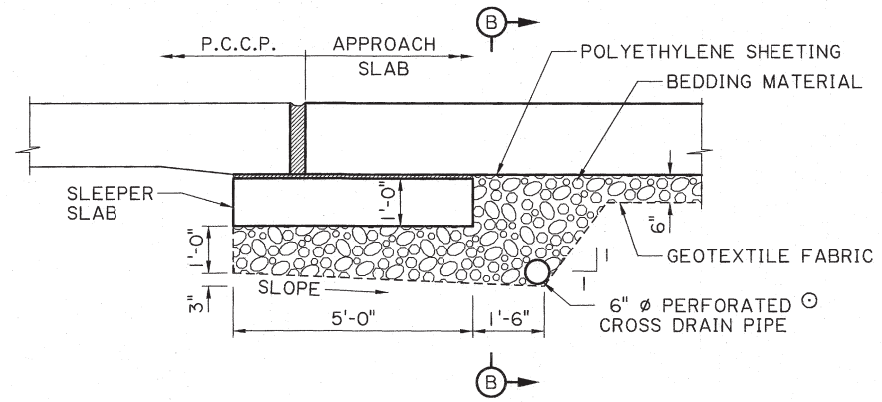
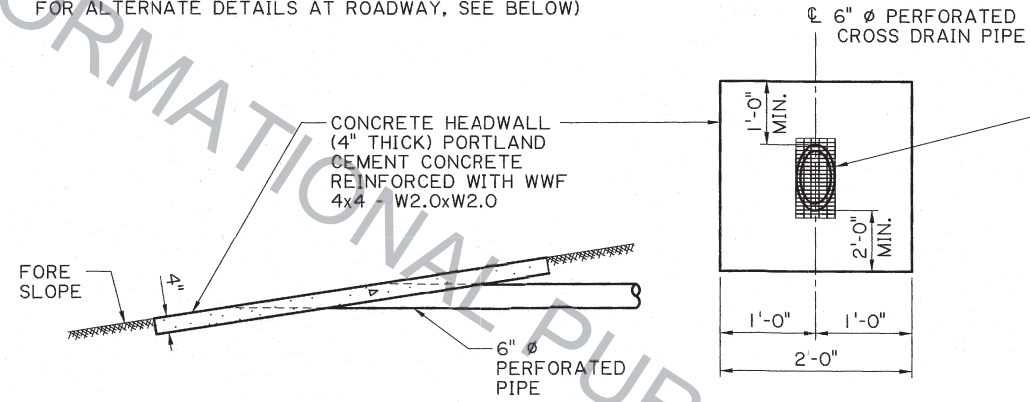


ELEVATION @ APPROACH SLAB
(SLAB SPAN BRIDGE SHOWN. QUAD BEAM DETAIL SIMILAR)
(ASPHALTIC CONCRETE ROADWAY SHOWN. FOR ALTERNATE DETAILS AT ROADWAY, SEE BELOW)

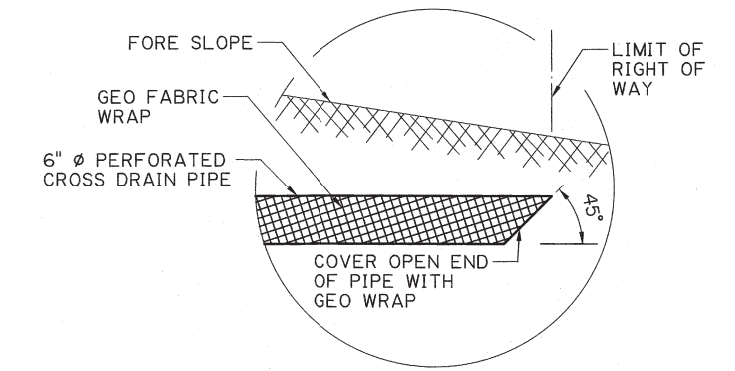
- NOTES:**
1. INSTALL POLYETHYLENE SHEETING (6 MIL. THICKNESS) BETWEEN THE BEDDING MATERIAL AND APPROACH SLAB. INSTALL GEOTEXTILE FABRIC DIRECTLY BELOW THE BEDDING MATERIAL. LIMITS SHALL BE THE OUTER EDGES OF THE APPROACH SLAB.
 2. UNDERDRAIN MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 813 OF THE STANDARD SPECIFICATIONS.
 3. LOW PERMEABLE MATERIAL SHALL BE DEFINED AS A SOIL HAVING THE SAME PI LIMITS AS PLASTIC SOIL BLANKETS, SEE SECTION 203.10.
 4. WRAP GEOTEXTILE FABRIC (CLASS C OR D) AROUND THE PERFORATED PIPE AS SHOWN.
 5. FOR ROADWAYS WITH A ONE-WAY TANGENT, THE 6" Ø CROSS DRAINAGE PIPE MAY SLOPE ONE-WAY WITH ONLY ONE CONCRETE HEADWALL AT THE LOWER END. PLUG THE HIGH END OF THE 6" Ø PIPE.
 6. CROSS DRAIN PIPE SHALL NOT EXCEED LIMITS OF RIGHT OF WAY (SEE DETAIL "A").
 7. APPROACH SLAB WITHOUT SLEEPER SLAB TO ONLY BE USED ON OFF-SYSTEM PROJECTS OR BY SPECIAL PERMISSION FROM THE BRIDGE DESIGN ADMINISTRATOR.



