

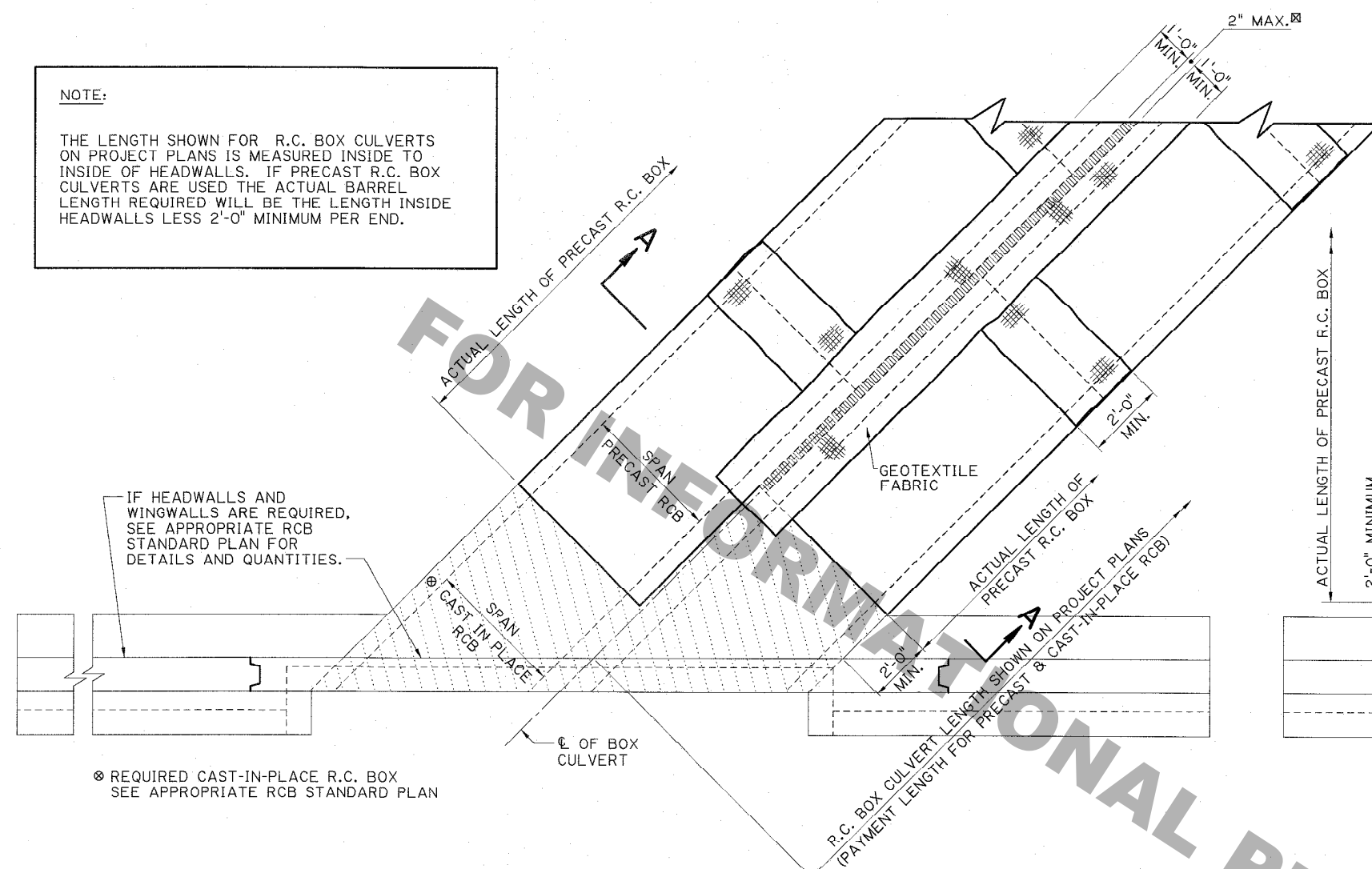
**NOTE:**

THE LENGTH SHOWN FOR R.C. BOX CULVERTS ON PROJECT PLANS IS MEASURED INSIDE TO INSIDE OF HEADWALLS. IF PRECAST R.C. BOX CULVERTS ARE USED THE ACTUAL BARREL LENGTH REQUIRED WILL BE THE LENGTH INSIDE HEADWALLS LESS 2'-0" MINIMUM PER END.

