NOTES:

1. THESE DETAILS ARE APPLICABLE FOR THE REHAB AND CONSTRUCTION OF 4" EXPANSION RELIEF JOINTS IN EXISTING CONCRETE PAVEMENTS IN OVERLAY PROJECTS. ALL SHEETS IN THIS SET SHALL BE USED TOGETHER. CONCRETE PAVEMENT ROADWAYS SHOULD BE CONSTRUCTED WITH EJ-4" RELIEF JOINTS IN THREE LOCATIONS NEAR EACH END OF A BRIDGE, AND AN ADDITIONAL RELIEF JOINT AT THE END OF THE APPROACH SLAB, AS SHOWN ON ROADWAY STANDARD PLAN "CP-01".

   EXISTING EJ-4" JOINTS SHALL BE REPAIRED ACCORDING TO THE DETAILS ON SHEET 2 OF 4 OF THESE PLANS. LOCATIONS THAT ARE LACKING AN EJ-4" JOINT WHERE ONE SHOULD EXIST WILL REQUIRE CONSTRUCTION OF A NEW JOINT ACCORDING TO THE DETAILS ON SHEET 3 OF 4. EJ-4" JOINTS SHOULD BE LOCATED AS CLOSELY AS POSSIBLE TO THE LOCATIONS SHOWN ON "CP-01".

   EXISTING EXPANSION RELIEF JOINTS LOCATED AT THE END OF AN APPROACH SLAB SHALL BE REPAIRED ACCORDING TO THE DETAILS ON SHEET 4 OF 4 OF THESE PLANS. IF NO JOINT EXISTS AT THE END OF THE APPROACH SLAB, NO WORK IS REQUIRED AT THAT LOCATION.

2. BASIS OF PAYMENT: ALL WORK SHOWN IN THESE PLANS SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."

EXPANSION JOINT REHAB DETAILS INDEX

BRIDGE STANDARD INDEX NO.	SERIES	DESCRIPTION
BD.2.9.1.0.01	1 OF 4	EXPANSION JOINT REHAB NOTES AND INDEX
BD.2.9.1.0.02	2 OF 4	REHAB OF EXISTING EJ-4" JOINT
BD.2.9.1.0.03	3 OF 4	CONSTRUCTION OF NEW EJ-4" JT. IN EXISTING PAVEMENT
BD.2.9.1.0.04	4 OF 4	REHAB OF EXISTING EXPANSION JOINT NEAR APPROACH SLAB

STATE OF LOUISIANA
ADAM LANCASTER
License No. 35573
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Adam Lancaster 10/12/16

