

Index of Sheets

| SHEET NO. | REVISION | SHEET NAME |
|-----------|----------|-----------------------|
| 1 | | TITLE SHEET |
| 2 | | ESTIMATED QUANTITIES |
| 3 | | GENERAL NOTES |
| 3A | | PROJECT COMMITMENTS |
| 4-12 | | TRAFFIC CONTROL PLANS |

STANDARD ROADWAY AND STRUCTURE DRAWINGS

ROADWAY DESIGN STANDARDS

| DWG. NO. | REVISION | DESCRIPTION |
|----------|----------|---|
| RD-A-1 | 12-18-99 | STANDARD ABBREVIATIONS |
| RD-L-1 | 10-26-94 | STANDARD LEGEND |
| RD-L-2 | 09-05-01 | STANDARD LEGEND FOR UTILITY INSTALLATIONS |

SAFETY APPURTENANCES AND FENCE

| DWG. NO. | REVISION | DESCRIPTION |
|----------|----------|---|
| S-GR31-1 | 12-01-14 | W-BEAM GUARDRAIL |
| S-GRC-1 | - | GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL |
| S-GRT-2 | 11-03-14 | TYPE 38 GUARDRAIL TERMINAL |
| S-GRT-2R | - | EARTH PAD FOR TYPE 38 (RETROFIT) |
| S-PL-5 | 04-11-14 | SAFETY PLAN FOR BRIDGE ENDS IN MEDIANS |

TRAFFIC CONTROL APPURTENANCES

| DWG. NO. | REVISION | DESCRIPTION |
|----------|----------|---|
| T-FAB-1 | 5-27-97 | FLASHING YELLOW ARROW BOARD |
| T-M-1 | 11-01-11 | DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS |
| T-M-5 | 04-23-13 | MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS |
| T-M-6 | 06-22-12 | MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES |
| T-WZ-14 | 03-13-09 | TWO-OUTSIDE LANE CLOSURE ON INTERSTATES AND EXPRESSWAYS (PORTABLE BARRIER RAIL) |
| T-WZ-18 | 03-13-09 | SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS |
| T-WZ-19 | 04-02-12 | MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS |
| T-WZ-20 | 12-18-99 | GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS |
| T-PBR-1 | 6-30-09 | INTERCONNECTED PORTABLE BARRIER RAIL |
| T-PBR-2 | 11-01-11 | DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS |

EROSION PREVENTION AND SEDIMENT CONTROL

| DWG. NO. | REVISION | DESCRIPTION |
|-----------|----------|-----------------------------------|
| EC-STR-3C | 08-01-12 | SILT FENCE WITH WIRE BACKING |
| EC-STR-3E | 04-01-08 | SILT FENCE FABRIC JOINING DETAILS |

LIST OF STANDARD DRAWINGS

| DWG. NO. | REVISION | DESCRIPTION |
|-----------|----------|--|
| STD-1-ISS | 05-01-14 | BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET |
| STD-1-2SS | | STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE CONCRETE AND BRIDGE DECK DRAIN DETAILS |
| SBR-2-115 | 01-04-96 | GENERAL NOTES AND DETAILS FOR EXPANSION JOINT REPLACEMENT CONSTRUCTION TYPES "A" THRU "J" - 1991 |
| SBR-2-116 | 01-04-96 | GENERAL NOTES AND DETAILS FOR EXPANSION JOINT REPLACEMENT TYPES "A" THRU "J" - 1991 |
| SBR-2-119 | 05-30-96 | STRIP SEAL EXPANSION JOINTS - REPLACEMENT CONSTRUCTION DETAILS TYPE "E" AND "F" - 1991 |

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

T.D.O.T. MANAGER MIKE LAWSON
 DESIGNED BY GARVER, LLC
 DESIGNER A. J. KHAIRI CHECKED BY J. H. RUDELL
 PE NO. 23002-4232-04 PIN. NO. 082321.01

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

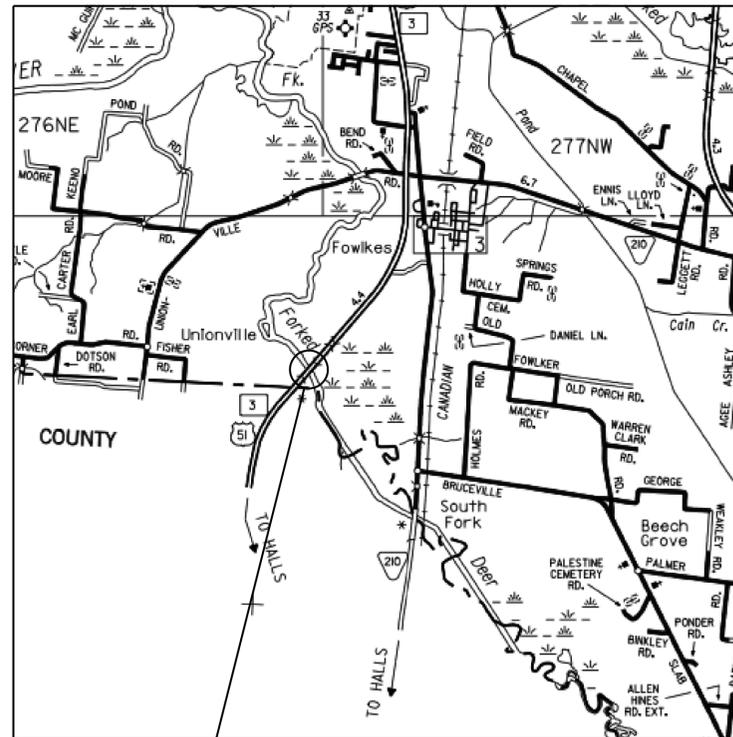
DYER COUNTY

BRIDGE NO. 23-SR3-0.06 (R&L) OVER SOUTH FORK FORKED DEER RIVER

BRIDGE REPAIR

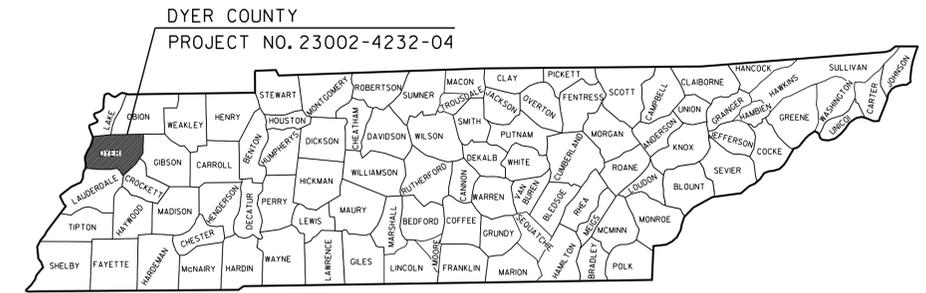
STATE ROUTE 3 F.A.H.S. NO.

SCALE: 1" = 1 MILE



PROJECT LENGTH
0.00 MILE

PROJECT NO. 23002-4232-04
SR3 - L.M. 0.06 (R&L)



LIST OF DRAWINGS

| DWG. NO. | DRAWING |
|-------------|---------------------------------|
| BR-116-175 | LAYOUT OF BRIDGE TO BE REPAIRED |
| BR-116-176 | LAYOUT OF BRIDGE TO BE REPAIRED |
| BR-116-177 | ESTIMATED QUANTITIES |
| BR-116-178 | GENERAL NOTES |
| BR-116-179 | BRIDGE REPAIR DETAILS |
| BR-116-180 | BRIDGE REPAIR DETAILS |
| BR-116-181 | BRIDGE REPAIR DETAILS |
| BR-116-182 | BRIDGE REPAIR DETAILS |
| BR-116-183 | BRIDGE REPAIR DETAILS |
| BR-116-184 | BRIDGE REPAIR DETAILS |
| BR-116-185 | BRIDGE REPAIR DETAILS |
| BR-116-186 | BRIDGE REPAIR DETAILS |
| BR-116-187 | BRIDGE REPAIR DETAILS |
| BR-116-188 | BRIDGE REPAIR DETAILS |
| BR-116-189 | BRIDGE REPAIR DETAILS |
| BR-116-190 | BRIDGE REPAIR DETAILS |
| BR-116-191 | BRIDGE REPAIR DETAILS |
| BR-116-192 | BRIDGE REPAIR DETAILS |
| BR-116-193 | BRIDGE REPAIR DETAILS |
| BR-116-194 | BRIDGE REPAIR DETAILS |
| BR-116-195 | BRIDGE REPAIR DETAILS |
| BR-116-196 | BRIDGE REPAIR DETAILS |
| BR-116-197 | BRIDGE REPAIR DETAILS |
| BR-116-198 | BRIDGE REPAIR DETAILS |
| BR-116-199 | BRIDGE REPAIR DETAILS |
| BR-116-200 | BRIDGE REPAIR DETAILS |
| BR-116-201 | BRIDGE REPAIR DETAILS |
| BR-116-201A | BRIDGE REPAIR DETAILS |
| BR-116-202 | BRIDGE REPAIR DETAILS |
| BR-116-203 | BRIDGE REPAIR DETAILS |
| BR-116-203A | BRIDGE REPAIR DETAILS |
| BR-116-204 | BRIDGE REPAIR DETAILS |
| BR-116-205 | BRIDGE REPAIR DETAILS |
| BR-116-206 | BRIDGE REPAIR DETAILS |
| BR-116-206A | BRIDGE REPAIR DETAILS |

LIST OF REFERENCE DRAWINGS

| DWG. NO. | DRAWING |
|----------|--|
| BR-10-8 | LAYOUT OF BRIDGE NO. 1 |
| BR-10-10 | ESTIMATED QUANTITIES |
| BR-10-11 | GENERAL NOTES |
| BR-10-12 | TYPICAL SECTION |
| BR-10-13 | SUPERSTRUCTURE REPAIR DETAILS SHEET 1 OF 2 |
| BR-10-14 | SUPERSTRUCTURE REPAIR DETAILS SHEET 2 OF 2 |
| BR-10-15 | SUBSTRUCTURE REPAIR DETAILS SHEET 1 OF 2 |
| BR-10-16 | SUBSTRUCTURE REPAIR DETAILS SHEET 2 OF 2 |
| BR-10-17 | MISCELLANEOUS REPAIR DETAILS |
| M-31-1 | LAYOUT OF BRIDGES |
| M-31-2 | LAYOUT OF BRIDGE |
| M-31-2A | FOUNDATION DATA |
| M-31-4 | SUPERSTRUCTURE REPAIR DETAILS |
| M-31-5 | MISC. BRIDGERAIL & SUPERSTRUCTURE DETAILS |
| M-31-6 | PRESTRESSED BEAM DETAILS |
| M-31-7 | ABUTMENTS (PILE BENT TYPES) |
| F-10-113 | CONCRETE BRIDGE DECK GIRDER TYPE |
| G-5-7 | SLAB DETAILS |
| G-5-9 | BENT & ABUTMENT PILE BENT TYPE |

ALL REFERENCE DRAWINGS TO BE PRINTED WITH THE PLANS

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE

APPROVED: John Schroer
JOHN SCHROER, COMMISSIONER

UNOFFICIAL SET
NOT FOR BIDDING

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

| | | | |
|-------|------|---------------|-----------|
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
| CONST | 2016 | 23002-4232-04 | 3A |
| | | | |
| | | | |

PROJECT COMMITMENTS

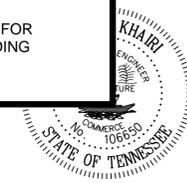
| COMMITMENT ID | SOURCE DIVISION | DESCRIPTION | STA./LOCATION |
|---------------|---|---|---|
| EDHZ001 | ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS | <p>1. TO MINIMIZE THE RISK TO CONSTRUCTION WORKERS, TDOT IS COMMITTED TO THE REMOVAL OF ASBESTOS CONTAINING MATERIALS (ACM) FROM BRIDGES THAT ARE BEING DEMOLISHED, REHABILITATED OR REPAIRED.</p> <p>2. BRIDGE NOS. 23SR0030001, SR-3 OVER SOUTH FORK FORKED DEER RIVER, L.M. 0.06 R & 23SR0030001, SR-3 OVER SOUTH FORK FORKED DEER RIVER, L.M. 0.06 L, HAVE ACM IN THE DECK DRAINS AND IN THE BITUMINOUS FIBER BOARD THAT IS ON THE BENT CAPS AND ABUTMENTS. ABATEMENT OF THIS MATERIAL SHOULD BE ACCOMPLISHED PER SP202ACM, SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS CONTAINING MATERIALS AND SHOULD BE INCLUDED IN THE BID DOCUMENTS. ACM ABATEMENT SHOULD BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES.</p> <p>3. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.</p> <p>4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT OR DEMOLITION.</p> | DECK DRAINS BIT. FIBER BOARD (BENT CAP & ABUT.) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

9/14/2015 12:26:52 PM
 J:\Heilbrook\DOT\Bridges\23SR0030001\Drawings\BRC\02 - Final\03-Sheet_3A.dgn
 J. Heilbrook - TDOT - Bridges Repair - Dyer County Drawings\BRC\02 - Final\03-Sheet_3A.dgn



UNOFFICIAL SET

 NOT FOR BIDDING



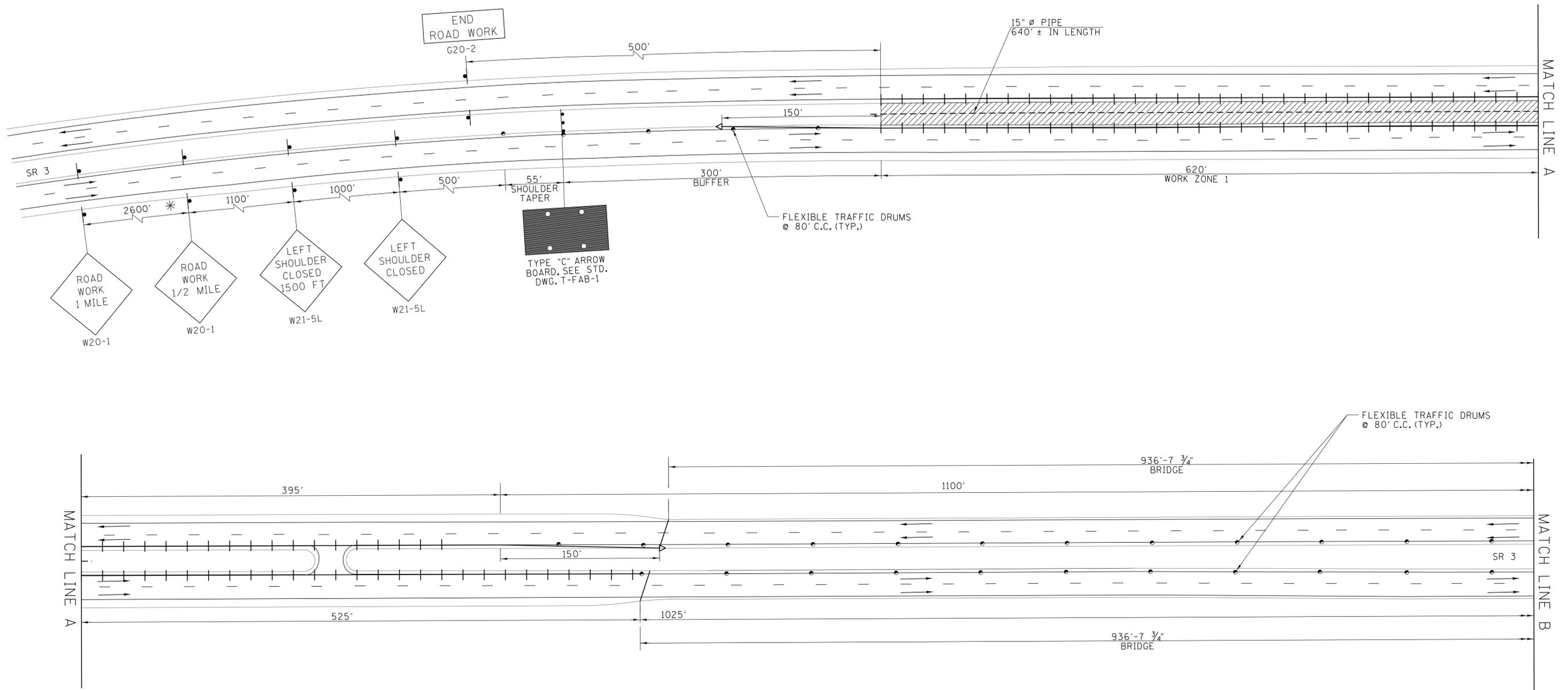
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

 BR. NO. 23-SR3-0.06

 SCALE: NONE

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 4 |
| | | | |
| | | | |



LEGEND

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- REMOVABLE SINGLE SOLID WHITE LINE
- REMOVABLE SINGLE SOLID YELLOW LINE
- 15" Ø PIPE
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- VERTICAL PANEL

PHASE I TRAFFIC CONTROL

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING AND DEVELOPMENT

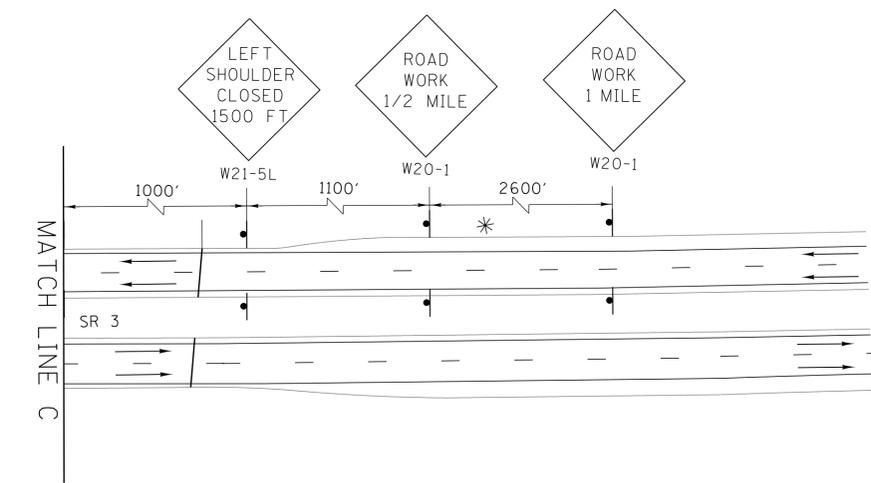
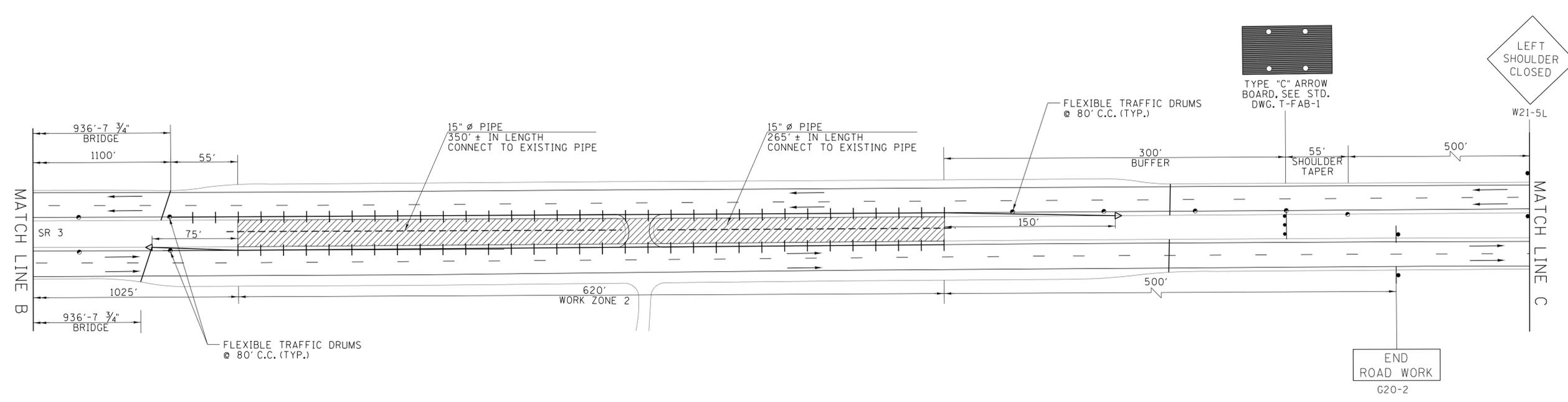
 TRAFFIC CONTROL PLAN
 BR. NO. 23-SR3-0.06

 SCALE: NONE

9/14/2015 12:26:52 PM
 J:\Heilbrook\WORKSPACE\DOT_Bridge\23002-4232-04\DOT - Bridge Repair - Dyer County\Drawings\BRG\Traffic Control\TC-H.dgn



| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 5 |
| | | | |
| | | | |



LEGEND

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE
- 15" Ø PIPE
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- VERTICAL PANEL

PHASE I TRAFFIC CONTROL

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

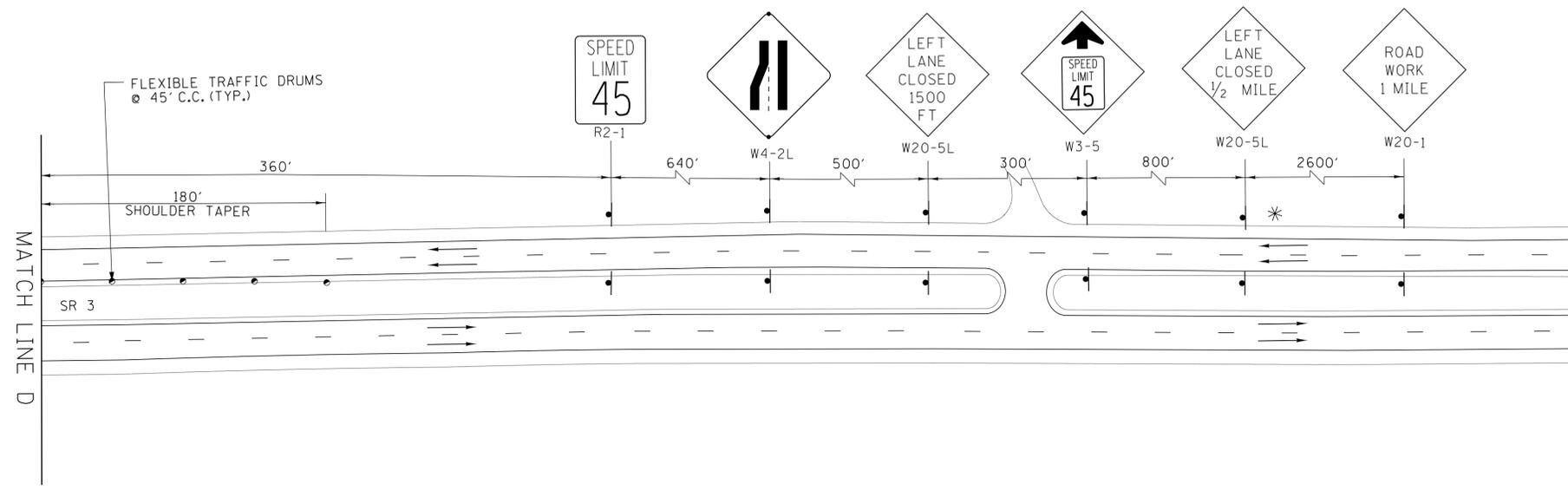
TRAFFIC CONTROL PLAN
BR. NO. 23-SR3-0.06

SCALE: NONE

9/14/2015 12:26:53 PM
 J:\Heilbrunn\DOT Bridge Repair - Dyer County\Drawings\BRG\Traffic Control\TC-I-2.dgn
 MURKIN\DOT Bridge Repair - Dyer County\Drawings\BRG\Traffic Control\TC-I-2.dgn
 J. Heilbrunn



| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 8 |
| | | | |
| | | | |



LEGEND

- AREA UNDER CONSTRUCTION
- FLEXIBLE TRAFFIC DRUM
- REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
- TRAFFIC SIGN
- DIRECTION OF TRAFFIC
- ATTENUATOR
- REMOVABLE SINGLE SOLID WHITE LINE
- REMOVABLE SINGLE SOLID YELLOW LINE
- 15" Ø PIPE
- CHANGEABLE MESSAGE SIGN
- TYPE III BARRICADE
- VERTICAL PANEL

PHASE II TRAFFIC CONTROL

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN
BR. NO. 23-SR3-0.06

SCALE: NONE

9/14/2015 12:26:57 PM
 J:\Heilbronn\DOT\Bridges\Bridges\Drawings\BRC\Traffic Control\TC-2-3.dgn
 J. Heilbronn - DOT - Bridges - BRC - Traffic Control - TC-2-3.dgn

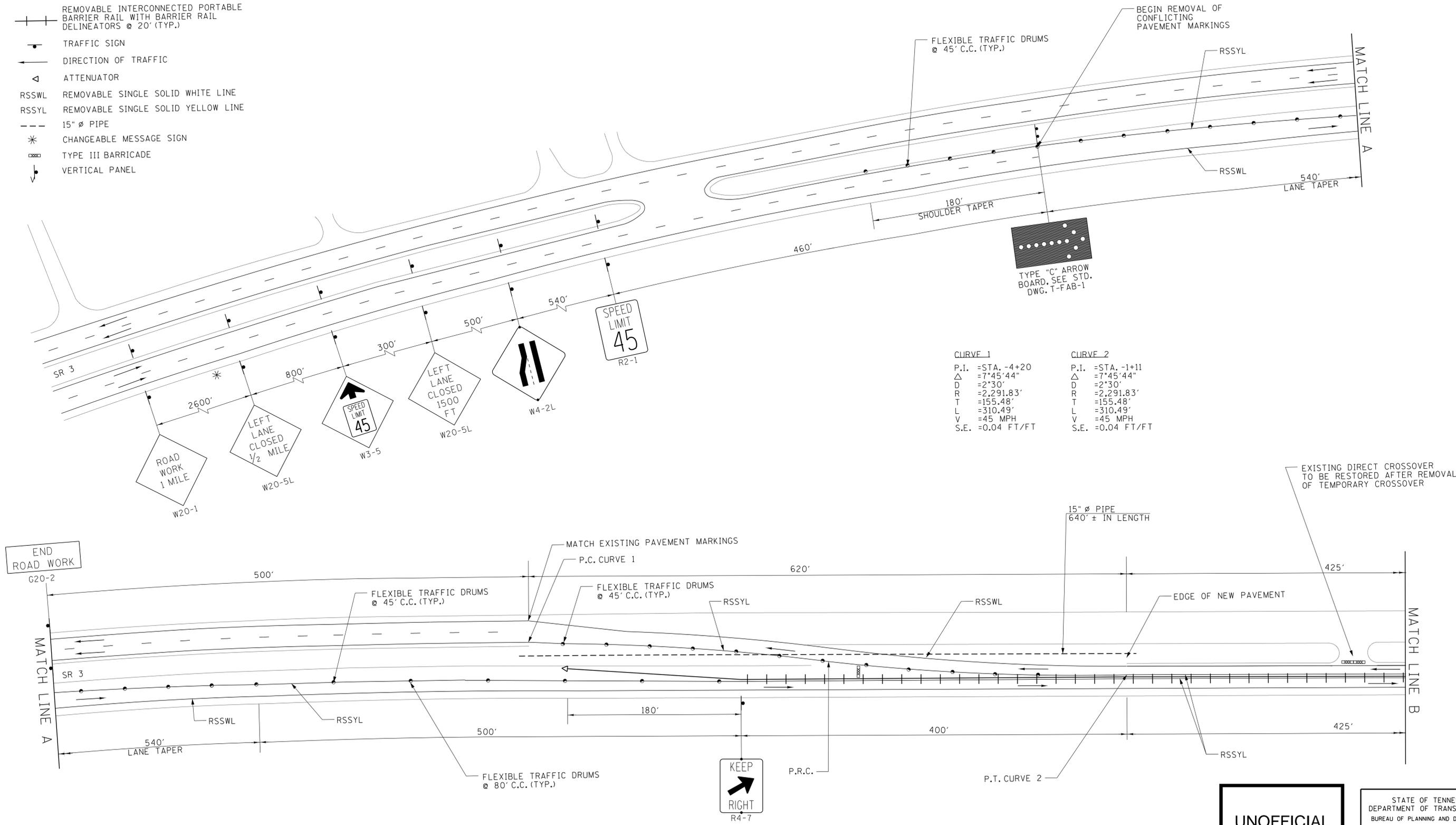


| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 9 |

LEGEND

-  AREA UNDER CONSTRUCTION
-  FLEXIBLE TRAFFIC DRUM
-  REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
-  TRAFFIC SIGN
-  DIRECTION OF TRAFFIC
-  ATTENUATOR
- RSSWL REMOVABLE SINGLE SOLID WHITE LINE
- RSSYL REMOVABLE SINGLE SOLID YELLOW LINE
-  15" Ø PIPE
-  CHANGEABLE MESSAGE SIGN
-  TYPE III BARRICADE
-  VERTICAL PANEL

SEE SHEET 9 FOR DETAILS OF FLEXIBLE TUBULAR DELINEATOR.



| CURVE 1 | CURVE 2 |
|-------------------|-------------------|
| P.I. = STA. -4+20 | P.I. = STA. -1+11 |
| Δ = 7°45'44" | Δ = 7°45'44" |
| D = 2°30' | D = 2°30' |
| R = 2,291.83' | R = 2,291.83' |
| T = 155.48' | T = 155.48' |
| L = 310.49' | L = 310.49' |
| V = 45 MPH | V = 45 MPH |
| S.E. = 0.04 FT/FT | S.E. = 0.04 FT/FT |

9/14/2015 12:28:58 PM
 J:\Heilbrook\2015\2300\Drawings\BRG\Traffic Control\TC-3-L.dgn
 M:\SP\AUG\DOT\Bridges\Repair - Dyer County\Drawings\BRG\Traffic Control\TC-3-L.dgn
 T:\300\081636 - IDOT - Bridges Repair - Dyer County\Drawings\BRG\Traffic Control\TC-3-L.dgn



PHASE III TRAFFIC CONTROL

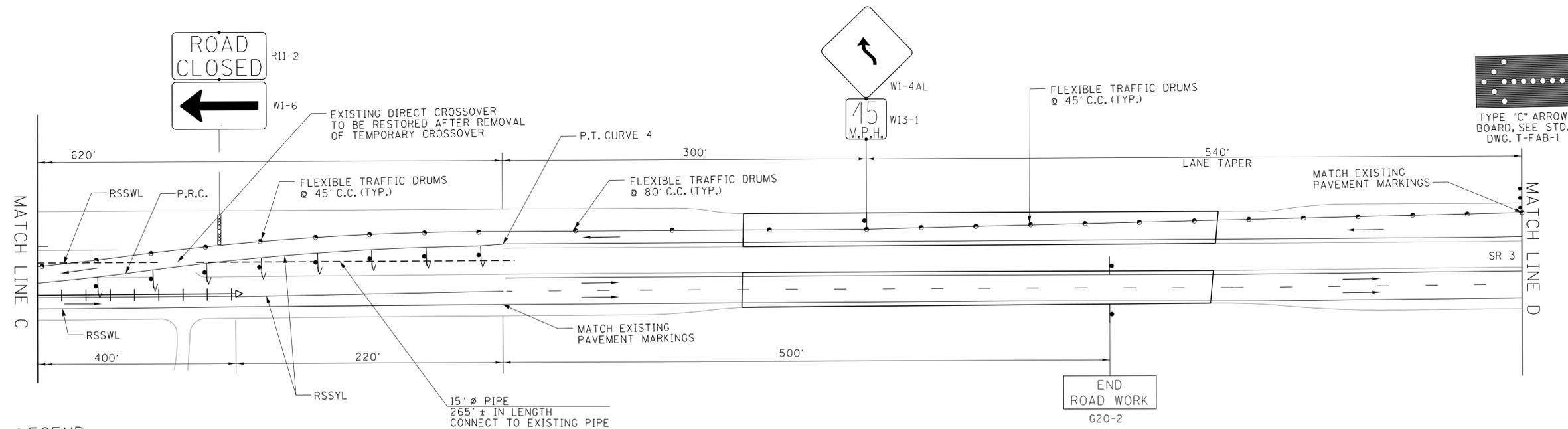
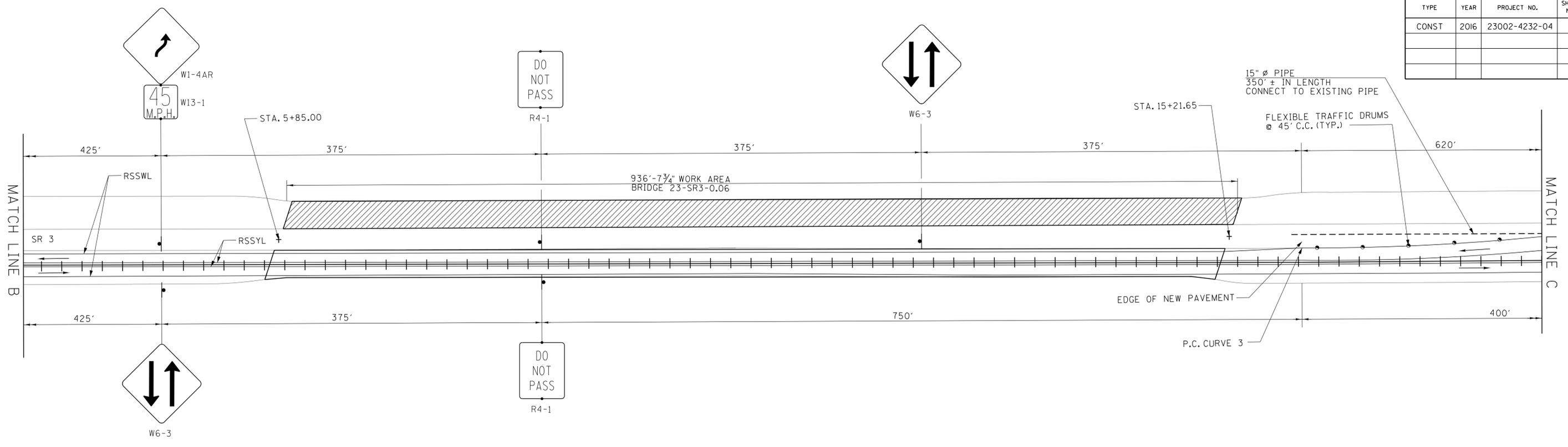
UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PLANNING AND DEVELOPMENT

 TRAFFIC CONTROL PLAN
 BR. NO. 23-SR3-0.06

 SCALE: NONE

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 10 |
| | | | |
| | | | |



- LEGEND**
- AREA UNDER CONSTRUCTION
 - FLEXIBLE TRAFFIC DRUM
 - REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
 - TRAFFIC SIGN
 - DIRECTION OF TRAFFIC
 - ATTENUATOR
 - REMOVABLE SINGLE SOLID WHITE LINE
 - REMOVABLE SINGLE SOLID YELLOW LINE
 - 15" Ø PIPE
 - CHANGEABLE MESSAGE SIGN
 - TYPE III BARRICADE
 - VERTICAL PANEL

| CURVE 3 | CURVE 4 |
|-------------------|-------------------|
| P.I. = STA. 17+49 | P.I. = STA. 20+58 |
| Δ = 7°45'44" | Δ = 7°45'44" |
| D = 2°30' | D = 2°30' |
| R = 2,291.83' | R = 2,291.83' |
| T = 155.48' | T = 155.48' |
| L = 310.49' | L = 310.49' |
| V = 45 MPH | V = 45 MPH |
| S.E. = 0.04 FT/FT | S.E. = 0.04 FT/FT |

SEE SHEET 9 FOR DETAILS OF FLEXIBLE TUBULAR DELINEATOR.

