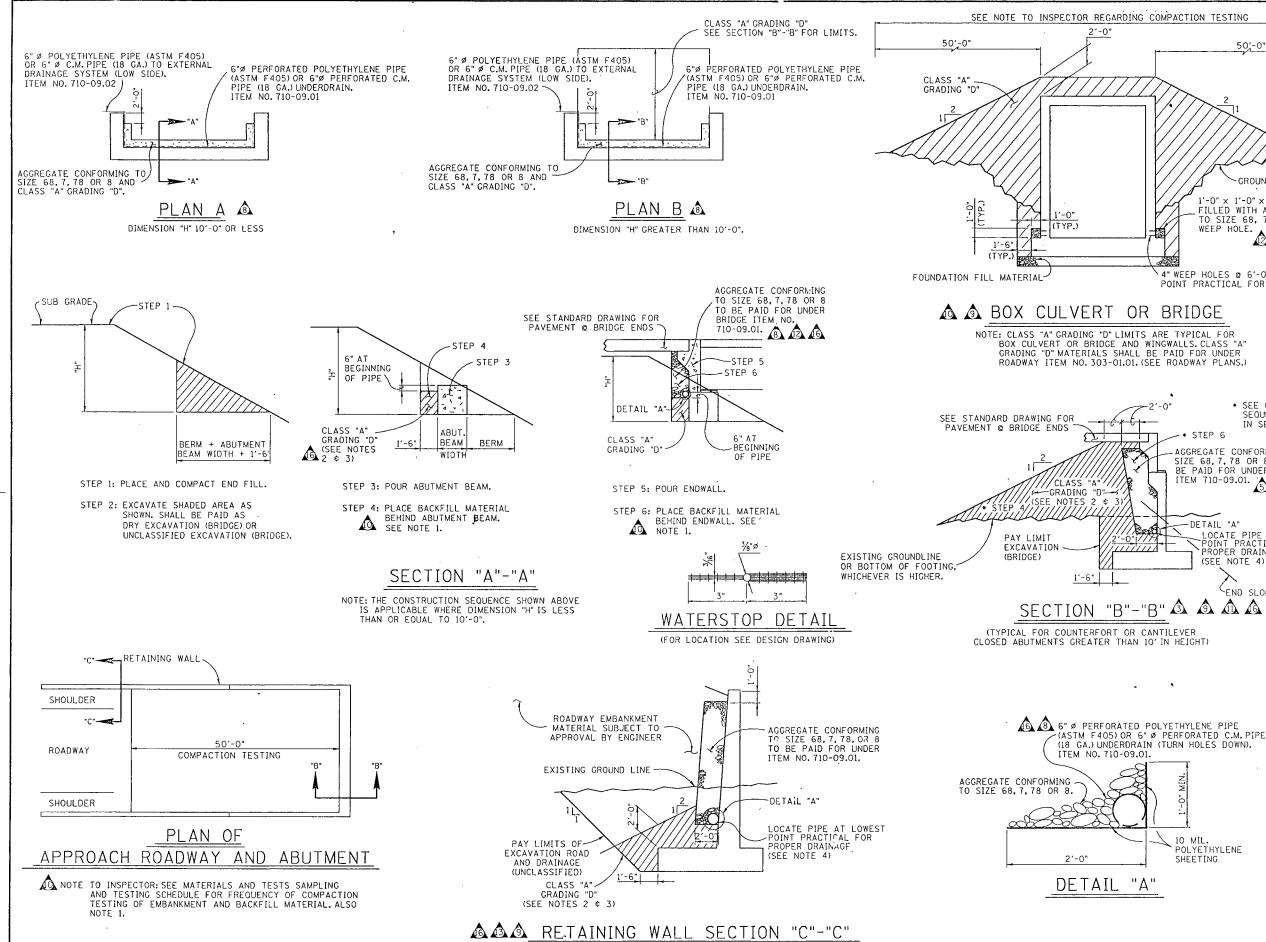
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CORRECT_________ APPROVED Terus Buans DIRECTOR OF HIGHWAYS