BRIDGE AND STRUCTURAL DESIGN

DOTD TRANSPORTATION AND DEVELOPMENT

PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS

NOTES AND INDEX

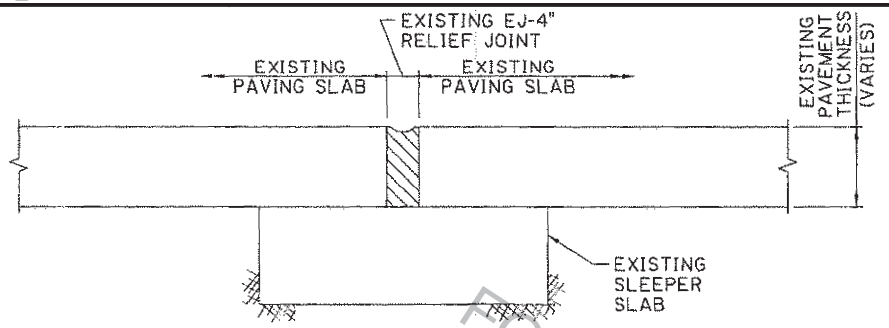
BD.2.9.1.0.01 - PREVENTIVE MAINTENANCE

STATE OF LOUISIANA

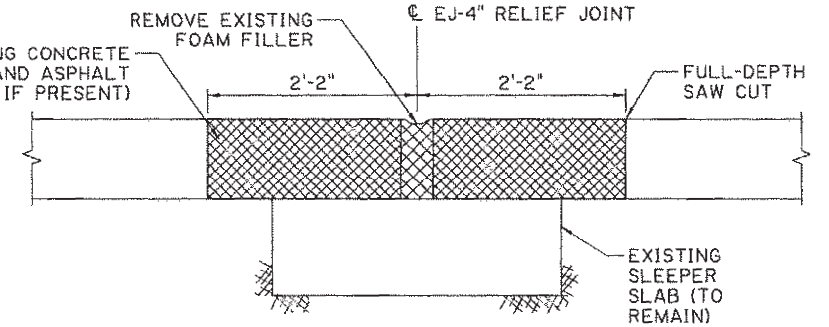
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DESIGNED	A.LANCASTER	PARISH	
CHECKED	X. WANG		
DETAILED	A.LANCASTER	CONTROL SECTION	
CHECKED	R. MORVANT		
REVIEWED	Z.Z. FU	STATE PROJECT	
SERIES #	1 OF 4		

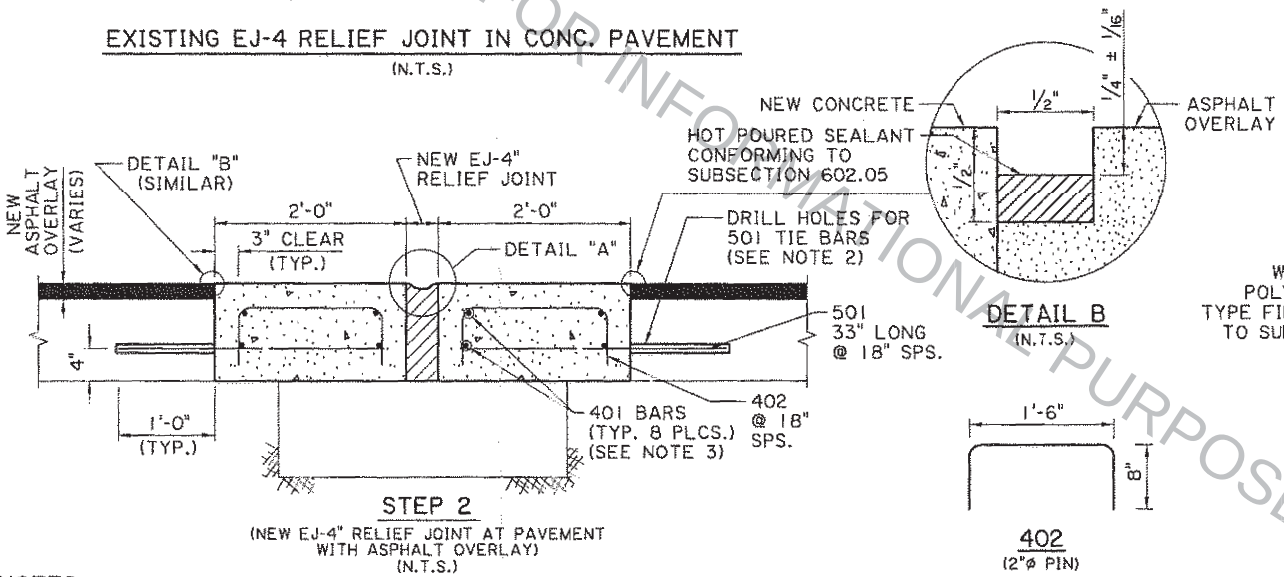
SHEET NUMBER



EXISTING EJ-4 RELIEF JOINT IN CONC. PAVEMENT
(N.T.S.)



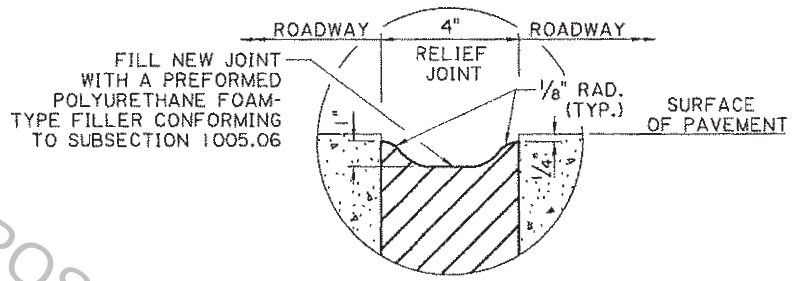
STEP 1
(PAVEMENT DEMO, SEE NOTE 2)
(N.T.S.)



STEP 2
(NEW EJ-4" RELIEF JOINT AT PAVEMENT WITH ASPHALT OVERLAY)
(N.T.S.)

DETAIL B
(N.T.S.)

