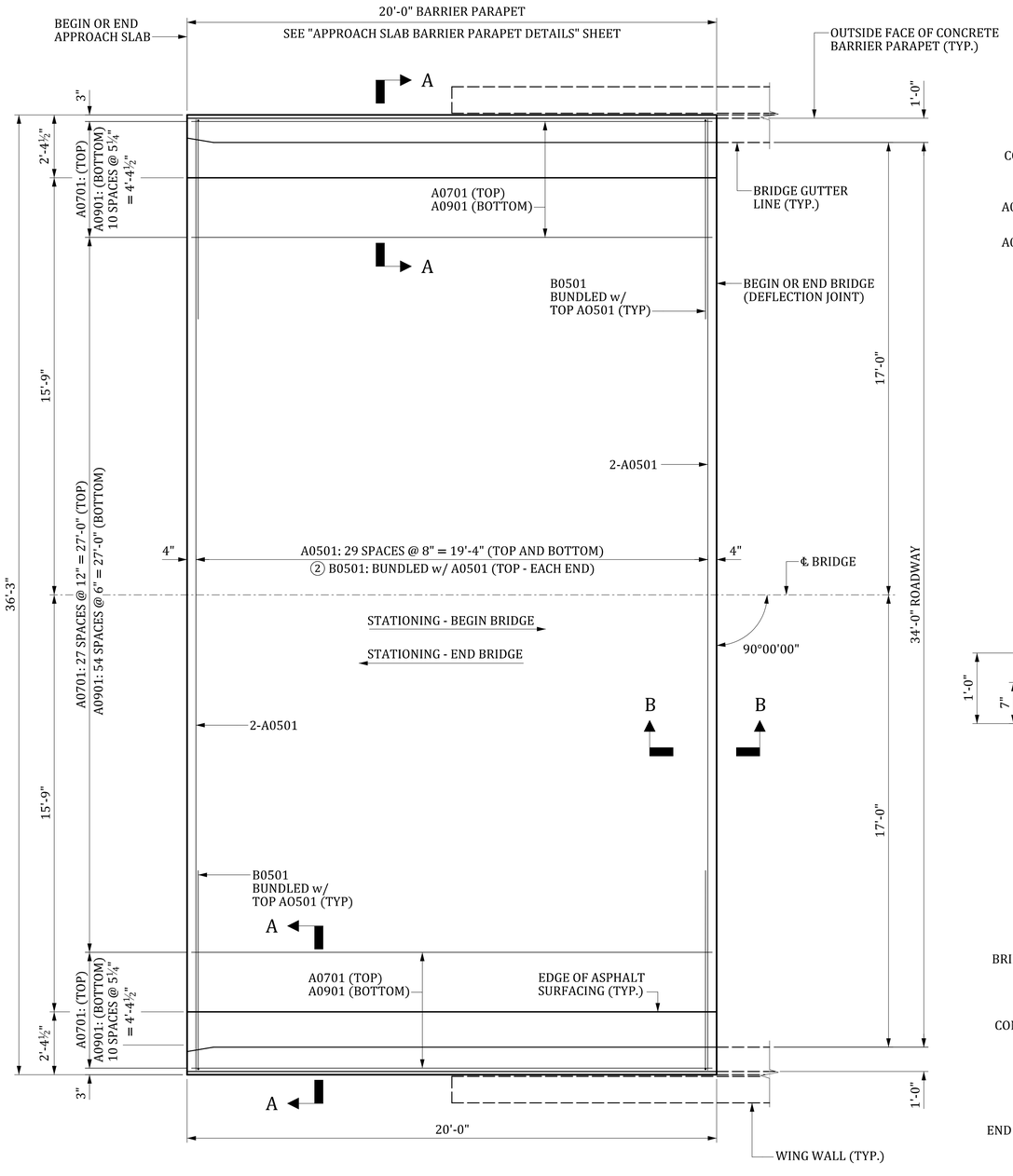
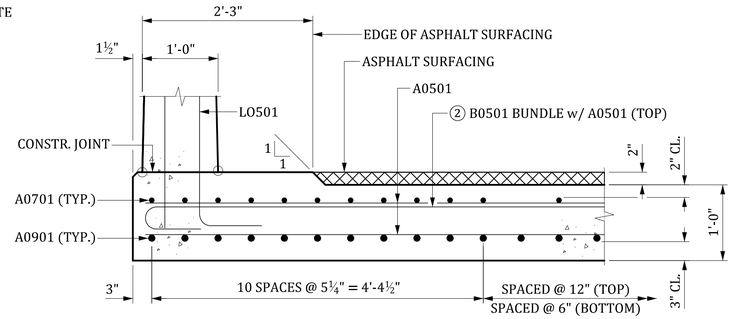
BRIDGE PLANS ID	SHEET
####-####	####



PLAN



SECTION A-A

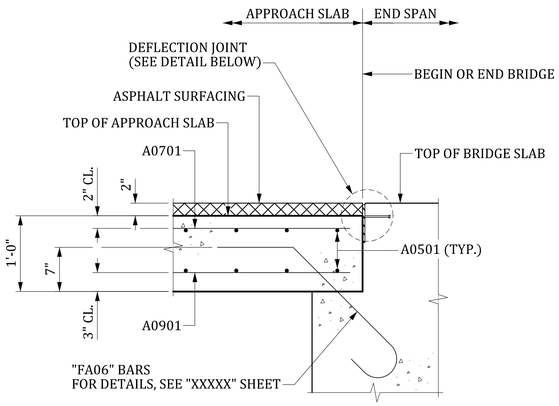
"A05" BARS AND "J05" BAR IN BARRIER NOT SHOWN.

