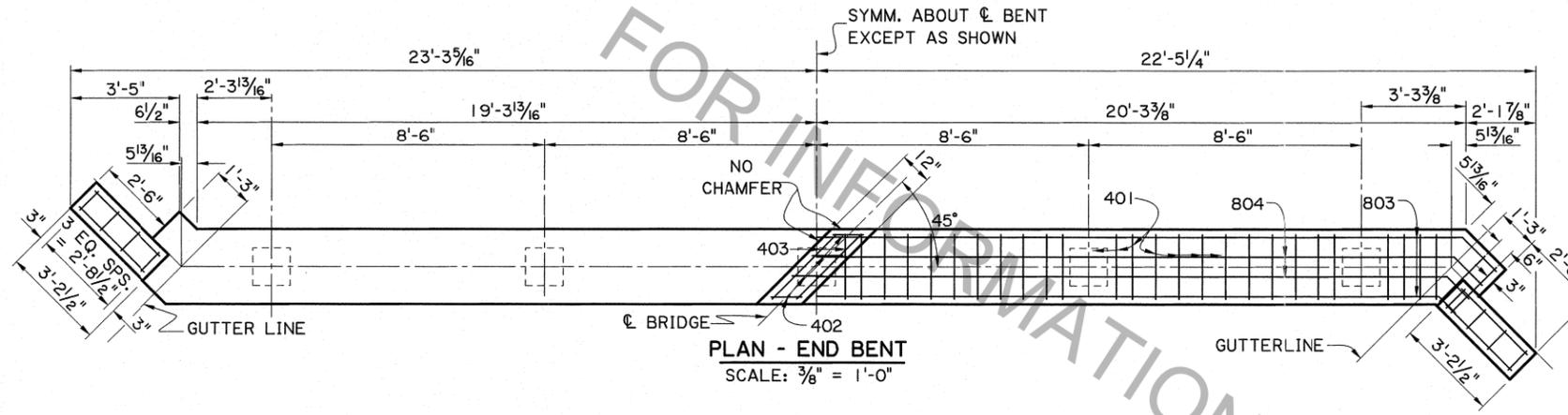
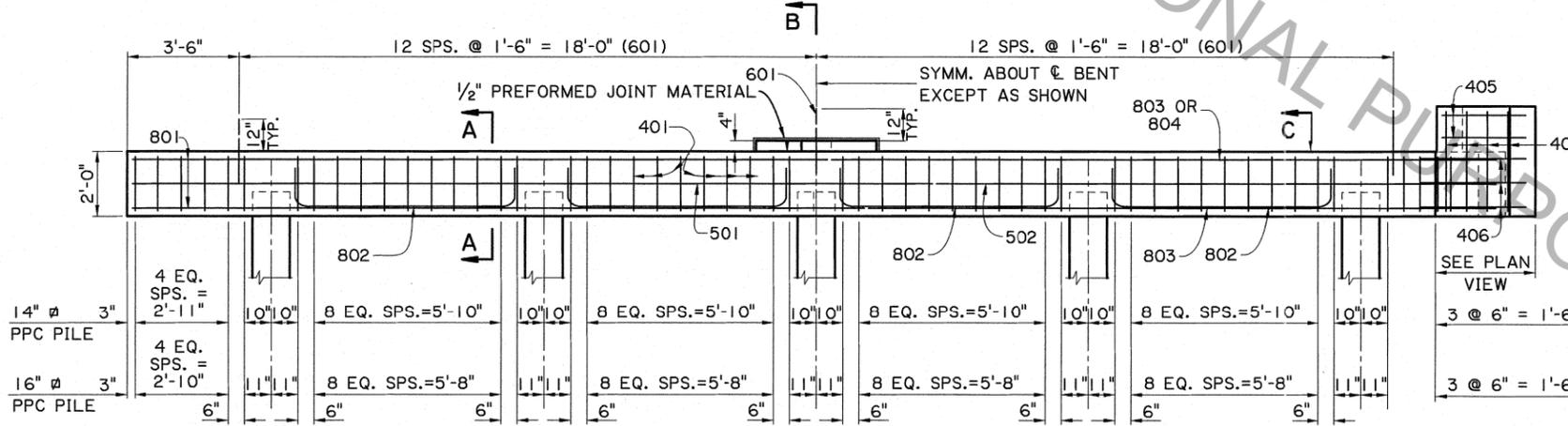