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R. DISHNER DATE . DRAWN BY KEITH DOUGLAS. DATE 1-91 DATE ____ R. DISHNER DATE ______1-91

DESIGNED BY____

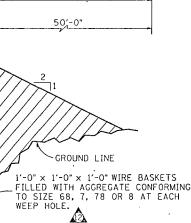
CHECKED BY

SUPERVISED BY____

STD 10 1.DGN

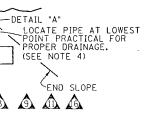
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∖4"WEEP HOLES @ 6'-0"C.C.@ LOWEST POINT PRACTICAL FOR PROPER DRAINAGE.

- * SEE CONSTRUCTION SEQUENCE SHOWN IN SECTION "A"-"A" STEP 6
- -AGGREGATE CONFORMING TO SIZE 68, 7, 78 OR 8 TO BE PAID FOR UNDER BRIDGE ITEM 710-09.01.



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| CHANGE NOTE | | | | |
| NOTE CHANGED | | | | |
| ADDED POLYETHYLENE PIPE | | | | |
| GENERAL REVISIONS | | | | |
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| REV. ITEM NO. 303-01.01 TO 303-01.02 | | | | |
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NOTES

1. BACKFILLING: UNLESS OTHERWISE SPECIFIED OR DIRECTED, THE CONTRACTOR SHALL BACKFILL BEHIND ABUTMENTS, RETAINING WALLS OF BOX TYPE BRIDGES AND CULVERTS AS SOON AS THE FOLLOWING CONDITIONS ARE MET:

- A. CONCRETE SURFACES AGAINST WHICH BACKFILL WILL BE PLACED HAVE BEEN GIVEN A CLASS I FINISH AS SPECIFIED IN SUBSECTION 604.22.
- B. REPRESENTATIVE SPECIMENS OF THE CONCRETE IN THE STRUCTURE, SECTION OR UNIT, CURED BY THE METHODS AND IN THE MANNER THAT THE CONCRETE WHICH THE TEST SPECIMENS REPRESENT IS CURED, ATTAIN A COMPRESSIVE STRENGTH OF 3,000 POUNDS PER SQUARE INCH.
- C. THE CONCRETE SHALL HAVE BEEN PLACED A MINIMUM OF 7 DAYS. NOT COUNTING THE DAYS OF TWENTY-FOUR HOURS EACH IN WHICH THE TEMPERATURE FALLS BELOW FOURTY DEGREES FAHRENHEIT. OR 21 CALENDAR DAYS WHICHEVER OCCURS FIRST.

THE PLACEMENT OF BACKFILL AND EMBANKMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 204.11 AND SUBSECTION 205.04, REPECTIVELY, AND AS SPECIFIED ON THE PLANS.

🙆 2. CLASS "A" GRADING "D" MATERIAL SHALL BE PAID FOR UNDER ITEM NO. 303-01.02, GRANULAR BACKFILL (BRIDGES) OR ITEM 303-01.03 THRU 303-01.08, GRANULAR **(**12**)** BACKFILL (RETAINING WALLS).

3. IN LIEU OF THE CLASS "A" GRADING "D" MATERIAL SHOWN, CLASS "B" GRADING "C" OR "D" MAY BE USED.

4. LOCATE PIPE AT LOWEST POINT PRACTICAL FOR PROPER DRAINAGE WITH SLOPE PARALLE TO ABUTMENT BEAM OR RETAINING WALL (1/8" PER FOOT MINIMUM). INSTALL PIPE AND -O" OF COVER AS SOON AS POSSIBLE AFTER FORMING WALL.

STD-10-1

A

542-10-1

MINOR REVISION - FHWA APPROVAL NOT REQUIRED STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS 1971



K-85-150 Replaced With