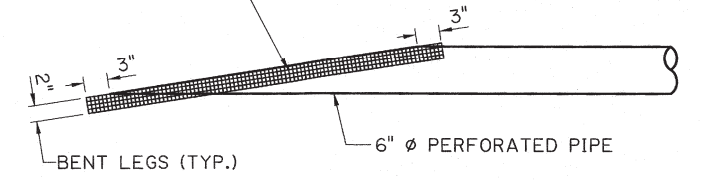
ALTERNATE DETAIL FOR P.C.C.P. ROADWAY



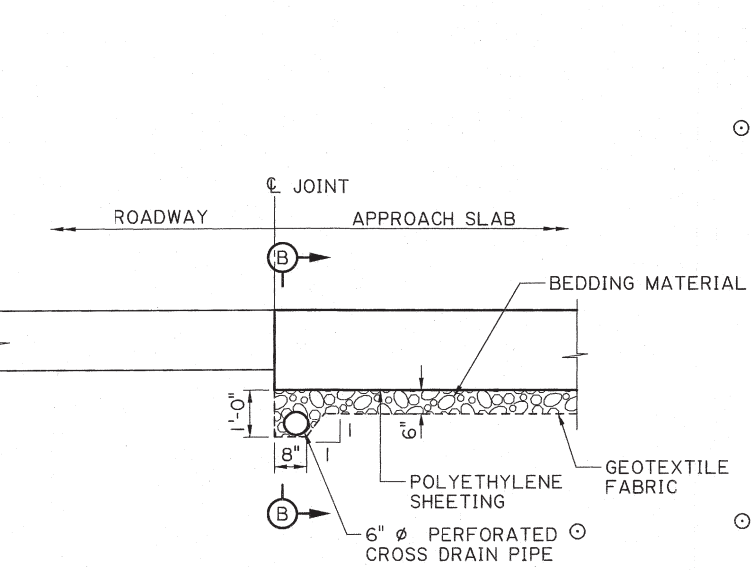
CONCRETE HEADWALL



DETAIL A

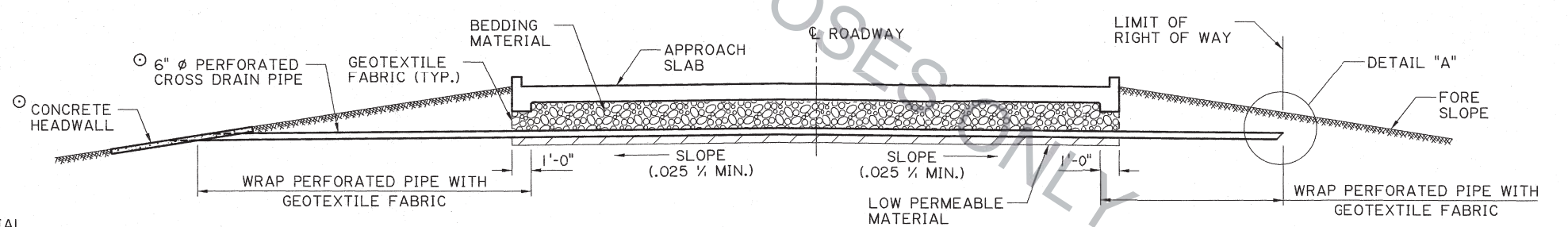


END TREATMENT FOR 6" PERFORATED CROSS DRAIN PIPES



ALTERNATE DETAIL FOR APPROACH SLAB WITHOUT SLEEPER SLAB

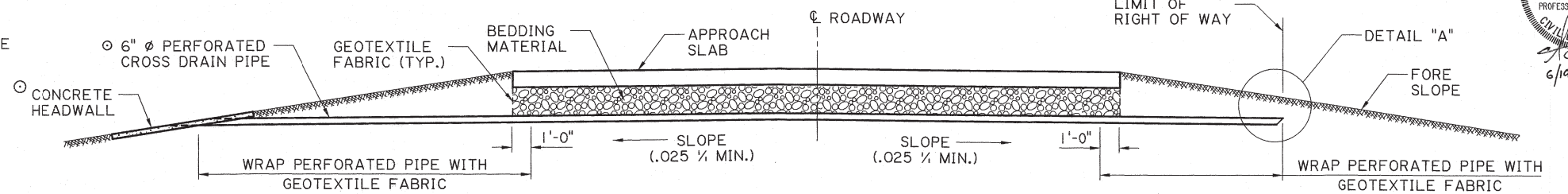
(NOTE: SECTION A-A ALSO APPLIES TO APPROACH SLABS WITHOUT A SLEEPER SLAB AND OFF-SYSTEM BRIDGES)



HALF-SECTION (WITH HEADWALL ON FORE SLOPE)

SECTION A-A

HALF-SECTION (AT LIMIT OF R.O.W.)



HALF-SECTION (WITH HEADWALL ON FORE SLOPE)

SECTION B-B

HALF-SECTION (AT LIMIT OF R.O.W.)

(ALL DETAILS ON THIS SHEET ARE N.T.S.)

SHEET NUMBER	1 OF 1
DESIGNED	A. LANCASTER
CHECKED	X. WANG
CONTROL SECTION	A. LANCASTER
REVIEWED	Z. Z. FU
STATE PROJECT	
PARISH	
NO.	
DATE	
REVISION OR CHANGE ORDER DESCRIPTION	
BY	