PHASE III TRAFFIC CONTROL

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN

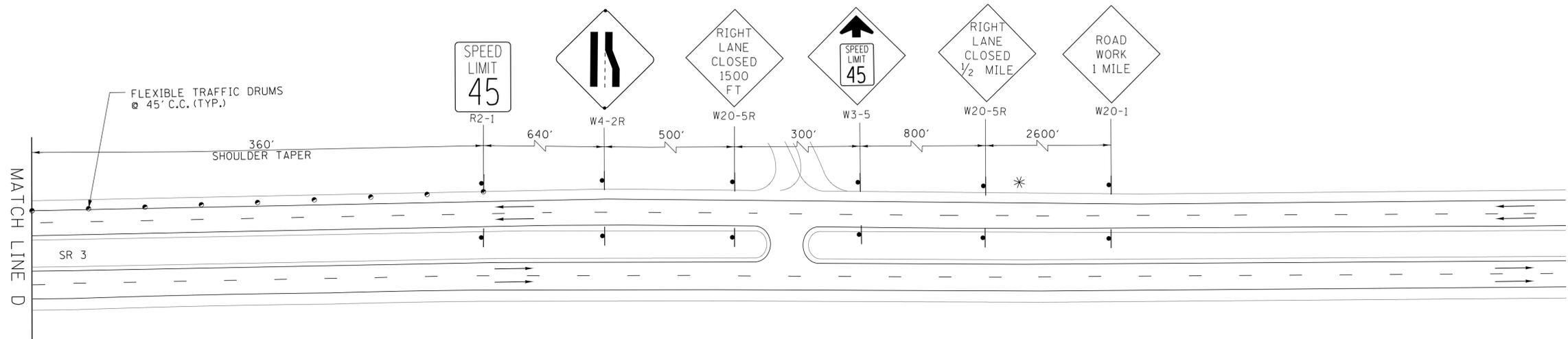
BR. NO. 23-SR3-0.06

SCALE: NONE

9/14/2015 12:26:59 PM
 J:\helbrook\munkspace\tdot\bridge\2300\04\trf636 - TDD1 - Bridge Repair - Dyer County\Drawings\BRG\Traffic Control\TC-3-2.dgn



| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | II |
| | | | |
| | | | |



LEGEND

-  AREA UNDER CONSTRUCTION
-  FLEXIBLE TRAFFIC DRUM
-  REMOVABLE INTERCONNECTED PORTABLE BARRIER RAIL WITH BARRIER RAIL DELINEATORS @ 20' (TYP.)
-  TRAFFIC SIGN
-  DIRECTION OF TRAFFIC
-  ATTENUATOR
-  RSSWL REMOVABLE SINGLE SOLID WHITE LINE
-  RSSYL REMOVABLE SINGLE SOLID YELLOW LINE
-  15" Ø PIPE
-  CHANGEABLE MESSAGE SIGN
-  TYPE III BARRICADE
-  VERTICAL PANEL

PHASE III TRAFFIC CONTROL

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

TRAFFIC CONTROL PLAN
BR. NO. 23-SR3-0.06

SCALE: NONE

9/14/2015 12:27:00 PM
 J:\Heilbrunn\DOT Bridge Repair - Dyer County\Drawings\BRC\Traffic Control\TC-3.dgn
 M:\SP\AUG\DOT Bridge Repair - Dyer County\Drawings\BRC\Traffic Control\TC-3.dgn



| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|-------|------|---------------|-----------|
| CONST | 2016 | 23002-4232-04 | 12 |
| | | | |
| | | | |

CONSTRUCTION SIGNS (BRIDGE NO. 23-SR3-0.06 R&L)

| DESCRIPTION | MUTCD. NO. | SIZE | PHASE I | PHASE II | PHASE III | TOTAL AREA SQ. FT. |
|-------------------------------|------------|---------|---------|----------|-----------|--------------------|
| END ROAD WORK | G20-2 | 48 X 24 | 4 | 4 | 4 | 32 |
| SPEED LIMIT (45 MPH) | R2-1 | 36 X 48 | - | 4 | 4 | 48 |
| DO NOT PASS | R4-1 | 18 X 24 | - | 2 | 2 | 6 |
| KEEP RIGHT | R4-7 | 24 X 30 | - | 1 | 1 | 5 |
| ROAD CLOSED | R11-2 | 48 X 30 | - | 1 | 1 | 10 |
| LANE SHIFT (LEFT) | W1-4L | 48 X 48 | - | 1 | 1 | 16 |
| LANE SHIFT (RIGHT) | W1-4R | 48 X 48 | - | 1 | 1 | 16 |
| LARGE ARROW | W1-6 | 48 X 24 | - | 1 | 1 | 8 |
| REDUCED SPEED AHEAD | W3-5 | 48 X 48 | - | 4 | 4 | 64 |
| LANE ENDS (LEFT) | W4-2L | 48 X 48 | - | 2 | 2 | 32 |
| LANE ENDS (RIGHT) | W4-2R | 48 X 48 | - | 2 | 2 | 32 |
| TWO-WAY TRAFFIC | W6-3 | 48 X 48 | - | 2 | 2 | 32 |
| ADVISORY SPEED (45 M.P.H.) | W13-1 | 24 X 24 | - | 2 | 2 | 8 |
| ROAD WORK 1/2 MILE | W20-1 | 48 X 48 | 4 | - | - | 64 |
| ROAD WORK 1 MILE | W20-1 | 48 X 48 | 4 | 4 | 4 | 64 |
| LEFT LANE CLOSED 1500 FT. | W20-5L | 48 X 48 | - | 2 | 2 | 32 |
| LEFT LANE CLOSED 1/2 MILE | W20-5L | 48 X 48 | - | 2 | 2 | 32 |
| RIGHT LANE CLOSED 1500 FT. | W20-5R | 48 X 48 | - | 2 | 2 | 32 |
| RIGHT LANE CLOSED 1/2 MILE | W20-5R | 48 X 48 | - | 2 | 2 | 32 |
| LEFT SHOULDER CLOSED | W21-5L | 48 X 48 | 4 | - | - | 64 |
| LEFT SHOULDER CLOSED 1500 FT. | W21-5L | 48 X 48 | 4 | - | - | 64 |
| TOTAL | | | | | | 693 |

TRAFFIC CONTROL QUANTITIES (BRIDGE NO. 23-SR3-0.06 R&L)

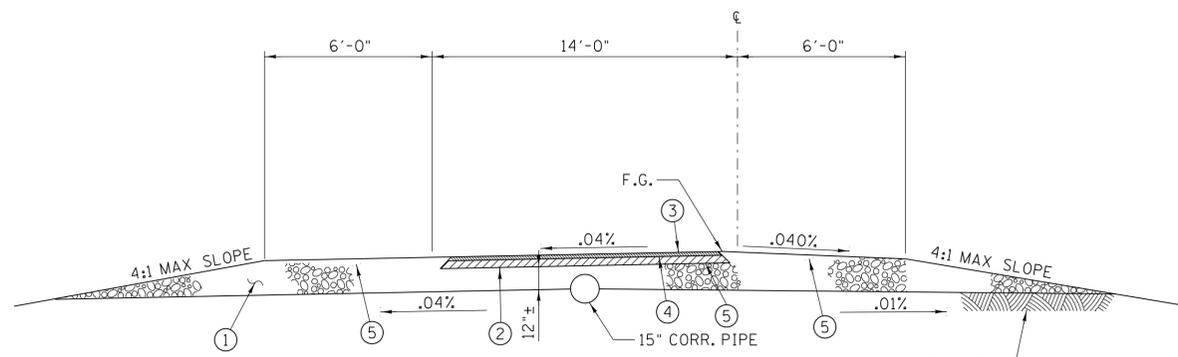
| ITEM NO. | DESCRIPTION | UNIT | PHASE I | PHASE II | PHASE III | TOTAL QUANTITY |
|-----------|---|---------|---------|----------|-----------|----------------|
| 705-04.50 | PORTABLE BARRIER RAIL DELINEATOR | EACH | 349 | 356 | 356 | 356 |
| 705-08.51 | PORTABLE IMPACT ATTENUATOR (NCHRP 350 TL-3) | EACH | 4 | 2 | 2 | 4 |
| 712-01 | TRAFFIC CONTROL | L.S. | - | 0.50 | 0.50 | 1.00 |
| 712-02.02 | INTERCONNECTED PORTABLE BARRIER RAIL | L.F. | 4000 | 2530 | 2530 | 4000 |
| 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 37 | 71 | 73 | 73 |
| 712-06 | SIGNS (CONSTRUCTION) | SQ. FT. | 288 | 501 | 501 | 693 |
| 712-06.01 | VERTICAL PANEL | SQ. FT. | - | 24 | 24 | 48 |
| 712-07.03 | TEMPORARY BARRICADES (TYPE III) | L.F. | - | 80 | 50 | 80 |
| 712-08.03 | ARROW BOARD (TYPE C) | EACH | 2 | 2 | 2 | 2 |
| 712-09.01 | REMOVABLE PAVEMENT MARKING LINE | L.F. | - | 9810 | 14480 | 24290 |
| 713-16.01 | CHANGEABLE MESSAGE SIGN UNIT | EACH | 2 | 2 | 2 | 2 |

NOTES:

- THE CONSTRUCTION SIGNING PLAN IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- THE TRAFFIC CONTROL PLANS DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."
- IF ADDITIONAL SIGNS ARE DEEMED NECESSARY BY THE ENGINEER, THEY SHALL BE FURNISHED AND INSTALLED AT THE UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION), SQ. FT.
- THE CONTRACTOR SHALL VERIFY THAT EXISTING SIGNS ARE COORDINATED WITH THE NEW PROPOSED CONSTRUCTION SIGNS. ANY SIGNS, INCLUDING OVERHEAD SIGNS, THAT MIGHT CAUSE CONFUSION TO TRAFFIC SHALL BE COVERED. ALL WORK MUST MEET THE FULL APPROVAL OF THE ENGINEER.
- DELINATORS SHALL BE PLACED AT 20' O.C. BOTH ON TOP OF THE BARRIER AND ON THE SIDE TOWARDS THE TRAFFIC.

NOTE:

THE COST OF CONSTRUCTING TWO (2) TEMPORARY DIRECT CROSSOVERS DURING MEDIAN CROSS-OVER OPERATION AND RESTORING THEM TO ORIGINAL WORKING CONDITIONS AFTER COMPLETION OF PROJECT TO BE INCLUDED UNDER ITEM 621-01.01, TEMPORARY STRUCTURE (CROSS OVER), LS



TANGENT SECTION
CROSS-OVER

(ITEM NO. 621-01.01, TEMPORARY STRUCTURE, LS)
SCALE: 1/4" = 1'-0"

PROPOSED PAVEMENT SCHEDULE

| | |
|--|--|
| ① MINERAL AGGREGATE BASE 12"± THICK UNDER PVMT. VARIABLE DEPTH UNDER SHLDRS. 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D" | ④ TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (T.C.) AT 0.02 GAL/S.Y. |
| ② BLACK BASE @ 4" THICK (460±LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22) (BPMB-HM) GRADING "A" | ⑤ PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (P.C.) AT 0.35 GAL/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 8-12 LBS/S.Y. |
| ③ BITUMINOUS BINDER @ 2" THICK (226±LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) (BPMB-HM) GRADING "B-M2" | |

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

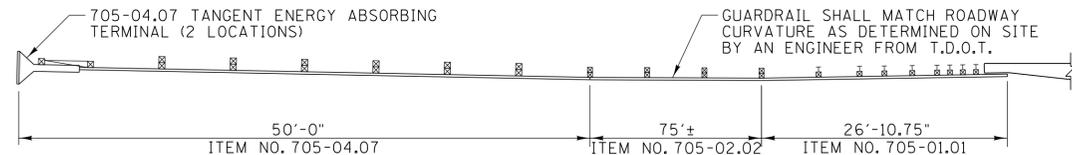
TRAFFIC CONTROL PLAN

BR. NO. 23-SR3-0.06

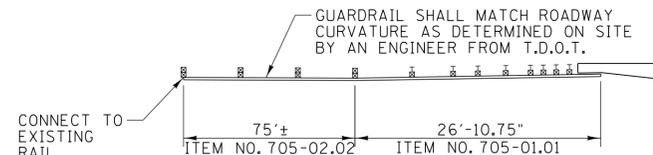
SCALE: NONE



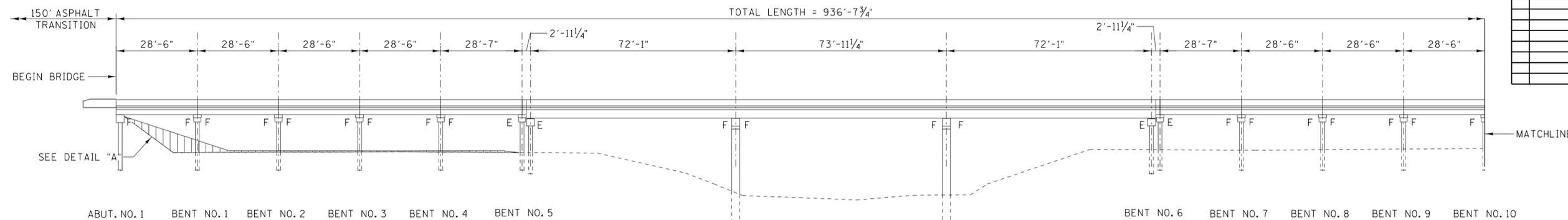
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



DETAIL

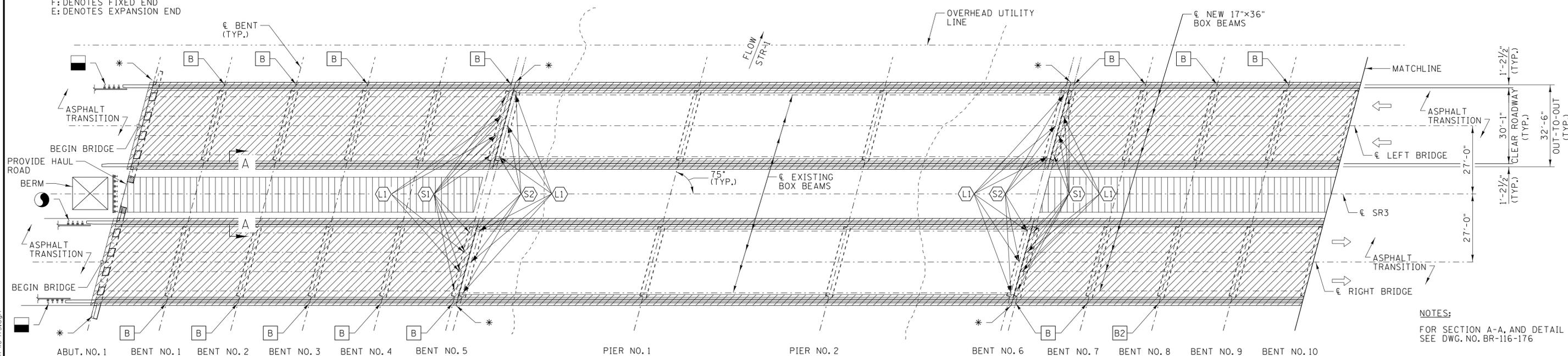


DETAIL



ELEVATION
SCALE: 1" = 20'-0"

LEGEND
F: DENOTES FIXED END
E: DENOTES EXPANSION END



PLAN
SCALE: 1" = 20'-0"

SCOPE OF WORK

- REMOVE EXISTING ASPHALT OVERLAY FOR ENTIRE LENGTH AND WIDTH OF BOTH BRIDGES.
- REMOVE EXISTING CONCRETE DECK, PRECAST BEAMS, CANTILEVERS AND BRIDGE RAILS IN NORTH AND SOUTH APPROACH SPANS (SPANS 1-5 AND 9-28) (TYPICAL AT BOTH LEFT AND RIGHT LANE BRIDGES). FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-179 THRU BR-116-183.
- REMOVE EXISTING DETERIORATED DECK CANTILEVERS AND PARAPETS IN SPAN NOS. 6-8. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-182.
- PROVIDE NEW 8 1/2" CONCRETE DECK FOR APPROACH SPANS (SPANS 1-5 AND 9-28). FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-179 THRU BR-116-183 AND BR-116-195 THRU BR-116-200.
- SCARIFY EXISTING DECK 1" AT SPAN NOS. 6-8. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-182.
- PROVIDE NEW 8 1/2" DECK CANTILEVERS AND NEW 4 1/2" CONCRETE OVERLAY IN THREE MIDDLE SPANS (SPANS 6-8). FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-182 AND BR-116-201.
- PROVIDE BRIDGE DECK GROOVING WITHIN 1' OF THE GUTTER LINES FOR FULL LENGTH OF LEFT AND RIGHT LANE BRIDGES.
- PROVIDE NEW PRESTRESSED CONCRETE BOX BEAMS, (TYPICAL AT LEFT AND RIGHT BRIDGES, SPANS 1-5 AND 9-28). FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-193.
- PROVIDE NEW CONCRETE RISER BLOCKS FOR APPROACH SPANS WHERE EXISTING BENT IS TO REMAIN. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-190.
- PROVIDE NEW BACKWALL AT ABUTMENT NO. 2 AND CONCRETE DIAPHRAGMS AT DESIGNATED BENTS. (TYPICAL AT BOTH LEFT AND RIGHT BRIDGES). FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-186 AND BR-116-187.
- PROVIDE NEW STD-1-ISS CONCRETE PARAPETS AND NEW CONCRETE END POSTS AT ALL FOUR CORNERS OF EACH BRIDGE.
- PROVIDE PARTIAL-DEPTH DECK REPAIR AT MIDDLE SPANS OF LEFT AND RIGHT LANE BRIDGES. (SPANS 6-8). FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-205.
- REMOVE AND REPLACE FULL BENT CAPS AT DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-189.
- REMOVE AND REPLACE PORTION OF EXISTING BENT CAPS AT DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE BR-116-188.
- PROVIDE PILE REPAIR AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-204.
- PROVIDE NEW W-BEAM GUARDRAIL ATTACHMENTS TO CONNECT TO EXISTING GUARDRAIL. TYPICAL AT DESIGNATED LOCATIONS.
- PROVIDE NEW STRIP SEAL EXPANSION JOINTS AT ABUTMENT NO. 2 AND BENT NOS. 5, 6, & 11. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-116-191 AND BR-116-192.
- PROVIDE NEW ELASTOMERIC BEARING ASSEMBLIES AT EXPANSION BENT LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-194.
- PROVIDE LONGITUDINAL SEISMIC RESTRAINTS FOR ALL BEAMS AT EXPANSION BENT LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-203.
- PROVIDE LATERAL SEISMIC RESTRAINTS FOR ALL INT. BEAMS AT EXPANSION BENT LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-202.
- TEXTURE COAT NEW PARAPETS AND SLAB CANTILEVERS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-205.
- PROVIDE 150' ASPHALT TRANSITION AT BOTH ENDS OF BOTH BRIDGES. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-206.
- PROVIDE SPALL REPAIR AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-204.
- PROVIDE TRAFFIC CONTROL FOR SUPERSTRUCTURE REPLACEMENT BY PROVIDING CROSSOVERS. SEE SHEET NOS. 4-12 FOR DETAILS.
- PROVIDE SPALL REPAIR AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-204.
- PROVIDE TRAFFIC CONTROL FOR SUPERSTRUCTURE REPLACEMENT BY PROVIDING CROSSOVERS. SEE SHEET NOS. 4-12 FOR DETAILS.
- PROVIDE SPALL REPAIR AT FIELD DESIGNATED LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-204.
- PROVIDE TRAFFIC CONTROL FOR SUPERSTRUCTURE REPLACEMENT BY PROVIDING CROSSOVERS. SEE SHEET NOS. 4-12 FOR DETAILS.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

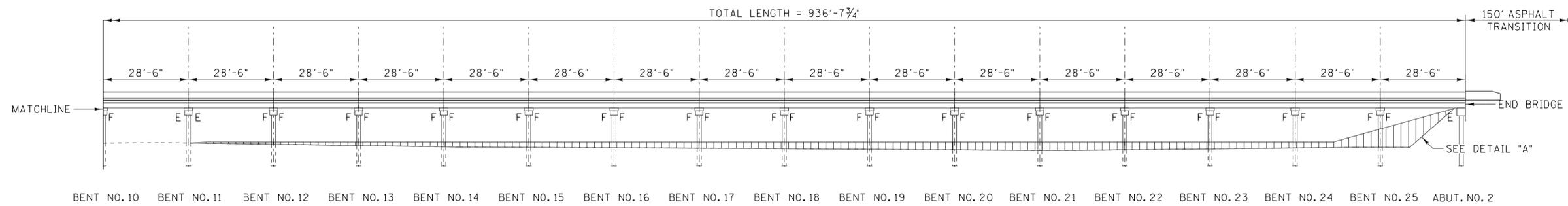
DYER COUNTY
2016

9/14/2015 12:27:02 PM
 J:\hdbr-cook
 WORKSPACE: T001 Br109p
 4-2300-001636 - T001 - Bridge Repair - Dyer County\Drawings\BRG\02 - Final\BR-116-175.dgn

DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

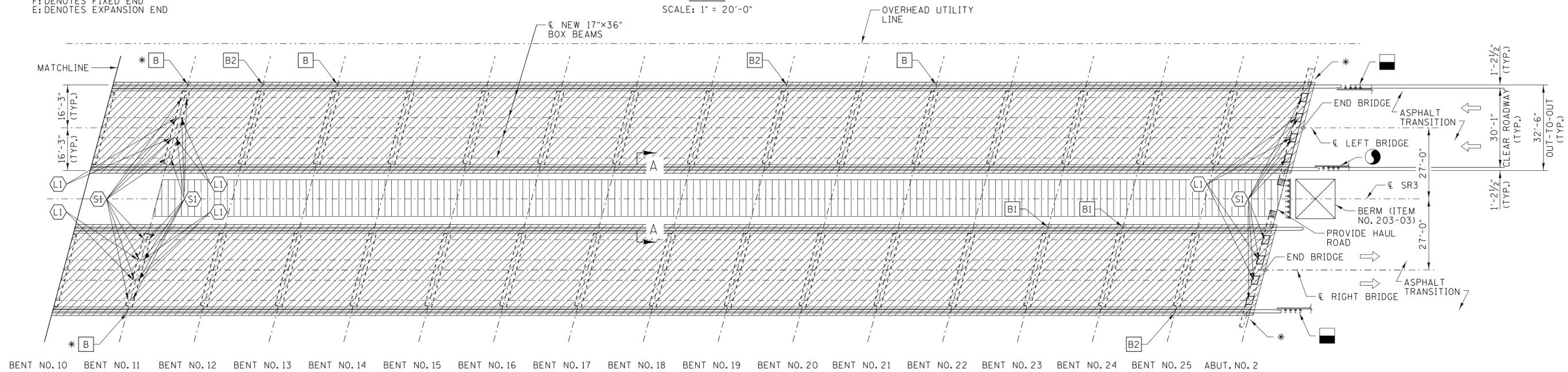
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

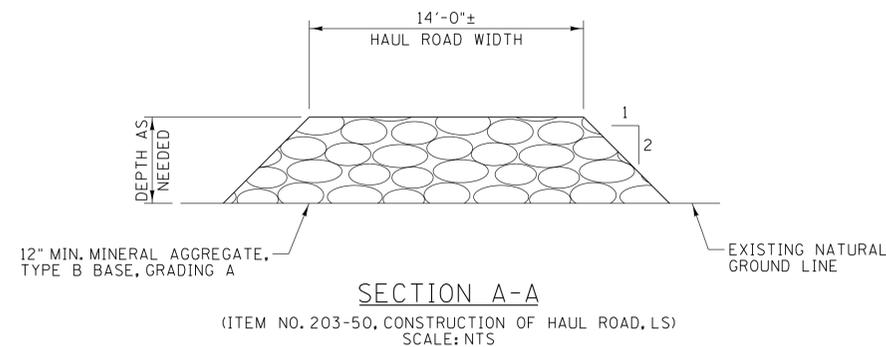


LEGEND
 F: DENOTES FIXED END
 E: DENOTES EXPANSION END

PLAN
 SCALE: 1" = 20'-0"



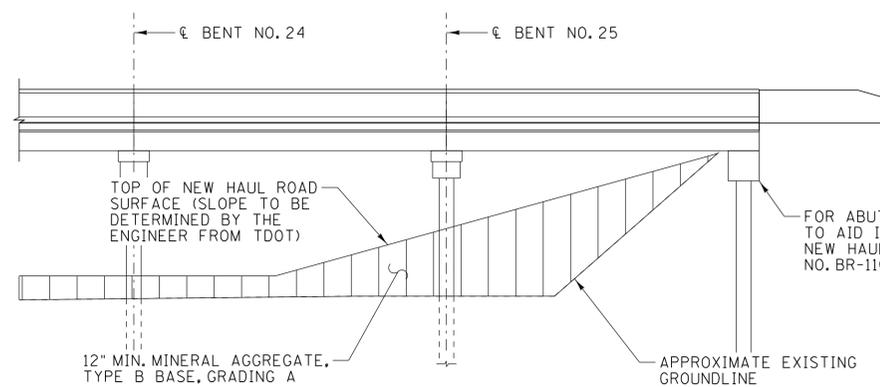
ELEVATION
 SCALE: 1" = 20'-0"



NOTES:

THE CONTRACTOR SHALL CONSTRUCT THE NEW HAUL ROAD TO PROVIDE ACCESS FOR CONSTRUCTION ACCORDING TO THE DETAILS SHOWN ON THIS DRAWING AND THE DIRECTION IN THE FIELD BY THE ENGINEER FROM TDOT. ALL WORK SHALL MEET THE FULL APPROVAL OF THE ENGINEER.

COST OF ALL LABOR, MATERIALS, AND EQUIPMENT TO CONSTRUCT THE NEW HAUL ROAD AND RESTORE THE LOCATION BACK TO THE ORIGINAL CONDITION SHALL BE INCLUDED IN ITEM NO. 203-50, CONSTRUCTION OF HAUL ROAD, LS.



DETAIL "A"
 (SHOWING HAUL ROAD ELEVATION AT ABUTMENT NO. 2
 ABUTMENT NO. 1 IS SIMILAR)
 SCALE: NTS

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

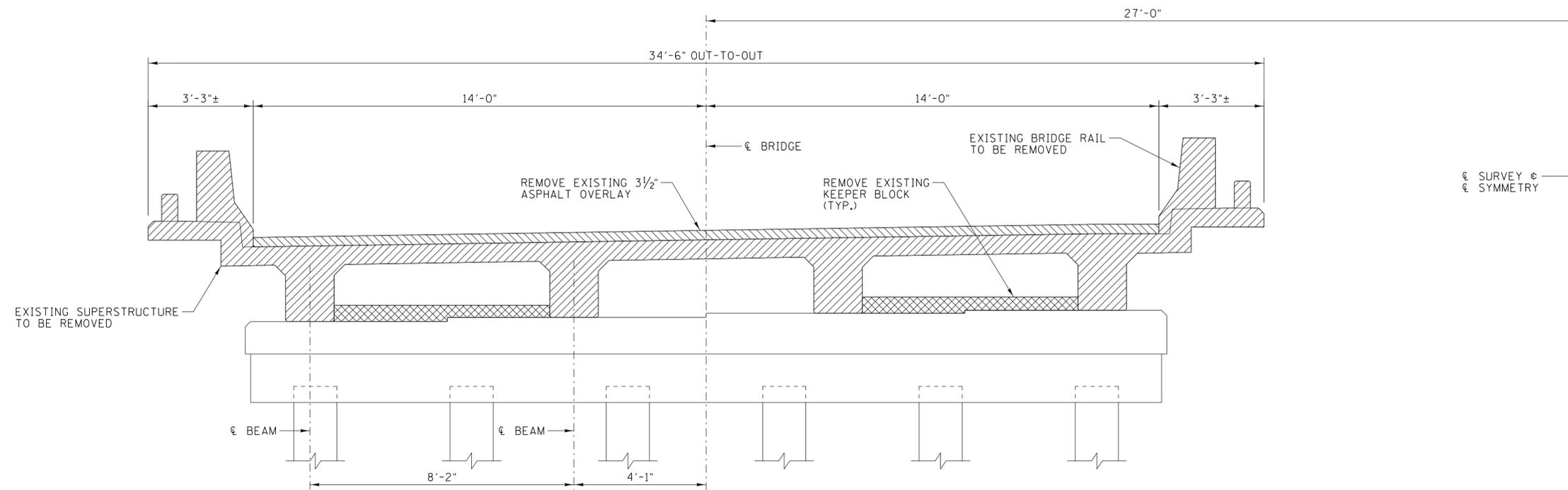
DYER COUNTY
 2016



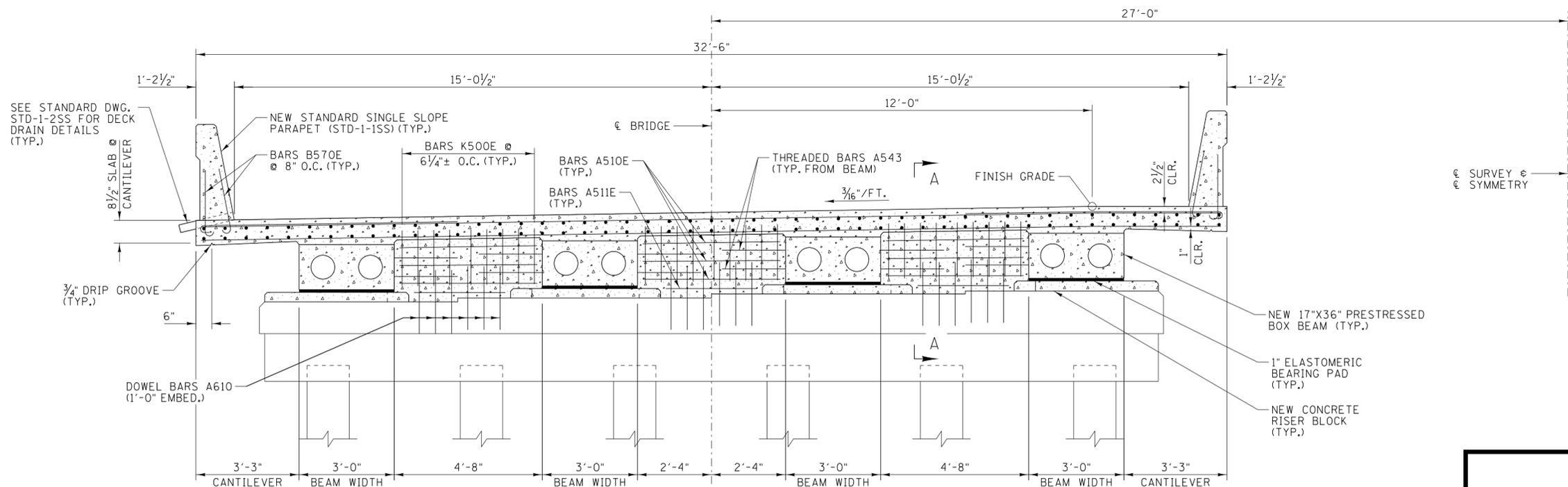
DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



DEMOLITION
 (SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
 RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT € SR3)
 SCALE: 1/2" = 1'-0"



CONSTRUCTION
 (SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
 RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT € SR3)
 SCALE: 1/2" = 1'-0"

NOTES:

THE FINISHED GRADE OF THE CONCRETE ROADWAY CENTERLINE SHALL BE PARALLEL TO THE GRADE OF THE EXISTING BRIDGE. THE NEW SLAB SURFACE SHALL HAVE A CROSS SLOPE MATCHING THE EXISTING SLAB. THE LONGITUDINAL GRADE AND CROSS SLOPE SHALL BE PROFILED USING METHODS SUITABLE FOR NEW CONSTRUCTION.

