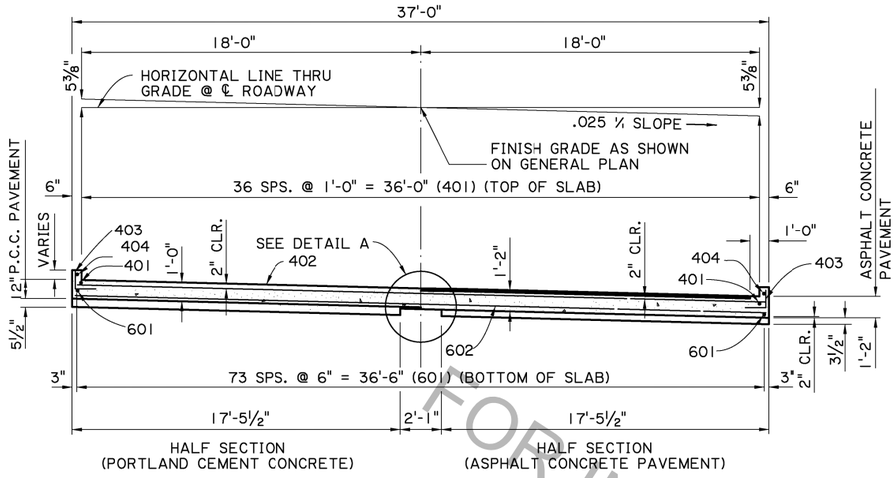
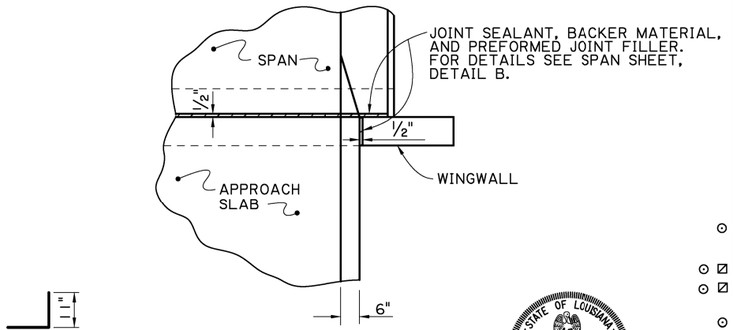


SECTION A-A
SCALE : ¼" = 1'-0"

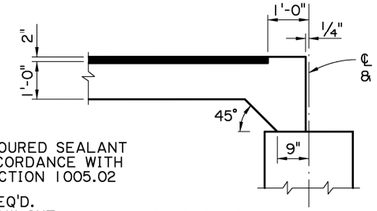


JOINT DETAIL
SCALE : ½" = 1'-0"

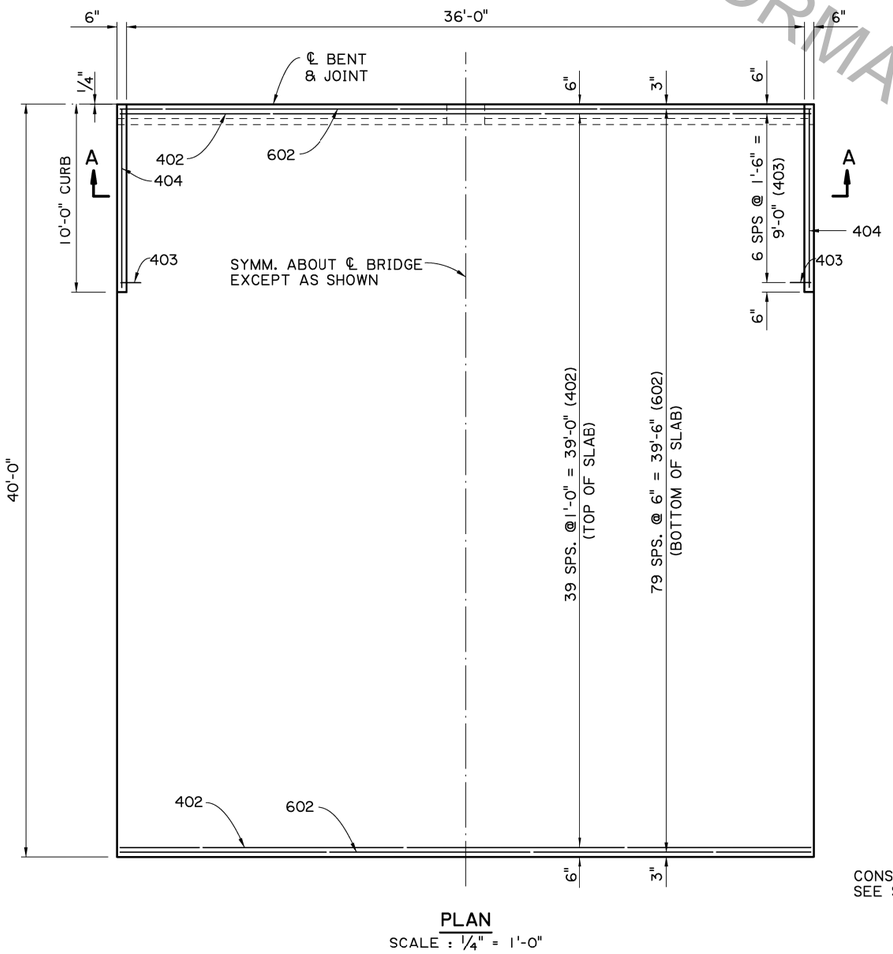
ESTIMATED QUANTITIES (ONE SLAB)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	74	39'-7"	2929'-2"	LONGIT. BOT. OF SLAB
602	80	36'-8"	2933'-4"	TRANSV. BOT. OF SLAB
TOTAL NO. 6 BARS = 5862'-6" = 8805 LBS.				
401	37	39'-7"	1464'-7"	LONGIT. TOP OF SLAB
402	40	36'-8"	1466'-8"	TRANSV. TOP OF SLAB
403	14	2'-0"	28'-0"	DOWELS IN CURB
404	2	9'-7"	19'-2"	LONGIT. IN CURB
TOTAL NO. 4 BARS = 2978'-5" = 1990 LBS.				
⊙ TOTAL DEFORMED REINFORCING STEEL = 10,795 LBS.				
CONCRETE APPROACH SLAB = 164.44 SQ.YDS.				
⊙ ☑ ASPHALT CONCRETE = 16.7 TONS				
⊙ ☑ SAW CUT & SEAL = 35 LIN. FT.				

⊙ TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.
☑ REQUIRED WHEN APPROACH SLAB IS ADJACENT TO ASPHALT CONCRETE PAVEMENT.

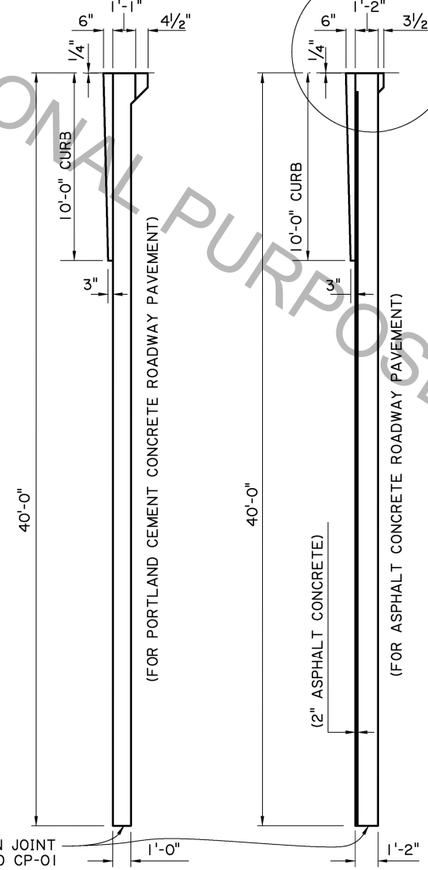
05/17/17



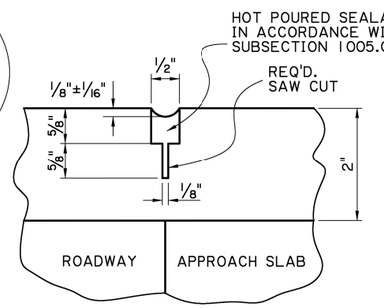
DETAIL B
SCALE : ½" = 1'-0"



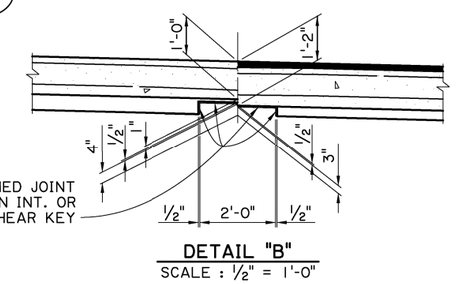
PLAN
SCALE : ¼" = 1'-0"



SECTION ALONG ℄ ROADWAY
SCALE : ¼" = 1'-0"



SAWING & SEALING JOINT DETAIL
N.T.S.



DETAIL "B"
SCALE : ½" = 1'-0"

APPROACH SLAB NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE NOTED.

ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE ASPHALT CONCRETE USED FOR THE APPROACH ROADWAY PAVEMENT OR OVERLAY.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO THE FABRICATION ARE OUT-TO-OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS.

BEDDING MATERIAL: FOR DETAILS OF BEDDING MATERIAL AND UNDERDRAINS. SEE STANDARD DETAIL BD.2.10.1.0.07.

SAWING & SEALING: THE ASPHALT CONCRETE SHALL BE SAW CUT AT THE END OF THE CONCRETE APPROACH SLAB THE ENTIRE ROADWAY WIDTH AND SEALED.

BASIS OF PAYMENT: ALL MATERIAL SHALL BE PAID FOR UNDER 'CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.

SHEET NUMBER

PARISH | CONTROL SECTION | STATE PROJECT

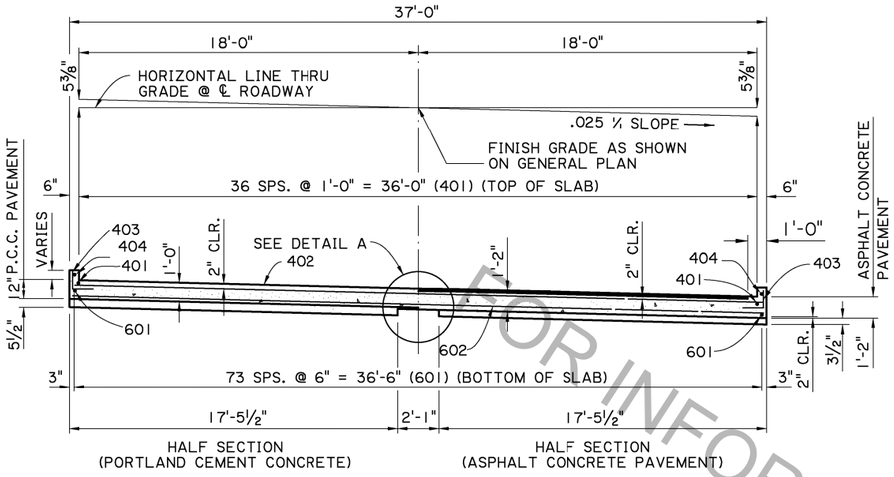
DESIGNED J. NAKHLEH | CHECKED B. DELATTE | DETAILED D. HYMEL | CHECKED J. NAKHLEH | REVIEWED 05/17/17 | SERIES #

REVISION OR CHANGE ORDER DESCRIPTION | BY | NO. | DATE

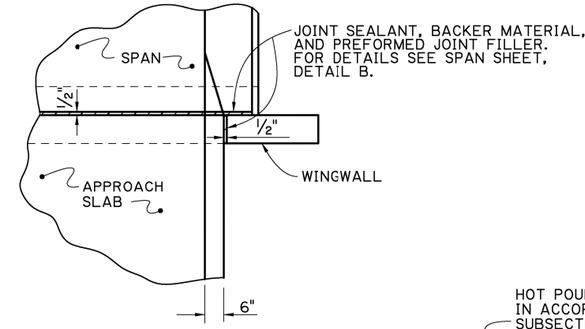
APPROACH SLAB
40'-0" CONCRETE APPROACH SLAB
36'-0" CLEAR ROADWAY
90° CROSSING ONE WAY TANGENT

STANDARD SHEET NO. CASBR-90-36T-40L-20SL

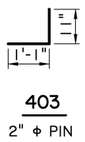
DOTD BRIDGE DESIGN



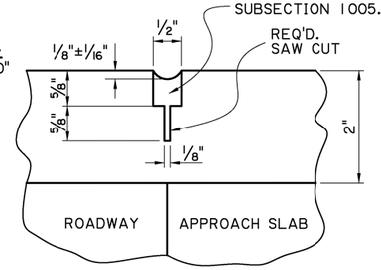
SECTION A-A
SCALE : ¼" = 1'-0"



JOINT DETAIL
SCALE : ½" = 1'-0"

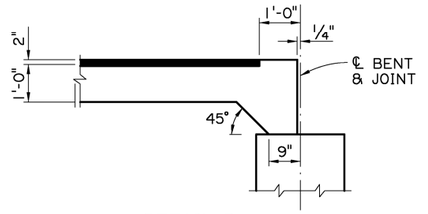


403
2" ϕ PIN



SAWING & SEALING JOINT DETAIL
N.T.S.

HOT POURED SEALANT IN ACCORDANCE WITH SUBSECTION 1005.02



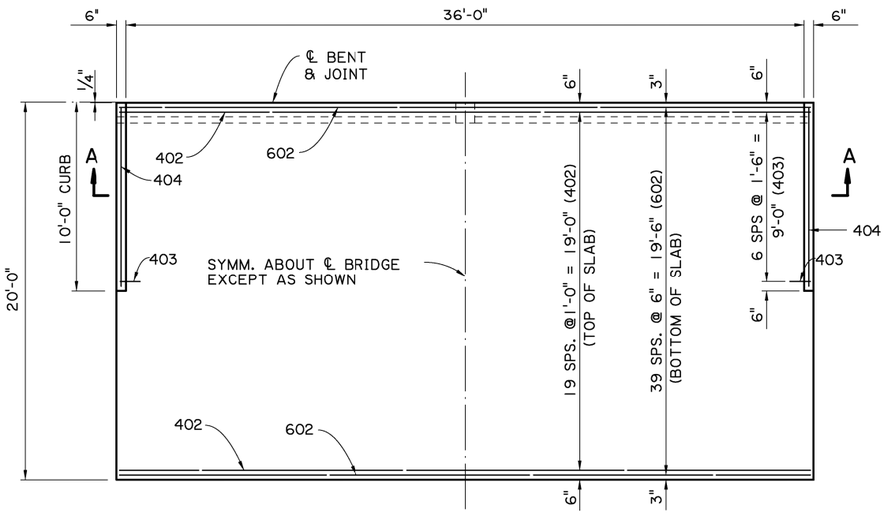
DETAIL B
SCALE : ½" = 1'-0"

ESTIMATED QUANTITIES (ONE SLAB)

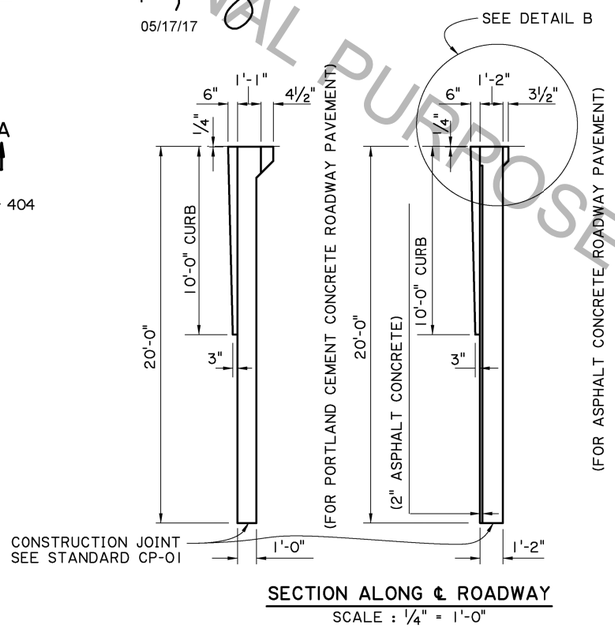
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	74	19'-7"	1449'-2"	LONGIT. BOT. OF SLAB
602	40	36'-8"	1466'-8"	TRANSV. BOT. OF SLAB
TOTAL NO. 6 BARS = 2915'-10" = 4380 LBS.				
401	37	19'-7"	724'-7"	LONGIT. TOP OF SLAB
402	20	36'-8"	733'-4"	TRANSV. TOP OF SLAB
403	14	2'-0"	28'-0"	DOWELS IN CURB
404	2	9'-7"	19'-2"	LONGIT. IN CURB
TOTAL NO. 4 BARS = 1505'-1" = 1005 LBS.				

⊙ TOTAL DEFORMED REINFORCING STEEL = 5385 LBS.
CONCRETE APPROACH SLAB = 82.22 SQ.YDS.
⊙ ☑ ASPHALT CONCRETE = 8.1 TONS
⊙ ☑ SAW CUT & SEAL = 35 LIN. FT.

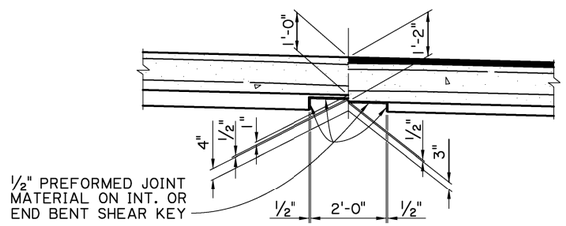
⊙ TO BE PAID FOR UNDER ITEM CONCRETE APPROACH SLABS.
☑ REQUIRED WHEN APPROACH SLAB IS ADJACENT TO ASPHALT CONCRETE PAVEMENT.



PLAN
SCALE : ¼" = 1'-0"



SECTION ALONG ℄ ROADWAY
SCALE : ¼" = 1'-0"



DETAIL "B"
SCALE : ½" = 1'-0"

APPROACH SLAB NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE NOTED.
ASPHALT CONCRETE: TO BE THE SAME TYPE AS THE ASPHALT CONCRETE USED FOR THE APPROACH ROADWAY PAVEMENT OR OVERLAY.
REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO THE FABRICATION ARE OUT-TO-OUT OF BARS, UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS.
BEDDING MATERIAL: FOR DETAILS OF BEDDING MATERIAL AND UNDERDRAINS. SEE STANDARD DETAIL BD.2.10.1.0.07.
SAWING & SEALING: THE ASPHALT CONCRETE SHALL BE SAW CUT AT THE END OF THE CONCRETE APPROACH SLAB THE ENTIRE ROADWAY WIDTH AND SEALED.
BASIS OF PAYMENT: ALL MATERIAL SHALL BE PAID FOR UNDER 'CONCRETE APPROACH SLABS' ACCORDING TO THE SPECIFICATIONS, EXCEPT WHERE NOTED ON THIS SHEET.

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

05/17/17

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

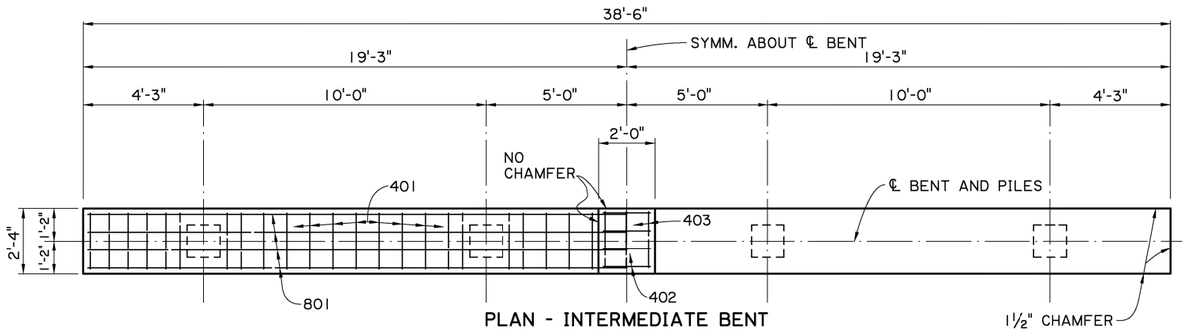
DESIGNED	CHECKED	DETAILED	CHECKED	REVIEWED	SERIES #
J. NAKHLEH	B. DELATTE	D. HYMEL	J. NAKHLEH	05/17/17	

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

APPROACH SLAB
20'-0" CONCRETE APPROACH SLAB
36'-0" CLEAR ROADWAY
90° CROSSING ONE WAY TANGENT

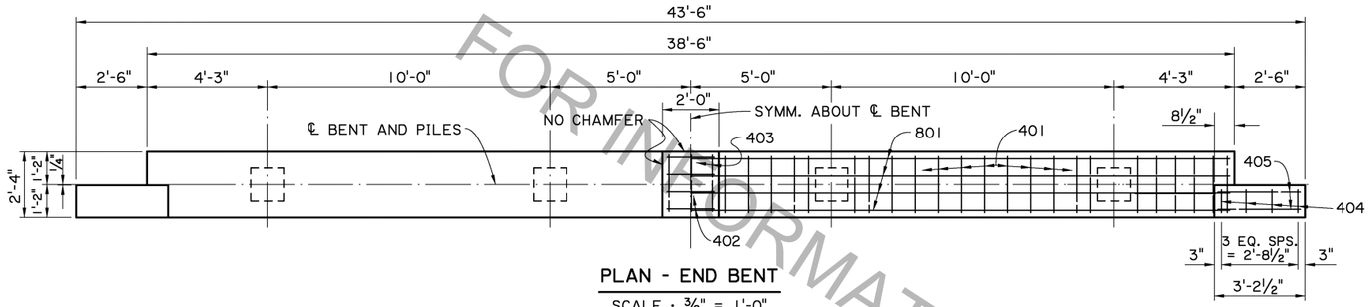
STANDARD SHEET NO. CASBR-90-36T-20L-20SL

DOTD BRIDGE DESIGN



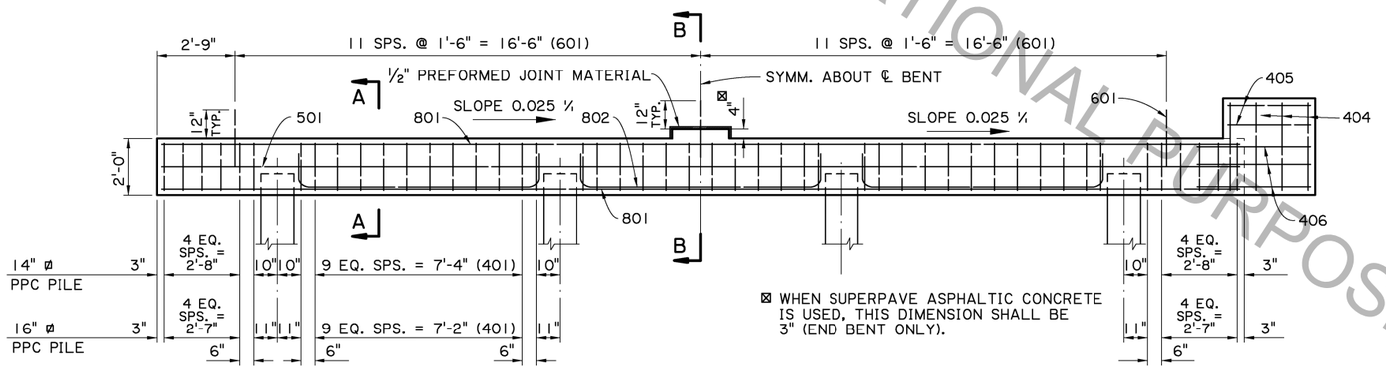
PLAN - INTERMEDIATE BENT

SCALE : ⅜" = 1'-0"



PLAN - END BENT

SCALE : ⅜" = 1'-0"



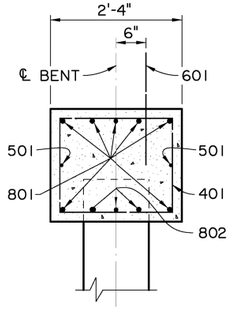
⊠ WHEN SUPERPAVE ASPHALTIC CONCRETE IS USED, THIS DIMENSION SHALL BE 3" (END BENT ONLY).

HALF ELEVATION - INTERMEDIATE BENT

SCALE : ⅜" = 1'-0"

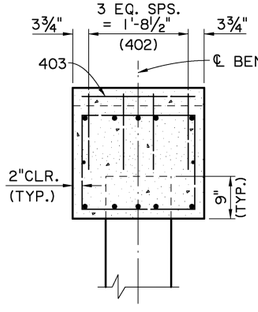
HALF ELEVATION - END BENT

SCALE : ⅜" = 1'-0"



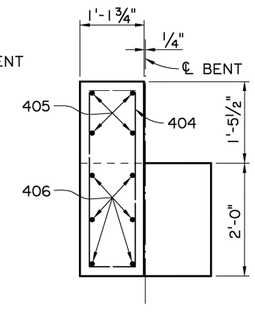
SECTION A-A

SCALE : ¾" = 1'-0"



SECTION B-B

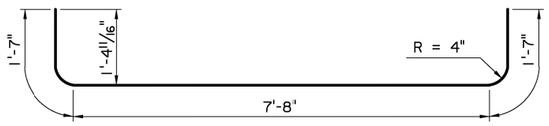
SCALE : ¾" = 1'-0"



END ELEVATION

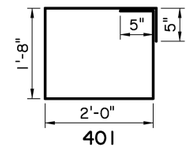
SCALE : ¾" = 1'-0"

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.536	———
HL-93 (OPR)	1.991	———
LADV-11 (INV)	1.182	MAGNIFICATION FACTOR = 1.3



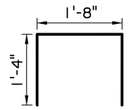
802

6" ø PIN



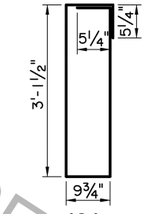
401

2" ø PIN



402

2" ø PIN



404

2" ø PIN

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Victor A. Sanchez

05/17/17

ESTIMATED QUANTITIES (ONE INTER. BENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	7	38'-2"	267'-2"	LONGIT. IN CAP
802	9	10'-10"	97'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 364'-8" = 974 LBS.				
601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 69 LBS.				
501	2	38'-2"	76'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 76'-4" = 80 LBS.				
401	48	8'-2"	392'-0"	STIRRUPS IN CAP
402	4	4'-4"	17'-4"	STIRRUPS IN RISER
403	4	2'-0"	8'-0"	LONGIT. IN RISER
TOTAL NO. 4 BARS = 417'-4" = 279 LBS.				
* TOTAL DEFORMED REINFORCING STEEL = 1402 LBS.				
⊖ CLASS A1 CONCRETE = 6.52 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS SERVICE LIVE LOAD = 41 TONS FACTORED TOTAL LOAD = 94 TONS				

* ADD 69 LBS. OF REINFORCING STEEL (23-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

ESTIMATED QUANTITIES (ONE END BENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	7	38'-2"	267'-2"	LONGIT. IN CAP
802	9	10'-10"	97'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 364'-8" = 974 LBS.				
601	23	2'-0"	46'-0"	DOWELS
TOTAL NO. 6 BARS = 46'-0" = 69 LBS.				
501	2	38'-2"	76'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 76'-4" = 80 LBS.				
401	48	8'-2"	392'-0"	STIRRUPS IN CAP
402	4	4'-4"	17'-4"	STIRRUPS IN RISER
403	4	2'-0"	8'-0"	LONGIT. IN RISER
404	8	8'-9"	70'-0"	STIRRUPS IN WINGWALL
405	8	2'-10"	22'-8"	LONGIT. IN WINGWALL
406	12	4'-0"	48'-0"	LONGIT. IN WINGWALL
TOTAL NO. 4 BARS = 558'-0" = 373 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1496 LBS.				
⊖ CLASS A1 CONCRETE = 7.34 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 27 TONS SERVICE LIVE LOAD = 41 TONS FACTORED TOTAL LOAD = 94 TONS				

⊖ 16" ø PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.05 CU. YDS. OF CLASS A1 CONCRETE PER BENT WHEN 14" ø PPC PILES ARE USED.)

BENT NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION WITH 2008 & 2009 INTERIMS.
DESIGN LOAD: LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1.
EXPOSED EDGES SHALL HAVE A ¾" CHAMFER UNLESS OTHERWISE NOTED.
ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE FINISH AS PER SUB-SECTION 805.08 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.
½" PREFORMED JOINT MATERIAL AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A1 CONCRETE.
REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60.
DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, UNLESS OTHERWISE NOTED. DOWELS (601 BARS) SHALL BE PROVIDED AT ALL FIXED BEARINGS AND APPROACH SLAB BEARINGS (SEE GENERAL PLAN). ALL EXPOSED ENDS OF DOWELS SHALL BE WRAPPED WITH TWO LAYERS OF 15 LB. ASPHALT SATURATED FELT. CLOSE FITTING TUBES OF COMPRESSIBLE MATERIAL NOT LESS THAN 3/16" THICK MAY BE SUBSTITUTED.
PRECAST CONCRETE PILES: FOR DETAILS SEE STANDARD DETAIL BD.2.5.1.0.01 (CS-216). EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 1½ ON 12 IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.
PREFORMED JOINT MATERIAL: PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 815.04 OF THE STANDARD SPECIFICATIONS.

SHEET NUMBER

PARISH | CONTROL SECTION | STATE PROJECT

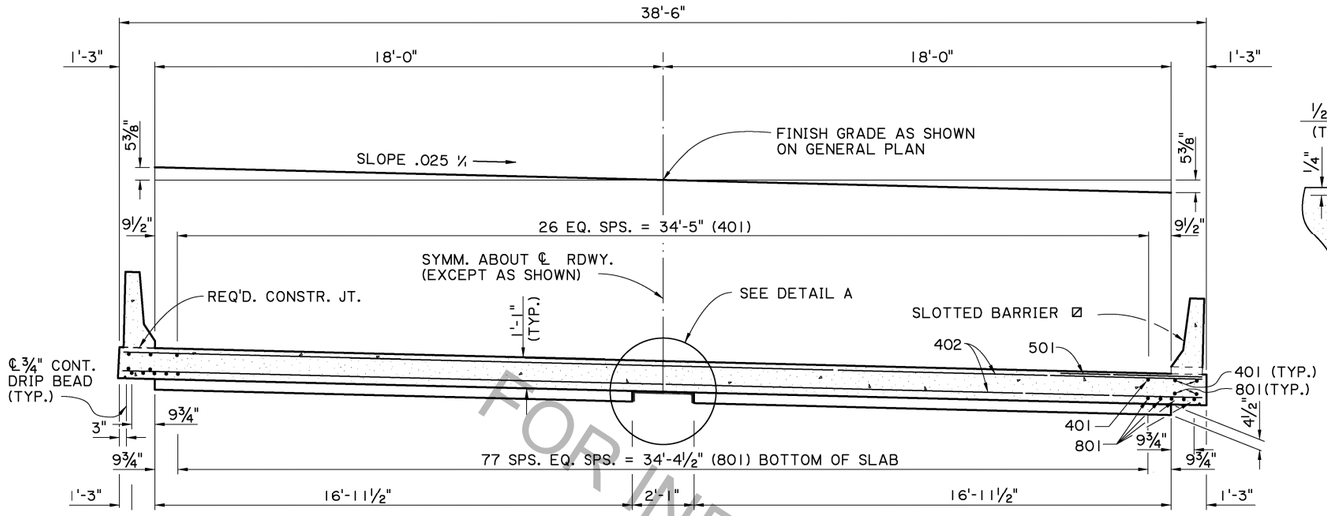
DESIGNED J. NAKHLEH
CHECKED B. DELATTE
DETAILED D. HYMEL
CHECKED J. NAKHLEH
REVIEWED 05/17/17
SERIES #

NO. | DATE | REVISION OR CHANGE ORDER DESCRIPTION | BY

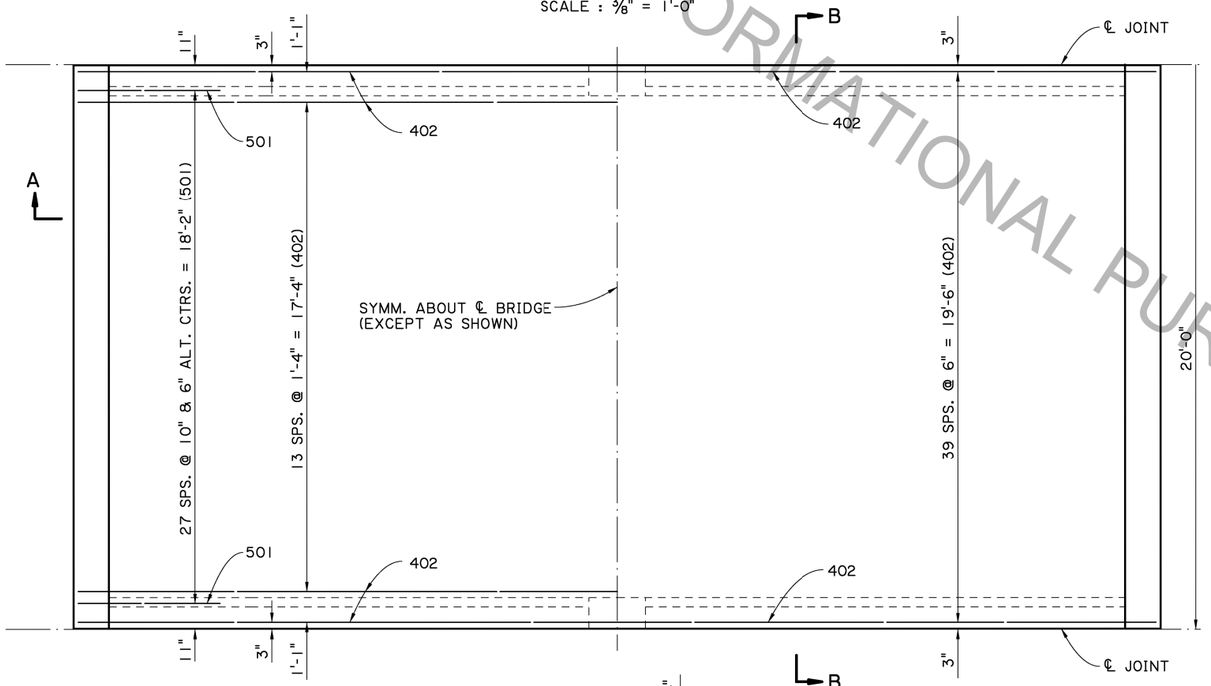
BENTS
REINFORCED CONCRETE PILE BENT
36'-0" CLEAR ROADWAY
90° CROSSING ONE WAY TANGENT

STANDARD SHEET NO. BCSSBR-90-36T-20SL

DOTD BRIDGE DESIGN

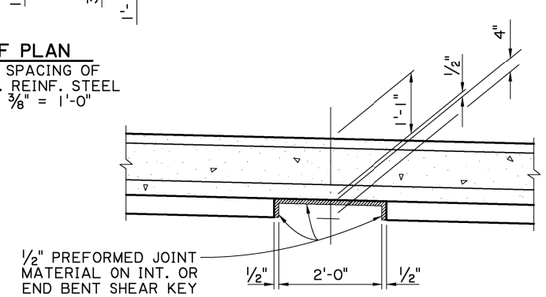


SECTION A-A
SCALE : ⅜" = 1'-0"

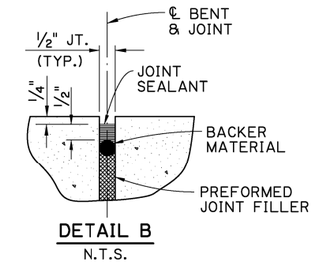


HALF PLAN
SHOWING SPACING OF TOP TRANS. REINF. STEEL
SCALE : ⅜" = 1'-0"

HALF PLAN
SHOWING SPACING OF BOTTOM TRANS. REINF. STEEL
SCALE : ⅜" = 1'-0"



DETAIL A
SCALE : ¾" = 1'-0"



DETAIL B
N.T.S.