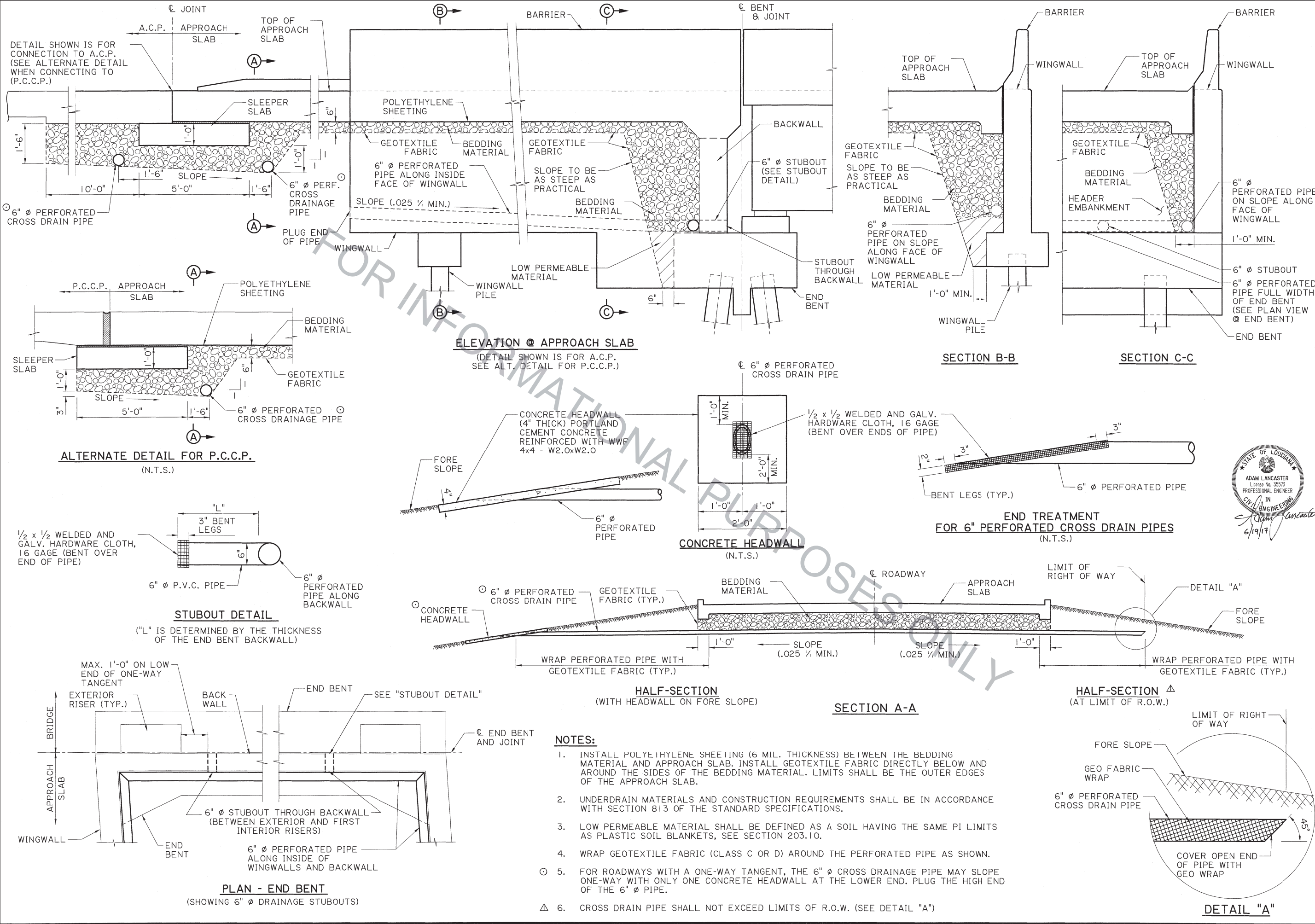
DRAINAGE DETAILS FOR CONCRETE APPROACH SLABS
SLAB SPANS AND QUAD BEAM BRIDGES
BD.2.10.1.0.07 - APPROACH SLAB COMMON



BRIDGE AND STRUCTURAL DESIGN

4/2/2018 14:18

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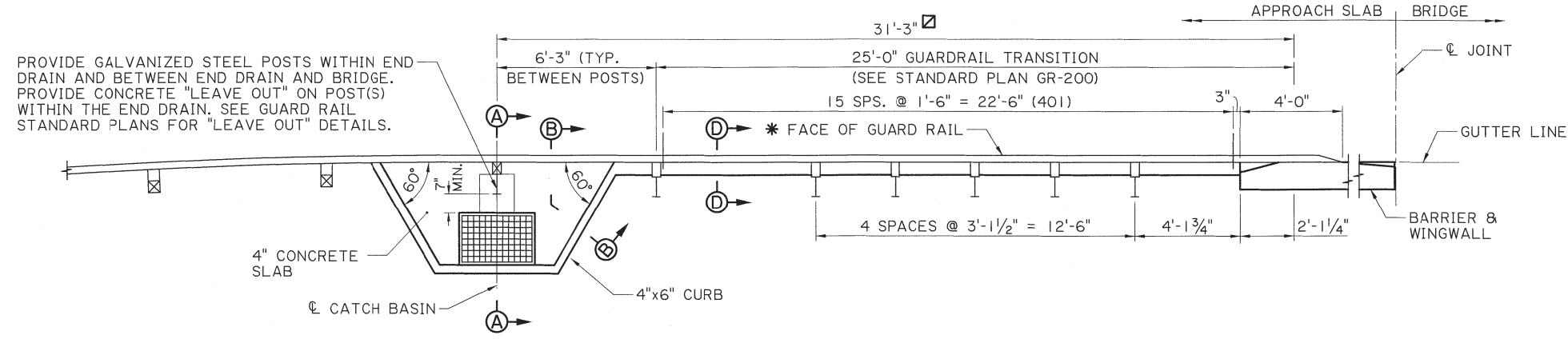
NOTES:

1. INSTALL POLYETHYLENE SHEETING (6 MIL. THICKNESS) BETWEEN THE BEDDING MATERIAL AND APPROACH SLAB. INSTALL GEOTEXTILE FABRIC DIRECTLY BELOW AND AROUND THE SIDES OF THE BEDDING MATERIAL. LIMITS SHALL BE THE OUTER EDGES OF THE APPROACH SLAB.
2. UNDERDRAIN MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 813 OF THE STANDARD SPECIFICATIONS.
3. LOW PERMEABLE MATERIAL SHALL BE DEFINED AS A SOIL HAVING THE SAME PI LIMITS AS PLASTIC SOIL BLANKETS, SEE SECTION 203.10.
4. WRAP GEOTEXTILE FABRIC (CLASS C OR D) AROUND THE PERFORATED PIPE AS SHOWN.
5. FOR ROADWAYS WITH A ONE-WAY TANGENT, THE 6" ϕ CROSS DRAINAGE PIPE MAY SLOPE ONE-WAY WITH ONLY ONE CONCRETE HEADWALL AT THE LOWER END. PLUG THE HIGH END OF THE 6" ϕ PIPE.
6. CROSS DRAIN PIPE SHALL NOT EXCEED LIMITS OF R.O.W. (SEE DETAIL "A")

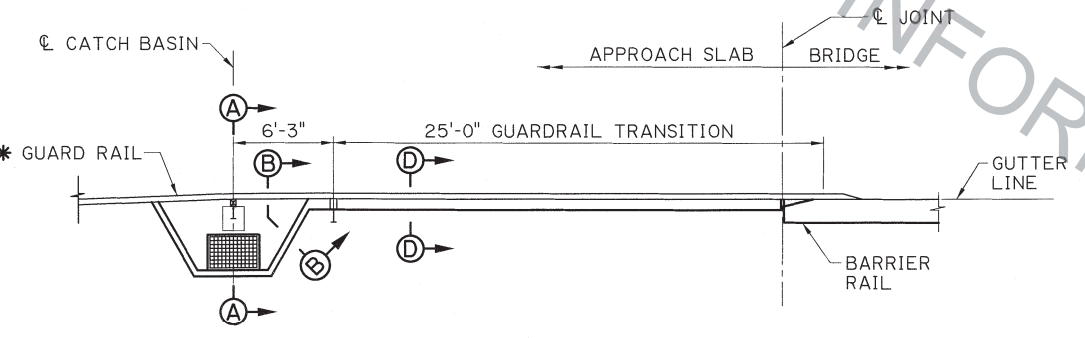
SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED A. LANCASTER	CHECKED X. WANG	DRAWN A. KUYORO	REVIEWED Z.Z. FU
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION



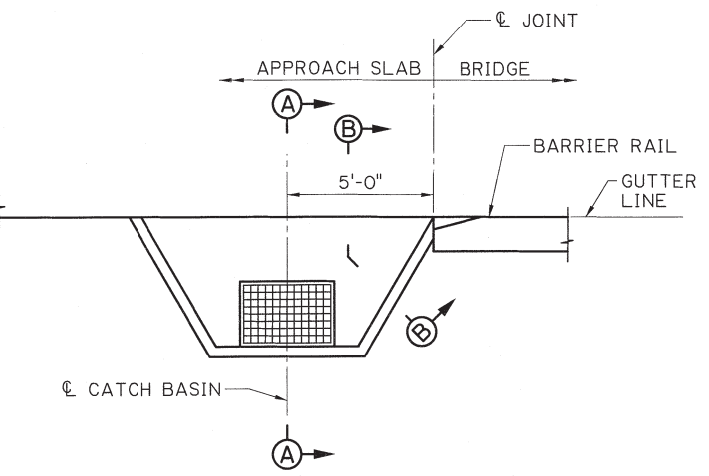
DRAINAGE DETAILS FOR CONCRETE APPROACH SLAB
 GIRDER SPANS EXCLUDING QUAD BEAMS
 BD.2.10.1.0.08 - APPROACH SLAB COMMON
 BRIDGE AND STRUCTURAL DESIGN