402
(2"ø PIN)



DETAIL A
(NEW INSTALLED FOAM FILLER)
(N.T.S.)

NOTES:

1. THIS PLAN IS APPLICABLE FOR THE REHABILITATION OF EXISTING 4" RELIEF JOINTS IN CONCRETE PAVEMENT WITH ASPHALT OVERLAY.
2. INSTALLATION PROCESS: REMOVE THE EXISTING FOAM FILLER. SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLABS AND EXISTING ASPHALT OVERLAY, IF PRESENT, AS SHOWN IN "STEP 1". DEFORMED TIE BARS (501) SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES LARGER THAN THE BAR DIAMETER (1/8" WHEN EPOXY IS USED, 1/2" WHEN A CEMENTITIOUS GROUT ANCHOR SYSTEM IS USED, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WHEN ADHESIVE ANCHOR SYSTEMS ARE USED.) HOLES SHALL BE CLEAN AND MOISTURE FREE PRIOR TO PLACEMENT OF ANCHOR SYSTEM. ANCHOR SYSTEM INJECTION SHALL BE SUFFICIENT TO FILL THE VOID BETWEEN THE BAR AND THE HOLE, AS EVIDENCED BY MATERIAL SQUEEZE-OUT WHEN THE BAR IS INSERTED. PREVENT BARS FROM BEING DISTURBED UNTIL ANCHOR SYSTEM HAS SUFFICIENTLY CURED. PRIOR TO PLACING NEW CONCRETE, THE FACES OF EXISTING CONCRETE SHALL BE COATED WITH AN EPOXY RESIN TYPE II, GRADE B OR C FROM THE APPROVED MATERIALS LIST. NEW CONCRETE SHALL BE TYPE E AND SHALL OBTAIN 3500 PSI COMPRESSIVE STRENGTH PRIOR TO OPENING TO TRAFFIC. NEW CONCRETE SHALL RECEIVE A TINE FINISH. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AS SHOWN IN "STEP 2" AND DETAIL "A".
3. WHEN REPAIRING AN EXPANSION JOINT IN PHASES, LEAVE 6" OF EXPOSED 401 BAR AT THE CONSTRUCTION JOINT FOR THE ATTACHMENT OF MECHANICAL SPLICES. LEAVE 3" CLEAR COVER AT THE ENDS OF 401 BARS.
4. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE RELIEF JOINT SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."

STATE OF LOUISIANA
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10/12/16

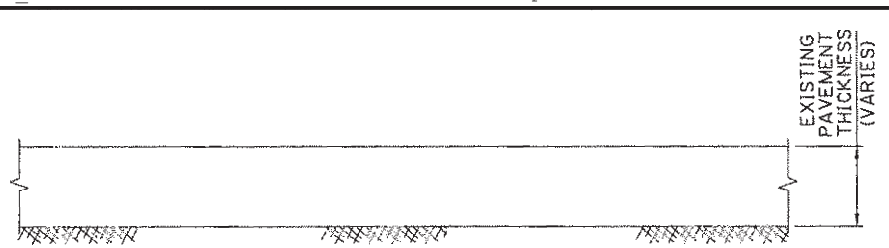
BRIDGE AND STRUCTURAL DESIGN

PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS
EXISTING EJ-4" PAVEMENT RELIEF JOINT
BD.2.9.1.0.02 - PREVENTIVE MAINTENANCE

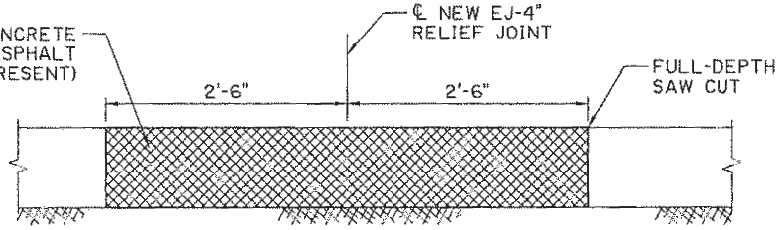
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DESIGNED	A.LANCASTER	PARISH	
CHECKED	X. WANG		
DETAILED	A.LANCASTER	CONTROL SECTION	
CHECKED	R. MORVANT		
REVIEWED	Z.Z. FU	STATE PROJECT	
SERIES #	2 OF 4		

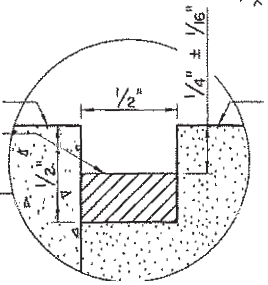
SHEET NUMBER



EXISTING CONCRETE PAVEMENT
(N.T.S.)