COST OF ALL REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.

THE CONTRACTOR IS NOT ALLOWED TO POUR THE CONCRETE FOR THE SLAB UNTIL THE CONCRETE FOR THE DIAPHRAGMS HAS BEEN POURED AND HAS REACHED A COMPRESSIVE STRENGTH OF 3000 PSI.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SINGLE SLOPE PARAPETS SHALL BE INCLUDED UNDER ITEM NO. 620-05.01, CONCRETE PARAPET SINGLE SLOPE, L.F. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. STD-1-1SS.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SINGLE SLOPE PARAPETS SHALL BE INCLUDED UNDER ITEM NO. 620-05.01, CONCRETE PARAPET SINGLE SLOPE, L.F. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. STD-1-1SS.

COST OF REMOVING EXISTING CANTILEVERS, BRIDGE RAIL, BEAMS, KEEPER BLOCKS, SLAB, CURB, DIAPHRAGMS, SAW CUTTING AND ALL LABOR AND ANY MISCELLANEOUS ITEMS FOR DEMOLITION AS SHOWN ON THE DETAILS SHALL BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, LS.

COST OF REMOVING EXISTING ASPHALT FROM BRIDGE END TO BRIDGE END SHALL BE PAID FOR UNDER ITEM NO. 604-10.14, REMOVE EXISTING WEARING SURFACE, LS.

FOR ADDITIONAL NOTES AND DETAILS REGARDING THE NEW 17"x36" PRESTRESSED BOX BEAMS, SEE DWG. NO. BR-116-193.

FOR ADDITIONAL NOTES AND DETAILS REGARDING THE NEW RISER BLOCKS, SEE DWG. NO. BR-116-190.

FOR SLAB PLAN REINFORCING, NOTES & DETAILS, SEE DWG. NOS. BR-116-195 THRU BR-116-200.

FOR SECTION A-A, SEE DWG. NO. BR-116-183.

| BENT CAP LOCATION | |
|-------------------|------------|
| LEFT LANE | RIGHT LANE |
| 4L | 8R-10R |
| 10L | 12R-25R |
| 12L | - |
| 14L-20L | - |
| 22L-25L | - |

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
 FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

UNOFFICIAL SET
 NOT FOR BIDDING

9/14/2015 12:27:03 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings, BRG.02 - Final\BR-116-179.dgn
 J:\hdbr-ook 9/14/2015 12:27:03 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings, BRG.02 - Final\BR-116-179.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOTES:

THE FINISHED GRADE OF THE CONCRETE ROADWAY CENTERLINE SHALL BE PARALLEL TO THE GRADE OF THE EXISTING BRIDGE. THE NEW SLAB SURFACE SHALL HAVE A CROSS SLOPE MATCHING THE EXISTING SLAB. THE LONGITUDINAL GRADE AND CROSS SLOPE SHALL BE PROFILED USING METHODS SUITABLE FOR NEW CONSTRUCTION.

COST OF ALL REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.

THE CONTRACTOR IS NOT ALLOWED TO POUR THE CONCRETE FOR THE SLAB UNTIL THE CONCRETE FOR THE DIAPHRAGMS HAS BEEN POURED AND HAS REACHED A COMPRESSIVE STRENGTH OF 3000 PSI.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SLAB AND DIAPHRAGMS SHALL BE INCLUDED UNDER ITEM NO. 604-10.09, CONCRETE, C.Y.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SINGLE SLOPE PARAPETS SHALL BE INCLUDED UNDER ITEM NO. 620-05.01, CONCRETE PARAPET SINGLE SLOPE, L.F. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. STD-1-1SS.

COST OF REMOVING EXISTING CANTILEVERS, BRIDGE RAIL, BEAMS, KEEPER BLOCKS, SLAB, CURB, DIAPHRAGMS, SAW CUTTING AND ALL LABOR AND ANY MISCELLANEOUS ITEMS FOR DEMOLITION AS SHOWN ON THE DETAILS SHALL BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.

COST OF REMOVING EXISTING ASPHALT FROM BRIDGE END TO BRIDGE END SHALL BE PAID FOR UNDER ITEM NO. 604-10.14, REMOVE EXISTING WEARING SURFACE, L.S.

COST OF REMOVING EXISTING CONCRETE BENT CAP SHALL BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.

COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR NEW BENT CAPS TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.

FOR ADDITIONAL NOTES AND DETAILS REGARDING THE NEW 17"x36" PRESTRESSED BOX BEAMS, SEE DWG. NO. BR-116-193.

FOR SLAB PLAN REINFORCING, NOTES & DETAILS, SEE DWG. NOS. BR-116-195 THRU BR-116-200.

FOR SECTION B-B, SEE DWG. NO. BR-116-183.

| BENT CAP LOCATION | |
|-------------------|------------|
| LEFT LANE | RIGHT LANE |
| 1L-3L | 1R-4R |
| 7L-9L | 7R |
| 13L | - |
| 21L | - |

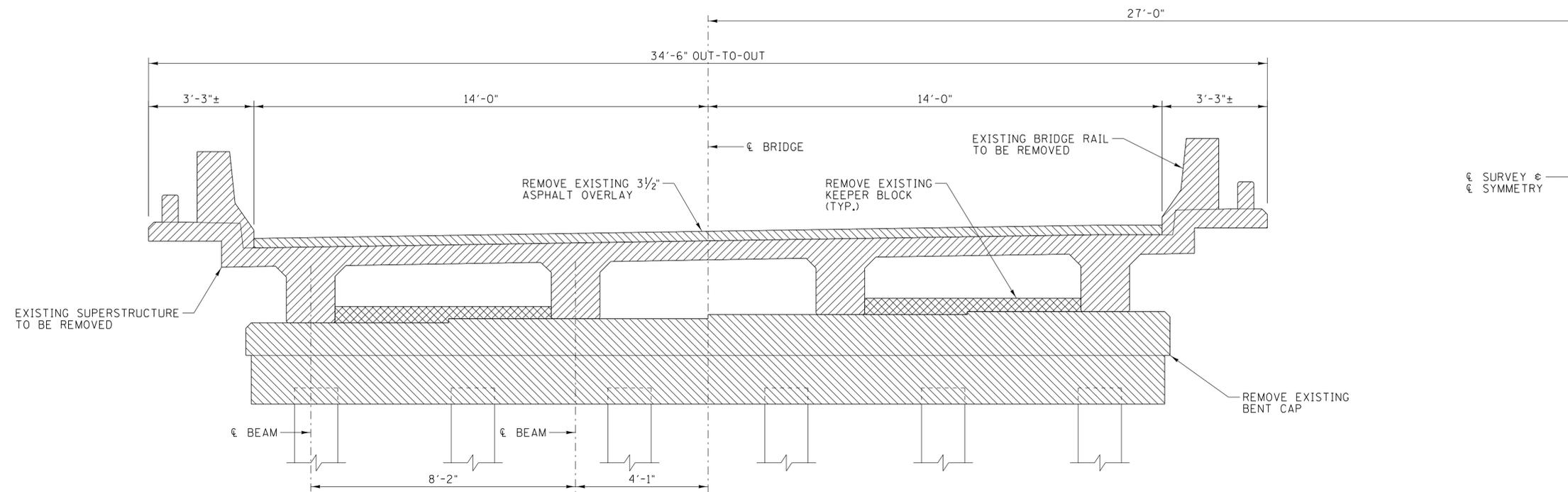
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

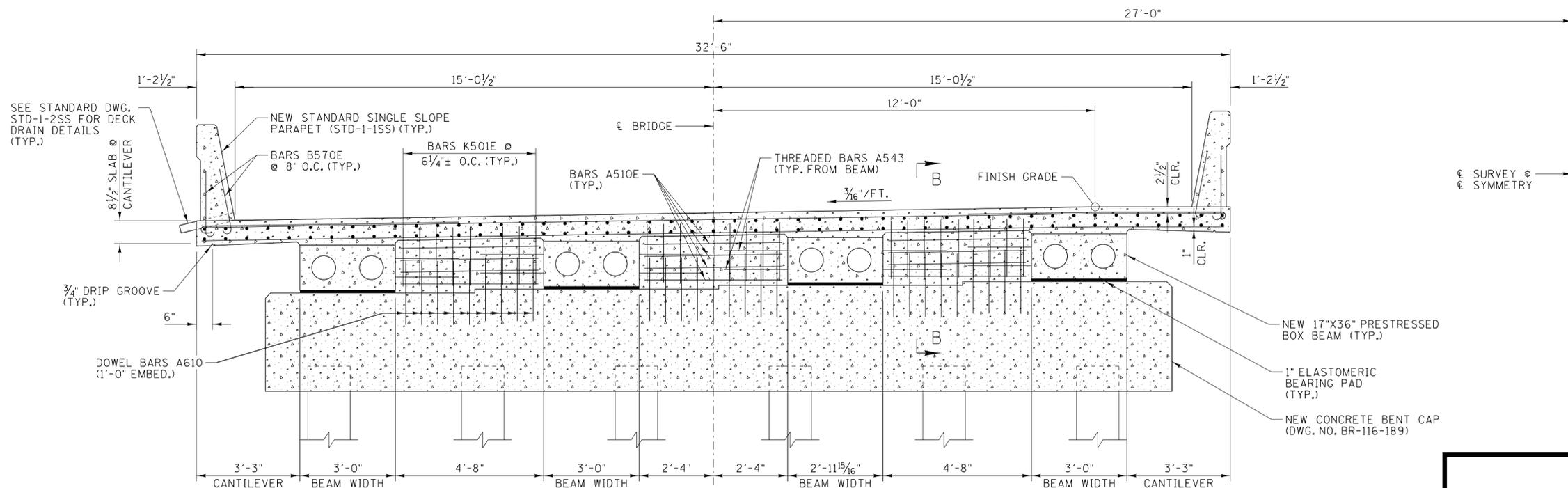
DYER COUNTY
2016

BR-116-180



DEMOLITION

(SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT & SR3)
SCALE: 1/2" = 1'-0"



CONSTRUCTION

(SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT & SR3)
SCALE: 1/2" = 1'-0"

UNOFFICIAL
SET
NOT FOR
BIDDING

9/14/2015 12:27:03 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings BR-116-180.dgn
 J:\hdbr-ook



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOTES:

THE FINISHED GRADE OF THE CONCRETE ROADWAY CENTERLINE SHALL BE PARALLEL TO THE GRADE OF THE EXISTING BRIDGE. THE NEW SLAB SURFACE SHALL HAVE A CROSS SLOPE MATCHING THE EXISTING SLAB. THE LONGITUDINAL GRADE AND CROSS SLOPE SHALL BE PROFILED USING METHODS SUITABLE FOR NEW CONSTRUCTION.

COST OF ALL REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.

THE CONTRACTOR IS NOT ALLOWED TO POUR THE CONCRETE FOR THE SLAB UNTIL THE CONCRETE FOR THE DIAPHRAGMS HAS BEEN POURED AND HAS REACHED A COMPRESSIVE STRENGTH OF 3000 PSI.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SLAB AND DIAPHRAGMS SHALL BE INCLUDED UNDER ITEM NO. 604-10.09, CONCRETE, C.Y.

THE COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR SINGLE SLOPE PARAPETS SHALL BE INCLUDED UNDER ITEM NO. 620-05.01, CONCRETE PARAPET SINGLE SLOPE, L.F. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. STD-1-1SS.

COST OF REMOVING EXISTING CANTILEVERS, BRIDGE RAIL, BEAMS, KEEPER BLOCKS, SLAB, CURB, DIAPHRAGMS, SAW CUTTING AND ALL LABOR AND ANY MISCELLANEOUS ITEMS FOR DEMOLITION AS SHOWN ON THE DETAILS SHALL BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.

COST OF REMOVING EXISTING ASPHALT FROM BRIDGE END TO BRIDGE END SHALL BE PAID FOR UNDER ITEM NO. 604-10.14, REMOVE EXISTING WEARING SURFACE, L.S.

COST OF REMOVING EXISTING CONCRETE BENT CAP SHALL BE INCLUDED IN ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.

COST OF FORMING AND POURING NEW HIGH EARLY STRENGTH CONCRETE FOR NEW BENT CAPS TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.

FOR ADDITIONAL NOTES AND DETAILS REGARDING THE NEW 17"x36" PRESTRESSED BOX BEAMS, SEE DWG. NO. BR-116-193.

FOR SLAB PLAN REINFORCING, NOTES & DETAILS, SEE DWG. NOS. BR-116-195 THRU BR-116-200.

FOR SECTION C-C, SEE DWG. NO. BR-116-183.

| BENT CAP LOCATION | |
|-------------------|------------|
| LEFT LANE | RIGHT LANE |
| 5L-6L | 5R-6R |
| 11L | 11R |

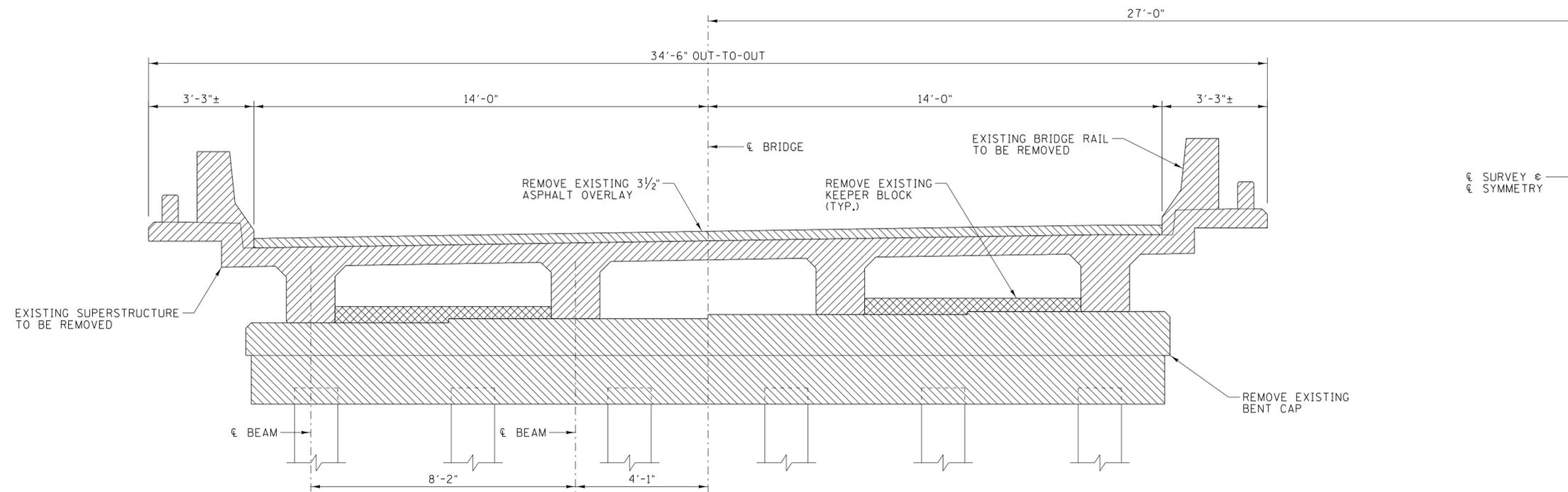
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

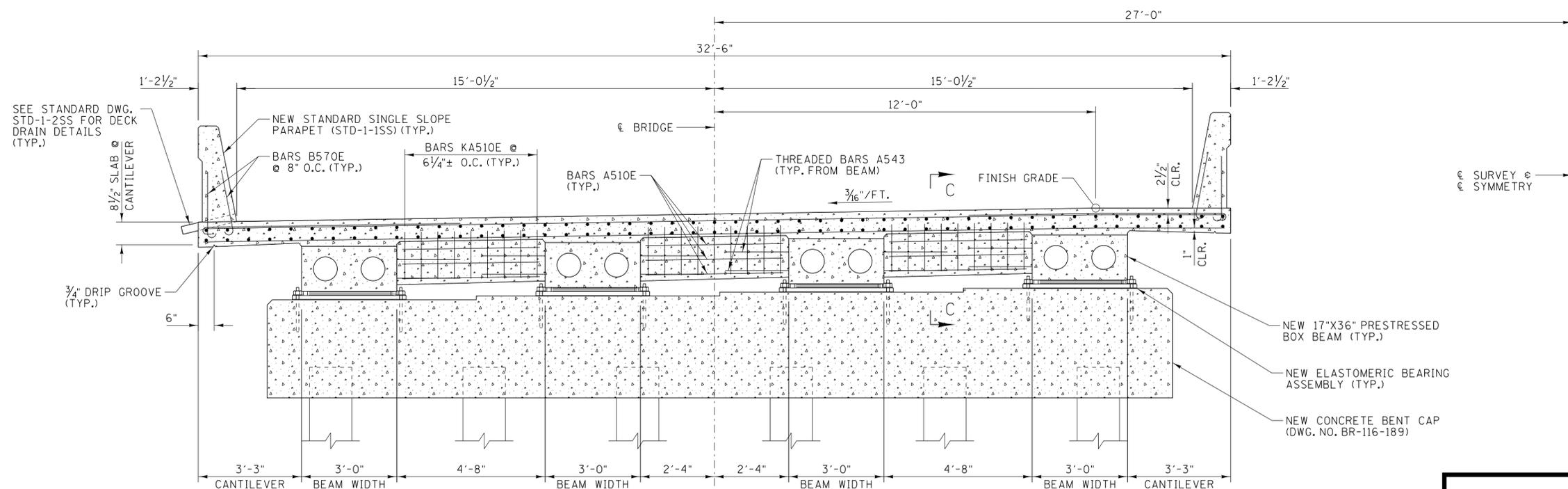
DYER COUNTY
2016

BR-116-181



DEMOLITION

(SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT & SR3)
SCALE: 1/2" = 1'-0"



CONSTRUCTION

(SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR & SYMMETRICAL ABOUT & SR3)
SCALE: 1/2" = 1'-0"

**UNOFFICIAL
SET**
NOT FOR
BIDDING

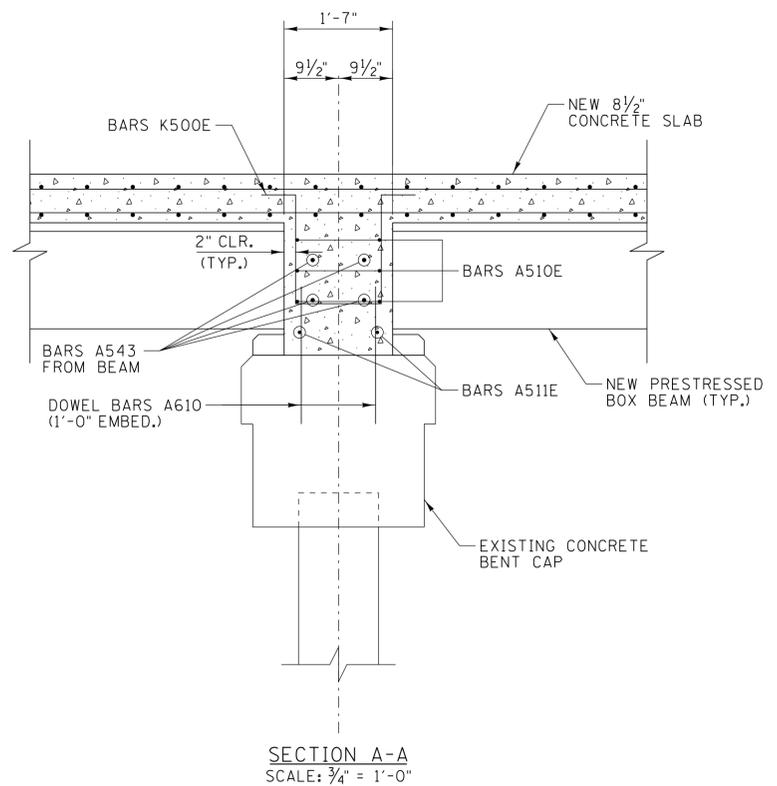
9/14/2015 12:27:04 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-181.dgn
 J:\hd\book 23002-4232-04-101 - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-181.dgn



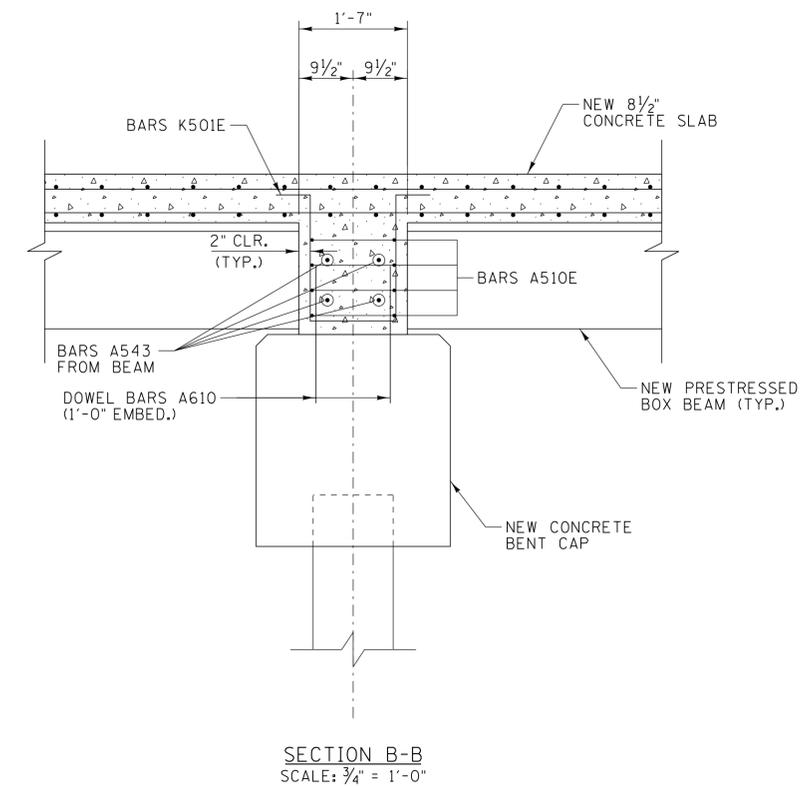
DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

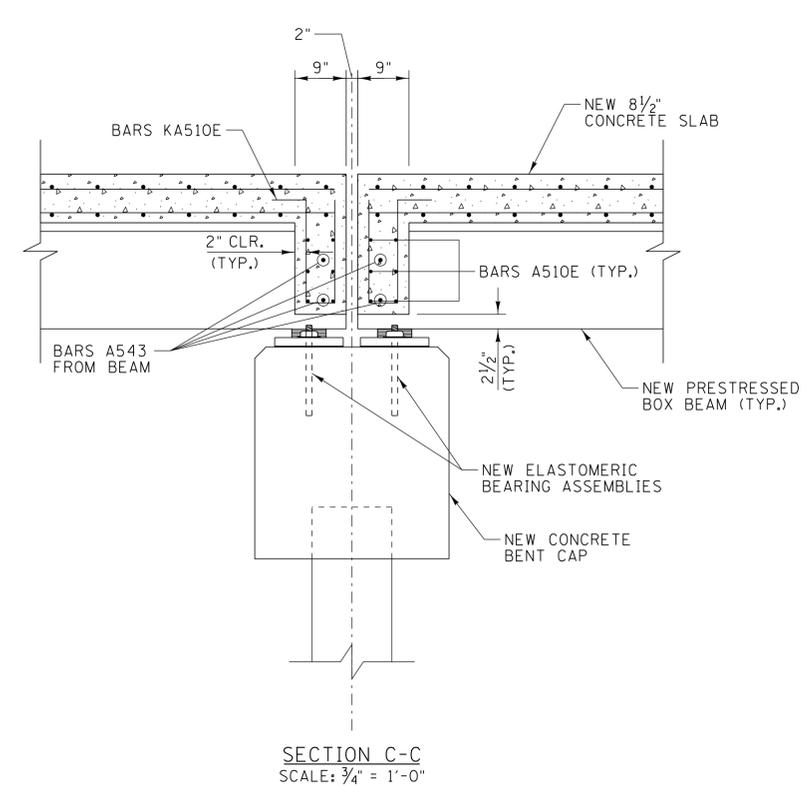
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



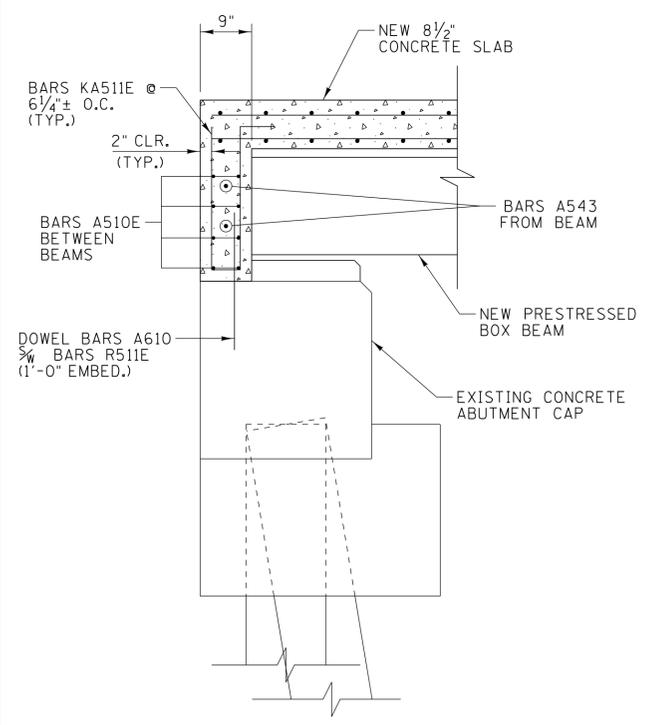
SECTION A-A
SCALE: 3/4" = 1'-0"



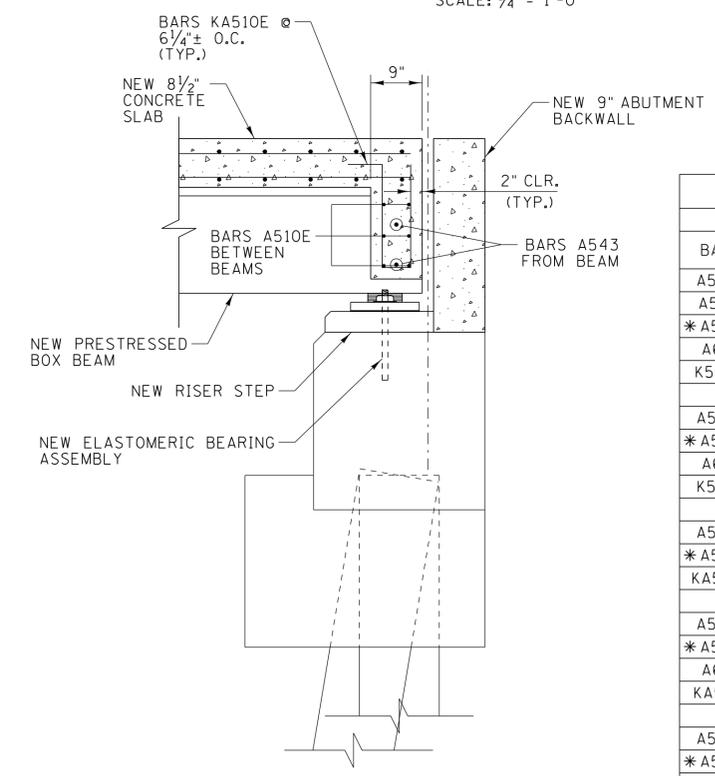
SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION C-C
SCALE: 3/4" = 1'-0"



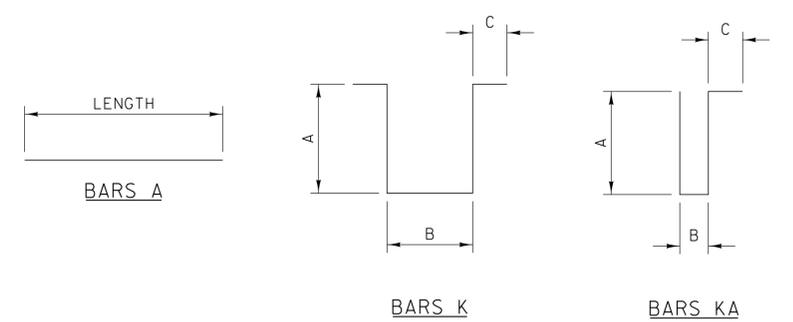
ABUTMENT NO. 1
SCALE: 3/4" = 1'-0"



ABUTMENT NO. 2
SCALE: 3/4" = 1'-0"

| BILL OF STEEL | | | | | | | |
|--|------|-----------|--------------------|-------|----|---|--------|
| DIAPHRAGM REINFORCEMENT (SECTION A-A) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A510E | 5 | 18 | | | | | 4'-4" |
| A511E | 5 | 6 | | | | | 2'-10" |
| *A543 | 5 | 24 | | | | | 2'-0" |
| A610 | 6 | 36 | | | | | 2'-0" |
| K500E | 5 | 27 | 1'-7" | 1'-3" | 6" | | 5'-5" |
| DIAPHRAGM REINFORCEMENT (SECTION B-B) | | | | | | | |
| A510E | 5 | 24 | | | | | 4'-4" |
| *A543 | 5 | 24 | | | | | 2'-0" |
| A610 | 6 | 54 | | | | | 2'-0" |
| K501E | 5 | 27 | 1'-10" | 1'-3" | 6" | | 5'-11" |
| DIAPHRAGM REINFORCEMENT (SECTION C-C) | | | | | | | |
| A510E | 5 | 36 | | | | | 4'-4" |
| *A543 | 5 | 24 | | | | | 2'-0" |
| KA510E | 5 | 54 | 1'-6" | 5" | 6" | | 3'-11" |
| DIAPHRAGM REINFORCEMENT (ABUTMENT NO. 1) | | | | | | | |
| A510E | 5 | 24 | | | | | 4'-4" |
| *A543 | 5 | 12 | | | | | 2'-0" |
| A610 | 6 | 27 | | | | | 2'-0" |
| KA511E | 5 | 27 | 2'-1" | 5" | 6" | | 5'-1" |
| DIAPHRAGM REINFORCEMENT (ABUTMENT NO. 2) | | | | | | | |
| A510E | 5 | 18 | | | | | 4'-4" |
| *A543 | 5 | 12 | | | | | 2'-0" |
| KA510E | 5 | 27 | 1'-6" | 5" | 6" | | 3'-11" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
*NO. REQ'D SHOWN FOR ONE (1) BENT/ABUTMENT LOCATION. SEE DWG. NOS. BR-116-179 THRU BR-116-181 FOR LOCATIONS.
*THREADED BAR FOR MECHANICAL COUPLER.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