REINFORCING STEEL SCHEDULE

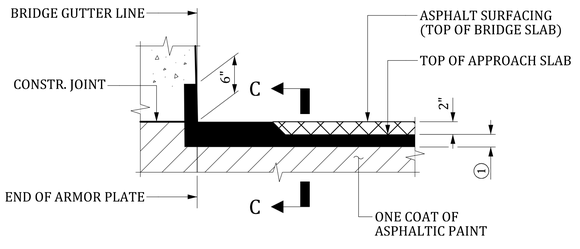
MARK	NO. REQ'D	DIMENSION "a"	"b"	"c"	"d"	"e"	LENGTH
A0501	60	35'-11"	——	——	——	——	35'-11"
A0502	20	19'-8"	——	——	——	——	19'-8"
A0701	48	19'-8"	——	——	——	——	19'-8"
A0901	75	19'-8"	——	——	——	——	19'-8"
B0501	60	6'-6"	7"	——	——	——	7'-1"
J0501	62	5½"	3'-3"	——	——	——	7'-0"
J0502	6	5½"	3'-1"	——	——	——	6'-8"
J0503	6	5½"	2'-10½"	——	——	——	6'-3"
J0504	6	5½"	2'-8"	——	——	——	5'-10"
L0501	80	10"	3'-0'	6¼"	3'-0"	——	7'-5"
U0501	2	2'-0"	5"	——	——	——	4'-2"
CHCU	3¾" HEIGHT	AS NECESSARY					

ESTIMATED QUANTITIES

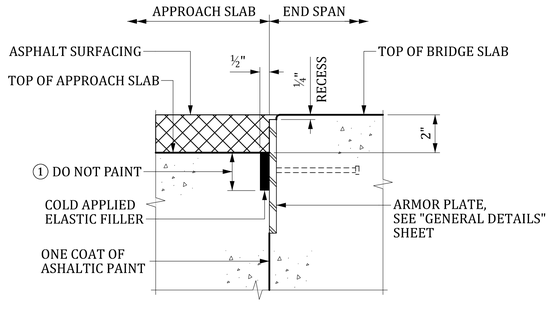
ITEM	UNIT	ONE APPROACH SLAB
2.0" SCHEDULE 80 PVC CONDUIT	LF	82.0
CONCRETE, CLASS 4000	CY	27.5
REINFORCING STEEL	LB	11,245
MASH BARRIER PARAPET	LF	40.0



SECTION B-B



SECTION ALONG DEFLECTION JOINT



SECTION C-C

NOTES:

CONSTRUCT APPROACH SLABS TO THE GRADES AND ELEVATIONS SHOWN ON THE "BRIDGE PLAN AND PROFILE" SHEET. CONSTRUCT APPROACH SLABS TO THE SAME CROWN AS THE BRIDGE DECK.

GRADE FILL UNDER APPROACH SLABS TO A UNIFORM SURFACE 1'-2" BELOW THE FINISHED SURFACE OF ROADWAY. THOROUGHLY COMPACT FILL UNDER THE APPROACH SLAB IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. INCLUDE ALL COSTS ASSOCIATED WITH COMPACTION OF FILL BENEATH APPROACH SLAB TO NOT LESS THAN 95% OF MAXIMUM DENSITY IN THE UNIT PRICE BID FOR CONCRETE FOR STRUCTURES - CLASS 4000.

SUPPORT THE BOTTOM MAT OF REINFORCING STEEL USING CONCRETE BLOCK OR SIMILAR MATERIAL. PROVIDE A MINIMUM CONCRETE COVER OF 3" BELOW THE BOTTOM REINFORCING STEEL.

SPACE CHCU BOLSTERS TO PROVIDE ADEQUATE SUPPORT FOR TOP REINFORCING STEEL, APPROXIMATELY 2'-6" ON CENTER AND PARALLEL TO CENTERLINE OF APPROACH SLAB. WEIGHT OF BAR SUPPORTS IS NOT INCLUDED IN THE REINFORCING STEEL QUANTITIES. CONSIDER BAR SUPPORTS AS INCIDENTAL TO THE REINFORCING STEEL, AND INCLUDE ALL COSTS FOR FURNISHING AND PLACING BAR SUPPORTS IN THE UNIT PRICE BID FOR REINFORCING STEEL.

① SET THIS DIMENSION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

② ROTATE HOOK TO MAINTAIN CLEARANCES.

DEFLECTION JOINT NOTES:

FORM OR SAW CUT THE DEFLECTION JOINT.

APPLY ONE COAT OF ASPHALTIC PAINT TO THE JOINT TO PREVENT BONDING OF END SPAN AND APPROACH SLAB CONCRETE. ALTERNATE METHODS TO PREVENT BONDING MAY BE PROPOSED. SUBMIT DETAILS OF BOND BREAKING METHOD TO RCE FOR APPROVAL.

INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING COLD APPLIED ELASTIC FILLER IN THE UNIT PRICE BID FOR CONCRETE FOR STRUCTURES - CLASS 4000.