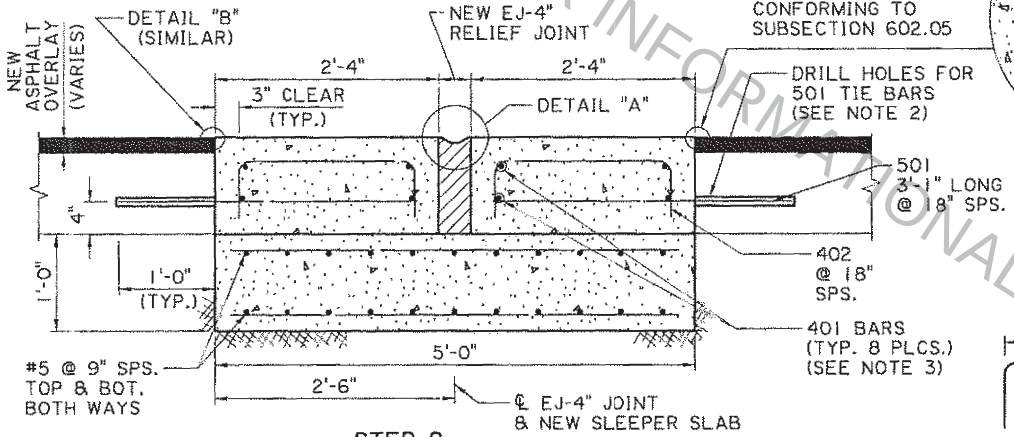


STEP 1
(PAVEMENT DEMO, SEE NOTE 2)
(N.T.S.)



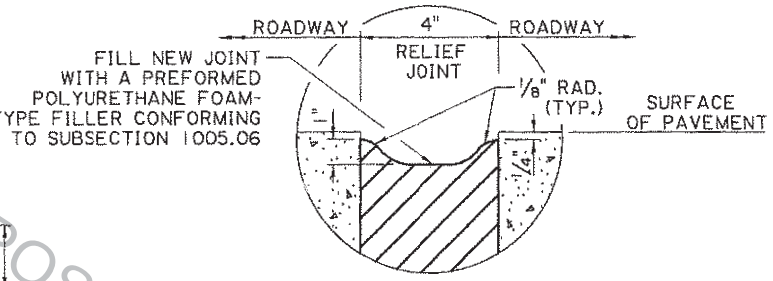
DETAIL B
(N.T.S.)

℄ NEW EJ-4" RELIEF JOINT



STEP 2
(NEW EJ-4" RELIEF JOINT AT PAVEMENT WITH ASPHALT OVERLAY)
(N.T.S.)

402
(2"ø PIN)



DETAIL A
(NEW INSTALLED FOAM FILLER)
(N.T.S.)

NOTES:

1. THIS PLAN IS APPLICABLE FOR THE CONSTRUCTION OF NEW 4" RELIEF JOINTS IN EXISTING CONCRETE PAVEMENT WITH ASPHALT OVERLAY.
2. INSTALLATION PROCESS: SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLAB AND EXISTING ASPHALT OVERLAY, IF PRESENT, AS SHOWN IN "STEP 1". INSTALL SLEEPER SLAB WITH #5 DEFORMED BARS AS SHOWN IN "STEP 1". DEFORMED TIE BARS (501) SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES LARGER THAN THE BAR DIAMETER (1/8" WHEN EPOXY IS USED, 1/2" WHEN A CEMENTITIOUS GROUT ANCHOR SYSTEM IS USED, AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WHEN ADHESIVE ANCHOR SYSTEMS ARE USED.) HOLES SHALL BE CLEAN AND MOISTURE FREE PRIOR TO PLACEMENT OF ANCHOR SYSTEM. ANCHOR SYSTEM INJECTION SHALL BE SUFFICIENT TO FILL THE VOID BETWEEN THE BAR AND THE HOLE, AS EVIDENCED BY MATERIAL SQUEEZE-OUT WHEN THE BAR IS INSERTED. PREVENT BARS FROM BEING DISTURBED UNTIL ANCHOR SYSTEM HAS SUFFICIENTLY CURED. PRIOR TO PLACING NEW CONCRETE, THE FACES OF EXISTING CONCRETE SHALL BE COATED WITH AN EPOXY RESIN TYPE II, GRADE B OR C FROM THE APPROVED MATERIALS LIST. NEW CONCRETE SHALL BE TYPE E AND SHALL OBTAIN 3500 PSI COMPRESSIVE STRENGTH PRIOR TO OPENING TO TRAFFIC. NEW CONCRETE SHALL RECEIVE A TINE FINISH. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AS SHOWN IN "STEP 2" AND DETAIL "A".
3. WHEN REPAIRING AN EXPANSION JOINT IN PHASES, LEAVE 6" OF EXPOSED 401 BAR AT THE CONSTRUCTION JOINT FOR THE ATTACHMENT OF MECHANICAL SPLICES. LEAVE 3" CLEAR COVER AT THE ENDS OF 401 BARS.
4. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE RELIEF JOINT SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."