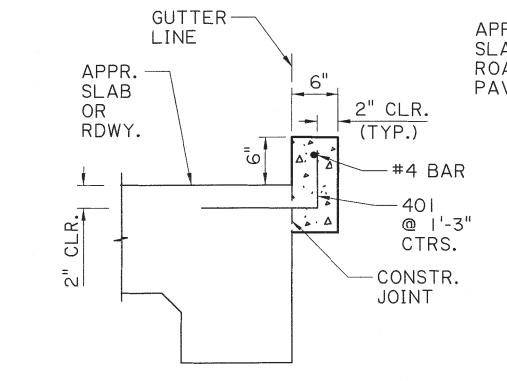
PLAN "A"- CLOSED END DRAIN FOR GIRDER SPAN BRIDGES (EXCEPT QUAD BEAMS)
(WINGWALL PARALLEL TO ROADWAY)
(N.T.S.)



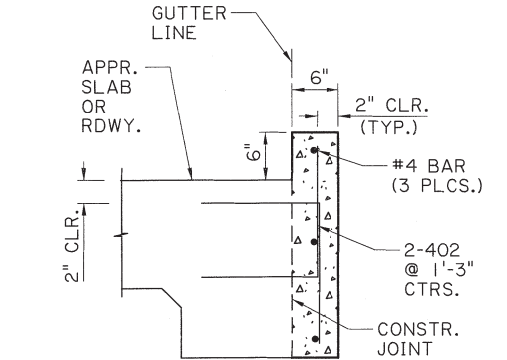
PLAN "B"- CLOSED END DRAIN FOR SLAB SPAN AND QUAD BEAM BRIDGES
(FOR INFORMATION NOT SHOWN, SEE PLAN "A")
(WINGWALL NOT PARALLEL TO ROADWAY)
(N.T.S.)



PLAN "C"- CLOSED END DRAIN WHEN WINGWALLS AND GUARDRAIL ARE NOT REQUIRED
(FOR INFORMATION NOT SHOWN, SEE PLAN "A")
(N.T.S.)

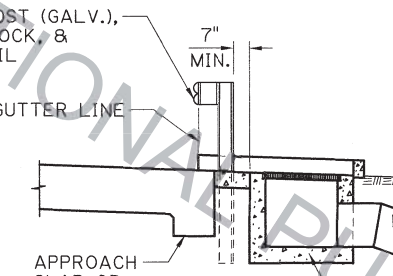


CURB DETAIL (GIRDER SPAN BRIDGES, EXCLUDING QUAD BEAM)

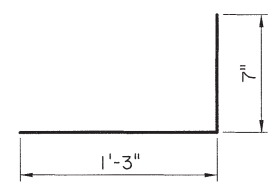


CURB DETAIL (SLAB SPAN AND QUAD BEAM BRIDGES)

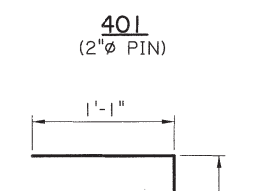
SECTION D-D (N.T.S.)



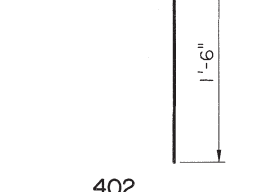
SECTION A-A (N.T.S.)