DEFLECTION JOINT DETAIL

REVIEWED			
QUAN.	GCM	MWB	03-24
DR.	GCM	MWB	03-24
DES.	DPP	SJA	03-24
	BY	CHK.	DATE

REV.				
REV.				
REV.				
	BY	CHK.	DATE	DESCRIPTION OF REVISION

MBreeland 6/27/2024 5:50:50 PM 702_APP_SLABS.dgn

CONSULTANT NAME/LOGO

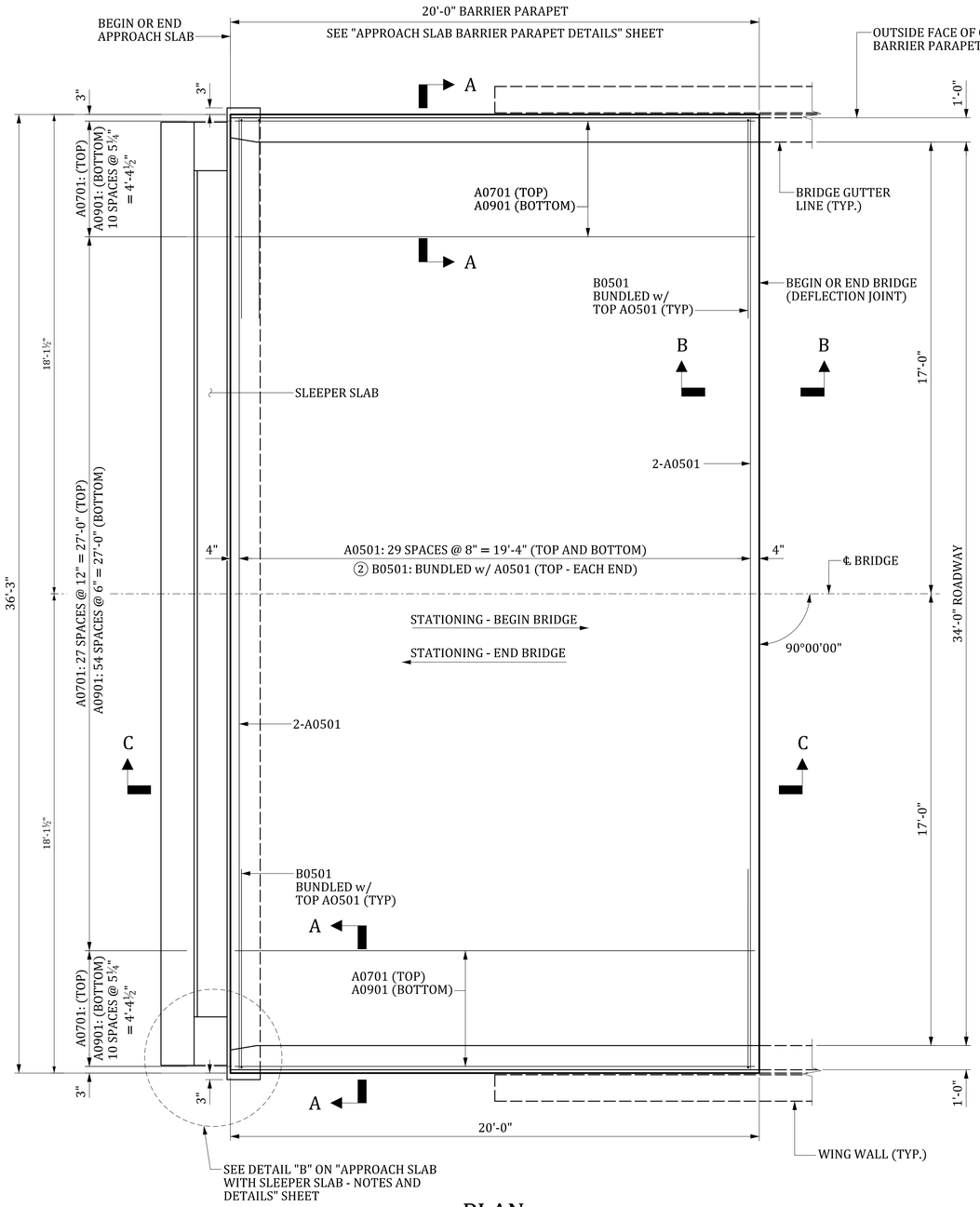
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

APPROACH SLAB
(34' ROADWAY)

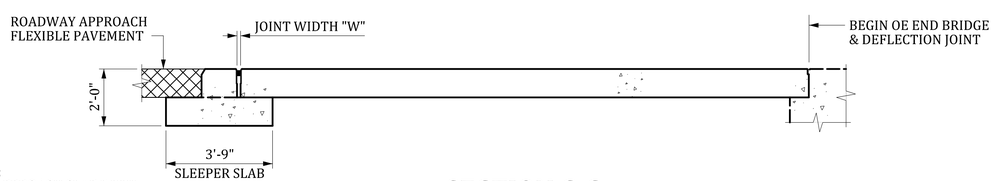
COUNTY: ####	ROUTE: ####

DRAWING NUMBER: 702-AS.R34.01

BRIDGE PLANS ID	SHEET
####-####	####



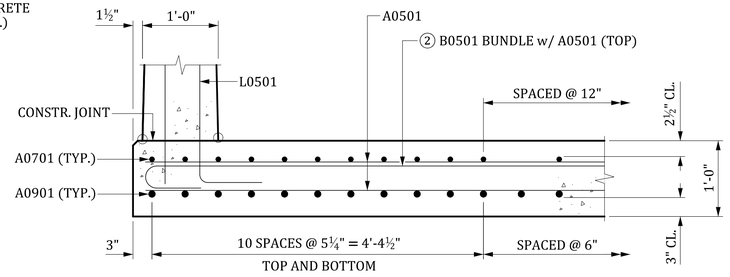
PLAN



NOTE:
SEE "APPROACH SLAB WITH SLEEPER SLAB - NOTES AND DETAILS" SHEET.

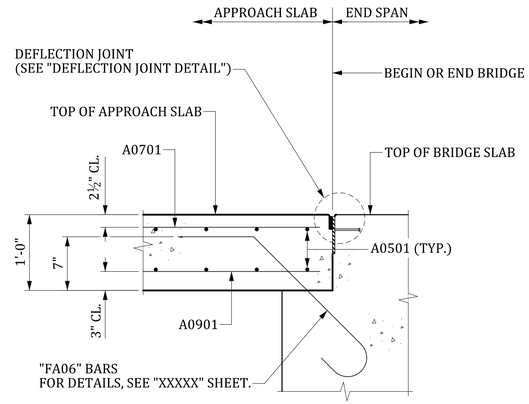
SECTION C-C

REINFORCING NOT SHOWN.

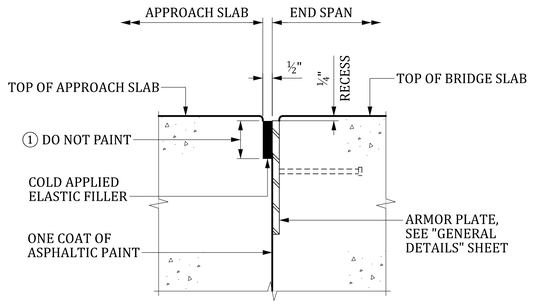


SECTION A-A

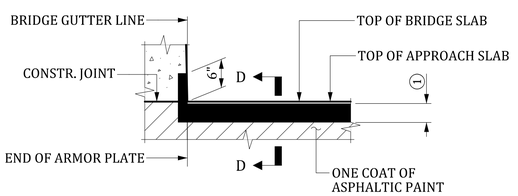
"A05" BARS AND "J05" BAR IN BARRIER NOT SHOWN



SECTION B-B



SECTION D-D



SECTION ALONG DEFLECTION JOINT

DEFLECTION JOINT NOTES:

FORM OR SAW CUT THE DEFLECTION JOINT.

APPLY ONE COAT OF ASPHALTIC PAINT TO THE JOINT TO PREVENT BONDING OF END SPAN AND APPROACH SLAB CONCRETE. ALTERNATE METHODS TO PREVENT BONDING MAY BE PROPOSED. SUBMIT DETAILS OF BOND BREAKING METHOD TO RCE FOR APPROVAL.

INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING COLD APPLIED ELASTIC FILLER IN THE UNIT PRICE BID FOR CONCRETE FOR STRUCTURES - CLASS 4000.

DEFLECTION JOINT DETAIL

REINFORCING STEEL SCHEDULE

	MARK	NO. REQ'D	DIMENSION "a"	"b"	"c"	"d"	"e"	LENGTH
APPROACH SLAB	A0501	60	35'-11"	——	——	——	——	35'-11"
	A0502	20	19'-8"	——	——	——	——	19'-8"
	A0701	48	19'-8"	——	——	——	——	19'-8"
	A0901	75	19'-8"	——	——	——	——	19'-8"
	B0501	60	6'-6"	7"	——	——	——	7'-1"
	J0501	62	5½"	3'-3"	——	——	——	7'-0"
	J0502	6	5½"	3'-1"	——	——	——	6'-8"
	J0503	6	5½"	2'-10½"	——	——	——	6'-3"
	J0504	6	5½"	2'-8"	——	——	——	5'-10"
	L0501	80	10"	3'-0'	6¼"	3'-0"	——	7'-5"
	U0501	2	2'-0"	5"	——	——	——	4'-2"
	CHCU	3¼" HEIGHT	AS NECESSARY					
SLEEPER SLAB	A0401	4	3'-5"	——	——	——	——	3'-5"
	A0601	4	36'-5"	——	——	——	——	36'-5"
	A0602	8	35'-2"	——	——	——	——	35'-2"
	A0603	2	31'-2"	——	——	——	——	31'-2"
	SC0501	54	3'-5"	7"	6"	——	——	9'-0"
	SC0502	2	11"	7"	6"	——	——	4'-0"
	SC0503	48	11"	1'-7"	6"	——	——	6'-0"
	SC0504	6	11"	1'-1"	6"	——	——	5'-0"

ESTIMATED QUANTITIES

ITEM	UNIT	ONE APPROACH SLAB	ONE SLEEPER SLAB
2.0" SCHEDULE 80 PVC CONDUIT	LF	82.0	——
CONCRETE, CLASS 4000	CY	26.9	6.6
COMPRESSION SEAL JOINT	LF	——	35.5
GROOVED SURFACE FINISH	SY	70	——
REINFORCING STEEL	LB	11,245	1,591
MASH BARRIER PARAPET	LF	40.0	——

NOTES:

① SET THIS DIMENSION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

② ROTATE HOOK TO MAINTAIN CLEARANCES.

FOR ADDITIONAL NOTES, SEE "APPROACH SLAB WITH SLEEPER SLAB - DETAILS" SHEET.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB WITH SLEEPER SLAB
(34'-0" ROADWAY)

COUNTY: ####

ROUTE: ####

DRAWING NUMBER: 702-AS.R34.02

REVIEWED			
QUAN.	GCM	MWB	03-24
DR.	GCM	MWB	03-24
DES.	DPP	SJA	03-24
	BY	CHK.	DATE

REV.					
REV.					
REV.					
		BY	CHK.	DATE	DESCRIPTION OF REVISION

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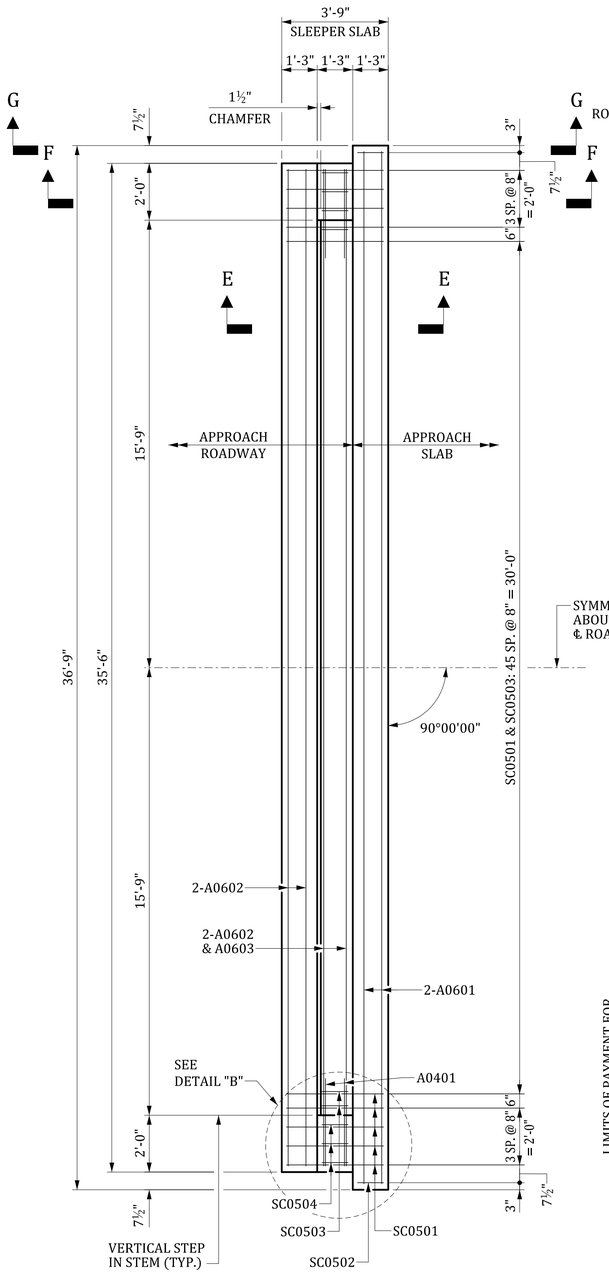
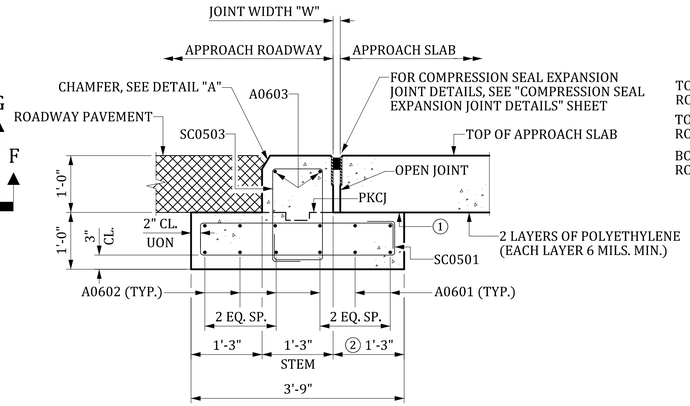
BRIDGE PLANS ID	SHEET
####-####	####