STATE OF LOUISIANA
ADAM LANCASTER
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IN
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10/12/16

BRIDGE AND STRUCTURAL DESIGN

DOTD

PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS

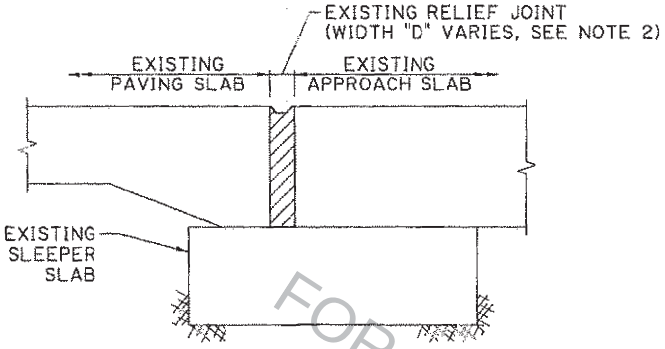
NEW EJ-4" PAVEMENT RELIEF JOINT

BD.2.9.1.0.03 - PREVENTIVE MAINTENANCE

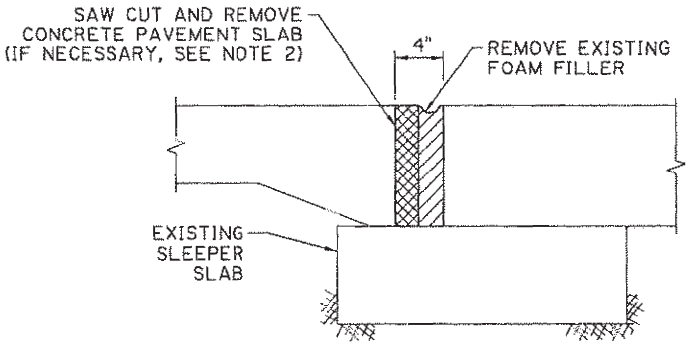
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DESIGNED	A.LANCASTER	PARISH	
CHECKED	X. WANG		
DETAILED	A.LANCASTER	CONTROL SECTION	
CHECKED	R. MORVANT		
REVIEWED	Z.Z. FU	STATE PROJECT	
SERIES #	3 OF 4		