ESTIMATED QUANTITIES (ONE SPAN)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	89	19'-7"	1742'-11"	LONGIT. BOT. OF SLAB
TOTAL NO. 8 BARS = 1742'-11" = 4654 LBS.				
501	56	5'-0"	280'-0"	TRANS. TOP OF SLAB
TOTAL NO. 5 BARS = 280'-0" = 292 LBS.				
401	31	19'-7"	607'-1"	LONGIT. TOP OF SLAB
402	56	38'-2"	2137'-4"	TRANS. TOP & BOT. OF SLAB
TOTAL NO. 4 BARS = 2744'-5" = 1833 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 6779 LBS.				
CLASS A1 CONCRETE = 32.96 CU. YDS.				
CONCRETE RAILING (BARRIER TYPE) = 40.00 LIN. FT.				

SPAN NOTES:

CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th EDITION WITH 2008 & 2009 INTERIMS.

DESIGN LOAD: THE BRIDGE DECK IS DESIGNED FOR A FUTURE WEARING COURSE OF 19 PSF. THE LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).

STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A1. EXPOSED EDGES SHALL HAVE A ¾" CHAMFER UNLESS OTHERWISE NOTED. JOINT SEALANT, BACKER MATERIAL, PREFORMED JOINT FILLER, AND ASPHALT SATURATED FELT SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A1 CONCRETE.

REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS RELATING TO SPACING ARE TO BAR CENTERS, DIMENSIONS RELATING TO FABRICATION ARE OUT TO OUT OF BARS UNLESS OTHERWISE NOTED. ALL REINFORCING BARS SHALL BE PLACED TO PROVIDE A MINIMUM COVER OF ONE INCH FROM THE SURFACE OF THE DRAIN HOLES TO THE FACE OF THE BARS EXCEPT FOR THE TRANSVERSE BARS WHICH MAY BE CUT FOR THIS PURPOSE.

GUARD RAIL: REFER TO THE GENERAL PLAN AND STANDARD PLAN BD.1.1.1.0.01 (GR-200) FOR GUARD RAIL REQUIREMENTS.

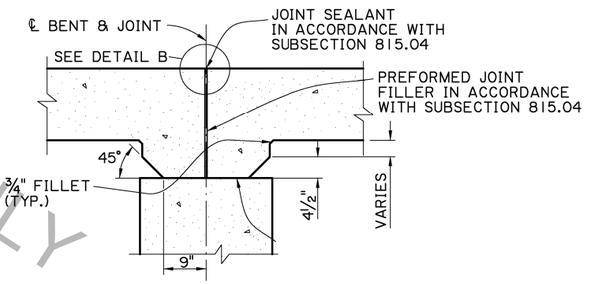
BARRIER RAILING: FOR BARRIER RAILING DETAILS, SEE STANDARD DETAIL BD.2.6.1.14.02 (BR-02).

STATE OF LOUISIANA
VICTOR A. SANCHEZ
License No. 33976
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

05/17/17

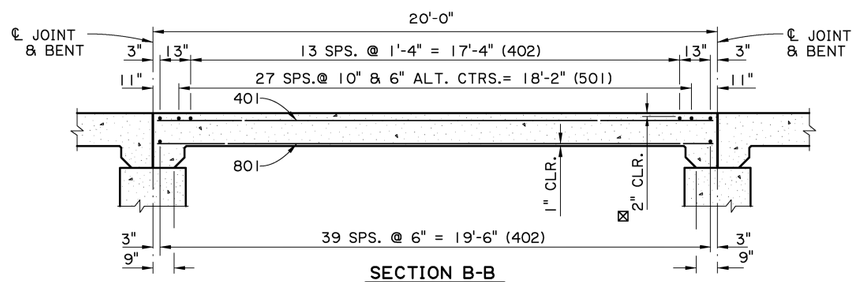
⊠ NOTE: NORMAL BARRIERS ARE REQ'D. ON END SPANS

⊠ FOR BRIDGES IN DISTRICTS 04 & 05, MINIMUM CONCRETE COVER IN TOP OF SLAB SHALL BE 2½".



DETAIL SHOWING TYPICAL JOINT & HAUNCH
SCALE : ½" = 1'-0"

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	1.372	———
HL-93 (OPR)	1.778	———
LADV-11 (INV)	1.055	MAGNIFICATION FACTOR = 1.3



SECTION B-B
SCALE : ⅜" = 1'-0"

SHEET NUMBER

DESIGNED	J. NAKHLEH
CHECKED	J. PAINE
DETAILED	D. HYMEL
CHECKED	J. NAKHLEH
REVIEWED	05/17/17
SERIES #	

PARISH | CONTROL SECTION | STATE PROJECT

NO. | DATE | REVISION OR CHANGE ORDER DESCRIPTION | BY

SPAN
20'-0" CONCRETE SLAB SPAN
36'-0" CLEAR ROADWAY
90° CROSSING ONE WAY TANGENT

STANDARD SHEET NO. CSSBR-90-367-20SL

DOTD BRIDGE DESIGN