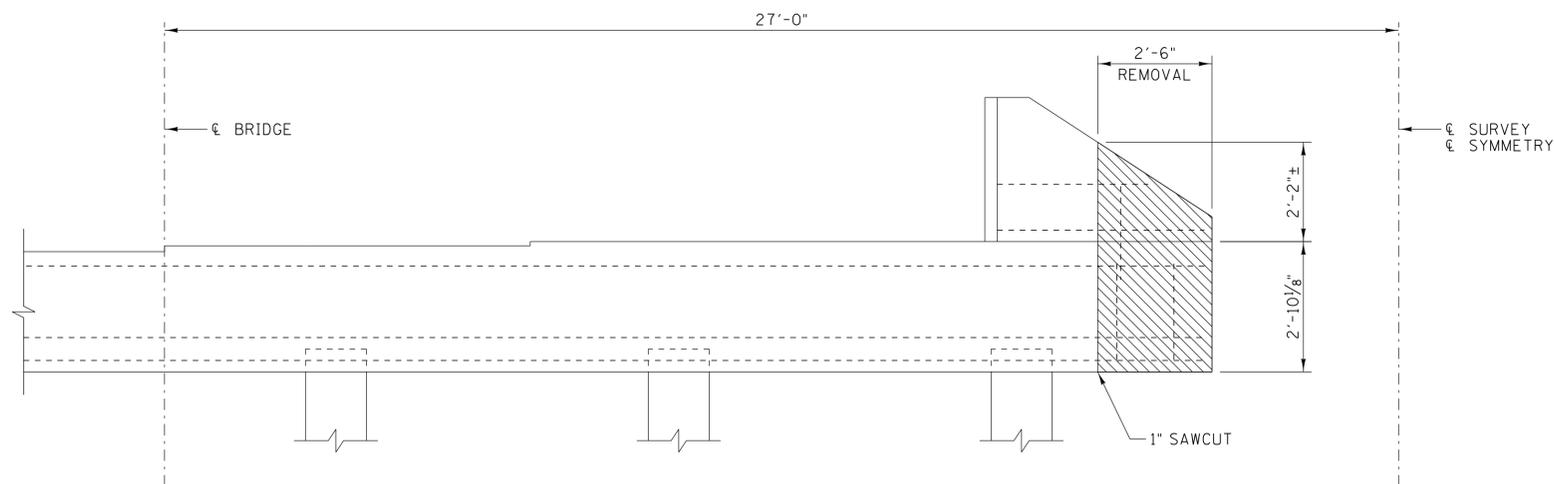
JLHdb-rook 9/14/2015 12:27:05 PM
WORKSPACE: T001 Bridge Repairs - Dyer County Drawings BRG.02 - Final\BR-116-183.dgn
C:\200\2001636 - T001 - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-183.dgn

DESIGNED BY L. I. COBOS DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

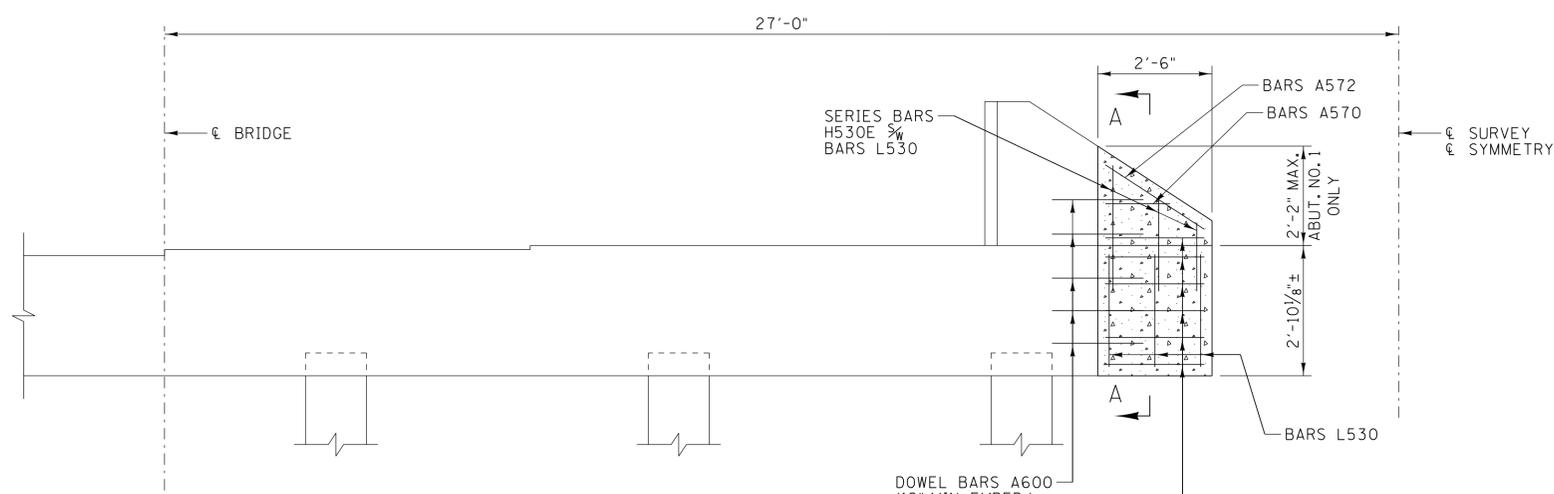
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON



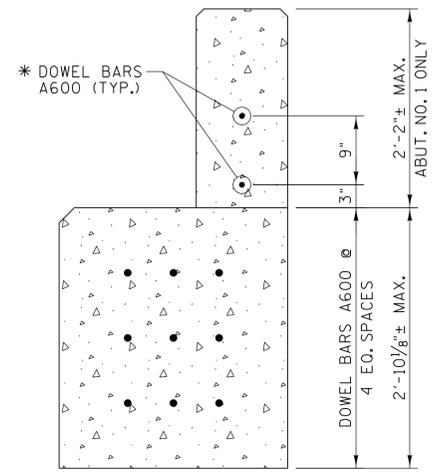
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



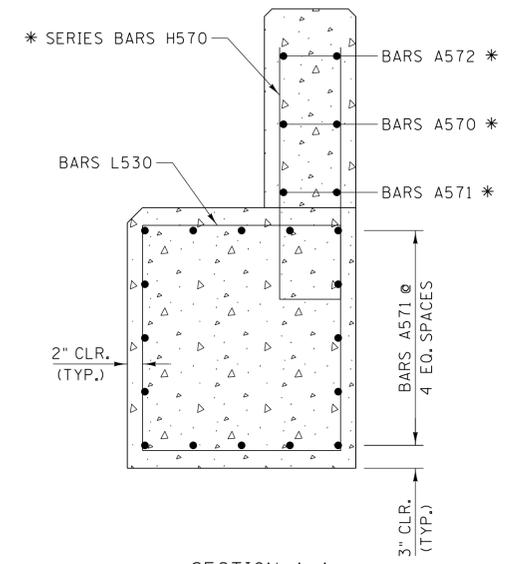
ABUTMENT - PARTIAL DEMOLITION
 (LOOKING FORWARD @ LEFT LANE ABUTMENT NO. 1,
 ABUTMENT NO. 2 @ RIGHT LANE SIMILAR)
 SCALE: 1/2" = 1'-0"



ABUTMENT - CONSTRUCTION
 (LOOKING FORWARD @ LEFT LANE ABUTMENT NO. 1,
 ABUTMENT NO. 2 @ RIGHT LANE SIMILAR)
 SCALE: 1/2" = 1'-0"



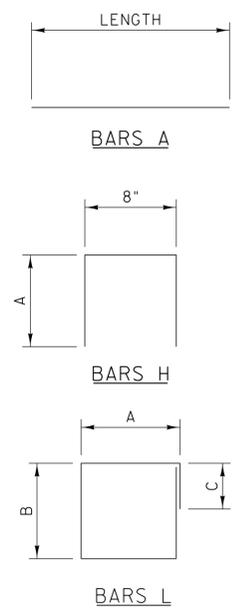
SECTION A-A
 (SHOWING DOWEL REINFORCEMENT)
 SCALE: 1" = 1'-0"



SECTION A-A
 (SHOWING NEW REINFORCEMENT)
 SCALE: 1" = 1'-0"

*** NOTES:**
 WINGWALL REINFORCEMENT SHOWN IS FOR ABUTMENT NO. 1 (LL & RL) ONLY.
 FOR ABUTMENT NO. 2 WINGWALL REINFORCING, SEE DWG. NOS. BR-116-186 AND BR-116-187.

NOTES:
 COST OF ALL LABOR AND MATERIAL NECESSARY TO SAWCUT AND REMOVE PORTION OF ABUTMENTS TO AID IN HAUL ROAD CONSTRUCTION SHALL BE PAID FOR UNDER ITEM NO. 604-10.07, CONCRETE REMOVAL, L.S.
 COST OF REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.
 ONLY AFTER HAUL ROAD IS REMOVED CAN THE ABUTMENT ENDS BE REPAIRED.
 COST OF ALL LABOR AND MATERIALS NECESSARY TO FORM AND POUR THE NEW ABUTMENT CAP ENDS (LL & RL ABUTMENT NOS. 1 & 2) AND NEW WINGWALLS (LL & RL ABUTMENT NO. 1) USING HIGH EARLY STRENGTH CONCRETE TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.



| BILL OF STEEL | | | | | | | |
|------------------------------|------|-----------|---|-------|-------|---|--------|
| ABUTMENT NO. 1 REINFORCEMENT | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A570 | 5 | 2 | | | | | 1'-5" |
| A571 | 5 | 18 | | | | | 2'-2" |
| A572 | 5 | 2 | | | | | 2'-7" |
| A600 | 6 | 11 | | | | | 2'-0" |
| SERIES H570 | 5 | 1 | LENGTH "A" VARIES FROM 1'-6" TO 2'-9" IN INCREMENTS OF 7"± (3 REQ'D.) | | | | 14'-8" |
| L530 | 5 | 3 | 2'-2" | 2'-6" | 1'-0" | | 10'-4" |
| ABUTMENT NO. 2 REINFORCEMENT | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A571 | 5 | 16 | | | | | 2'-2" |
| A600 | 6 | 9 | | | | | 2'-0" |
| L530 | 5 | 3 | 2'-2" | 2'-6" | 1'-0" | | 10'-4" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 "NO. REQ'D" SHOWN FOR ONE (1) ABUTMENT LOCATION, TWO (2) LOCATIONS REQ'D. PER ABUTMENT TYPE.

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

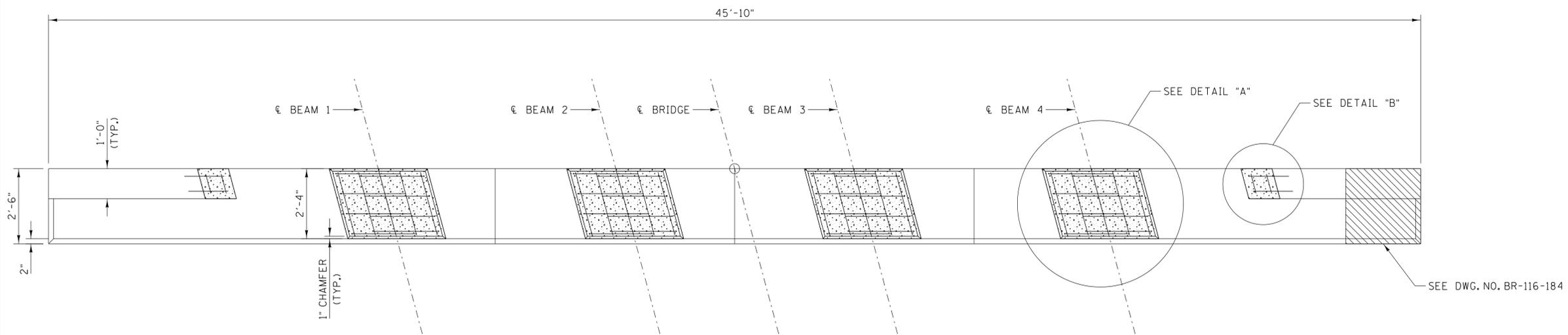
DYER COUNTY
 2016

JLHdb-rook 9/14/2015 12:27:05 PM
 WORKSPACE: T:\01 Bridge - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-184.dgn

GARVER
 DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



PLAN VIEW
(SHOWING LEFT LANE ABUTMENT NO. 1,
RIGHT LANE SIMILAR)
SCALE: 1/2" = 1'-0"

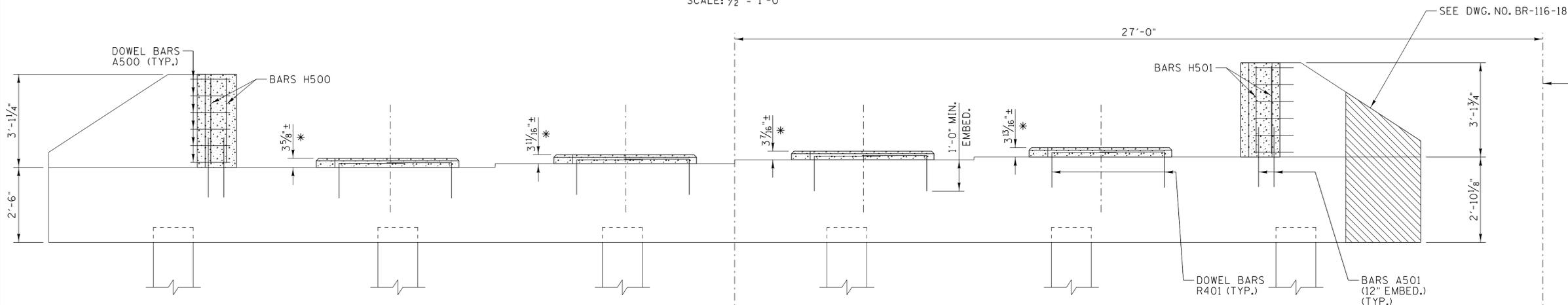
NOTES:

COST OF ALL LABOR AND MATERIAL NECESSARY TO FORM AND POUR THE NEW RISER BLOCKS USING HIGH EARLY STRENGTH CONCRETE TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.

COST OF REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.

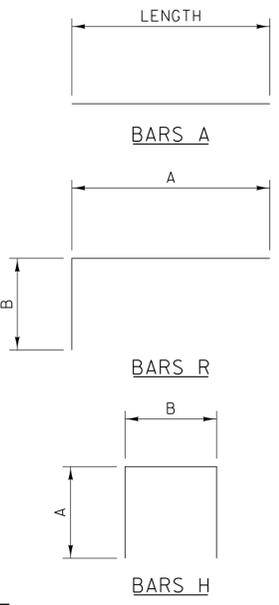
NO LOADING, DEAD OR LIVE WILL BE PERMITTED ON THE NEW RISER BLOCK UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.



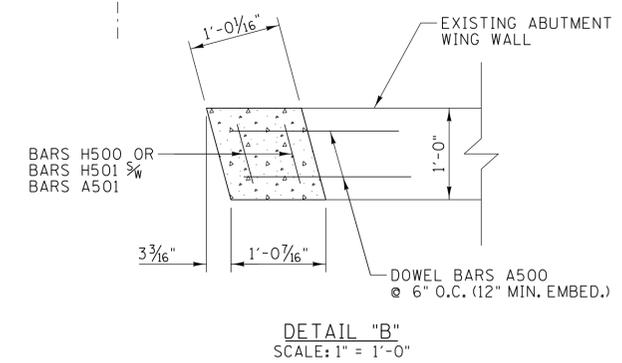
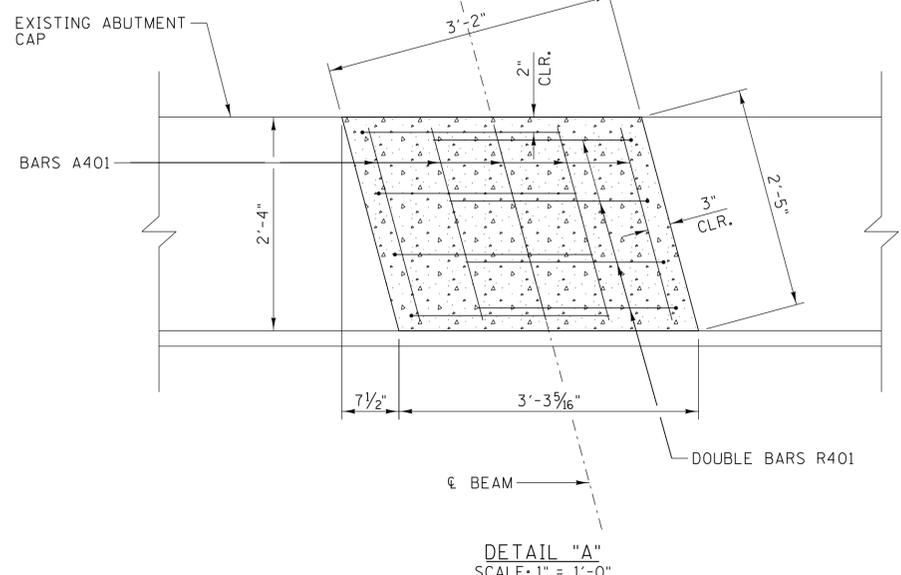
ELEVATION
(LOOKING FORWARD @ LEFT LANE ABUTMENT NO. 1,
RIGHT LANE SIMILAR)
SCALE: 1/2" = 1'-0"

* FIELD VERIFY



| BILL OF STEEL | | | | | | | |
|------------------------------|------|-----------|--------------------|-------|---|---|--------|
| ABUTMENT NO. 1 REINFORCEMENT | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A401 | 4 | 20 | | | | | 2'-3" |
| A500 | 5 | 24 | | | | | 1'-10" |
| A501 | 5 | 8 | | | | | 2'-0" |
| H500 | 5 | 2 | 2'-10" | 8" | | | 6'-4" |
| H501 | 5 | 2 | 2'-11" | 8" | | | 6'-6" |
| R401 | 4 | 32 | 2'-2" | 1'-2" | | | 3'-4" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
"NO. REQ'D" SHOWN FOR ONE (1) ABUTMENT LOCATION. TWO (2) LOCATIONS REQ'D.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

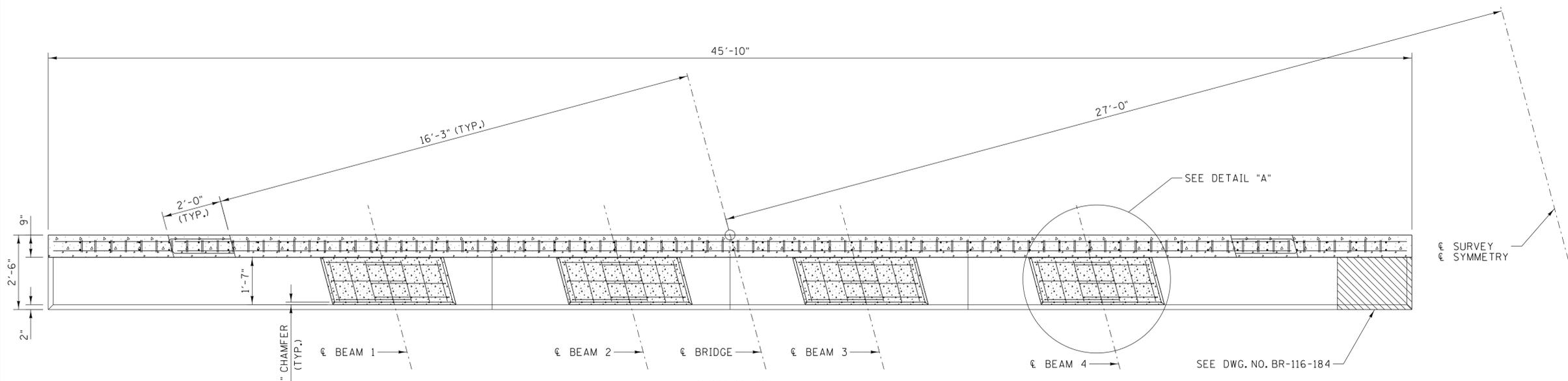
JLHdb-rook 9/14/2015 12:27:05 PM
WORKSPACE: T001 Bridge - TD01 - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-185.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



PLAN VIEW
 (SHOWING LEFT LANE ABUTMENT NO. 2,
 RIGHT LANE SIMILAR & SYMMETRICAL ABOUT & SR3)
 SCALE: 1/2" = 1'-0"

NOTES:

COST OF ALL LABOR AND MATERIAL NECESSARY TO FORM AND POUR THE NEW RISER BLOCKS AND NEW BACKWALL USING HIGH EARLY STRENGTH CONCRETE TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.

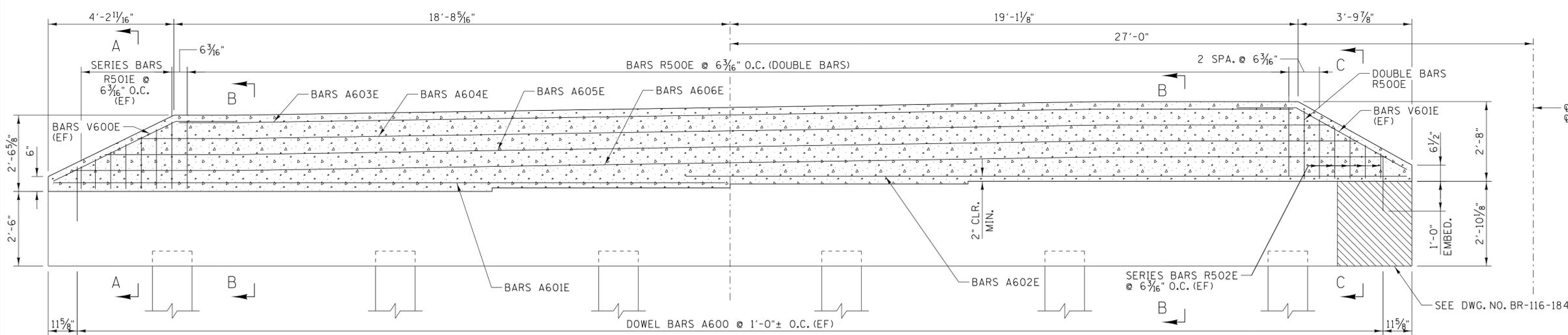
COST OF REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.

NO LOADING, DEAD OR LIVE WILL BE PERMITTED ON THE NEW RISER BLOCK UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

THE FINISHED GRADE OF THE CONCRETE ROADWAY CENTERLINE SHALL BE PARALLEL TO THE GRADE OF THE EXISTING BRIDGE. THE NEW BACKWALL SURFACE SHALL HAVE A CROSS SLOPE MATCHING THE EXISTING SLAB. THE LONGITUDINAL GRADE AND CROSS SLOPE SHALL BE PROFILED USING METHODS SUITABLE FOR NEW CONSTRUCTION.

ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.

FOR DETAIL "A", SECTIONS A-A, B-B, C-C, BILL OF STEEL, AND BAR BENDING DETAILS, SEE DWG. NO. BR-116-187.



*** ELEVATION**
 (LOOKING FORWARD @ LEFT LANE ABUTMENT NO. 2,
 RIGHT LANE SIMILAR & SYMMETRICAL ABOUT & SR3)
 SCALE: 1/2" = 1'-0"

LEGEND
 EF = EACH FACE

* ABUTMENT RISER BLOCKS ARE NOT SHOWN FOR CLARITY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK
 FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

UNOFFICIAL SET
 NOT FOR BIDDING

9/14/2015 12:27:06 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-186.dgn
 J:\hdhbrook 9/14/2015 12:27:06 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-186.dgn

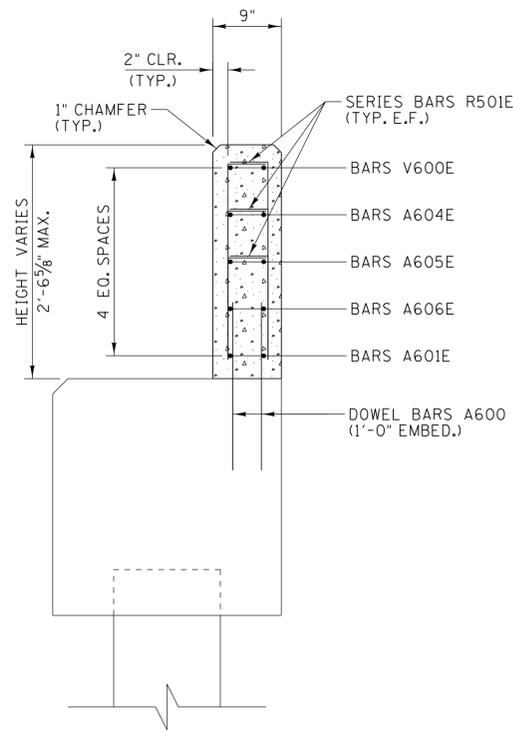
GARVER

DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

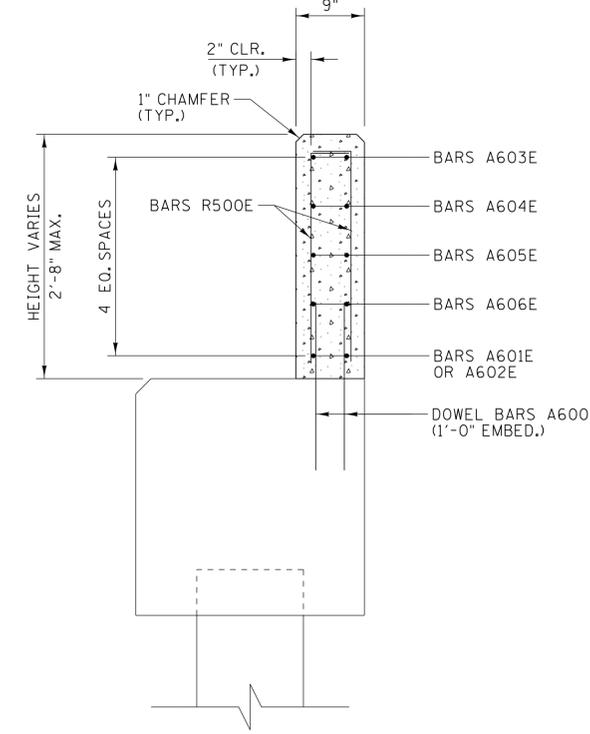
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

BR-116-186

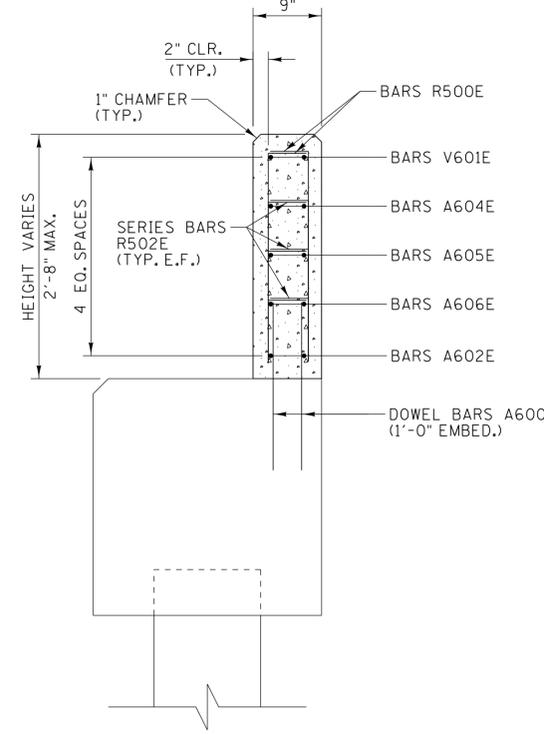
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



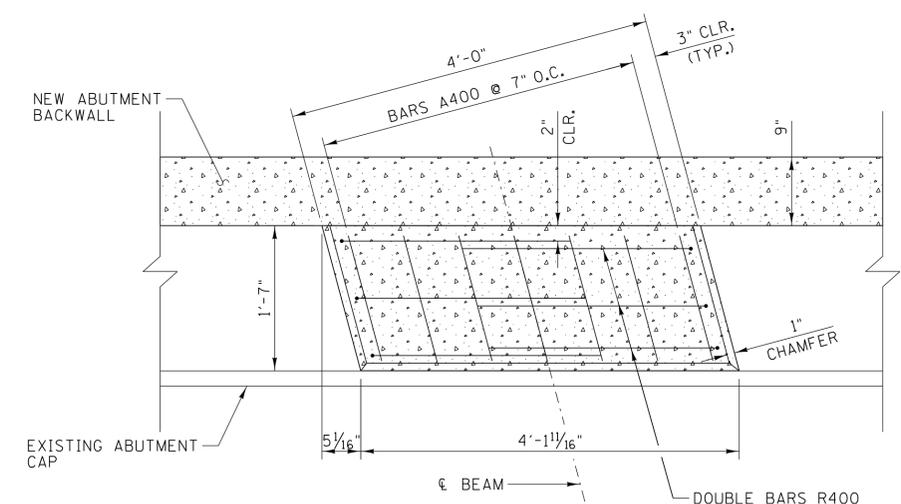
SECTION A-A
SCALE: 1" = 1'-0"



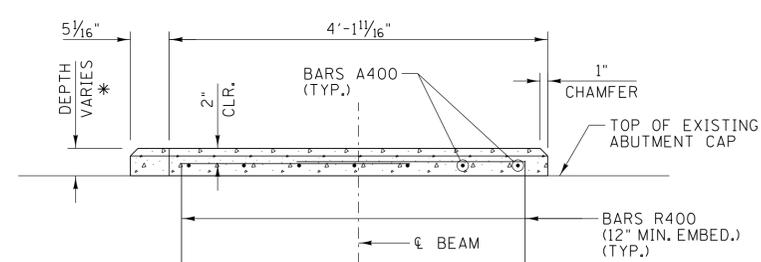
SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"



DETAIL "A"
SCALE: 1" = 1'-0"



DETAIL "A" - ELEVATION
SCALE: 1" = 1'-0"

* FIELD VERIFY

ABUTMENT NO. 2
(LEFT LANE BRIDGE)

| LOCATION | RISER BLOCK HEIGHT |
|----------|--------------------|
| BEAM 1 | 3 5/8" ± |
| BEAM 2 | 3 11/16" ± |
| BEAM 3 | 3 7/16" ± |
| BEAM 4 | 3 13/16" ± |

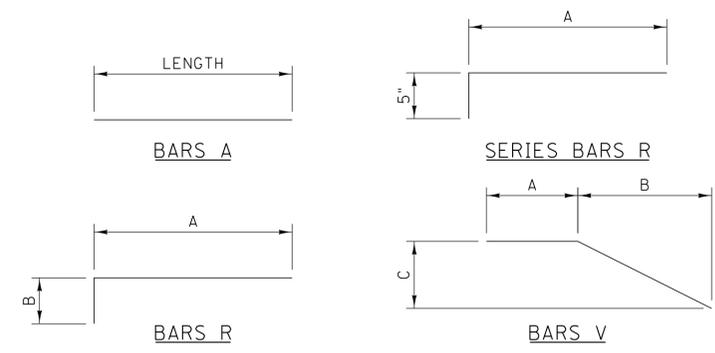
NOTE:
RIGHT LANE BRIDGE SYMMETRICAL
ABOUT ε SR3

BILL OF STEEL

ABUTMENT NO. 2 REINFORCEMENT

| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
|--------------|------|-----------|--|-----------|-------|---|-----------|
| | | | A | B | C | D | |
| A400E | 4 | 28 | | | | | 1'-5" |
| A600 | 6 | 180 | | | | | 1'-10" |
| A601E | 6 | 2 | | | | | 22'-7" |
| A602E | 6 | 2 | | | | | 24'-3" |
| A603E | 6 | 2 | | | | | 37'-6" |
| A604E | 6 | 2 | | | | | 40'-1" |
| A605E | 6 | 2 | | | | | 42'-2" |
| A606E | 6 | 2 | | | | | 44'-3" |
| R400 | 4 | 24 | 2'-6" | 1'-2" | | | 3'-8" |
| R500E | 5 | 148 | 2'-3 1/2" | 5" | | | 2'-8 1/2" |
| SERIES R501E | 5 | 2 | LENGTH VARIES FROM 9" TO 2'-3" IN INCREMENTS OF 3" (7 REQ'D.) | | | | 10'-6" |
| SERIES R502E | 5 | 2 | LENGTH VARIES FROM 10" TO 2'-0" IN INCREMENTS OF 3 1/2" (5 REQ'D.) | | | | 7'-1" |
| V600E | 6 | 2 | 2'-0" | 4'-1 1/2" | 2'-0" | | 6'-7" |
| V601E | 6 | 2 | 2'-0" | 3'-8 1/2" | 2'-1" | | 6'-3" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
BARS ENDING IN "E" TO BE EPOXY COATED.
"NO. REQ'D" SHOWN FOR ONE (1) ABUTMENT LOCATION, TWO (2) LOCATIONS REQ'D.