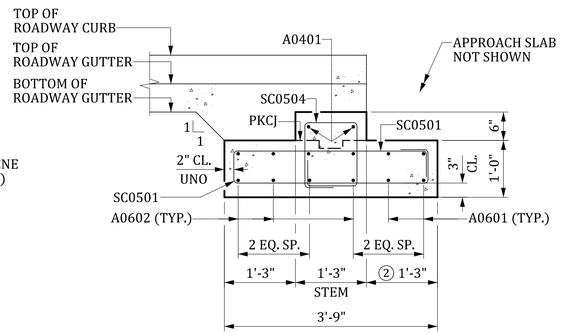


PLAN OF SLEEPER SLAB

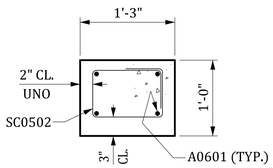
APPROACH SLAB AND APPROACH ROADWAY NOT SHOWN.



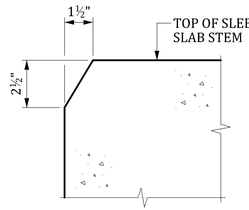
SECTION E-E



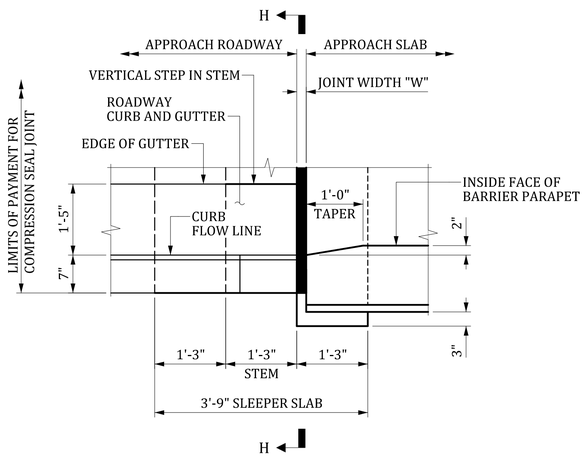
SECTION F-F



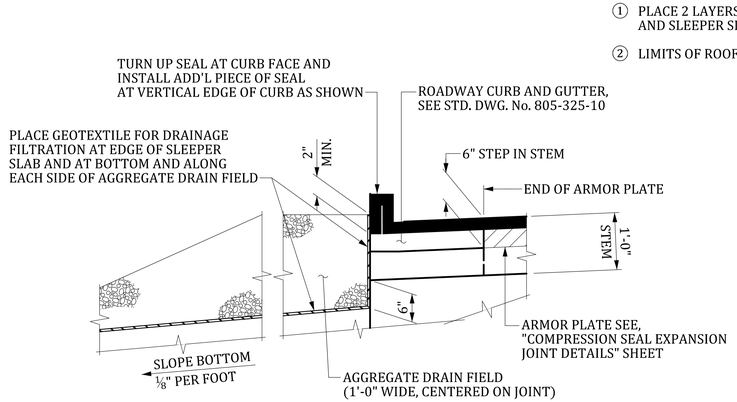
SECTION G-G



DETAIL "A"



DETAIL "B"



SECTION H-H

NOTES:

CONSTRUCT APPROACH SLABS TO THE GRADES AND ELEVATIONS SHOWN ON THE "BRIDGE PLAN AND PROFILE" SHEET. CONSTRUCT APPROACH SLABS TO THE SAME CROWN AS THE BRIDGE DECK.

CAREFULLY EXCAVATE FOR SLEEPER SLABS AFTER COMPACTED END BENT EMBANKMENT IS IN PLACE. FOUND THE SLEEPER SLABS ON UNDISTURBED COMPACTED MATERIAL OR RECOMPACTED MATERIAL. DO NOT PERMIT LOOSE BACKFILL. GRADE FILL UNDER APPROACH SLABS TO A UNIFORM SURFACE 1'-0" BELOW THE FINISHED SURFACE OF ROADWAY. THOROUGHLY COMPACT FILL UNDER THE APPROACH AND SLEEPER SLABS IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. INCLUDE ALL COSTS ASSOCIATED WITH COMPACTION OF FILL BENEATH APPROACH AND SLEEPER SLABS TO NOT LESS THAN 95% OF MAXIMUM DENSITY IN THE UNIT PRICE BID FOR CONCRETE FOR STRUCTURES - CLASS 4000.

TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF THE APPROACH SLAB, ACCURATELY CONTROL THE SURFACE OF THE SUBBASE COURSE TO FOLLOW AND BE PARALLEL TO THE ROADWAY GRADE AND THE CROSS SLOPE. PRIOR TO PLACEMENT OF THE REINFORCEMENT, PLACE TWO LAYERS OF POLYETHYLENE BOND BREAKER AT THE BOTTOM OF THE APPROACH SLAB FOR THE FULL LENGTH AND WIDTH OF THE APPROACH SLAB. PROVIDE BOND BREAKER THAT IS 6 MIL. (MIN.) THICK, AND PROVIDE 2'-0" (MIN.) LAPS.

SUPPORT THE BOTTOM MAT OF REINFORCING STEEL USING CONCRETE BLOCK OR SIMILAR MATERIAL. PROVIDE A MINIMUM CONCRETE COVER OF 3" BELOW THE BOTTOM REINFORCING STEEL.

SPACE CHCU BAR SUPPORTS TO PROVIDE ADEQUATE SUPPORT FOR TOP REINFORCING STEEL, APPROXIMATELY 2'-6" ON CENTER AND PARALLEL TO CENTERLINE OF APPROACH SLAB. WEIGHT OF BAR SUPPORTS IS NOT INCLUDED IN THE REINFORCING STEEL QUANTITIES. CONSIDER BAR SUPPORTS AS INCIDENTAL TO THE REINFORCING STEEL AND INCLUDE ALL COSTS FOR FURNISHING AND PLACING BAR SUPPORTS IN THE UNIT PRICE BID FOR REINFORCING STEEL.

TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE SLEEPER SLAB FROM TEMPORARY LOADINGS OR ANY CONDITION WHICH COULD CAUSE MOVEMENTS OR UNEVEN SETTLEMENT OF THE SLEEPER SLAB.

PROVIDE #789 AGGREGATE MEETING THE REQUIREMENTS OF SECTION 801 OF THE STANDARD SPECIFICATIONS FOR THE AGGREGATE DRAIN FIELD. PROVIDE GEOTEXTILE FOR DRAINAGE FILTRATION, CLASS 1 FABRIC (PROTECTED) IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATIONS.

THE UNIT PRICE BID FOR COMPRESSION SEAL JOINT INCLUDES ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING COMPRESSION SEALS (INCLUDING ANY EXTENSION TO ACCOMMODATE CURBS OR OTHER APPURTENANCES) AND ARMOR PLATES. FOR PAYMENT PURPOSES, MEASURE ALONG THE CENTERLINE OF JOINT FROM THE OUTSIDE EDGE OF CURB TO OUTSIDE EDGE OF CURB.

THE UNIT PRICE BID FOR CONCRETE FOR STRUCTURES - CLASS 4000 INCLUDES ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING ROOFING FELT PAPER, POLYETHYLENE, AGGREGATE DRAIN FIELD, AND GEOTEXTILE FABRIC.

UNO - UNLESS NOTED OTHERWISE

PKCJ - PERMISSIBLE KEYED CONSTRUCTION JOINT

① PLACE 2 LAYERS OF 30 LB. ROOFING FELT PAPER BETWEEN APPROACH SLAB AND SLEEPER SLAB.

② LIMITS OF ROOFING FELT PAPER

REVIEWED			
QUAN.	GCM	MWB	03-24
DR.	GCM	MWB	03-24
DES.	DPP	SJA	03-24
	BY	CHK.	DATE

REV.					
REV.					
REV.					
	BY	CHK.	DATE	DESCRIPTION OF REVISION	

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CONSULTANT NAME/LOGO

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

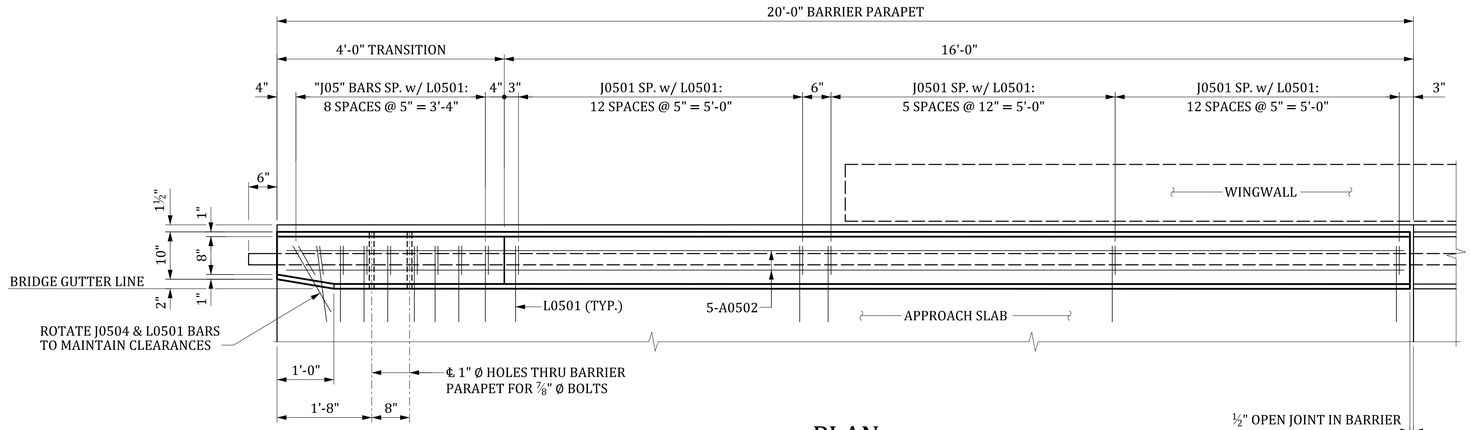
APPROACH SLAB WITH SLEEPER SLAB - NOTES AND DETAILS (34'-0" ROADWAY)

COUNTY: ####

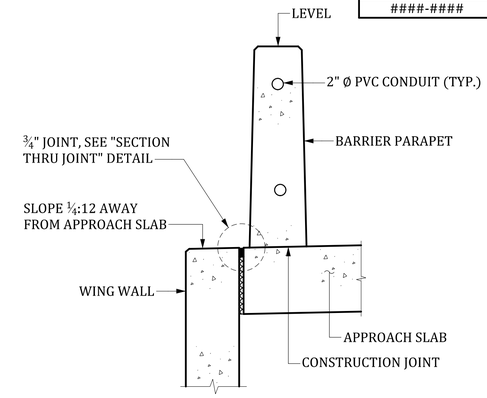
ROUTE: ####

DRAWING NUMBER: 702-AS.SSDTLS.R34.01

BRIDGE PLANS ID	SHEET
####-####	####



PLAN

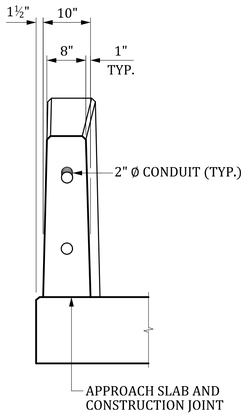


SECTION THRU WING WALL/APPROACH SLAB

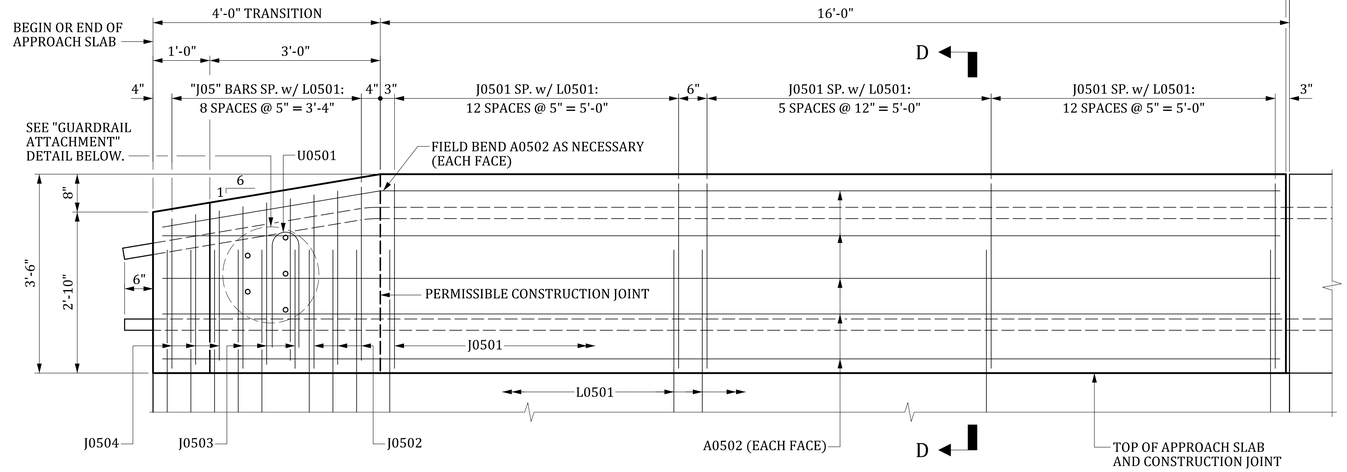
½" OPEN JOINT IN BARRIER

APPROACH SLAB | END SPAN

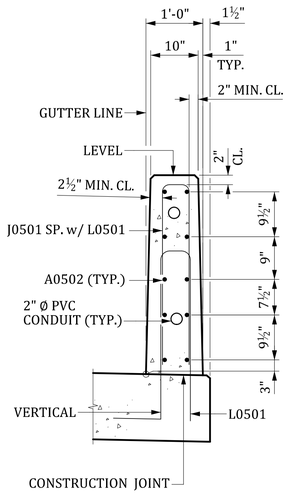
BEGIN OR END BRIDGE
(DEFLECTION JOINT)



END ELEVATION

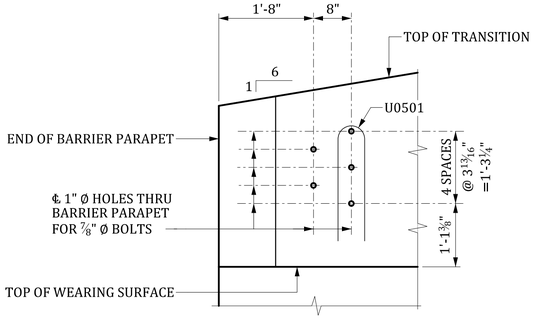


ELEVATION



SECTION D-D

SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.

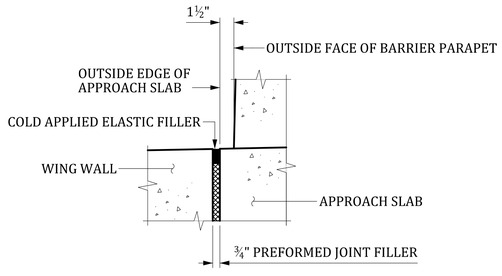


ELEVATION

GUARDRAIL ATTACHMENT

NOTE:

FORM THE 1" Ø HOLES WITH PLASTIC PIPE, PVC PIPE, OR GALVANIZED STANDARD WEIGHT STEEL PIPE HAVING AN I.D. OF 1". INCLUDE ALL COST OF PIPE AND INSTALLATION IN THE PRICE BID FOR REINFORCING STEEL. ALL PIPE TO REMAIN IN PLACE WHEN FORMS ARE REMOVED. RCE TO VERIFY LOCATION OF THE HOLES TO INSURE THAT THE GUARDRAIL SHOE WILL FIT PROPERLY WHEN INSTALLED.



SECTION THRU JOINT

NOTE:

IF THE CONTRACTOR ELECTS TO HAND FORM BARRIER PARAPET INSTEAD OF SLIP FORMING, CAST A UNIFORM 12" THICK BARRIER PARAPET. ENSURE THAT BOTH FACES OF PARAPET ARE CAST VERTICAL AND PARALLEL TO ONE ANOTHER. PERFORM THIS WORK AT NO ADDITIONAL EXPENSE TO THE DEPARTMENT. ALSO, NOTE ON AS-BUILT PLANS IF HAND FORMED BARRIER WAS UTILIZED.

REVIEWED			
QUAN.	GCM	MWB	03-24
DR.	GCM	MWB	03-24
DES.	DPP	SJA	03-24
	BY	CHK.	DATE

REV.				
REV.				
REV.				
	BY	CHK.	DATE	DESCRIPTION OF REVISION

MBreeland 6/27/2024 5:50:55 PM 702_APP_SLABS.dgn

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

CONSULTANT NAME/LOGO

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

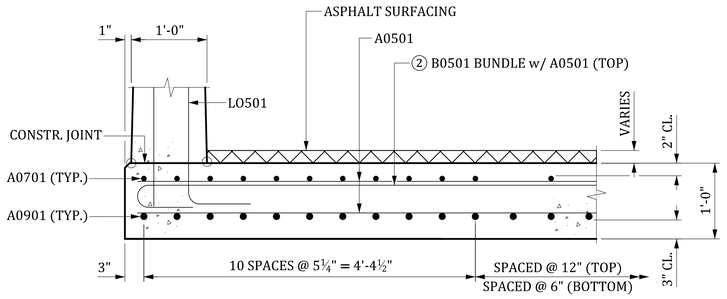
APPROACH SLAB BARRIER PARAPET DETAILS

COUNTY: ####

ROUTE: ####

DRAWING NUMBER: 702-AS.MBP.DTLS.01

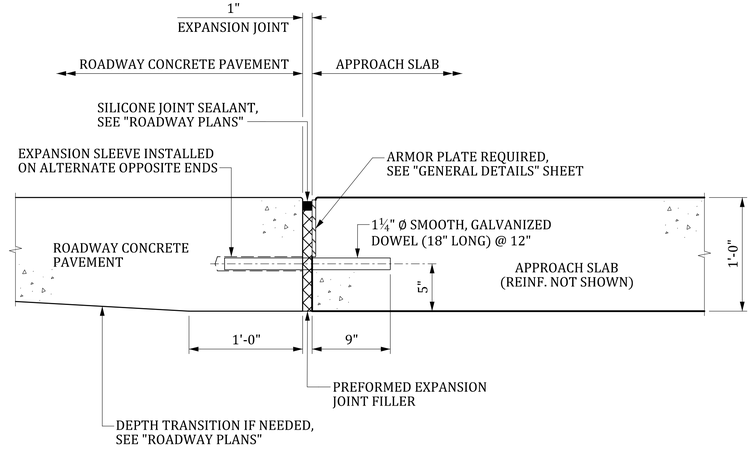
DETAIL TO BE USED WITH CORED SLAB END SPAN OR BOX BEAM END SPAN



SECTION A-A

"A05" BARS AND "J05" BAR IN BARRIER NOT SHOWN.

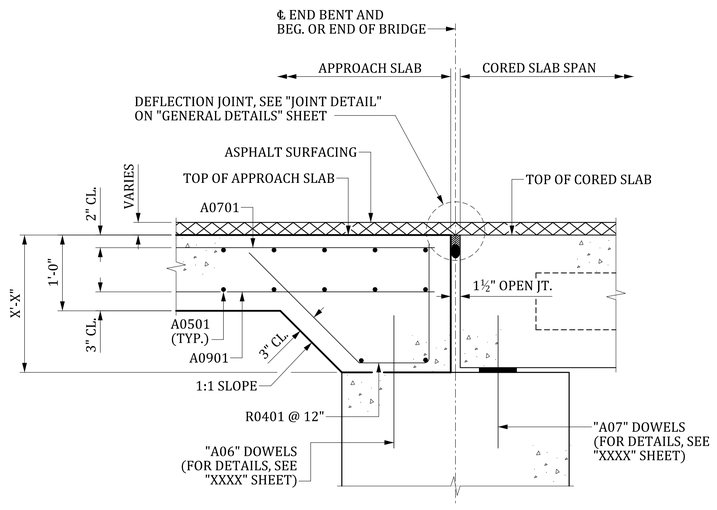
APPROACH ROADWAY CONCRETE PAVEMENT



EXPANSION JOINT DETAIL

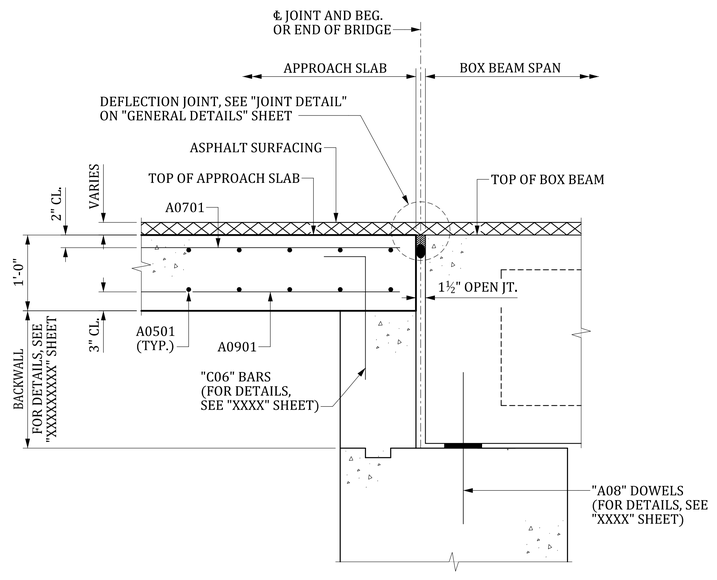
FOR APPROACH ROADWAY CONCRETE PAVEMENT

DETAIL TO BE USED WITH CORED SLAB END SPAN



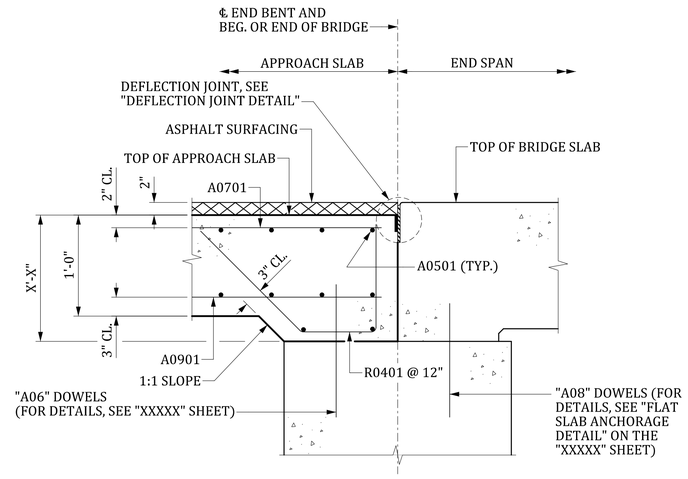
SECTION B-B

DETAIL TO BE USED WITH BOX BEAM END SPAN



SECTION B-B

DETAIL TO BE USED WITH FLAT SLAB END SPAN



SECTION B-B

DO NOT INSERT THIS SHEET INTO THE PLANS. REVISE THE APPROACH SLAB SHEET USING APPLICABLE DETAILS FROM THIS SHEET AS NECESSARY BASED ON BRIDGE TYPE.

THIS DRAWING IS FURNISHED FOR INFORMATION ONLY. ALL DIMENSIONS SHOWN ARE SHEET SPECIFIC. ANY USE OF THIS DESIGN AND DRAWING, INCLUDING DIMENSIONS, MUST BE CHECKED BY THE USER'S ENGINEER TO ENSURE DESIGN IS ADEQUATE FOR THE INTENDED USE. ALL DRAWINGS MUST BE SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER WHEN USED.

APPROACH SLAB DETAILS
SUPPLEMENTAL

DRAWING NUMBER: 702-AS.DTLS.SUP.01

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REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION
REV.				
REV.				

REVIEWED			
QUAN.	GCM	MWB	03-24
DR.	GCM	MWB	03-24
DES.	DPP	SJA	03-24
	BY	CHK.	DATE