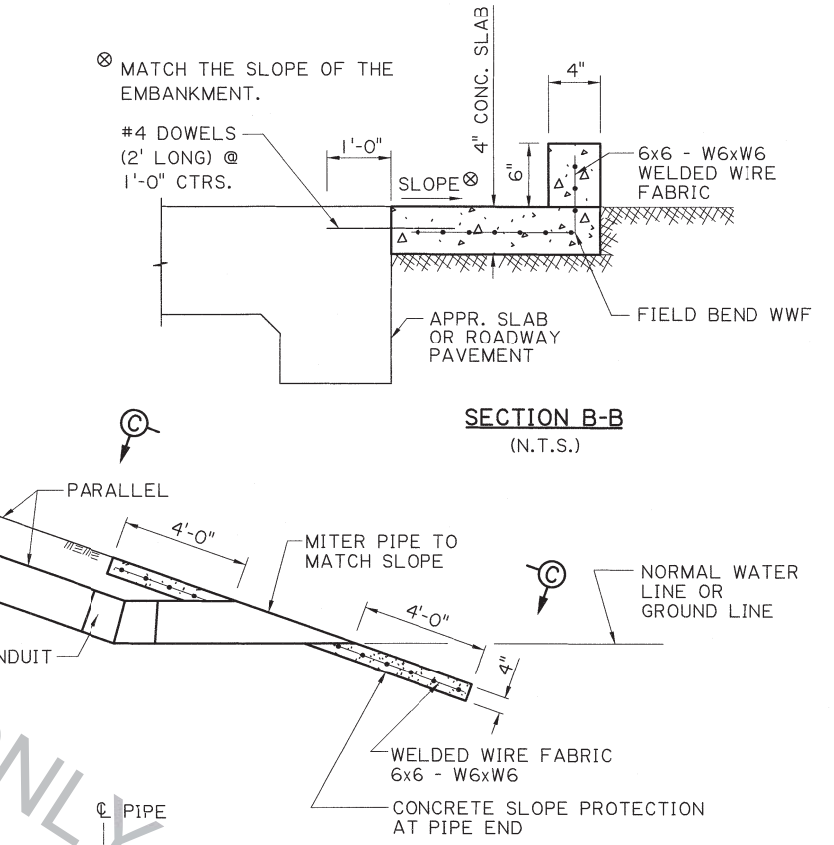
SECTION B-B (N.T.S.)



SECTION C-C (CONCRETE SLOPE PROTECTION AT PIPE END)
(N.T.S.)



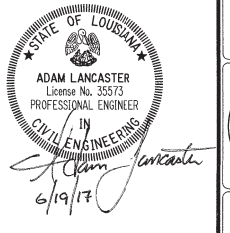
SECTION D-D (N.T.S.)

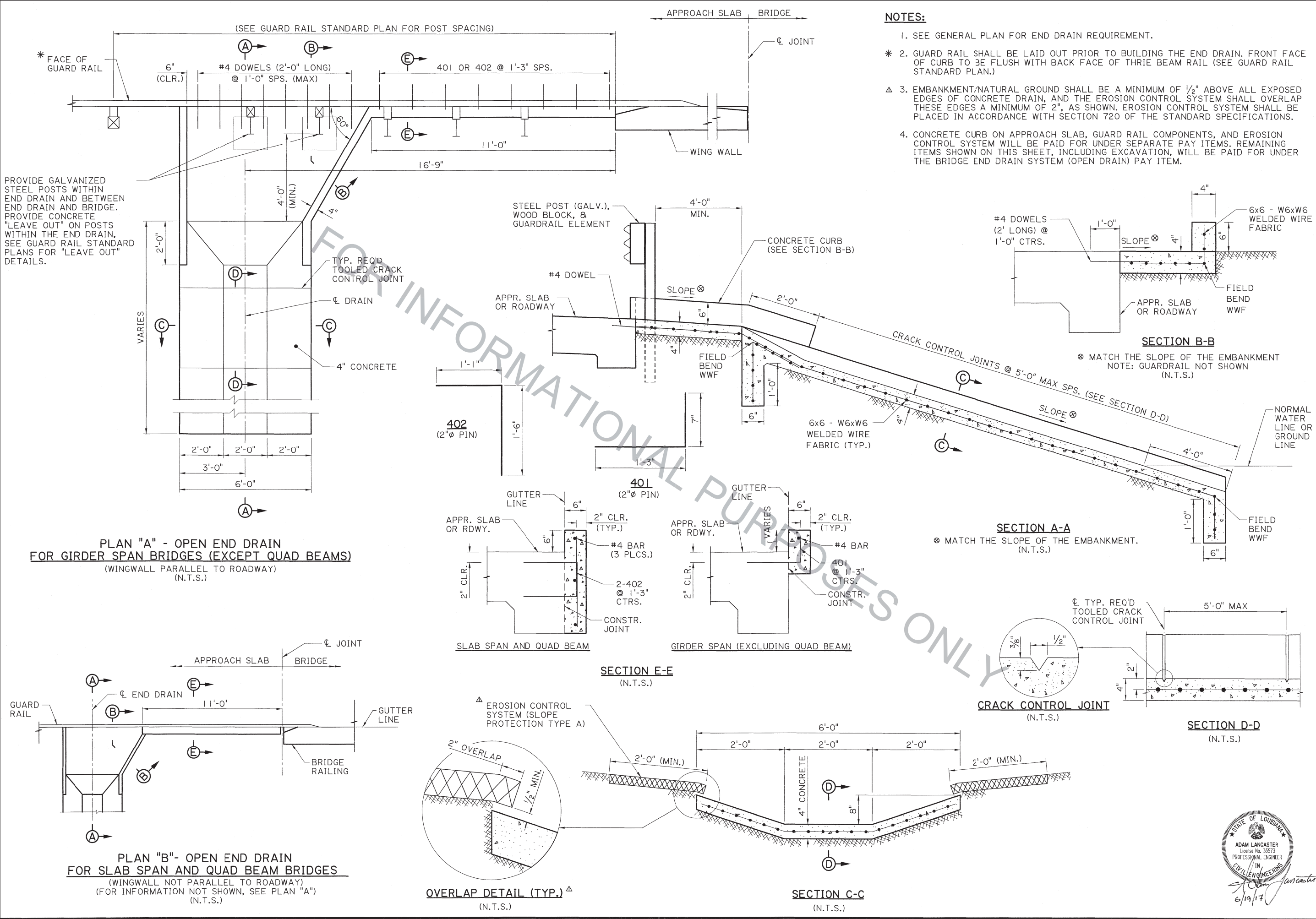


NOTES:

1. SEE GENERAL PLAN FOR END DRAIN SYSTEM REQUIREMENT.
- * 2. GUARD RAIL SHALL BE LAID OUT PRIOR TO BUILDING THE CATCH BASIN AND END DRAIN. FRONT FACE OF CURB TO BE FLUSH WITH BACK FACE OF THIR BEAM RAIL (SEE GUARD RAIL STANDARD PLANS FOR GUARD RAIL DETAILS).
3. COST OF CB-01 CATCH BASIN, 18"Ø PIPE, FABRICATED CONDUIT FITTINGS, SLOPE PROTECTION, 4" CONCRETE SLAB, 4"x6" CURB, WWF, AND #4 DOWELS TO BE INCLUDED IN THE COST OF ITEM "BRIDGE END DRAIN SYSTEM (CLOSED)". 6"x6" CURB TO BE INCLUDED IN THE COST OF ITEM "CONCRETE APPROACH SLABS". GUARDRAIL TO BE PAID FOR SEPARATELY. (SEE STANDARD PLAN FOR GUARD RAIL DETAILS).
- ☑ 4. DIMENSION TO CENTER OF CATCH BASIN MAY BE LENGTHENED AS WARRANTED BY PROJECT-SPECIFIC CONDITIONS. FOR EXAMPLE, IT IS UNDESIRABLE FOR THE CATCH BASIN AND ASSOCIATED 4" CONCRETE SLAB TO BE