NOTES:
FOR DETAIL "A", SECTION A-A, SECTION B-B, AND SECTION C-C LOCATIONS, SEE DWG. NO. BR-116-186.
COST OF ALL LABOR AND MATERIAL NECESSARY TO FORM AND POUR THE NEW RISER BLOCKS AND NEW BACKWALL USING HIGH EARLY STRENGTH CONCRETE TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.
COST OF REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.
NO LOADING, DEAD OR LIVE WILL BE PERMITTED ON THE NEW RISER BLOCK UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
SLOPE OF BACKWALL TO MATCH SLOPE OF NEW CONCRETE DECK. FOR NOTES AND DETAILS, SEE DWG. NO. BR-116-186.
ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

UNOFFICIAL SET
NOT FOR BIDDING

JLHdb-rook 9/14/2015 12:27:06 PM
WORKSPACE: T001 Br109p - Bridge Repair - Dyer County Drawings BR02 - Final\BR-116-187.dgn

DESIGNED BY L. I. COBOS DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

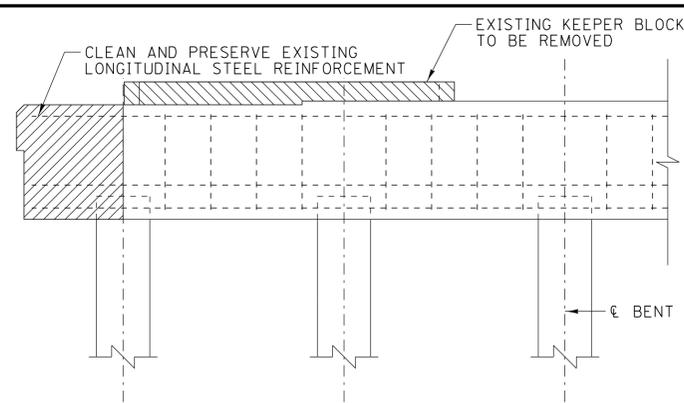
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

BR-116-187

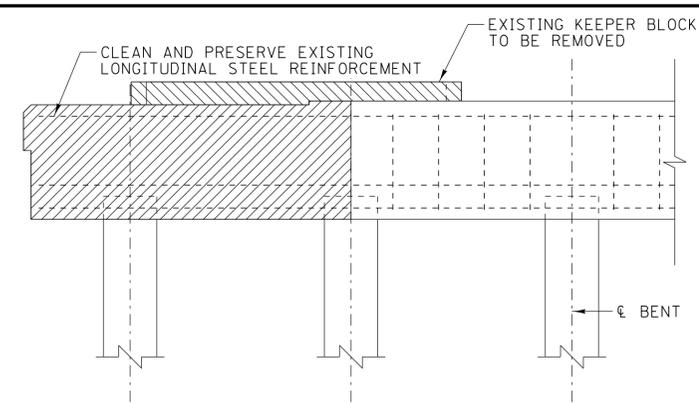
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| BILL OF STEEL | | | | | | |
|-------------------------------|------|-----------|--------------------|-------|---|-----------|
| BENT CAP REPAIR REINFORCEMENT | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | LENGTH |
| | | | A | B | C | |
| A720 | 7 | 36 | | | | 3'-8" |
| A721 | 7 | 52 | | | | 6'-6" |
| H520 | 5 | 18 | 1'-11 1/2" | 1'-8" | | 4'-7 1/2" |
| H521 | 5 | 18 | 2'-1/2" | 1'-8" | | 4'-8 1/2" |
| H522 | 5 | 108 | 2'-2" | 2'-0" | | 6'-2" |

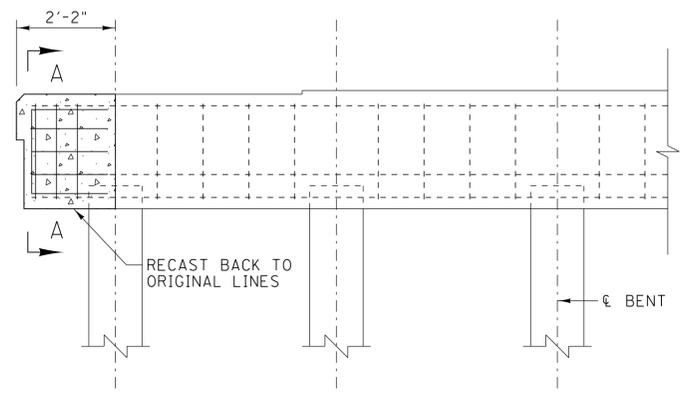
NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 NO. REQ'D. SHOWN IS THE TOTAL NUMBER OF BARS FOR ALL REPAIR TYPES (TYPE I & TYPE II) AT REQUIRED BENT CAP REPAIR LOCATIONS.



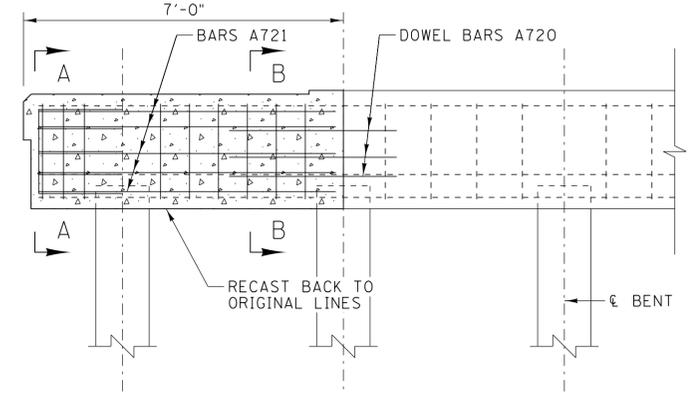
TYPE I BENT CAP END REPAIR - DEMOLITION
 (TYP. FOR BENT NOS. 23R & 24R)
 SCALE: 1/2" = 1'-0"



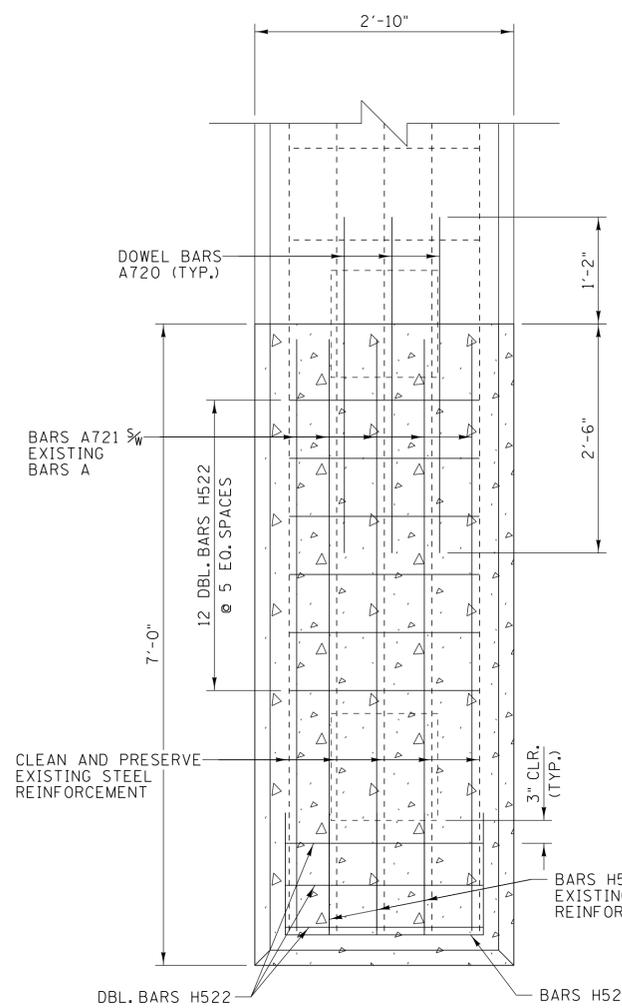
TYPE II BENT CAP END REPAIR - DEMOLITION
 (TYP. FOR BENT NOS. 12L, 19L, 8R, & 25R)
 SCALE: 1/2" = 1'-0"



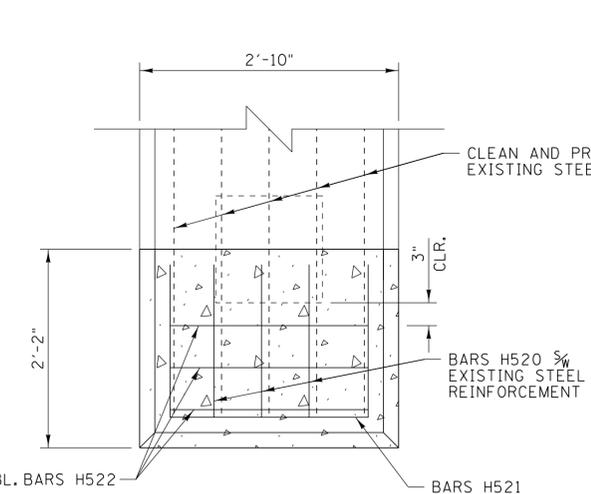
TYPE I BENT CAP END REPAIR - CONSTRUCTION
 (TYP. FOR BENT NOS. 23R & 24R)
 SCALE: 1/2" = 1'-0"



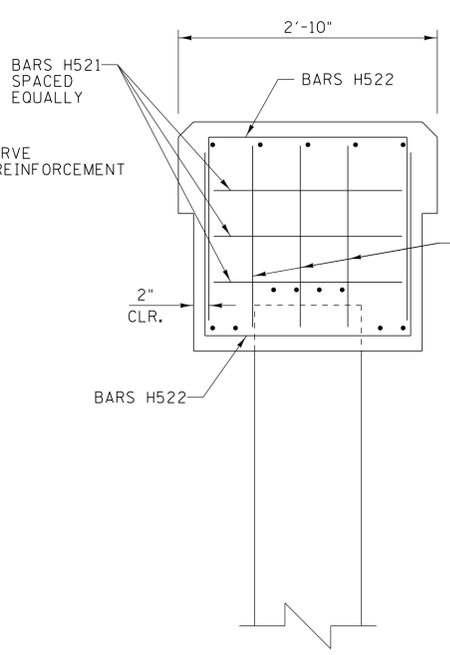
TYPE II BENT CAP END REPAIR - CONSTRUCTION
 (TYP. FOR BENT NOS. 12L, 19L, 8R, & 25R)
 SCALE: 1/2" = 1'-0"



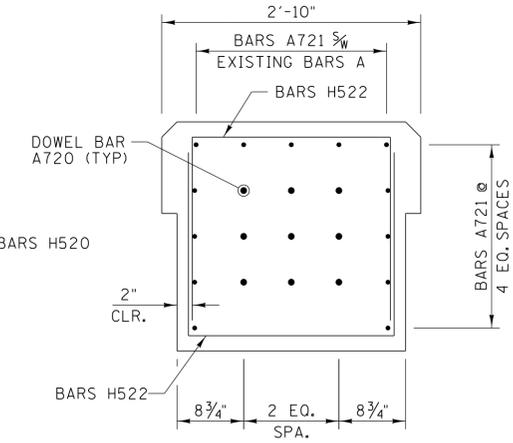
TYPE II REPAIR - PLAN
 SCALE: 1/2" = 1'-0"



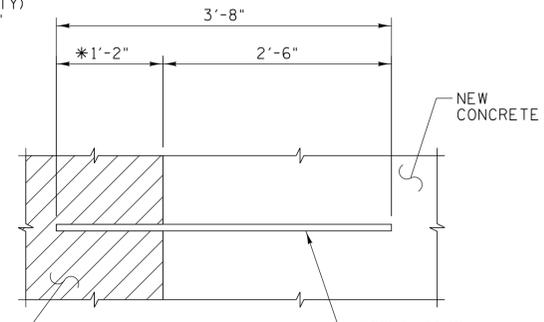
TYPE I REPAIR - PLAN
 SCALE: 1" = 1'-0"



SECTION A-A
 SCALE: 1" = 1'-0"

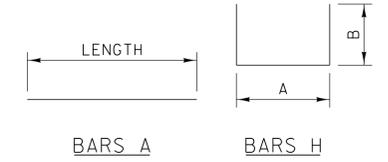


SECTION B-B
 (EXISTING REINFORCEMENT NOT SHOWN FOR CLARITY)
 SCALE: 1" = 1'-0"



DOWEL BAR DETAILS
 SCALE: 1" = 1'-0"

* HOLES SHALL BE DRILLED 1/2" IN DIAMETER LARGER THAN THE DOWEL BAR. CLEANED, PACKED WITH NON-SHRINK GROUT AND DRIVEN TO ITS SEAT. ALL COSTS OF GROUT AND DRILLING TO BE INCLUDED UNDER ITEM NO. 604-10.02, CONCRETE REPAIRS, C.Y.



NOTES:
 ALL EXISTING LONGITUDINAL REINFORCING STEEL TO REMAIN IN THE CAP IS TO BE CLEANED AND INCORPORATED IN WITH THE NEW REINFORCING STEEL.
 ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING BENT CAP ENDS AND CLEANING OF REMAINING LONGITUDINAL REINFORCING TO BE INCLUDED IN ITEM NO. 604-10.07, CONCRETE REMOVAL, L.S.
 COST OF FORMING AND POURING HIGH EARLY STRENGTH CONCRETE FOR BENT CAP END REPAIR TO BE INCLUDED IN ITEM NO. 604-10.02, CONCRETE REPAIRS, C.Y. SEE DWG. NOS. BR-116-175 AND BR-116-176 FOR LOCATIONS.
 COST OF REINFORCING STEEL TO BE INCLUDED IN ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), L.B.
 FOR NOTES AND DETAILS ABOUT THE REMOVAL OF THE EXISTING KEEPER BLOCKS, SEE DWG. NOS. BR-116-179 THRU BR-116-181.
 NO LOADING, LIVE OR DEAD, WILL BE PERMITTED ON THE NEW BENT CAP ENDS UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

| BENT CAP REPAIR | |
|-----------------|--------------|
| TYPE | LOCATION |
| TYPE I | 23R (INSIDE) |
| TYPE I | 24R (INSIDE) |
| TYPE II | 8R |
| TYPE II | 12L |
| TYPE II | 19L |
| TYPE II | 25R |

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

UNOFFICIAL SET
 NOT FOR BIDDING

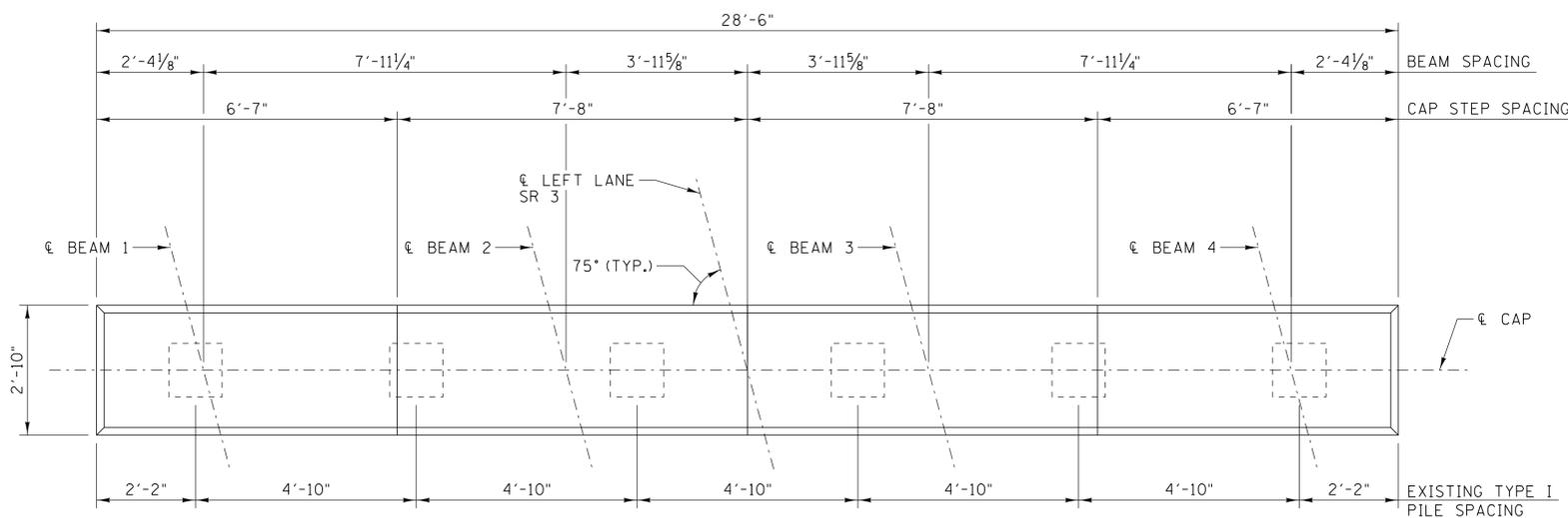
9/14/2015 12:27:07 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-188.dgn
 JLHidbrook
 23002-4232-04-1001 - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-188.dgn



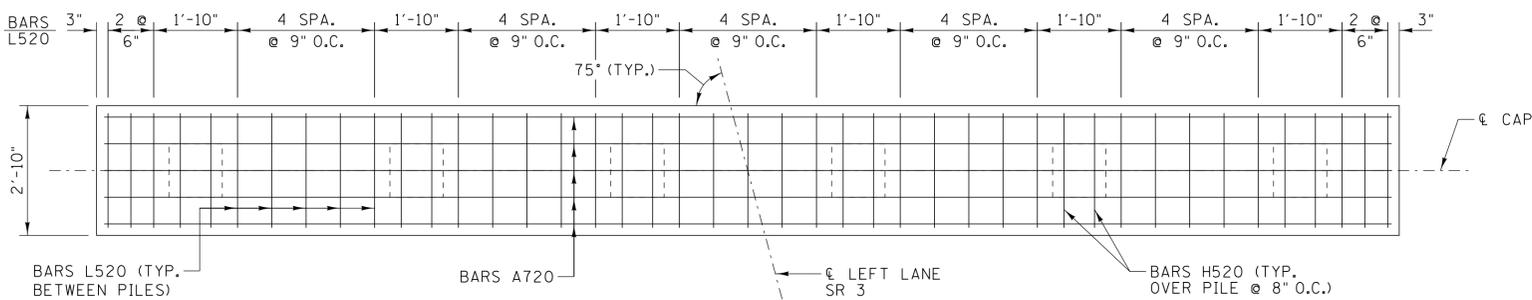
DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

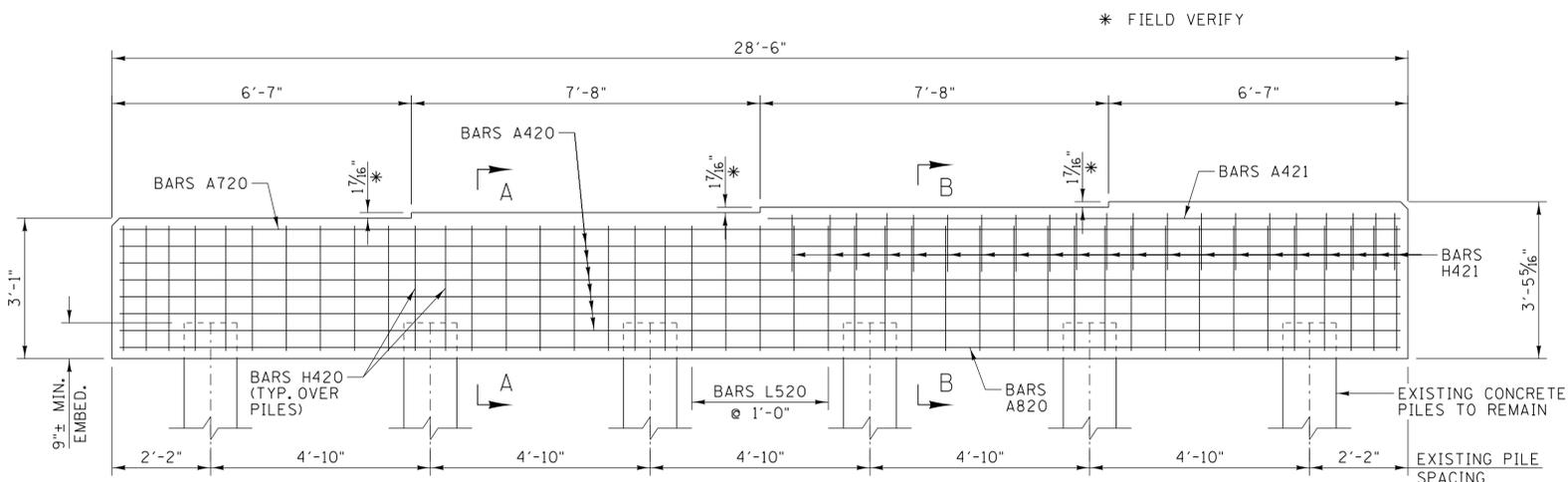
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



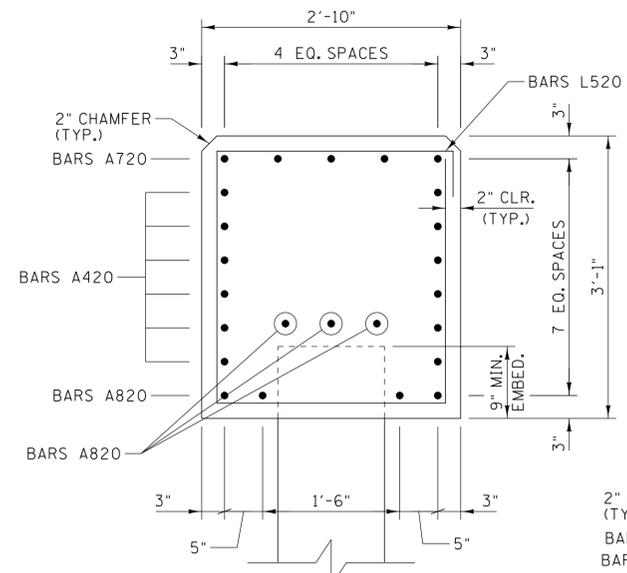
PLAN OF BENT
SCALE: 1/2" = 1'-0"



PLAN OF BENT REINFORCEMENT
SCALE: 1/2" = 1'-0"



ELEVATION OF BENT REINFORCEMENT
(SHOWN LOOKING FORWARD FOR LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR)
SCALE: 1/2" = 1'-0"

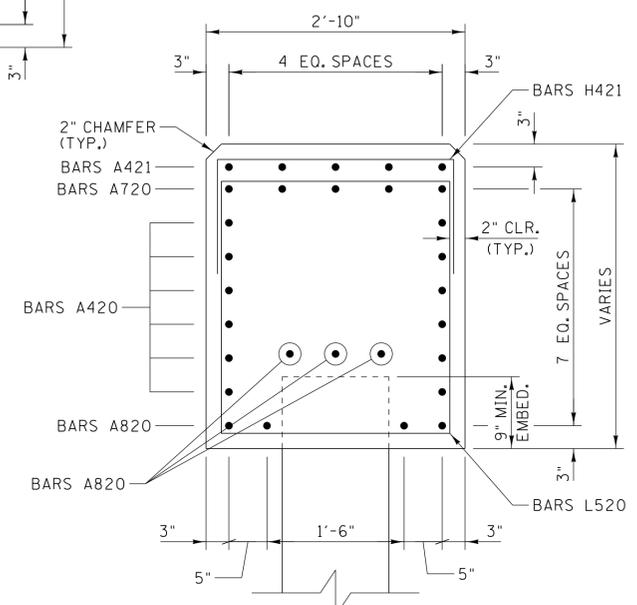


SECTION A-A
SCALE: 1" = 1'-0"

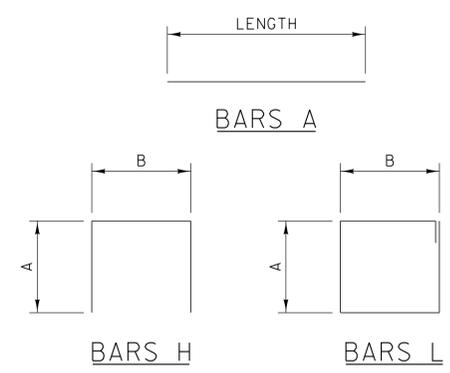
| BENT CAP REPLACEMENT | |
|----------------------|-------------|
| LEFT LANE | RIGHT LANE |
| BENT NO. 1 | BENT NO. 1 |
| BENT NO. 2 | BENT NO. 2 |
| BENT NO. 3 | BENT NO. 3 |
| BENT NO. 5 | BENT NO. 4 |
| BENT NO. 6 | BENT NO. 5 |
| BENT NO. 7 | BENT NO. 6 |
| BENT NO. 8 | BENT NO. 7 |
| BENT NO. 9 | BENT NO. 11 |
| BENT NO. 11 | - |
| BENT NO. 13 | - |
| BENT NO. 21 | - |

| BILL OF STEEL | | | | | | | |
|----------------------------------|------|-----------|--------------------|-------|---|---|---------|
| BENT CAP REINFORCEMENT, 19 REQ'D | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A420 | 4 | 12 | | | | | 28'-2" |
| A421 | 4 | 5 | | | | | 13'-11" |
| A720 | 7 | 5 | | | | | 28'-2" |
| A820 | 8 | 7 | | | | | 28'-2" |
| H420 | 4 | 12 | 2'-9" | 2'-6" | | | 8'-0" |
| H421 | 4 | 21 | 1'-3" | 2'-7" | | | 5'-1" |
| L520 | 5 | 31 | 2'-9" | 2'-6" | | | 11'-5" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
"NO. REQ'D" SHOWN FOR ONE (1) BENT LOCATION, BENT CAP REINFORCEMENT REQUIRED AT NINETEEN (19) BENT LOCATIONS.



SECTION B-B
SCALE: 1" = 1'-0"



NOTES:
ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
COST OF FORMING AND POURING HIGH EARLY STRENGTH CONCRETE FOR THE NEW BENT CAPS SHALL BE PAID FOR UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F. SEE DWG. NOS. BR-116-175 THRU BR-116-176 AND BR-116-180 THRU BR-116-181 FOR LOCATIONS.
COSTS OF ALL REINFORCING STEEL SHALL BE INCLUDED UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), L.B.
COST OF REMOVING EXISTING BENT CAP AT DESIGNATED LOCATIONS SHOWN ON DWG. NOS. BR-116-175 AND BR-116-176 TO BE INCLUDED UNDER ITEM NO. 604-10.13, CONCRETE SLAB REMOVAL, L.S.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

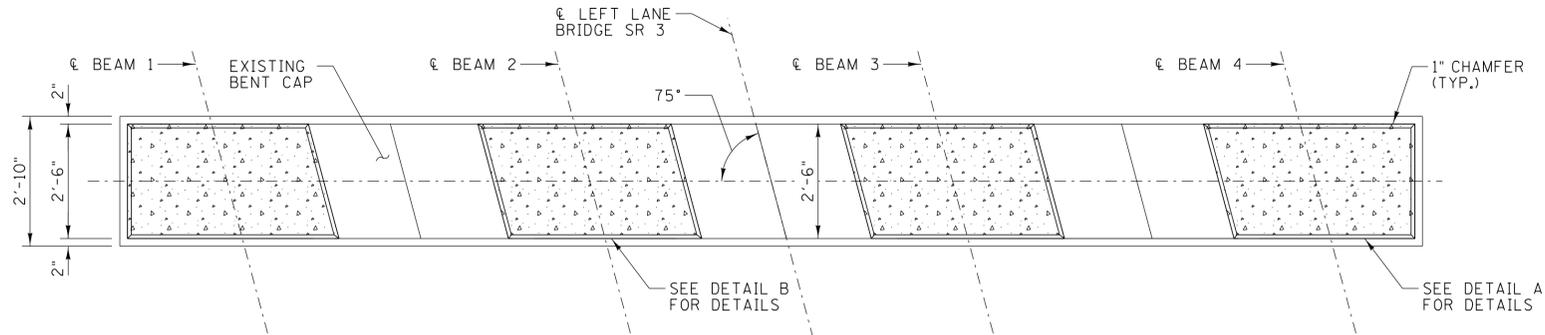
JLH:hb-rook 9/14/2015 12:27:07 PM
WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-189.dgn



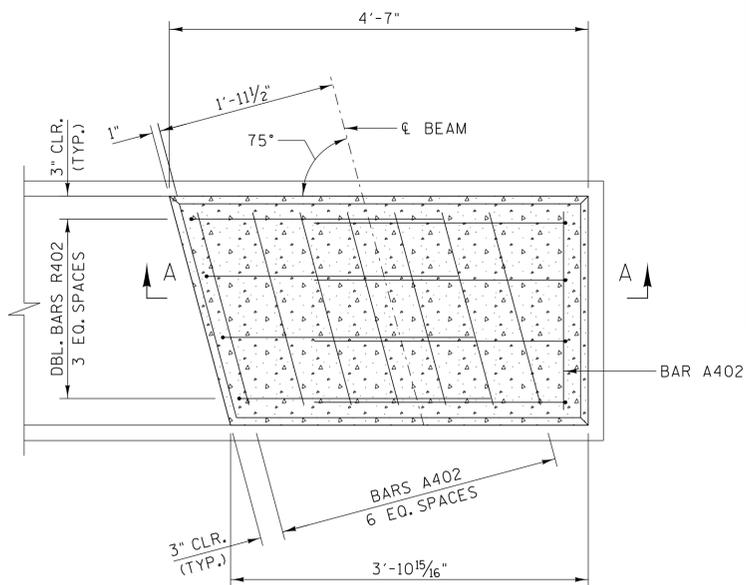
DESIGNED BY J. L. HALBROOK DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

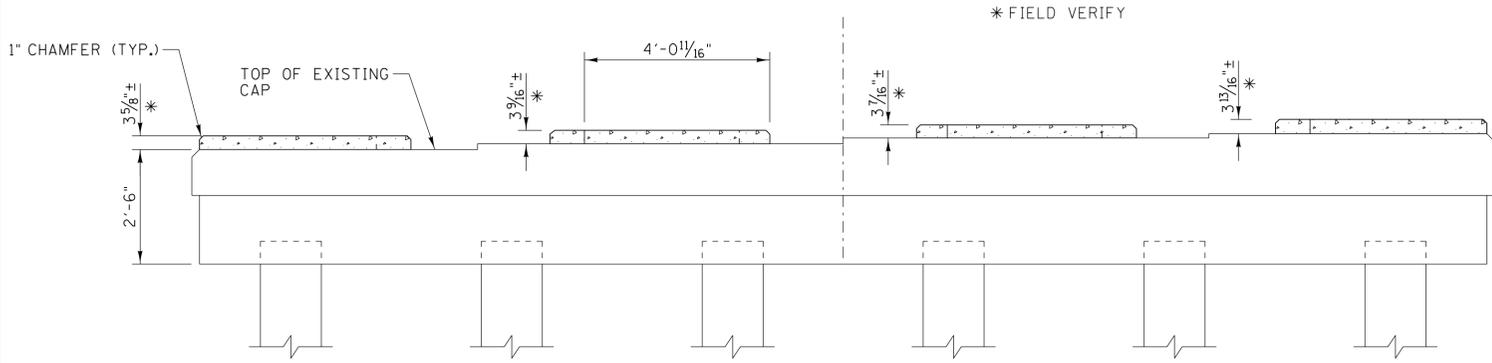
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



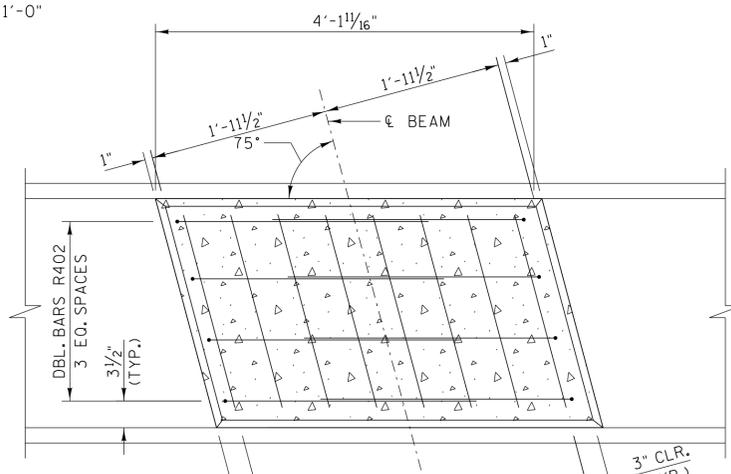
PLAN
(LOOKING FORWARD AT LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR)
SCALE: 1/2" = 1'-0"



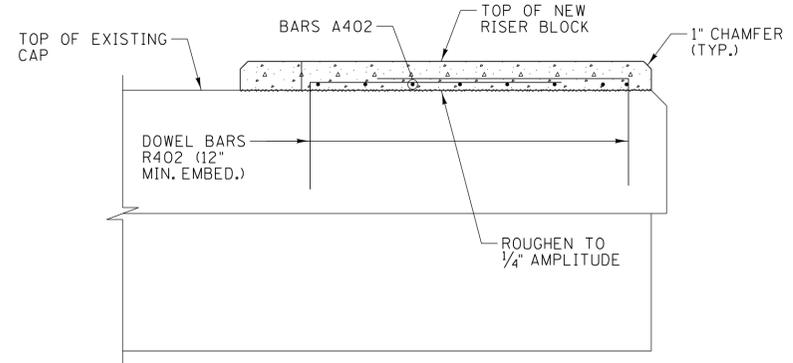
DETAIL A
SCALE: 1" = 1'-0"



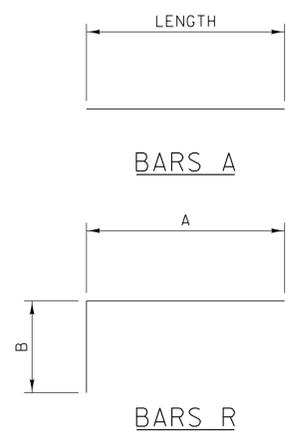
ELEVATION
(LOOKING AT LEFT LANE BRIDGE,
RIGHT LANE BRIDGE SIMILAR)
SCALE: 1/2" = 1'-0"



DETAIL B
SCALE: 1" = 1'-0"



SECTION A-A
SCALE: 1" = 1'-0"



| BILL OF STEEL | | | | | | | |
|--|------|-----------|--------------------|-------|---|---|--------|
| RISER BLOCK REINFORCEMENT AT ONE (1) BENT LOCATION, 31 REQ'D | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A402 | 4 | 20 | | | | | 2'-3" |
| R402 | 4 | 32 | 2'-2" | 1'-2" | | | 3'-4" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
"NO. REQ'D" SHOWN FOR ONE (1) BENT LOCATION, RISER BLOCKS REQUIRED AT 31 BENT LOCATIONS. SEE DWG. NO. BR-116-179 FOR LOCATIONS.