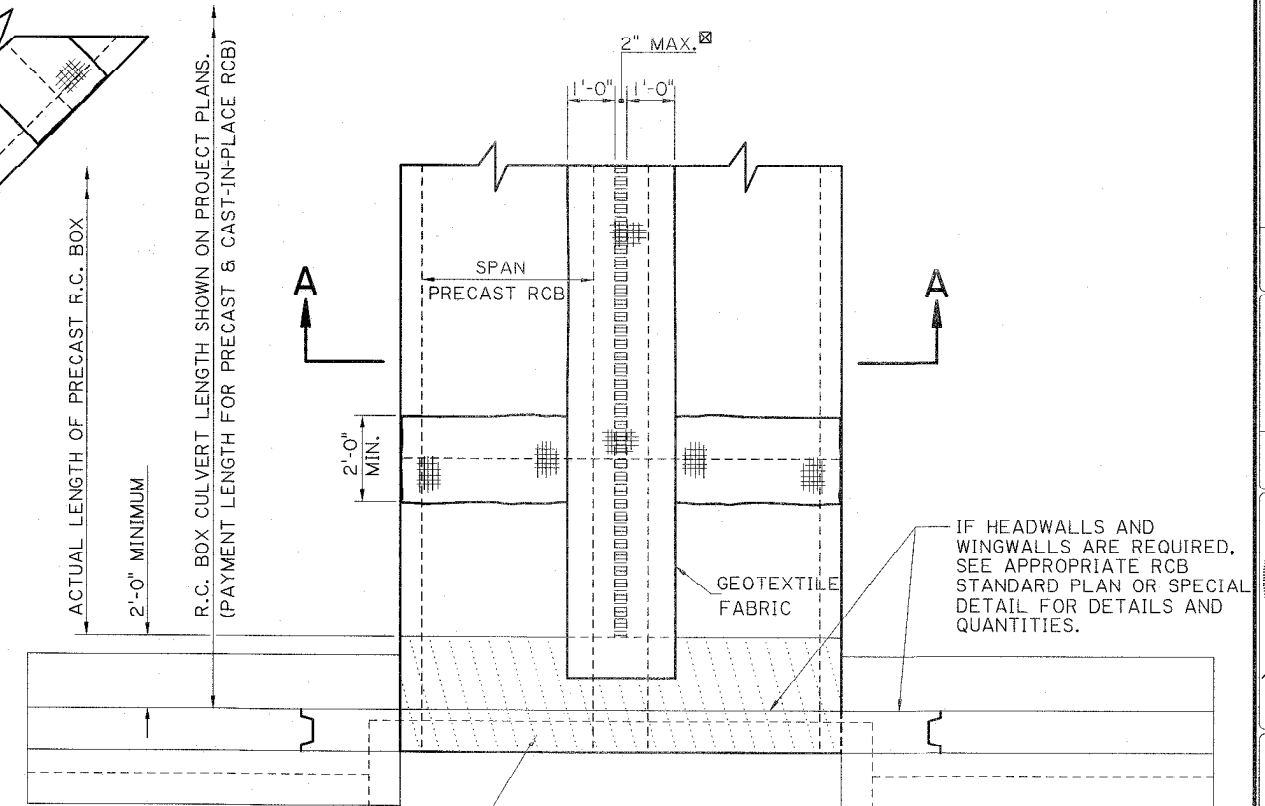
IF HEADWALLS AND WINGWALLS ARE REQUIRED, SEE APPROPRIATE RCB STANDARD PLAN FOR DETAILS AND QUANTITIES.

⊗ REQUIRED CAST-IN-PLACE R.C. BOX SEE APPROPRIATE RCB STANDARD PLAN

**PLAN SHOWING MULTIPLE PRECAST RCB CULVERTS ON A SKEWED CROSSING WITH HEADWALLS**



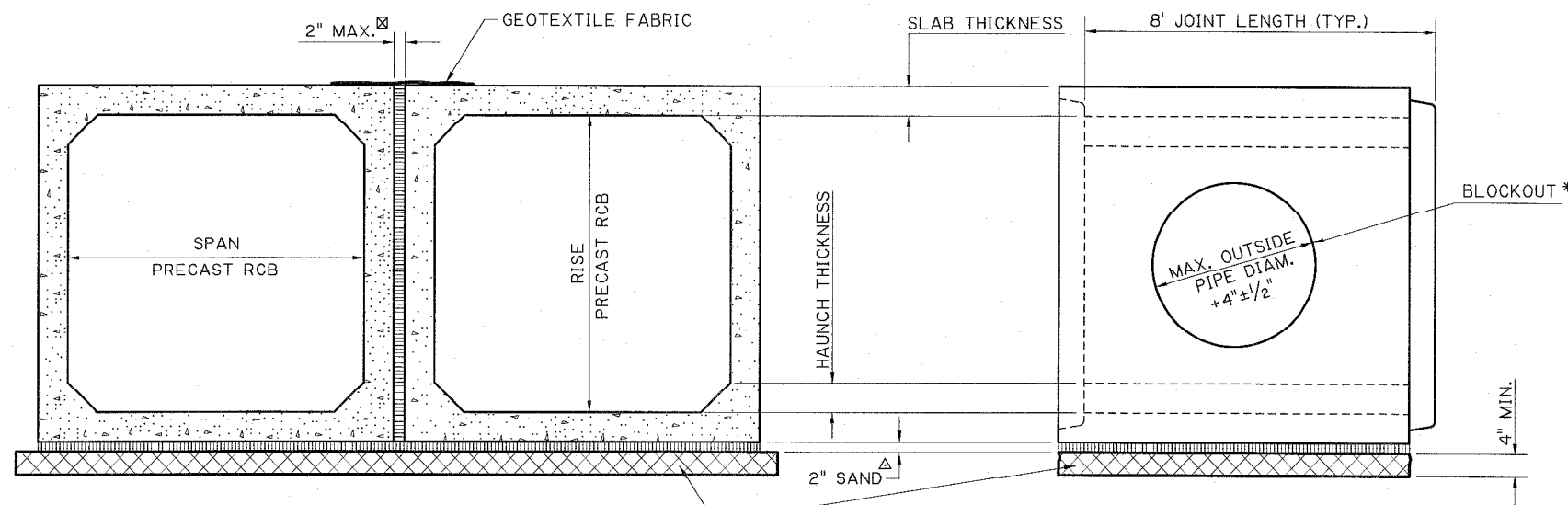
⊗ 2" MAX. SPACE ALLOWED BETWEEN PRECAST UNITS, IF NECESSARY. TO BE END BLOCKED AND FILLED WITH SAND OR FLOWABLE FILL. COST TO BE INCLUDED IN COST OF PRECAST RCB.