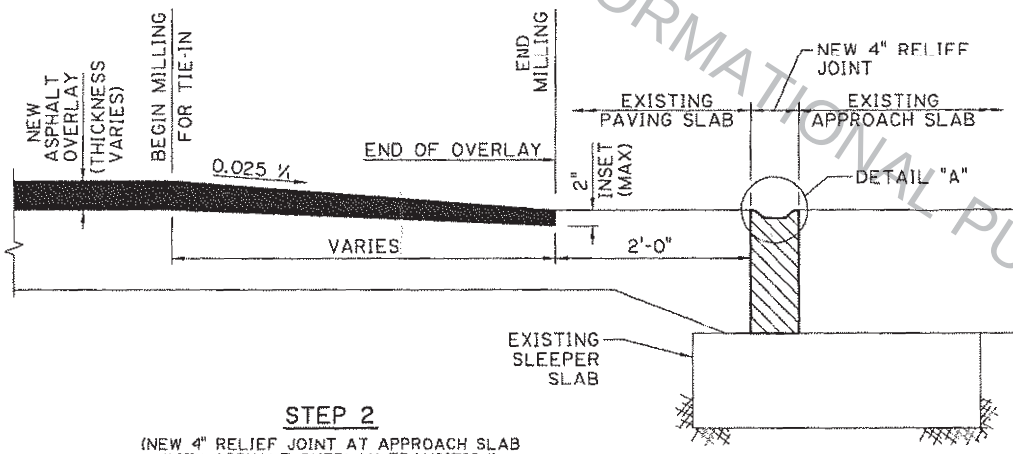
SHEET NUMBER



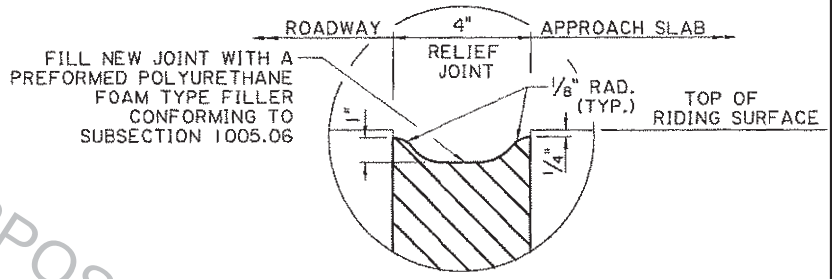
EXISTING RELIEF JOINT IN CONC. PAVEMENT AT APPROACH SLAB
(N.T.S.)



STEP 1
(PAVEMENT DEMO, SEE NOTE 2)
(N.T.S.)



STEP 2
(NEW 4" RELIEF JOINT AT APPROACH SLAB
WITH ASPHALT OVERLAY TRANSITION)
(N.T.S.)



DETAIL A
(NEW INSTALLED FOAM FILLER)
(N.T.S.)

NOTES:

1. THIS PLAN IS APPLICABLE FOR THE REHABILITATION OF EXISTING 4" RELIEF JOINTS IN CONCRETE PAVEMENT AT THE END OF THE BRIDGE APPROACH SLAB, AS SHOWN IN THE BRIDGE DESIGN SPECIAL DETAILS FOR APPROACH SLABS.
2. IF THE WIDTH OF THE RELIEF JOINT ("D") IS 2" OR LESS, OR IF THE EXISTING FOAM JOINT FILLER IS DETERIORATED OR TORN, THEN REHABILITATION OF THE RELIEF JOINT IS REQUIRED. REMOVE THE EXISTING FOAM FILLER. SAWCUT AND REMOVE EXISTING CONCRETE PAVING SLAB AS NEEDED TO REESTABLISH 4" OPENING, AS SHOWN IN "STEP 1". VERTICAL SIDES OF JOINT OPENING MUST BE PARALLEL WITH RESPECT TO EACH OTHER, AND MUST BE PERPENDICULAR WITH RESPECT TO THE SLEEPER SLAB. DEMO PAVEMENT SLAB ONLY. DO NOT SAW CUT/DEMO THE APPROACH SLAB. JOINT OPENING AND VERTICAL EDGES OF SLABS MUST BE FREE OF DEBRIS BEFORE INSTALLATION OF NEW JOINT FILLER. FILL NEW JOINT OPENING WITH FULL-DEPTH FOAM FILLER AND TRANSITION ASPHALT OVERLAY AS SHOWN IN "STEP 2" AND DETAIL "A".
3. BASIS OF PAYMENT: ALL WORK ASSOCIATED WITH THE EXPANSION JOINT SHALL BE PAID FOR UNDER ITEM NS-602-00011, "EXPANSION JOINT REHABILITATION."

STATE OF LOUISIANA
ADAM LANCASTER
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10/12/16

BRIDGE AND STRUCTURAL DESIGN

PAVEMENT EXPANSION JOINT REHAB FOR OVERLAY PROJECTS
4" EXPANSION JOINT @ APPROACH SLAB
BD.2.9.1.0.04 - PREVENTIVE MAINTENANCE

NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY

DESIGNED	A.LANCASTER	PARISH	
CHECKED	X. WANG		
DETAILED	A.LANCASTER	CONTROL SECTION	
CHECKED	R. MORVANT		
REVIEWED	Z.Z. FU	STATE PROJECT	
SERIES #	4 OF 4		

SHEET NUMBER