NOTES:
COST OF ALL LABOR AND MATERIAL NECESSARY TO FORM AND POUR THE NEW RISER BLOCKS USING HIGH EARLY STRENGTH CONCRETE TO BE INCLUDED UNDER ITEM NO. 604-10.42, CONCRETE REPAIRS, C.F.
COST OF REINFORCING STEEL SHALL BE PAID FOR UNDER ITEM NO. 604-10.18, REINFORCING STEEL (REPAIRS), LB.
NO LOADING, DEAD OR LIVE WILL BE PERMITTED ON THE NEW RISER BLOCK UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.

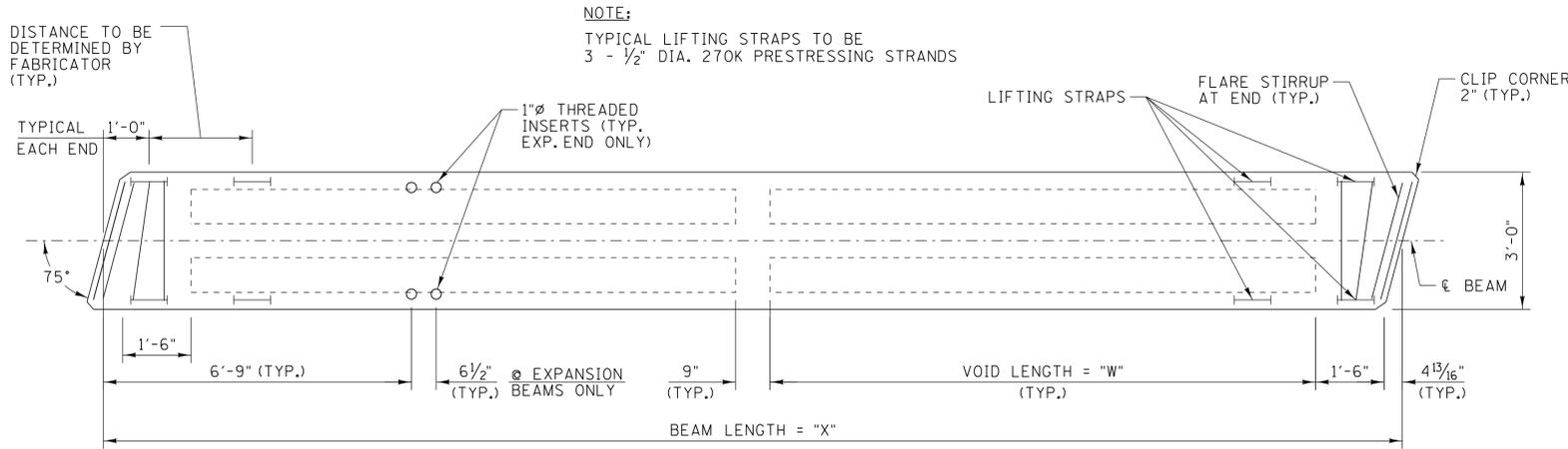
UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L
DYER COUNTY
2016

JLH:br-116-190.dgn
9/14/2015 12:27:08 PM
WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-190.dgn

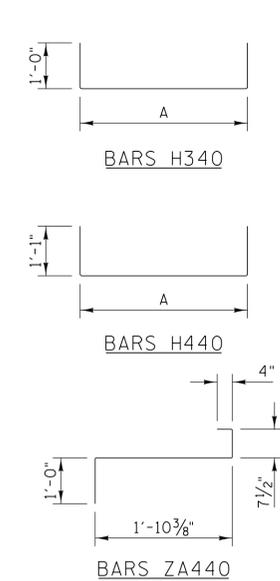
GARVER
DESIGNED BY J. L. HALBROOK DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON



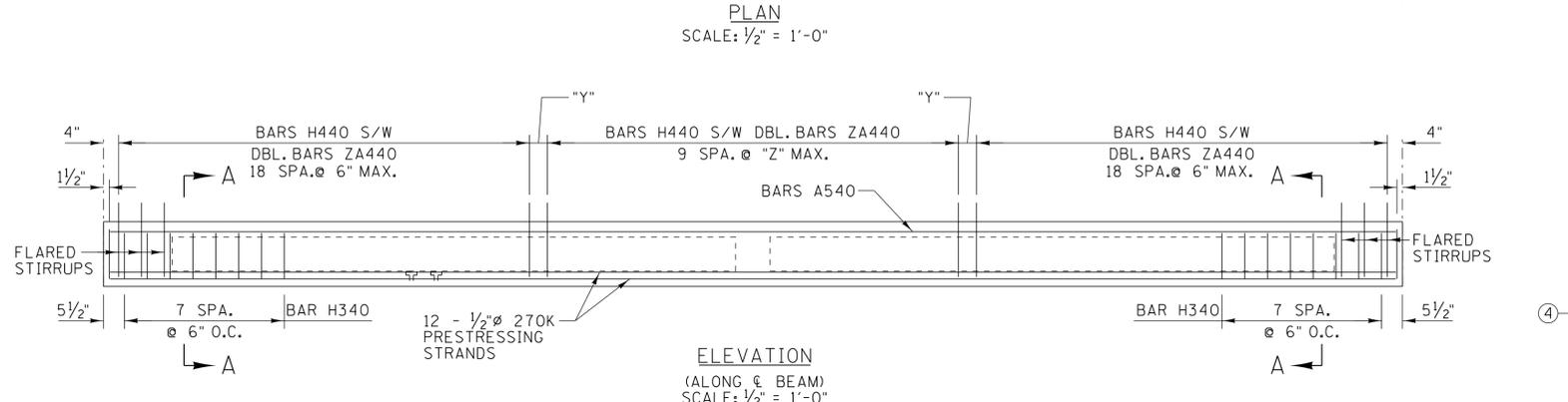
| BILL OF STEEL | | | | |
|---------------|------|-----------|-----------|-----------|
| BAR | SIZE | NO. REQ'D | A | LENGTH |
| A540 | 5 | 4 | | 28'-2" |
| A541 | 5 | 6 | | 2'-9" |
| A542 | 5 | 8 | | 1'-1" |
| H340 | 3 | 16 | 2'-9 1/2" | 4'-9 1/2" |
| H440 | 4 | 48 | 2'-7 1/2" | 4'-9 1/2" |
| ZA440 | 4 | 96 | | 3'-9 7/8" |

NOTE:
"NO. REQ'D" IS FOR ONE BEAM. TWO HUNDRED (200) BEAMS REQ'D.
ALL DIMENSIONS ARE OUT-TO-OUT.



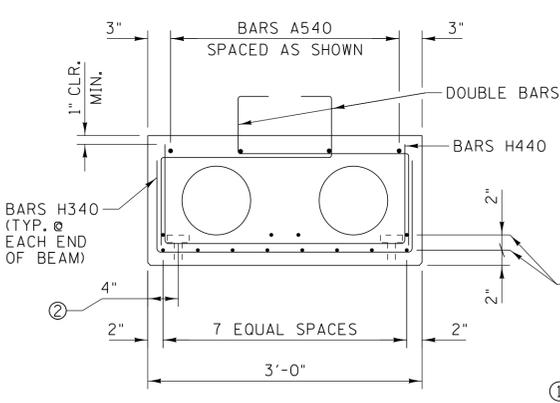
| PROJECT NO. | YEAR | SHEET NO. |
|---------------|------|-----------|
| 23002-4232-04 | 2016 | |

| REVISIONS | | | |
|-----------|------|----|-------------------|
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

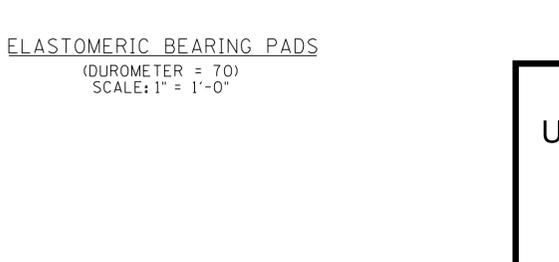
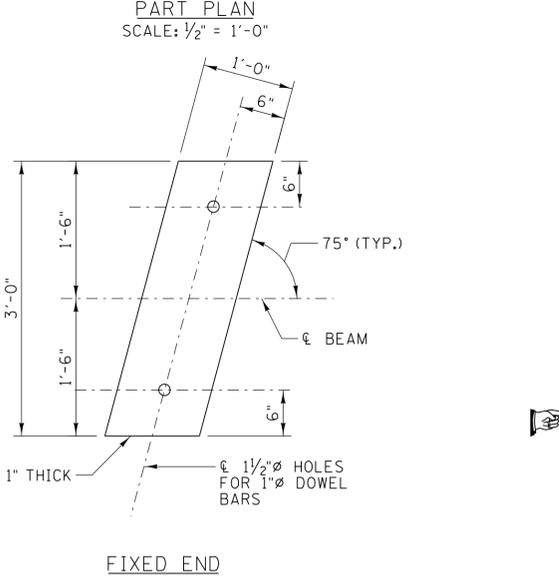
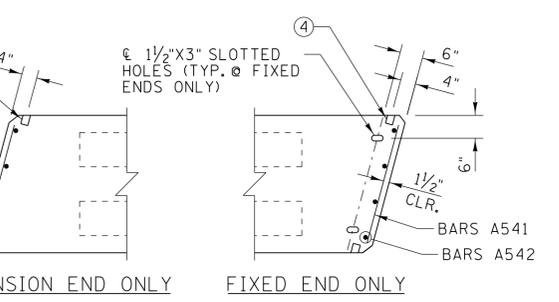
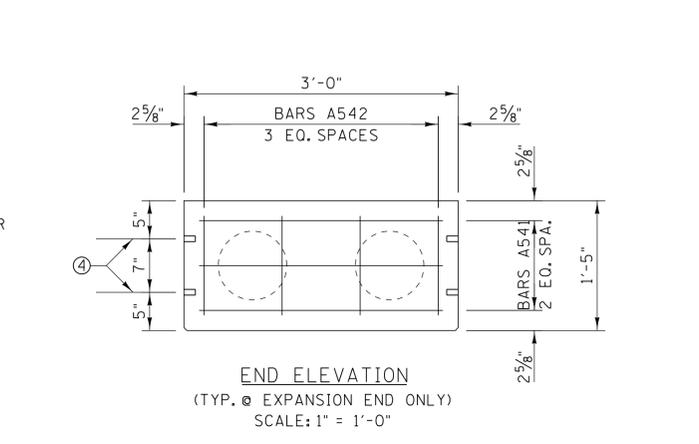
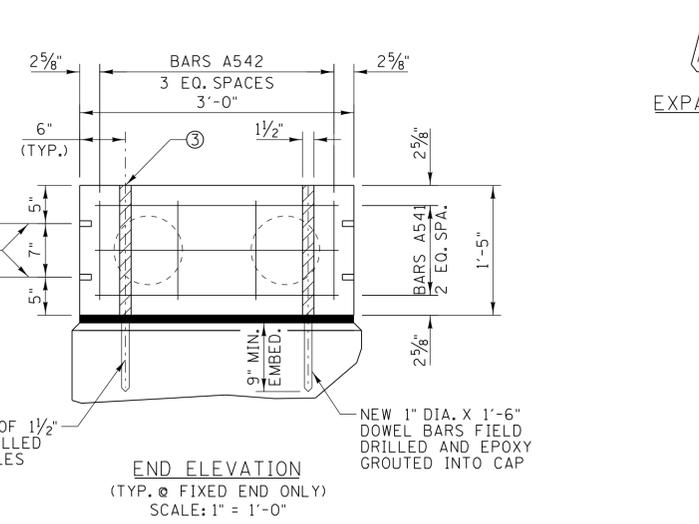
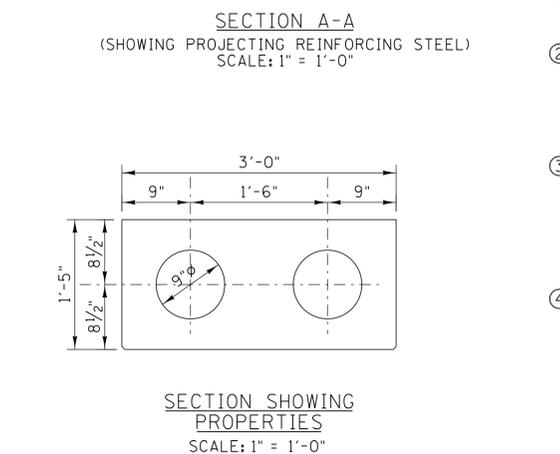


* FIELD VERIFY

| TABLE OF VARIABLES * | | | | |
|----------------------|---------------|------------|----------|---------|
| LOCATION | "W" | "X" | "Y" | "Z" |
| SPAN NOS. 1-5 | 11'-11 1/16" | 28'-5 1/2" | 4 3/4" | 12" |
| SPAN NOS. 9-12 | 11'-11 1/16" | 28'-5 1/2" | 4 3/4" | 12" |
| SPAN NOS. 13-14 | 11'-10 13/16" | 28'-4 1/4" | 4 1/8" | 12" |
| SPAN NOS. 15-27 | 11'-11 1/16" | 28'-5 1/2" | 4 3/4" | 12" |
| SPAN NOS. 28 | 11'-5 7/8" | 27'-6 3/8" | 5 15/16" | 10 1/2" |



- 1/2" Ø ASTM GRADE 270K PRESTRESSING STRANDS (12 STRANDS REQUIRED)
- 1" THREADED INSERTS 5600" MIN. HOHMAN NO. HJ OR EQUAL. CAST IN PLACE, 8 PER BEAM (ADJUST LOCATION TO AVOID STIRRUPS)
- € OF 1 1/2" SLOTTED HOLES FOR 1" DOWEL BARS. GROUTED BARS TO BE 1'-6" LONG. (9" EMBEDMENT AND 9" PROJECTION INTO BEAM END.)
- € 5/8" Ø THREADED STEEL INSERTS (CAST IN PLACE) FOR THREADED BARS A543. TYPICAL FOR INTERIOR SIDE OF EXTERIOR BEAMS AT BENTS & ABUT. NO. 2, BOTH SIDES OF INTERIOR BEAMS AT BENTS & ABUT. NO. 2, AND BOTH SIDES OF BEAMS AT ABUTMENT NO. 1 ONLY. INSTALL PARALLEL TO BEAM ENDS (TYP.)



NOTES:
THE TOP OF THE BEAM SHALL BE ROUGH FLOATED. AT APPROXIMATELY THE TIME OF INITIAL SET, THE TOP OF THE BEAM WILL ALSO BE SCRUBBED TRANSVERSELY WITH A COARSE WIRE BRUSH TO REMOVE ALL LAITANCE AND PRODUCE A ROUGH SURFACE.

MILD STEEL REINFORCING SHALL BE ASTM A615 GRADE 60.
ALL PRESTRESSING STRANDS SHALL BE 1/2" DIA. ASTM GRADE 270:7 WIRE UNCOATED LOW RELAXATION PRESTRESSING STRANDS.

THE CONCRETE FOR THIS CONSTRUCTION SHALL BE A OF SUCH PROPERTIES AS TO ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AT THE AGE OF 28 DAYS AND STRESS TRANSFER SHALL NOT BE MADE TO THE BRIDGE MEMBER UNTIL THE TEST SPECIMENS INDICATE THAT THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 4,000 PSI.

AN INITIAL FORCE OF 31,000 LB SHALL BE APPLIED TO EACH STRAND.
PRESTRESSING STRANDS SHALL NOT BE GREATER THAN 1/2" DIAMETER.

COST OF FORMING TWO HUNDRED (200) NEW PRECAST BEAMS, AND ALL THE LABOR AND MATERIAL NECESSARY TO FABRICATE THE NEW BEAMS AS SHOWN ON THIS SHEET, SHALL BE PAID FOR UNDER ITEM NO. 615-02.02, PRESTRESSED CONCRETE BOX BEAM (17" X 36"), L.F.

1" DIAMETER WEEP HOLES SHALL BE PROVIDED AT THE LOW POINT OF EACH CELL. VENT HOLES SHALL BE PROVIDED IN THE TOP OF EACH CELL DURING FABRICATION TO RELIEVE GAS PRESSURES THAT OCCUR DURING CURING. THE VENT HOLES SHALL BE PLUGGED AFTER CURING IS COMPLETED.

THE SEQUENCE FOR TRANSFER OF STRESS OR CUTTING THE STRANDS SHALL BE IN ACCORDANCE WITH ARTICLE 615.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND SHALL BE SHOWN ON THE APPROVED SHOP DRAWINGS. AT NO TIME SHALL MORE THAN 1/6TH OF TOTAL PRESTRESSING FORCE BE ECCENTRIC ABOUT THE CENTERLINE OF THE BEAM.

COST OF REINFORCING STEEL IN THE NEW BEAMS WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT WILL BE INCLUDED IN ITEM NO. 615-02.02, PRESTRESSED CONCRETE BOX BEAM (17" X 36"), L.F.

COST OF ELASTOMERIC PADS SHOWN ON THIS SHEET, RUBBER BONDING CEMENT, AND DOWEL BARS TO BE INCLUDED IN COST OF PRESTRESSED BEAMS.

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

UNOFFICIAL SET
NOT FOR BIDDING

JLH:hb-rook 9/14/2015 12:27:09 PM
WORKSPACE: T001 Brdggs - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-193.dgn

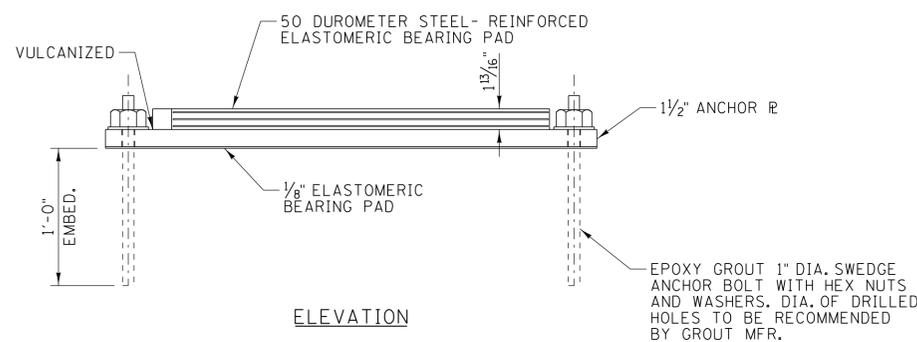
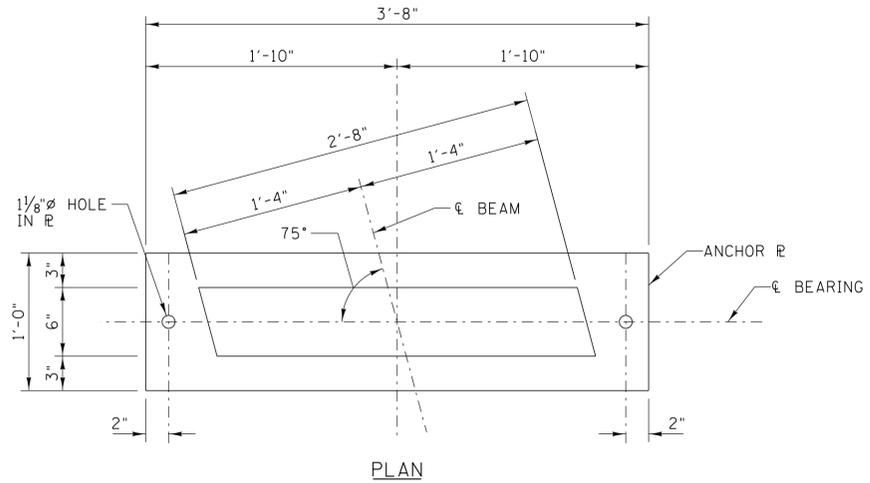
DESIGNED BY J. L. HALBROOK DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

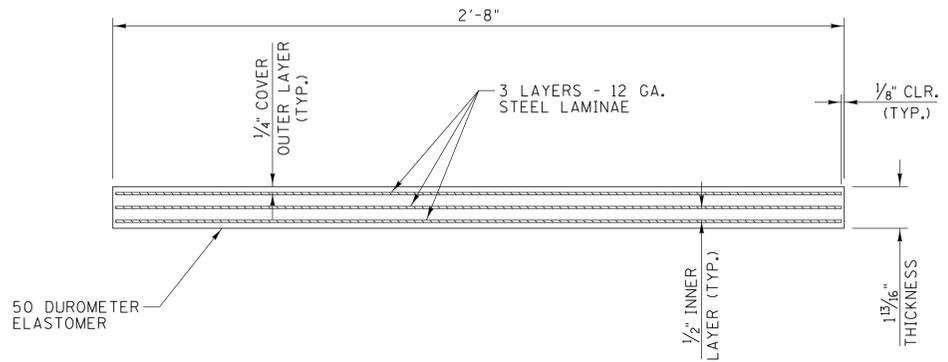
BR-116-193

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOTE:
ALL DIMENSIONS TO BE FIELD VERIFIED
BY CONTRACTOR PRIOR TO FABRICATION.



ELASTOMERIC BEARING PAD ASSEMBLY DETAILS
(TYP. AT EXPANSION LOCATIONS)
SCALE: 1 1/2" = 1'-0"



ELASTOMERIC BEARING PAD
(TYP. AT EXPANSION LOCATIONS)
SCALE: 3" = 1'-0"

NOTES:

THE CONTRACTOR SHALL PLACE RUBBER BONDING CEMENT IN THE AREA BETWEEN THE NEW PRESTRESSED BOX BEAM AND THE NEW ELASTOMERIC BEARING PAD. A LIST OF APPROVED BONDING CEMENTS MAY BE OBTAINED FROM THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS. COSTS OF FURNISHING AND INSTALLING RUBBER CEMENT SHALL BE INCLUDED IN ITEMS BID ON.

COST OF DRILLING, EPOXY GROUT, ANCHOR BOLTS, NEW BEARING DEVICES, AND ANY MISCELLANEOUS MATERIALS OR LABOR NECESSARY FOR INSTALLATION OF NEW BEARING DEVICES SHALL BE PAID FOR UNDER ITEM NO. 602-10.60, BEARING DEVICE, EACH.

STEEL PLATES SHALL BE VULCANIZED TO THE ELASTOMERIC BEARING DEVICES. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE ASTM A36 STEEL. PLATES SHALL BE ASTM A36. ELASTOMERIC BEARING PADS SHALL CONFORM TO SECTION 908.12 OF THE STANDARD SPECIFICATIONS.

ANCHOR PLATE TO BE GIVEN ONE COAT OF INORGANIC ZINC RICH PRIMER.

HOLES FOR SWEDGE ANCHOR BOLTS SHALL BE DRILLED WITH A HIGH SPEED DRILL. THE DRILL BIT SHALL BE CAPABLE OF DRILLING THROUGH REINFORCING BARS AND CONCRETE. THE DRILLED HOLES SHALL BE CLEANED, FILLED WITH EPOXY GROUT AND THE BOLTS DRIVEN TO THEIR SEATS. A LIST OF APPROVED EPOXY GROUTS MAY BE OBTAINED FROM THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TEST.

THE ELASTOMER USED FOR THE FABRICATION OF THE BEARING PADS SHALL BE 50 DUROMETER.

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATING.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

UNOFFICIAL
SET
NOT FOR
BIDDING

JLHdb-rook 9/14/2015 12:27:09 PM
WORKSPACE: T:\01 Bridge - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-194.dgn

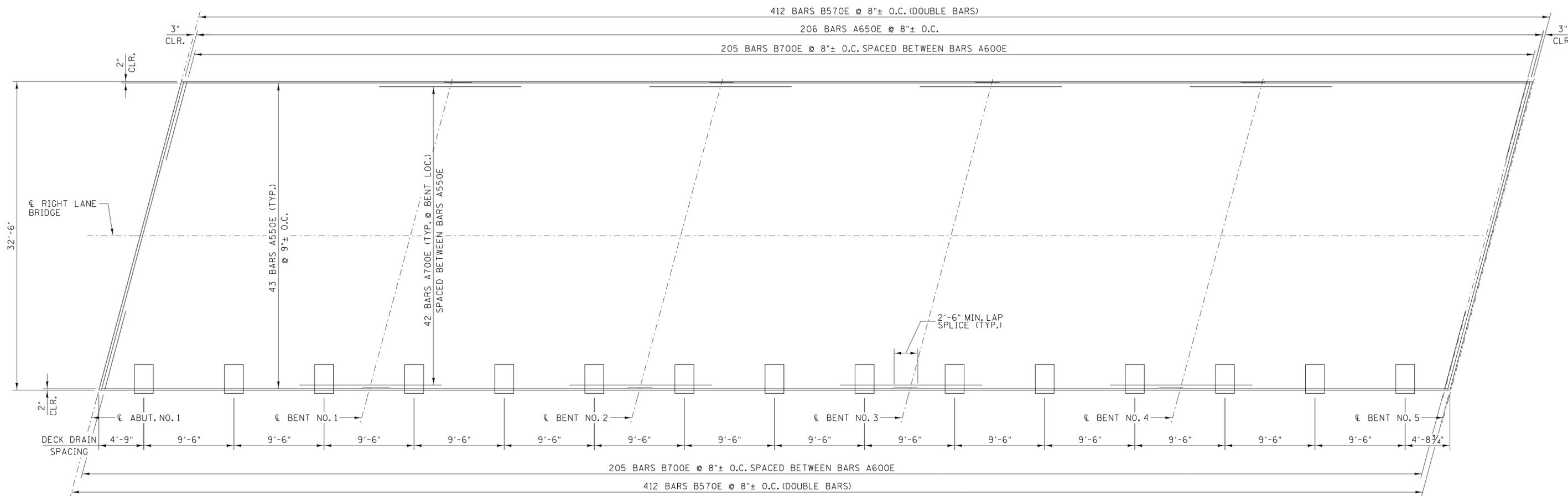


DESIGNED BY L. I. COBOS DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

BR-116-194

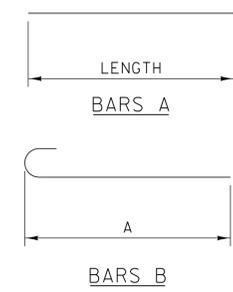
| | | | |
|---------------|------|-----------|-------------------|
| PROJECT NO. | YEAR | SHEET NO. | |
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SLAB PLAN
 (TOP MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 1-5,
 SPAN NOS. 9-13 AND LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

| BILL OF STEEL | | | | | | | |
|--|------|-----------|--------------------|---|---|---|--------|
| TOP SLAB REINFORCEMENT (SPAN NOS. 1-5) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 215 | | | | | 31'-0" |
| A650E | 6 | 206 | | | | | 33'-3" |
| A700E | 7 | 168 | | | | | 15'-0" |
| B570E | 5 | 824 | 2'-1" | | | | 2'-8" |
| B700E | 7 | 410 | 8'-6" | | | | 9'-4" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 5-SPAN UNIT. (FOUR (4) UNITS REQ'D.)



UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

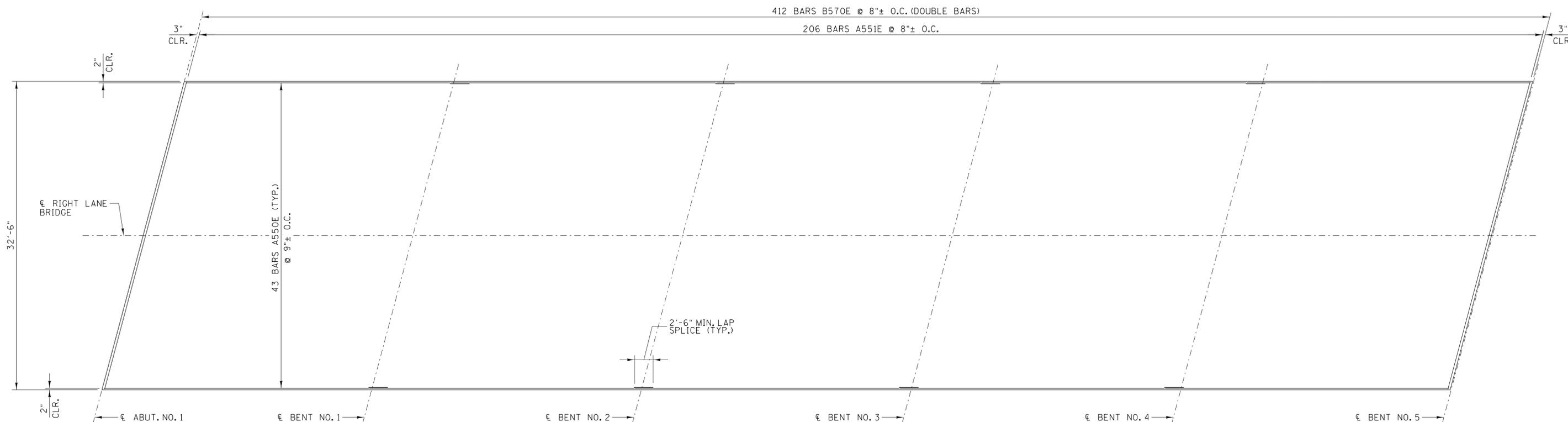
JLHidbrook 9/14/2015 12:27:10 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-195.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SLAB PLAN
 (BOTTOM MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 1-5,
 SPAN NOS. 9-13 AND LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

| BILL OF STEEL | | | | | | | |
|---|------|-----------|--------------------|---|---|---|--------|
| BOTTOM SLAB REINFORCEMENT (SPAN NOS. 1-5) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 215 | | | | | 31'-0" |
| A551E | 5 | 206 | | | | | 33'-3" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 5-SPAN UNIT. (FOUR (4) UNITS REQ'D.)



