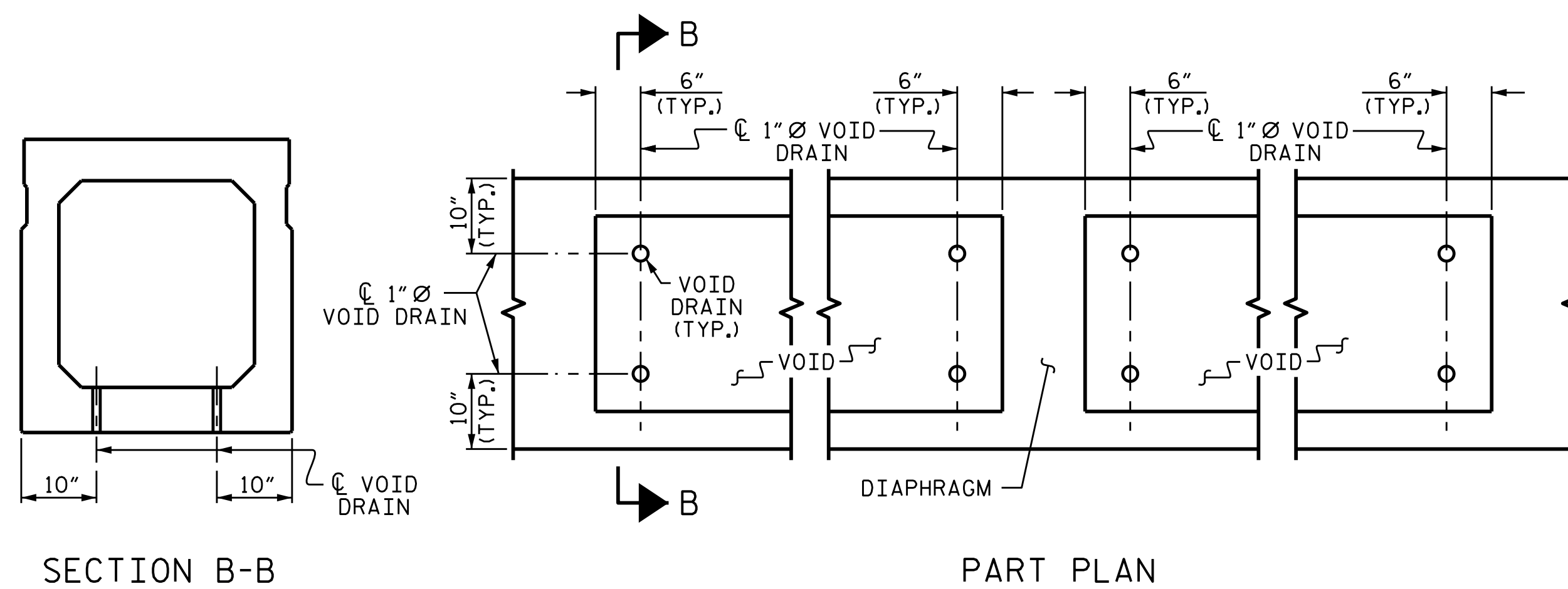


**DOUBLE DIAPHRAGM DETAILS**  
 #4 "S" BARS NOT SHOWN. #4 "S" BARS MAY BE SHIFTED SLIGHTLY TO CLEAR 2 1/2" Ø HOLE.

**GROUTED RECESS DETAIL AT END OF POST-TENSIONED STRANDS OF EXTERIOR BOX BEAM**



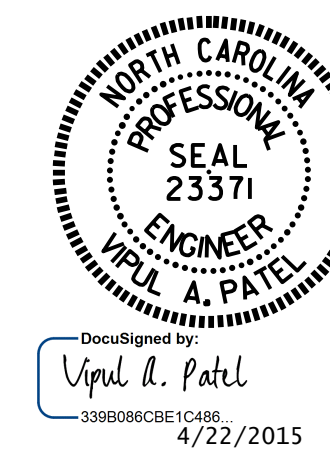
**VOID DRAIN DETAILS**  
 (DIMENSIONS SHOWN ARE TYPICAL FOR EACH VOID)

BOX BEAM UNITS REQUIRED			
SPANS A & B	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	4	100'-0"	400'-0"
INTERIOR B.B.	20	100'-0"	2000'-0"
SPANS C & D	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	4	90'-0"	360'-0"
INTERIOR B.B.	20	90'-0"	1800'-0"
<b>TOTAL</b>	<b>48</b>		<b>4560'-0"</b>

DEAD LOAD DEFLECTION AND CAMBER	
SPANS A & B	3'-0" x 3'-3"
CAMBER (SLAB ALONE IN PLACE)	0.6" Ø L.R. STRAND
DEFLECTION DUE TO PARAPET & FUTURE WEARING SURFACE	1 1/16" ↓
DEFLECTION DUE TO CONCRETE WEARING SURFACE	1/2" ↓
FINAL CAMBER	9/16" ↓
DEAD LOAD DEFLECTION AND CAMBER	
SPANS C & D	3'-0" x 3'-3"
CAMBER (SLAB ALONE IN PLACE)	0.6" Ø L.R. STRAND
DEFLECTION DUE TO PARAPET & FUTURE WEARING SURFACE	1 1/16" ↓
DEFLECTION DUE TO CONCRETE WEARING SURFACE	3/8" ↓
FINAL CAMBER	7/8" ↓

ASSEMBLED BY : J.P. MCCARTHA	DATE : 7-25-14
CHECKED BY : M.E. GILES	DATE : 12-17-14
DRAWN BY : TLA 5/05	ADDED 7/11/05
CHECKED BY : GM 6/05	REV. 5/1/06
	REV. 10/1/11
DESIGN ENGINEER OF RECORD:	
J.P. MCCARTHA	DATE : 12-17-14

21-APR-2015 09:25  
 R:\Structures\Plans\B4972.SD.BX.01.dgn  
 Isuttan



PROJECT NO. B-4972  
CABARRUS COUNTY  
 STATION: 22+55.00 -L-

SHEET 6 OF 7

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH			
STANDARD 3'-0" X 3'-3" PRESTRESSED CONCRETE BOX BEAM UNIT			
REVISIONS			
NO.	BY:	DATE:	SHEET NO.
1			5-10
2			TOTAL SHEETS 31

STD. NO. PCBB7