**PLAN SHOWING MULTIPLE PRECAST RCB CULVERTS ON A STRAIGHT (90°) CROSSING WITH HEADWALLS**

**GENERAL NOTES**

- 1) FOR GENERAL SPECIFICATIONS OF PRECAST RCB SEE SECTION 805 AND 1016 OF THE LA DOTD STANDARD SPECIFICATIONS.
- 2) A MINIMUM 2 FOOT WIDE STRIP OF GEOTEXTILE FABRIC SHALL COVER THE ADJOINING LONGITUDINAL EDGES OF MULTI-BARREL BOXES AND JOINTS BETWEEN PRECAST UNITS. FABRIC EDGES AND ENDS SHALL BE SUITABLY SECURED. GEOTEXTILE FABRIC SPECIFICATIONS SHALL CONFORM TO THE SPECIFICATIONS FOR PIPE UNDER SECTION 1019 OF THE LA DOTD STANDARD SPECIFICATIONS. COST TO BE INCLUDED IN COST OF PRECAST RCB.
- 3) #4 DOWEL BARS, MINIMUM 20" LONG (10" EMBEDDED) AT 12" CENTERS ARE REQUIRED, TO CONNECT THE LAST PRECAST UNIT TO ANY CAST-IN-PLACE SECTION OF BOX.
- \* 4) BLOCKOUTS FOR PIPE INTO PRECAST RCB'S ARE THE RESPONSIBILITY OF THE CONTRACTOR. BLOCKOUT LOCATIONS ARE AS DIRECTED BY THE PROJECT ENGINEER. BLOCKOUT SHALL NOT BE GREATER THAN 1/2 THICKNESS OF PRECAST RCB AND SHALL NOT BE LOCATED IN THE HAUNCH.
- Δ 5) IN ADDITION TO BEDDING MATERIAL, A MINIMUM 4 INCH THICK, CLASS R CONCRETE, WORKING TABLE WILL BE REQUIRED FOR 6' X 6' AND LARGER PRECAST RCB FIELD INSTALLATIONS. AN ADDITIONAL 2 INCHES OF SAND SHALL BE PLACED AND LEVELED UPON THE CONCRETE WORKING TABLE. COST OF WORKING TABLE AND SAND TO BE INCLUDED IN COST OF PRECAST RCB.
- ⊗ 6) FOR THE CAST-IN-PLACE PORTIONS OF THE CULVERT, THE REBAR SIZE AND SPACING SHALL MATCH OR EXCEED THE PRECAST SECTIONS. CONTRACTOR TO USE APPROVED PRECAST RCB SHOP DRAWING FOR REBAR REQUIREMENTS.
- 1) WALL AND SLAB THICKNESSES MAY VARY IN THE TRANSITION AREA BETWEEN THE LAST PRECAST UNIT AND THE CAST-IN-PLACE SECTION OF THE BOX AND HEADWALL. CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE DIMENSIONS AND QUANTITIES OF REINFORCING STEEL AND CONCRETE IN THE CAST-IN-PLACE SECTIONS AS NECESSARY AT NO ADDITIONAL COST.



⊗ REQUIRED 4" MIN. WORKING TABLE FOR LARGER PRECAST RCB'S. SEE NOTE 5 OF THE GENERAL NOTES.

**SECTION A-A**

**SIDE ELEVATION OF PIPE JOINT SHOWING MAXIMUM BLOCKOUT AND PIPE DIAMETER**

SHEET NUMBER		DATE	
DESIGN	CHECK	DETAIL	CHECK
FABRICATION		CONTROL SECTION	
STATE PROJECT		SERIES # 1 OF 1	

**MITRA HASHEMIEH**  
REG. NO. 28846  
REGISTERED PROFESSIONAL ENGINEER  
IN CIVIL ENGINEERING  
7/19/2022

APPROVED BY CHIEF ENGINEER:  
*[Signature]*  
DATE: 7/20/2022

**DOTD**  
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

**PRECAST REINFORCED CONCRETE BOX CULVERTS**  
DETAILS AND SPECIFICATIONS  
PROB-01

**HYDRAULICS SECTION**