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
 FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

**UNOFFICIAL
 SET**
 NOT FOR
 BIDDING

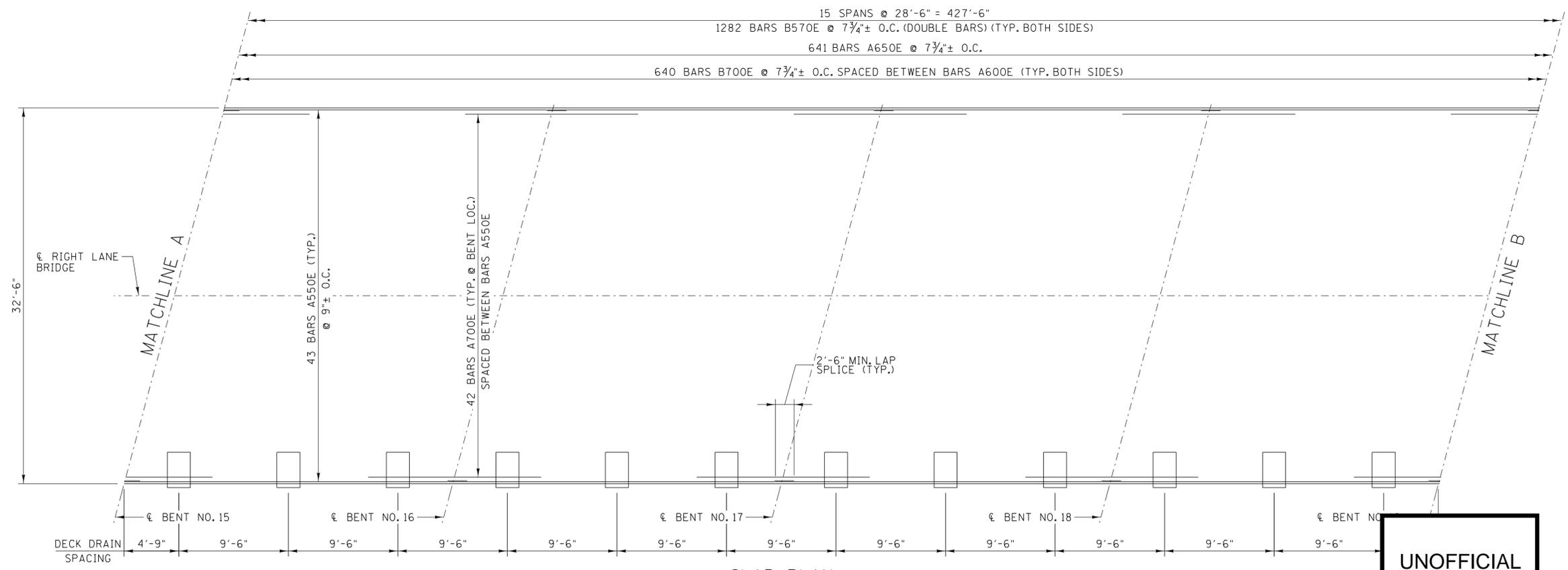
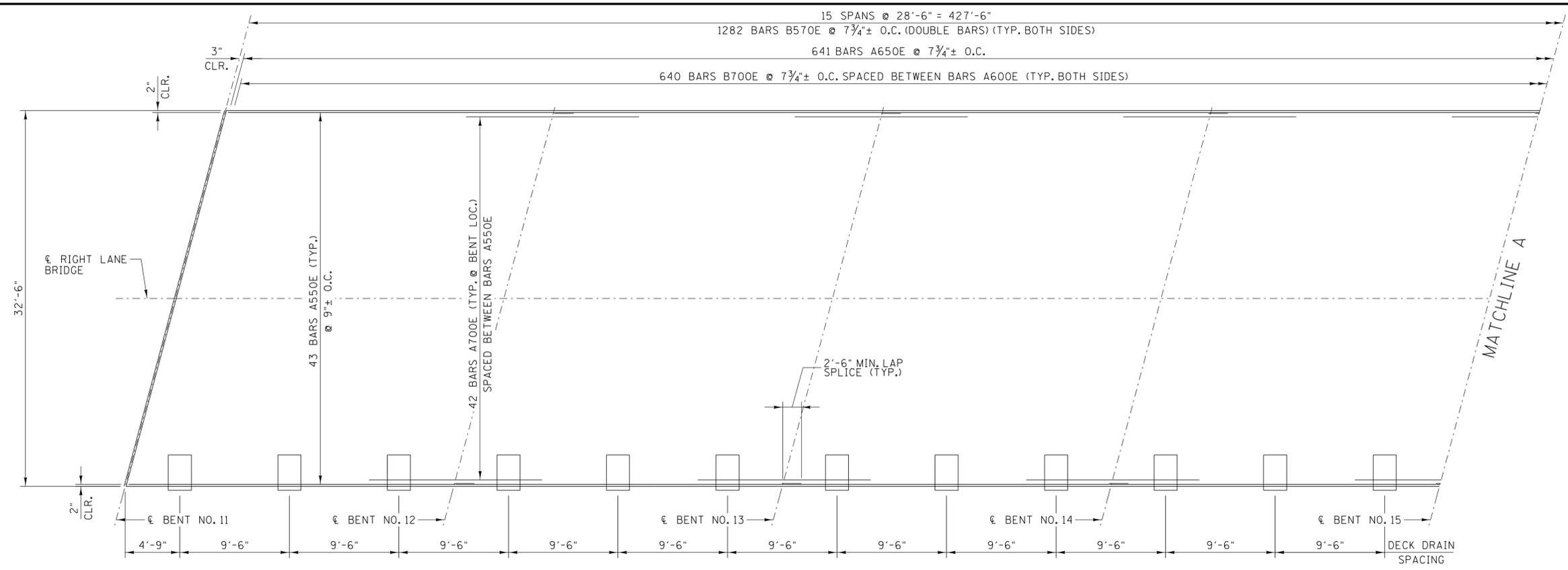
JLHdb-rook 9/14/2015 12:27:10 PM
 WORKSPACE: T:\01 Bridge - TD01 - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-196.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SLAB PLAN
 (TOP MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 14-21,
 LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK
 FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

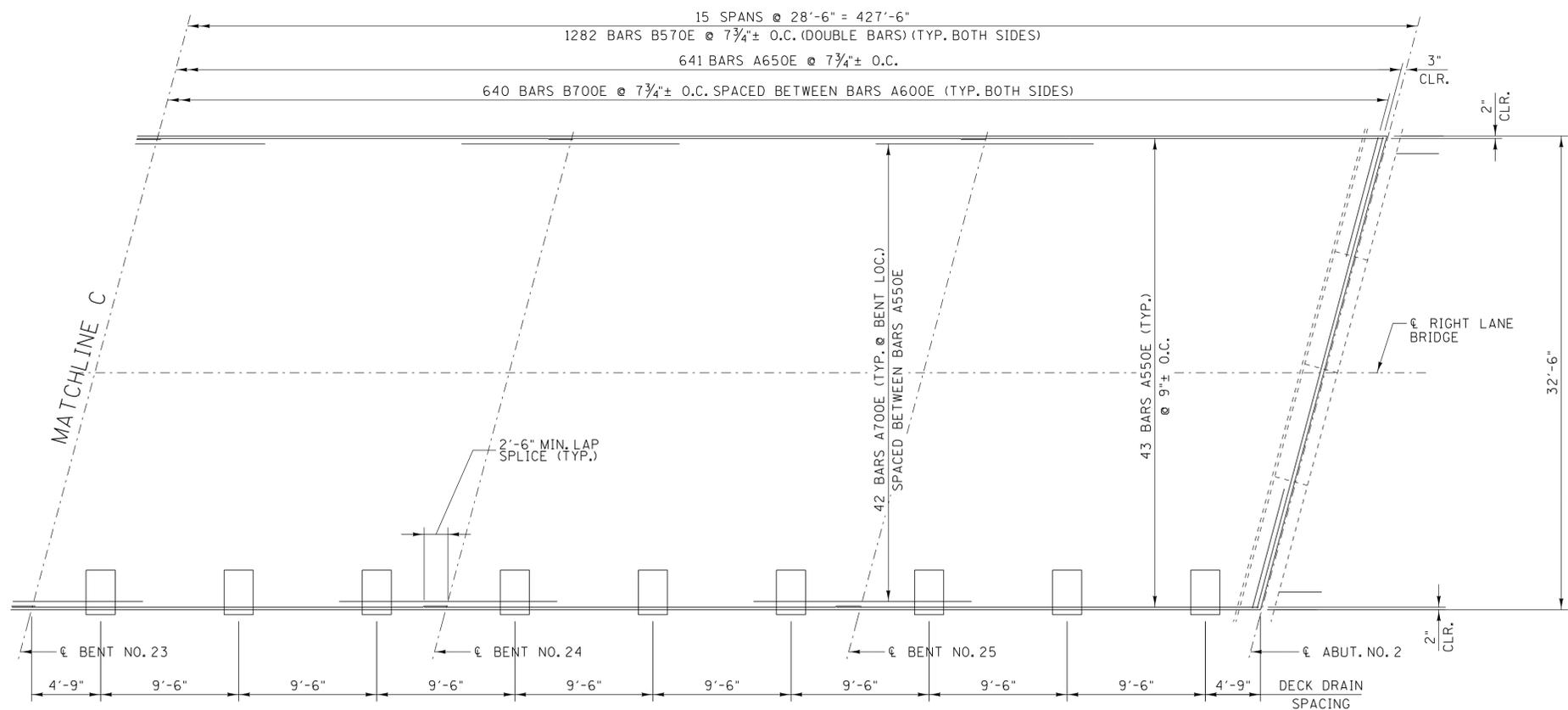
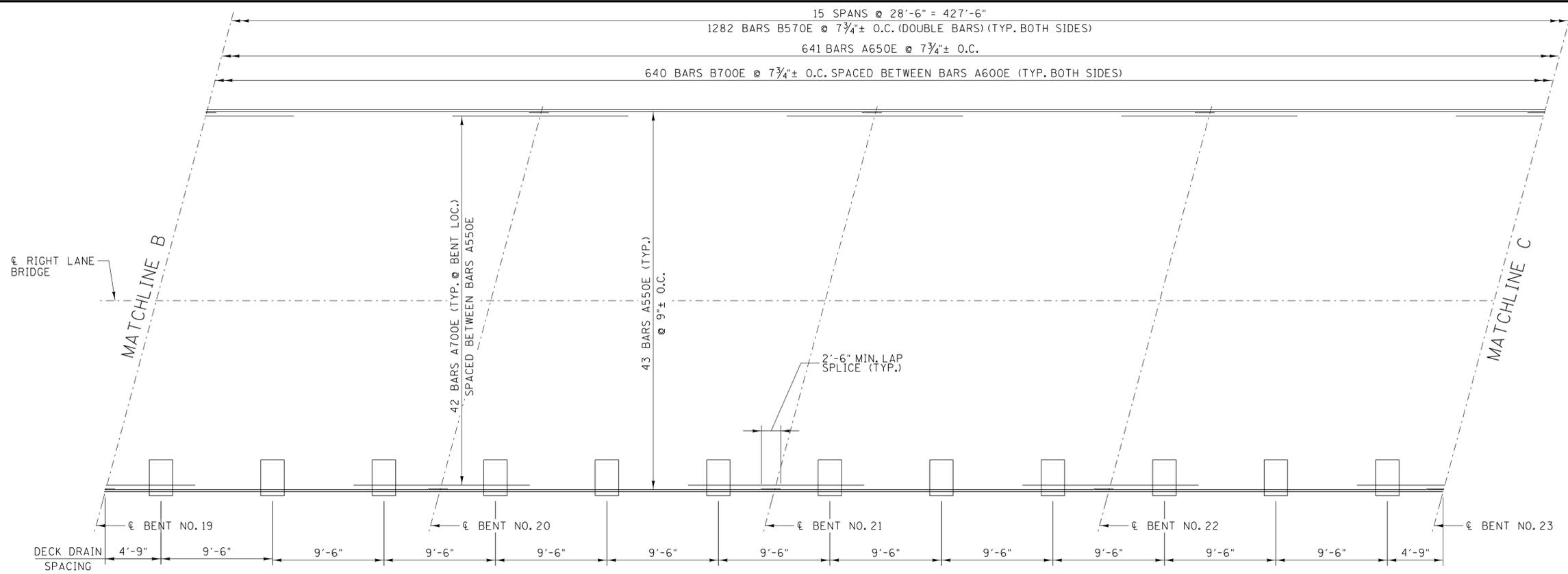
9/14/2015 12:27:10 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings\BRC\02 - Final\BR-116-197.dgn
 J:\hibbrook



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

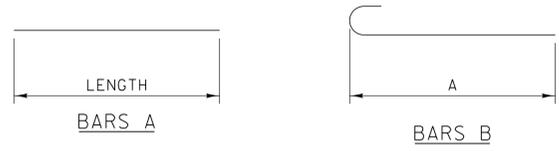
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| BILL OF STEEL | | | | | | | |
|--|------|-----------|--------------------|---|---|---|--------|
| TOP SLAB REINFORCEMENT (SPAN NOS. 14-28) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 645 | | | | | 31'-0" |
| A650E | 5 | 641 | | | | | 33'-3" |
| A700E | 5 | 588 | | | | | 15'-0" |
| B570E | 5 | 2564 | 2'-1" | | | | 2'-8" |
| B700E | 5 | 1280 | 8'-6" | | | | 9'-4" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 15-SPAN UNIT, TWO (2) UNITS REQ'D.



SLAB PLAN
 (TOP MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 22-28, LEFT LANE SIMILAR)
 SCALE: 1/16" = 1'-0"

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

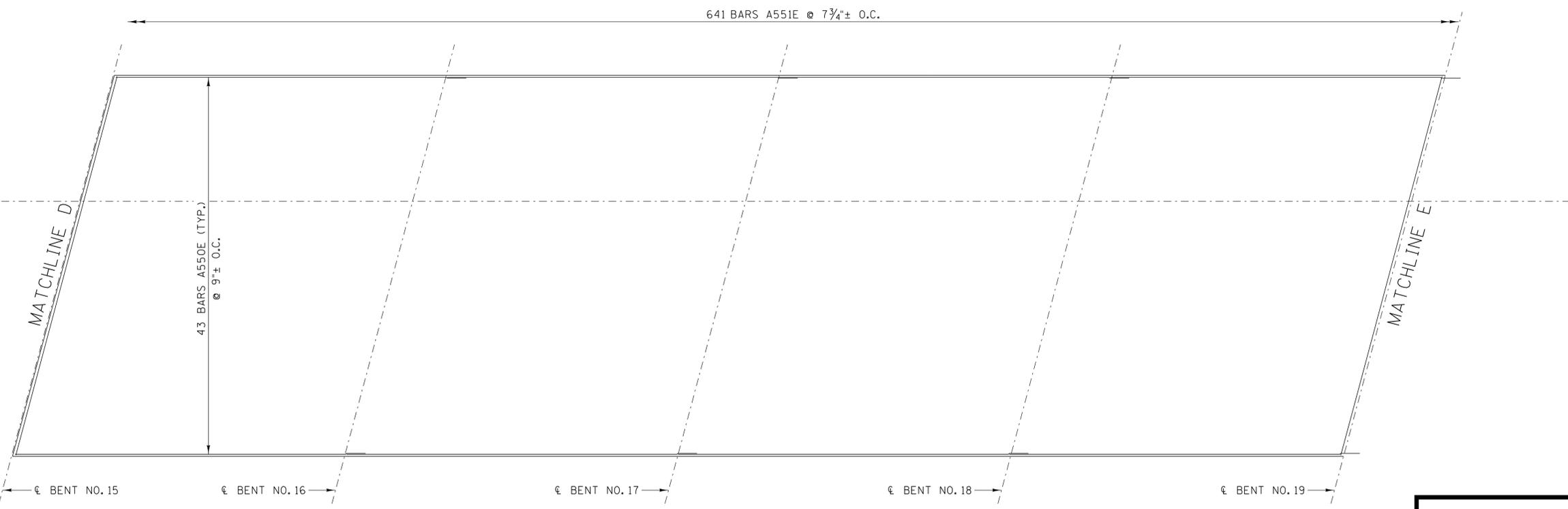
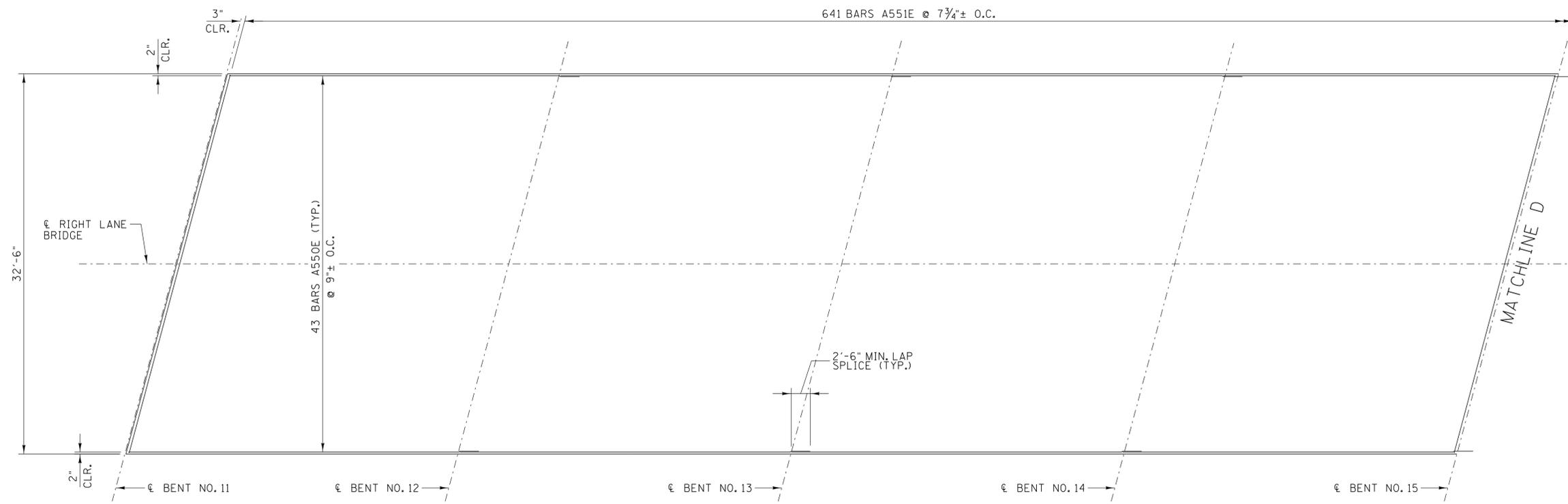
9/14/2015 12:27:11PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-198.dgn
 J:\hdbr-ook 9/14/2015 12:27:11PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-198.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



SLAB PLAN
 (BOTTOM MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 14-21,
 LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK
 FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

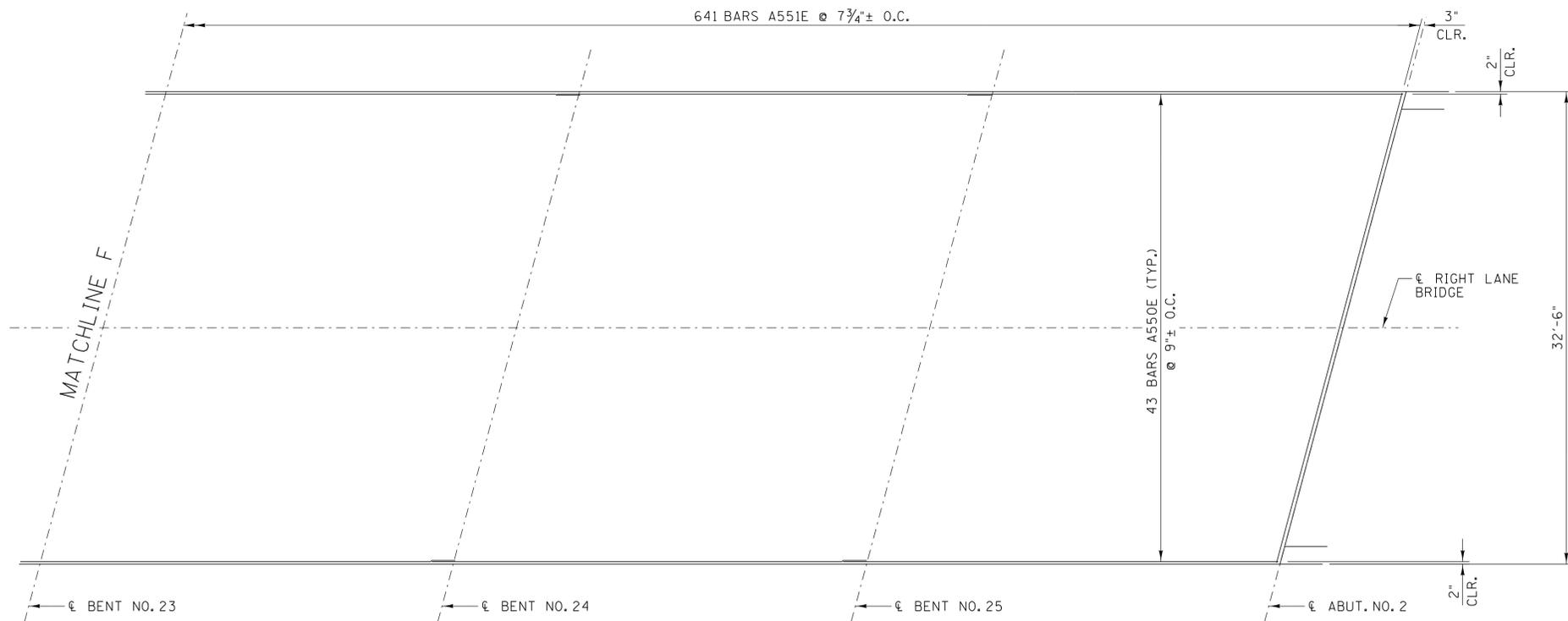
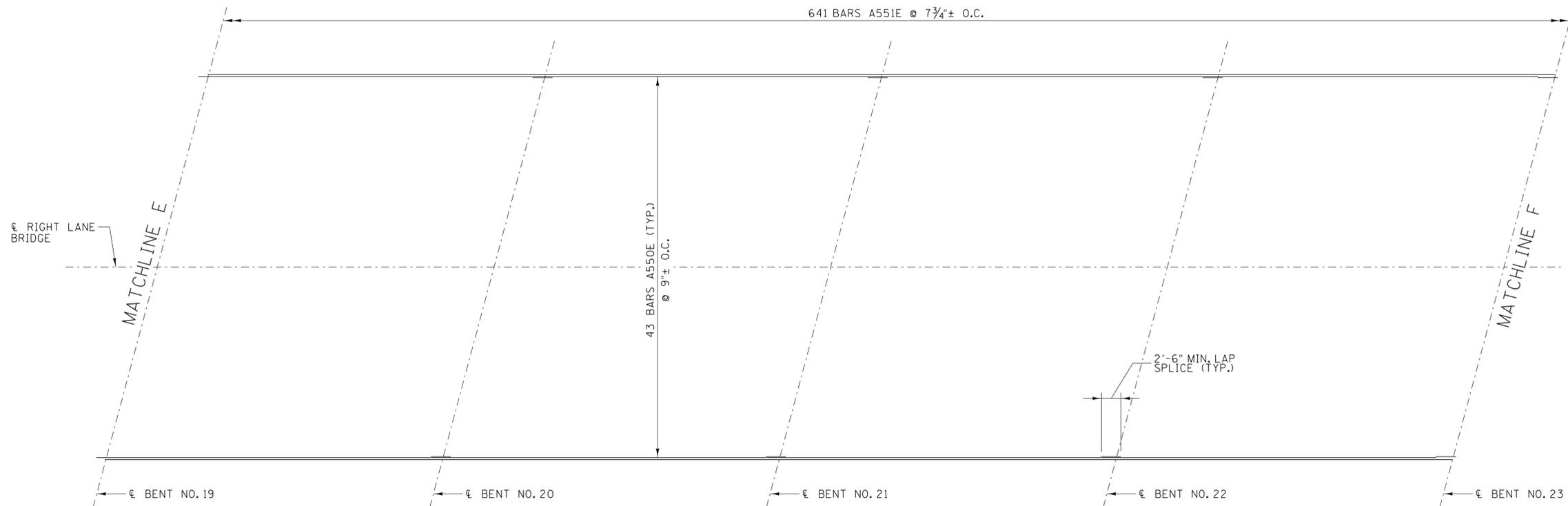
9/14/2015 12:27:11PM
 J:\hdhbrook\WORKSPACE\T001 Bridge\BRIDGE\Drawings\BRC\02 - Final\BR-116-199.dgn
 J:\hdhbrook\WORKSPACE\T001 Bridge\BRIDGE\Drawings\BRC\02 - Final\BR-116-199.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| BILL OF STEEL | | | | | | | |
|---|------|-----------|--------------------|---|---|---|--------|
| BOTTOM SLAB REINFORCEMENT (SPAN NOS. 14-28) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 645 | | | | | 31'-0" |
| A551E | 5 | 641 | | | | | 33'-3" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 15-SPAN UNIT. (TWO (2) UNITS REQ'D.)



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

UNOFFICIAL SET
 NOT FOR BIDDING

SLAB PLAN
 (BOTTOM MAT OF REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 22-28, LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

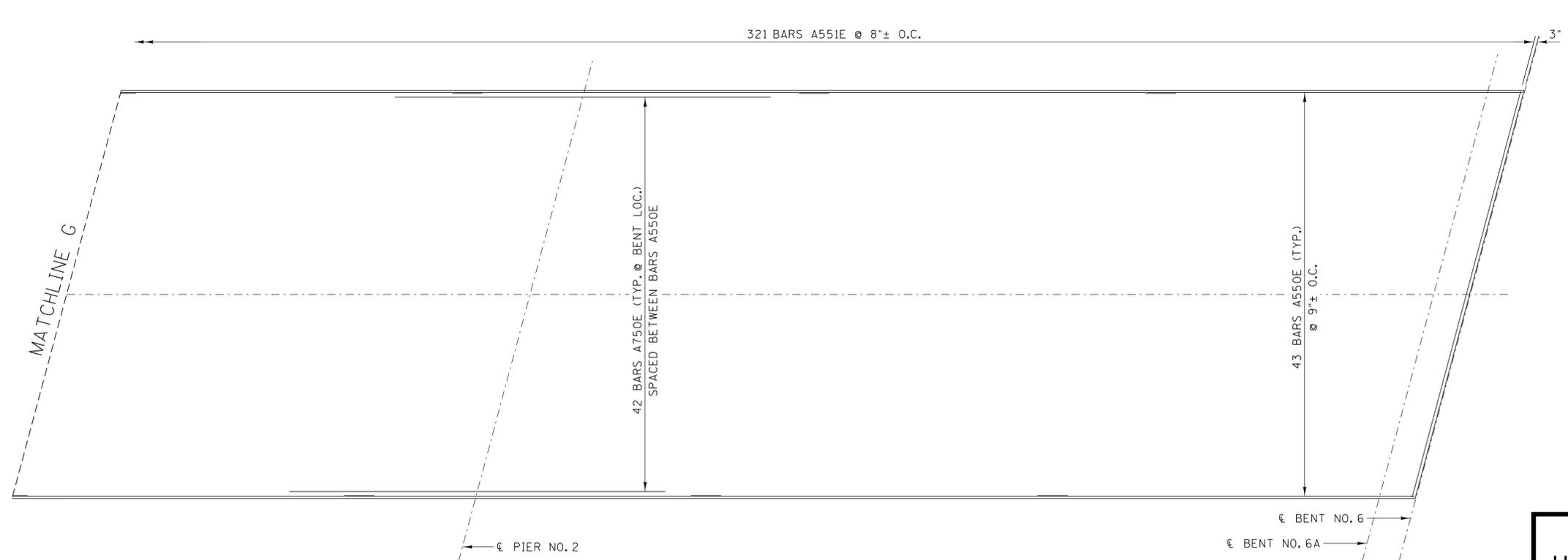
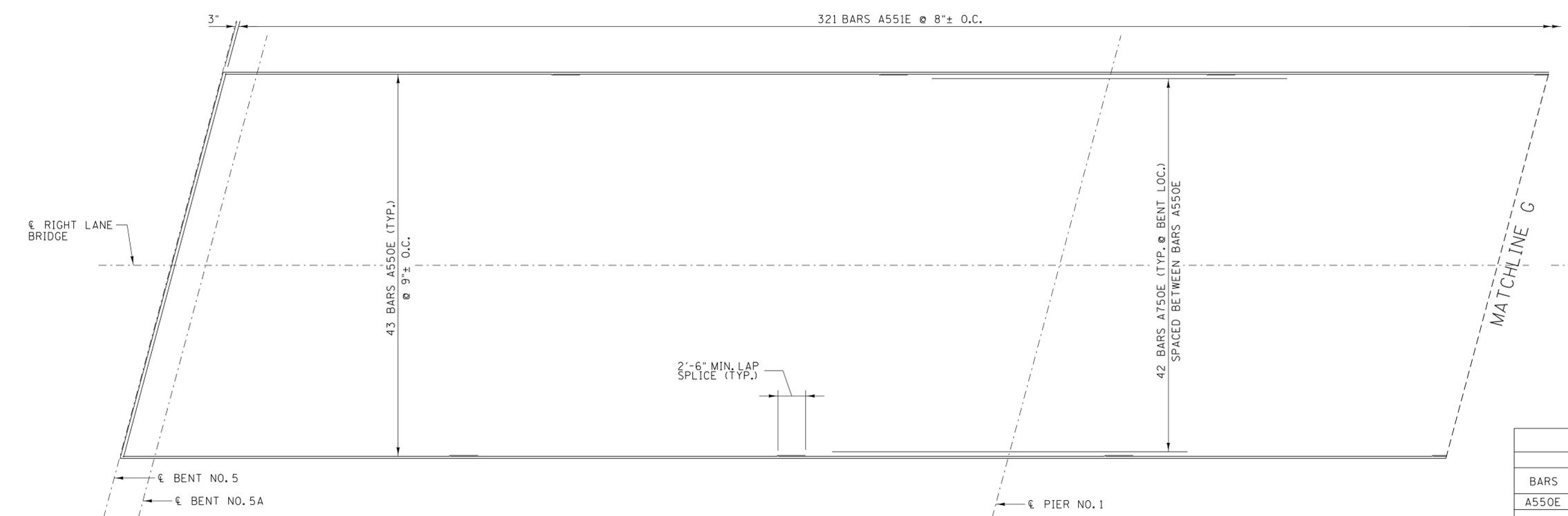
JLHdb-rook 9/14/2015 12:27:11PM
 WORKSPACE: T:\01 Bridge - Bridge Repair - Dyer County\Drawings\BRC\02 - Final\BR-116-200.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

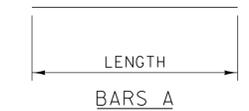
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| BILL OF STEEL | | | | | | | |
|---|------|-----------|--------------------|---|---|---|--------|
| TOP OVERLAY REINFORCEMENT (SPAN NOS. 6-8) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 344 | | | | | 31'-0" |
| A551E | 5 | 321 | | | | | 33'-3" |
| A750E | 7 | 84 | | | | | 30'-0" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 3-SPAN UNIT. (TWO UNITS REQ'D.)



SLAB PLAN
 (TOP MAT OF OVERLAY REINFORCING STEEL SHOWN FOR RIGHT LANE @ SPANS 6-8, LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

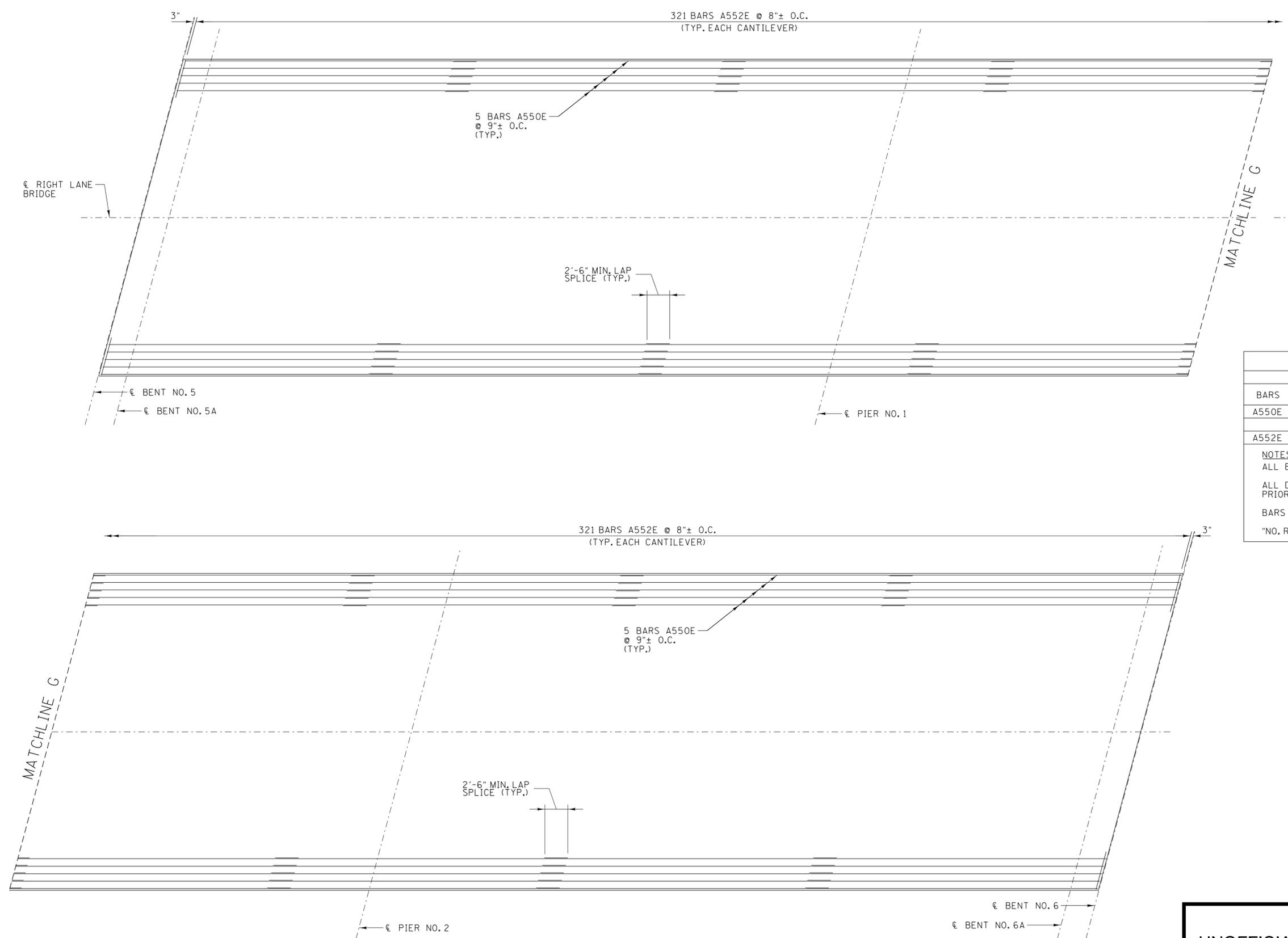
JLHdb-rook 9/14/2015 12:27:12 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-201.dgn



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

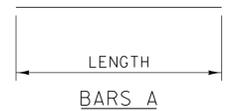
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



| BILL OF STEEL | | | | | | | |
|--|------|-----------|--------------------|---|---|---|--------|
| BOTTOM OVERLAY REINFORCEMENT (SPAN NOS. 6-8) | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A550E | 5 | 80 | | | | | 31'-0" |
| A552E | 5 | 642 | | | | | 4'-1" |

NOTES:
 ALL BAR DIMENSIONS ARE OUT-TO-OUT.
 ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
 BARS ENDING IN "E" TO BE EPOXY COATED.
 "NO. REQ'D." SHOWN IS FOR ONE (1) 3-SPAN UNIT. (TWO UNITS REQ'D.)