PLAN - INTERMEDIATE BENT
SCALE 3/8" = 1'-0"

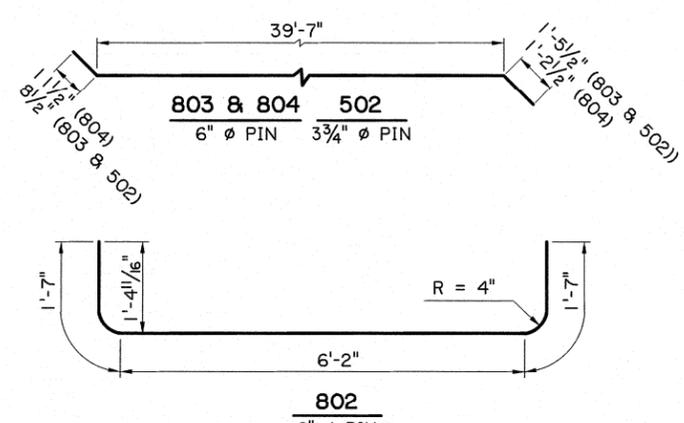
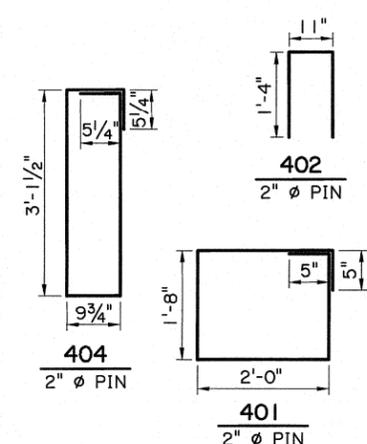


PLAN - END BENT
SCALE: 3/8" = 1'-0"

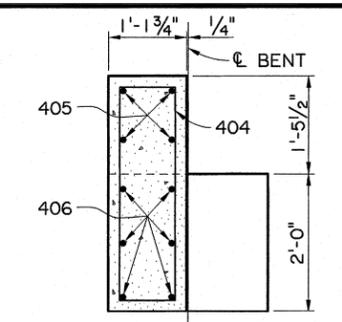


HALF ELEVATION - INTERMEDIATE BENT
SCALE 3/8" = 1'-0"

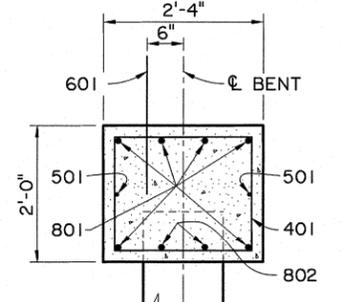
HALF ELEVATION - END BENT
SCALE 3/8" = 1'-0"



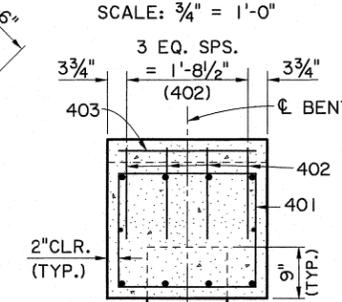
NOTES:
CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 4th EDITION, WITH 2008 & 2009 INTERIMS.
DESIGN LOAD: LIVE LOAD IS HL-93, AND LADV-11 (LOUISIANA DESIGN VEHICLE LIVE LOAD 2011).
STRUCTURAL CONCRETE: ALL CONCRETE SHALL BE CLASS A. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER UNLESS OTHERWISE NOTED. ALL EXPOSED FACES OF WINGWALLS AND ENDS OF CAPS SHALL RECEIVE A SURFACE FINISH AS PER SUBSECTION 805.13 OF THE STANDARD SPECIFICATIONS, EXCEPT WHEN SPECIFIED ELSEWHERE IN THE PLANS.



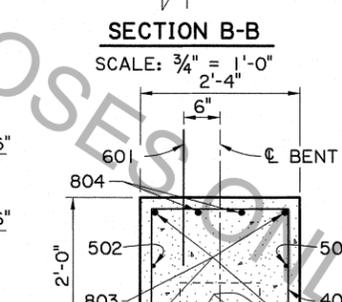
END ELEVATION
SCALE 3/4" = 1'-0"



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



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



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

ESTIMATED QUANTITIES (ONE INTER. BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
801	6	42'-8"	256'-0"	LONGIT. IN CAP
802	8	9'-4"	74'-8"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 330'-8" = 883 LBS.				
601	25	2'-0"	50'-0"	DOWELS
TOTAL NO. 6 BARS = 50'-0" = 75 LBS.				
501	2	42'-8"	85'-4"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 85'-4" = 89 LBS.				
401	56	8'-2"	457'-4"	STIRRUPS IN CAP
402	4	3'-7"	14'-4"	STIRRUPS IN RISER
403	2	2'-9"	5'-6"	LONGIT. IN RISER
TOTAL NO. 4 BARS = 477'-2" = 319 LBS.				
* TOTAL DEFORMED REINFORCING STEEL = 1,366 LBS.				
CLASS A CONCRETE = 7.23 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 25 TONS				
SERVICE LIVE LOAD = 31 TONS				
FACTORED TOTAL LOAD = 77 TONS				

* ADD 75 LBS. OF REINFORCING STEEL (25-601 DOWELS) WHEN TWO FIXED ENDS OCCUR ON THE SAME BENT.

ESTIMATED QUANTITIES (ONE END BENT)				
BAR NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION	
802	8	9'-4"	74'-8"	LONGIT. IN CAP
803	4	41'-9"	167'-0"	LONGIT. IN CAP
804	2	41'-9"	83'-6"	LONGIT. IN CAP
TOTAL NO. 8 BARS = 325'-2" = 868 LBS.				
601	25	2'-0"	50'-0"	DOWELS
TOTAL NO. 6 BARS = 50'-0" = 75 LBS.				
502	2	41'-9"	83'-6"	LONGIT. IN CAP
TOTAL NO. 5 BARS = 83'-6" = 87 LBS.				
401	56	8'-2"	457'-4"	STIRRUPS IN CAP
402	4	3'-7"	14'-4"	STIRRUPS IN RISER
403	2	2'-9"	5'-6"	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 = 617'-10" = 413 LBS.				
TOTAL DEFORMED REINFORCING STEEL = 1,443 LBS.				
CLASS A CONCRETE = 7.89 CU. YDS.				
MAX. PILE LOAD: SERVICE DEAD LOAD = 25 TONS				
FACTORED DEAD LOAD = 31 TONS				
FACTORED LIVE LOAD = 77 TONS				

* 16" # PPC PILES USED FOR ESTIMATING PURPOSES ONLY. (ADD 0.06 CU. YDS. OF CLASS A CONCRETE PER BENT WHEN 14" # PPC PILES ARE USED.)

AS-DESIGNED RATING		
VEHICLE	RATING FACTOR	NOTES
HL-93 (INV)	2.684	
HL-93 (OPR)	3.479	
LADV-11 (INV)	2.065	MAGNIFICATION FACTOR = 1.3

REINFORCING STEEL: ALL REINFORCING 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 CS-216. EXTERIOR PILES ARE TO BE BATTERED OUTWARD AT 1/2" ON 12" IN THE LONGITUDINAL DIRECTION OF THE BENT, WHEN NOTED ON THE GENERAL PLAN.

BASIS OF PAYMENT: ALL MATERIALS SHALL BE PAID FOR UNDER "BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE" ACCORDING TO THE SPECIFICATIONS.

PREFORMED JOINT MATERIAL: PREFORMED JOINT MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 805.12 OF THE STANDARD SPECIFICATIONS.

SHEET NUMBER: _____

REVISION OR CHANGE ORDER DESCRIPTION: _____

DATE: _____

BY: _____

NO. OF: _____

PROJECT: _____

STATE: _____

SECTION: _____

CONTROL: _____

CHECKED: J. NAKHLEH

DRAWN: D. HYMEL

REGISTERED PROFESSIONAL ENGINEER

STATE OF LOUISIANA

REINFORCED CONCRETE PILE BENTS

28'-0" CLEAR ROADWAY

45° CROSSING TWO WAY TANGENT

STANDARD DETAIL

PSS-45-28-20SL