LOCATED AT THE END OF THE APPROACH SLAB WHERE THE 4" SLAB WOULD BE CONNECTED TO BOTH THE APPROACH SLAB AND THE ROADWAY. DIFFERENTIAL SETTLEMENT BETWEEN THE ROADWAY AND APPROACH SLAB IN THIS CASE COULD DAMAGE THE END DRAIN SYSTEM. SEE GENERAL PLAN FOR LOCATION OF END DRAIN SYSTEM.

SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED A. LANCASTER	DESIGNED A. LANCASTER	REVIEWED Z.Z. FU	SERIES # 1 OF 1
CHECKED X. WANG	CHECKED R. MORVANT	CHECKED A. LANCASTER	BY
DATE	DATE	DATE	NO.
REVISION OR CHANGE ORDER DESCRIPTION			
BRIDGE END DRAIN SYSTEM			
CLOSED DRAIN			
BD.2.10.1.0.09 - APPROACH SLAB COMMON			
BRIDGE AND STRUCTURAL DESIGN			





SHEET NUMBER	1 OF 1
DESIGNED	A. LANCASTER
CHECKED	R. MORVANT
DATE	6/19/17
PROJECT	BRIDGE END DRAIN SYSTEM
SECTION	OPEN DRAIN
STATE	LOUISIANA
PARISH	ORLEANS
REVISION OR CHANGE ORDER DESCRIPTION	BRIDGE AND STRUCTURAL DESIGN