SLAB PLAN
 (BOTTOM MAT OF OVERLAY REINFORCING STEEL SHOWN FOR RIGHT LANE
 @ SPANS 6-8, LEFT LANE SIMILAR)
 SCALE: 3/16" = 1'-0"

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

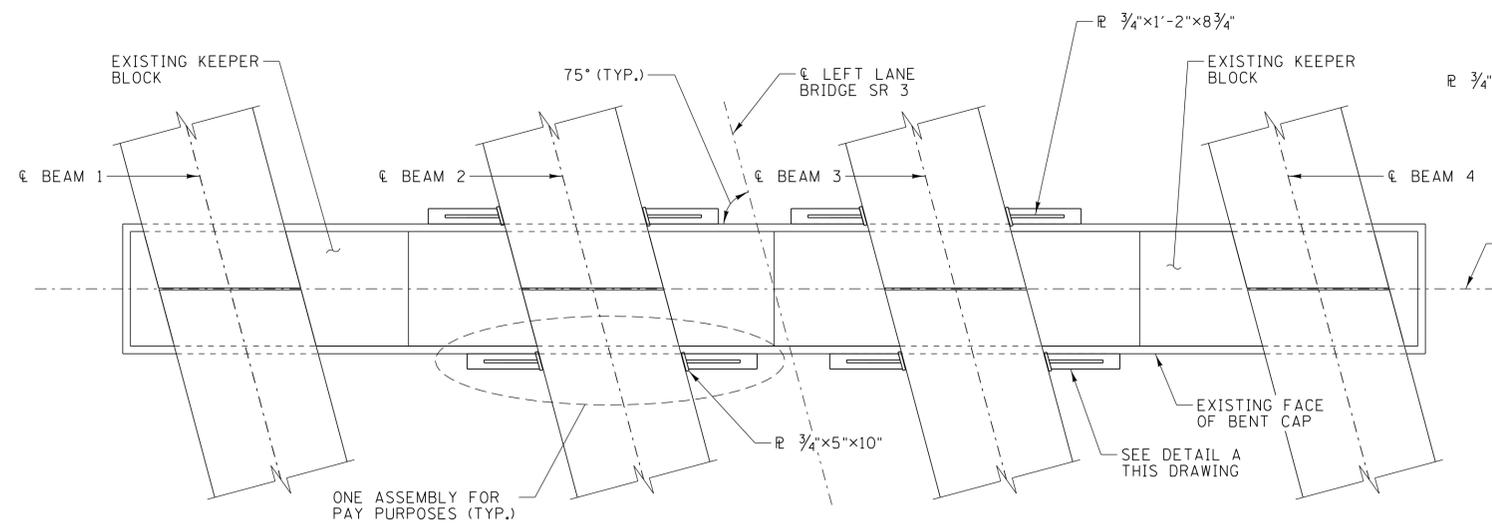
DYER COUNTY
 2016

9/14/2015 12:27:12 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-201A.dgn
 J:\hdbrook

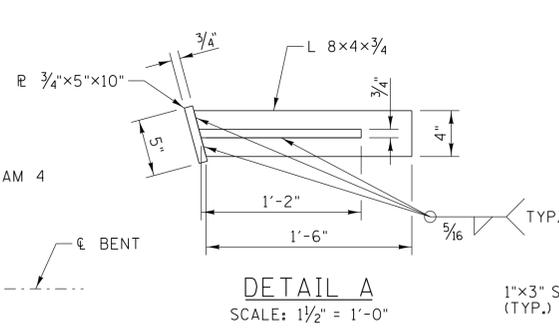

 DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

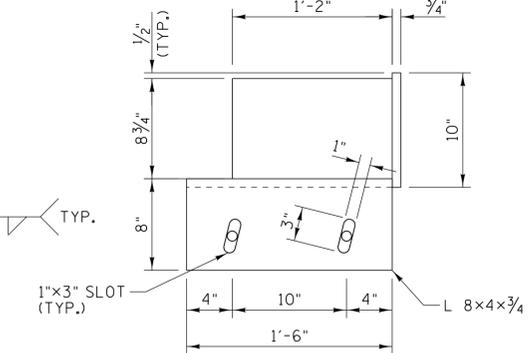
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



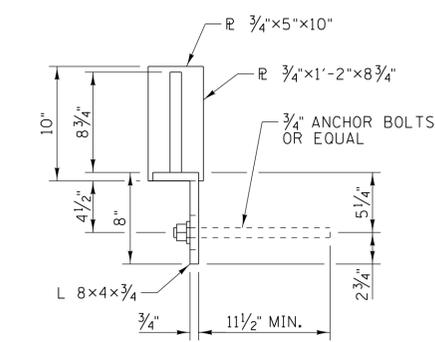
PLAN VIEW SHOWING LATERAL SEISMIC RESTRAINTS AT NEW BENT
 (LOOKING FORWARD LEFT LANE BRIDGE, RIGHT LANE BRIDGE SIMILAR)
 SCALE: 1/2" = 1'-0"



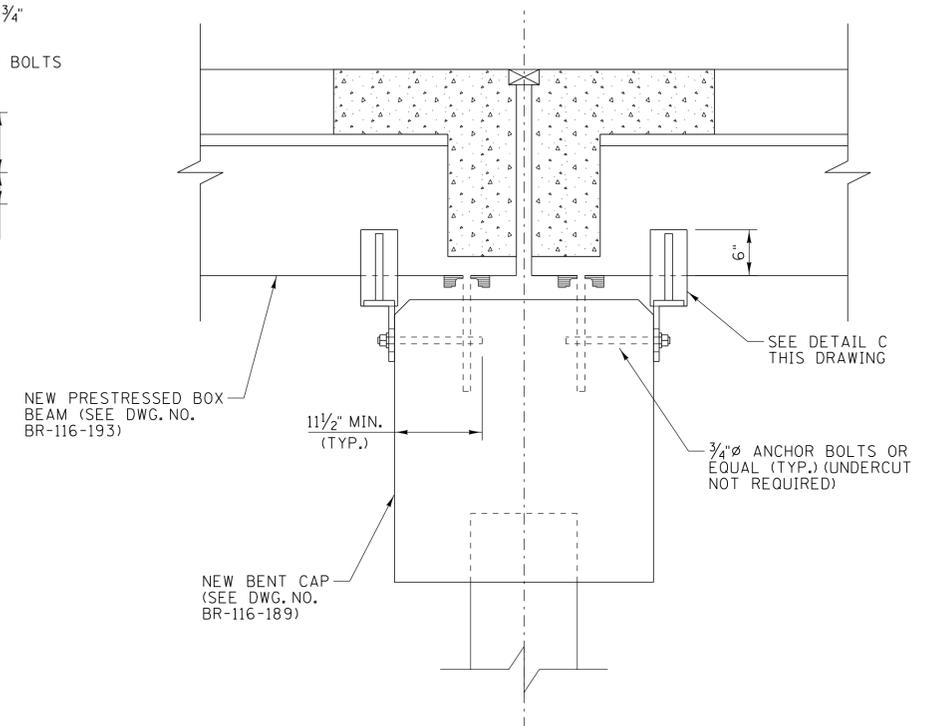
DETAIL A
 SCALE: 1/2" = 1'-0"



DETAIL B
 SCALE: 1/2" = 1'-0"

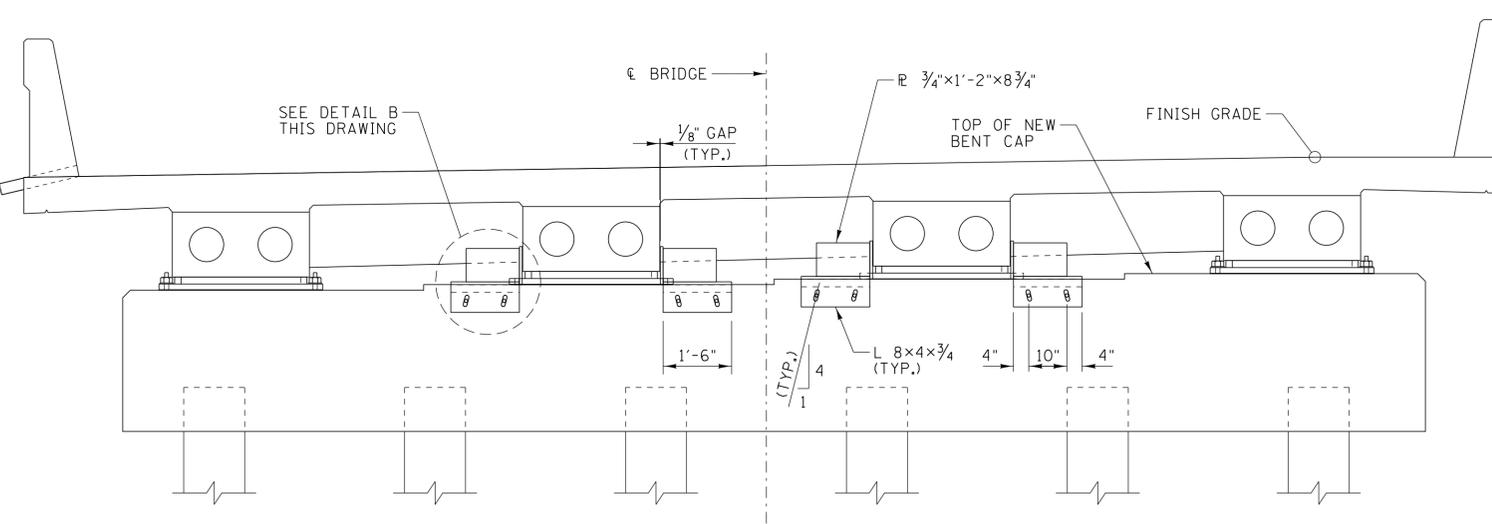


DETAIL C
 SCALE: 1/2" = 1'-0"



LATERAL SEISMIC RESTRAINTS
 SCALE: 1" = 1'-0"

* ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



TYPICAL SECTION AT NEW BENT
 ** (LOOKING FORWARD @ LEFT LANE EXPANSION JOINT LOCATION, ABUTMENT NO. 2 @ RIGHT LANE BRIDGE SIMILAR)
 SCALE: 1/2" = 1'-0"

** SEISMIC RESTRAINTS AT EXISTING BENT NOS. 5 & 6 (L&R) ARE SIMILAR. AT BENT NOS. 5 & 6 (L&R), PROVIDE SEISMIC RESTRAINTS AT BOTH SIDES OF BEAM AT INTERIOR BEAM AND INTERIOR FACE OF EXTERIOR BEAMS.

NOTES:
 PROVIDE LATERAL SEISMIC RESTRAINT ASSEMBLIES FOR BRIDGE NO. 23-SR3-0.06 R & L AS DESIGNATED ON DWG. NOS. BR-116-175 AND BR-116-176.
 FOR PROCEDURES REGARDING THE INSTALLATION OF DRILLCO MAXI-BOLTS OR EQUAL, SEE MANUFACTURER'S WRITTEN INSTRUCTIONS, DWG. NO. BR-116-203.
 ALL STRUCTURAL STEEL PLATE AND SHAPES SHALL MEET ASTM A36. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
 THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF EACH LATERAL SEISMIC RESTRAINT ASSEMBLY AS SHOWN ON DETAILS THIS DWG., IS TO BE INCLUDED IN THE PRICE BID FOR ITEM NO. 602-10.50, STRUCTURAL STEEL (REPAIRS), EACH.

L1 LATERAL SEISMIC RESTRAINTS
 (26 REQUIRED)
 **

UNOFFICIAL SET
 NOT FOR BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
 SR3 OVER SOUTH FORK FORKED DEER RIVER
 BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
 2016

JLH:brock 9/14/2015 12:27:12 PM
 WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final BR-116-202.dgn

GARVER
 DESIGNED BY J. L. HALBROOK DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

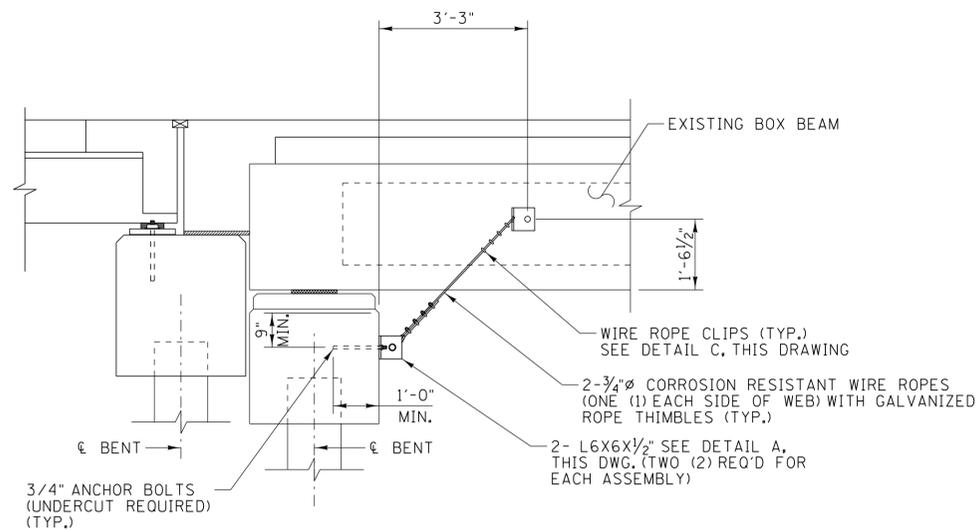
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOTES:

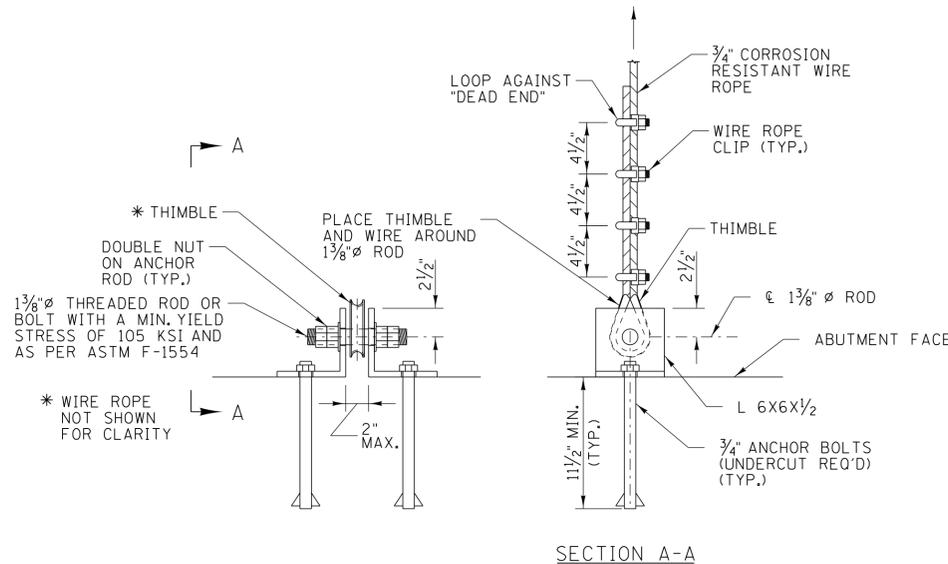
ALL COSTS ASSOCIATED WITH INSTALLING 3/4" DIA. CORROSION RESISTANT STEEL ROPES AT DESIGNATED LOCATIONS AT BENT NOS. 5 & 6 OF BRIDGE NO. 23-SR3-0.06 R & L. AS SHOWN ON DETAILS THIS DWG. SHALL BE PAID FOR UNDER ITEM NO. 604-03.60, BRIDGE JOINT SEISMIC MODIFICATION, EACH (9 REQ'D.), FOR LOCATIONS SEE DWG. NOS. BR-116-175 THRU BR-116-176.

ALL STRUCTURAL STEEL PLATES AND SHAPES SHALL MEET ASTM A36. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.



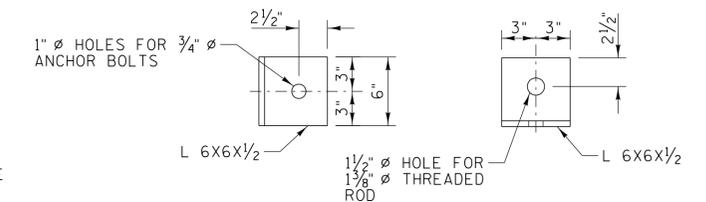
SEISMIC RESTRAINT AT EXISTING BOX BEAM

(SHOWN AT BENT NO. 5L, BENT NO. 6L AND RIGHT LANE SIMILAR)
SCALE: 1/2" = 1'-0"



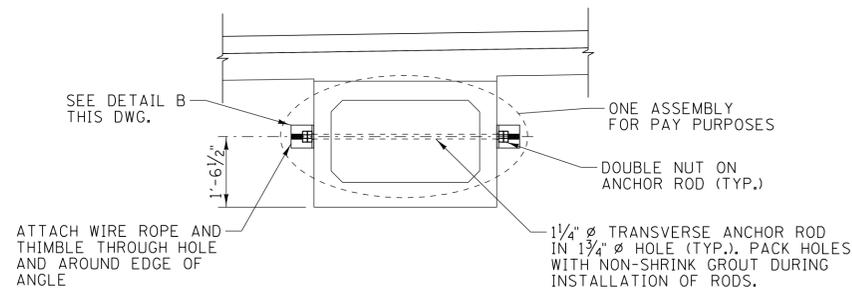
SECTION A-A

SCALE: 1 1/2" = 1'-0"



DETAIL B

SCALE: 1 1/2" = 1'-0"

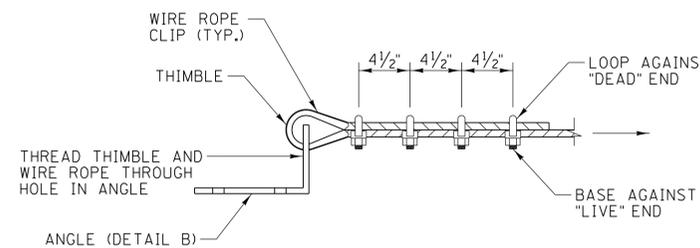


TYPICAL EXISTING BOX BEAM

(SHOWN AT BENT NO. 5L, BENT NO. 6L AND RIGHT LANE SIMILAR)
SCALE: 1/2" = 1'-0"

NOTE:

ONE ASSEMBLY CONSISTS OF TWO (2) WIRE ROPES, FOUR (4) ANGLES (DETAIL A), TWO (2) ANGLES (DETAIL B), AND ASSOCIATED HARDWARE.



DETAIL C

TYPICAL 3/4" WIRE ROPE INSTALLATION
SCALE: 1 1/2" = 1'-0"

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS

SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

UNOFFICIAL SET
NOT FOR BIDDING

S2 BRIDGE JOINT SEISMIC DETAILS AT BENTS
(9 REQ'D.)

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

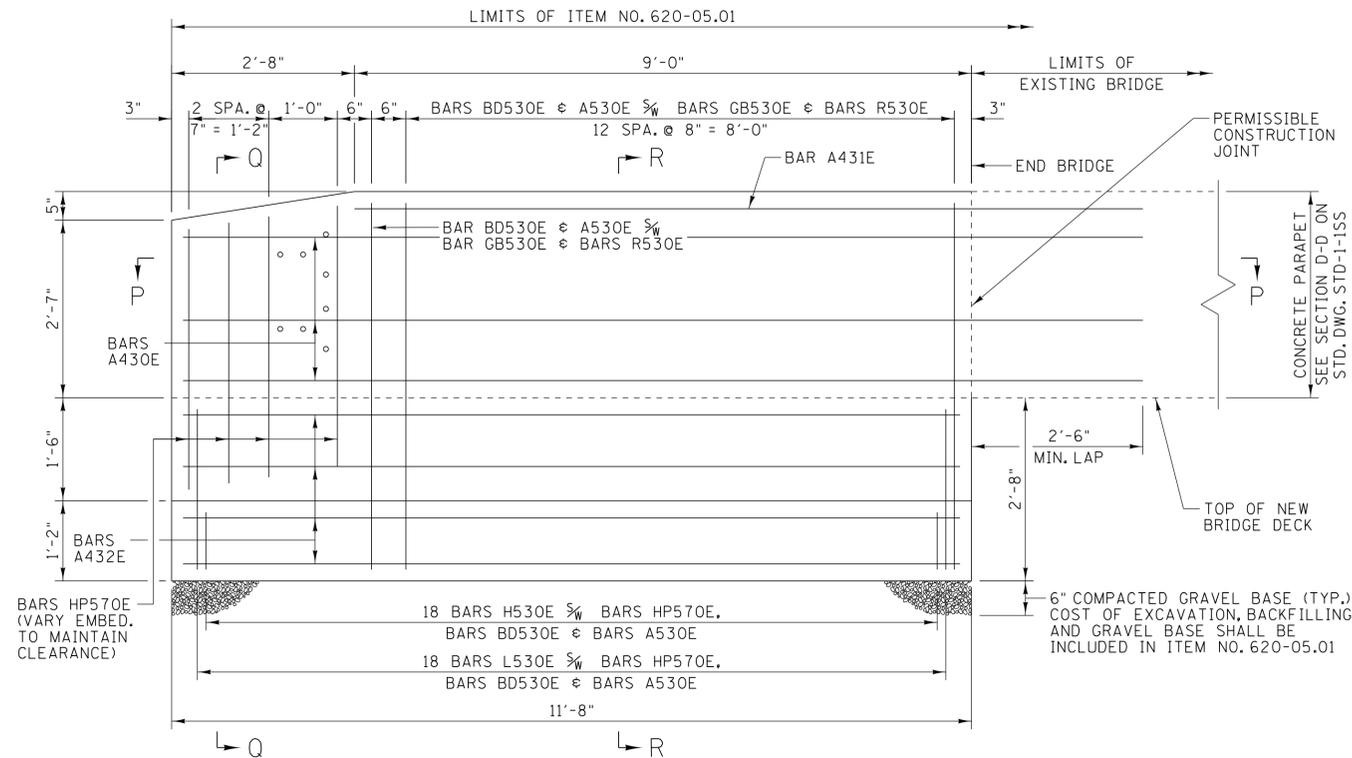
DESIGNED BY J. L. HALBROOK DATE MAR. 2014
DRAWN BY C. W. THOMAS DATE MAR. 2014
SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
CHECKED BY A. J. KHAIRI DATE MAR. 2014

JLHalbrook 9/14/2015 12:27:13 PM
WORKSPACE: T001 Bridge - Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-203A.dgn



BR-116-203A

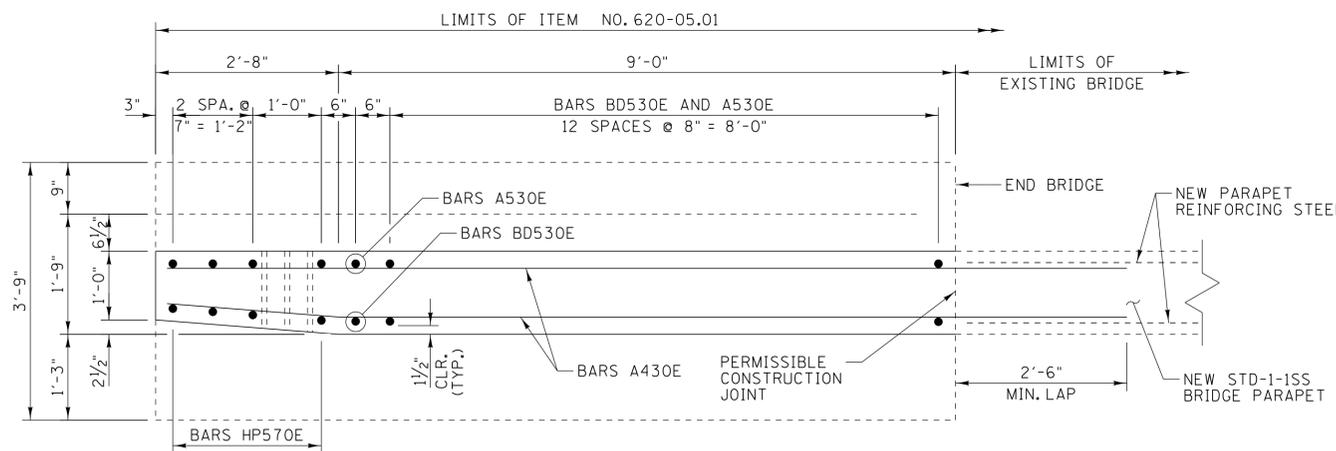
| PROJECT NO. | YEAR | SHEET NO. | |
|---------------|------|-----------|-------------------|
| 23002-4232-04 | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



ELEVATION SHOWING REINFORCING STEEL
SCALE: 3/4" = 1'-0"

NOTE:
FOR ADDITIONAL NOTES
AND DETAILS, SEE STD.
DWG. STD-1-ISS.

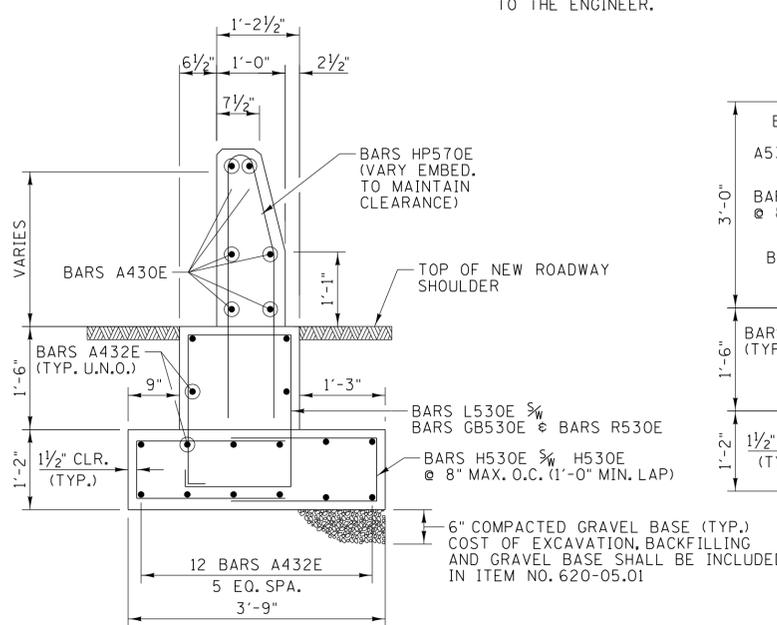
NOTE:
FOR NOTES AND DETAILS
REGARDING GUARDRAIL
CONNECTION, SEE STD.
DWG. STD-1-ISS.



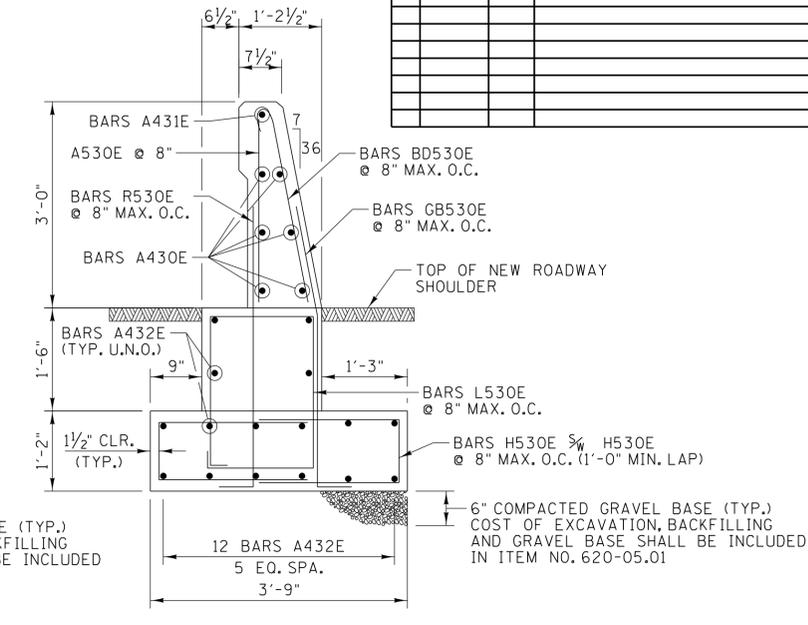
SECTION P-P
SCALE: 3/4" = 1'-0"

NOTE:
ALL COSTS OF CLASS "A" CONCRETE, EPOXY COATED REINFORCING STEEL,
EXCAVATION, BACKFILLING, GRAVEL BASE, GUARDRAIL CONNECTION HARDWARE,
LABOR AND INCIDENTALS NECESSARY TO CONSTRUCT NEW CONCRETE END
POSTS TO BE INCLUDED IN ITEM NO. 620-05.01, SINGLE SLOPE CONCRETE
PARAPET (STD-1-ISS), L.F.

NOTE:
CONTRACTOR SHALL BACKFILL
WITH MATERIAL ACCEPTABLE
TO THE ENGINEER.



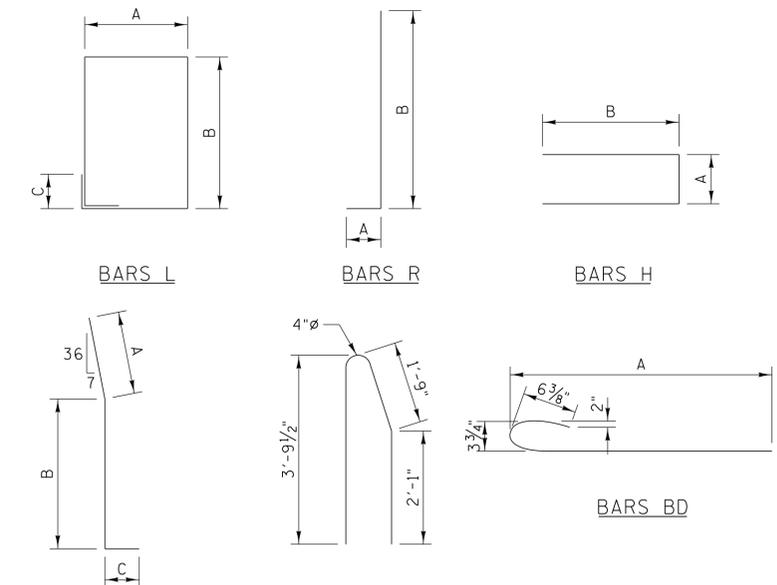
SECTION Q-Q
SCALE: 3/4" = 1'-0"



SECTION R-R
SCALE: 3/4" = 1'-0"

| BILL OF STEEL | | | | | | | |
|-------------------|------|-----------|--------------------|-----------|-------|---|------------|
| CONCRETE END POST | | | | | | | |
| BARS | SIZE | NO. REQ'D | BENDING DIMENSIONS | | | | LENGTH |
| | | | A | B | C | D | |
| A430E | 4 | 6 | | | | | 14'-0" |
| A431E | 4 | 1 | | | | | 11'-6" |
| A432E | 4 | 16 | | | | | 11'-4" |
| A530E | 5 | 14 | | | | | 2'-8" |
| BD530E | 5 | 14 | 2'-10" | | | | 3'-9" |
| GB530E | 5 | 14 | 1'-6" | 2'-6 1/2" | 1'-0" | | 5'-0 1/2" |
| H530E | 5 | 36 | 11" | 2'-6" | | | 5'-11" |
| HP570E | 5 | 4 | | | | | 7'-10 1/2" |
| L530E | 5 | 18 | 1'-6" | 2'-5" | 6" | | 8'-10" |
| R530E | 5 | 14 | 1'-0" | 4'-1" | | | 5'-1" |

NOTES:
ALL BAR DIMENSIONS ARE OUT-TO-OUT.
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR
PRIOR TO FABRICATION.
BARS ENDING IN "E" TO BE EPOXY COATED.
NUMBER OF BARS IS FOR 1 (ONE) END POST, FOUR (4) REQUIRED.



CONCRETE END POST DETAILS
(4 REQ'D)

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
SR3 OVER SOUTH FORK
FORKED DEER RIVER
BRIDGE NO. 23-SR3-0.06 R & L

DYER COUNTY
2016

9/14/2015 12:27:15 PM
 WORKSPACE: T001 Bridge Repair - Dyer County Drawings BRG.02 - Final\BR-116-206A.dgn
 J:\hdbr-cook



DESIGNED BY L. I. COBOS DATE MAR. 2014
 DRAWN BY C. W. THOMAS DATE MAR. 2014
 SUPERVISED BY J. H. RUDDLELL DATE MAR. 2014
 CHECKED BY A. J. KHAIRI DATE MAR. 2014

TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON