

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5-24-17				6	ARK.			
JOB NO.							1	

19' PRECAST SPAN - 55080

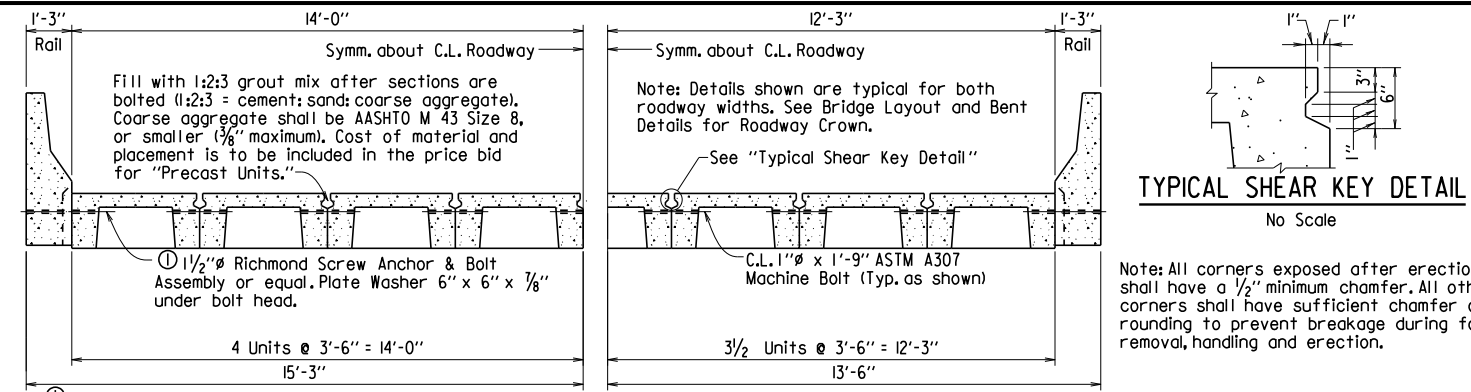
### BAR LIST FOR PRECAST BRIDGE COMPONENTS PER PRECAST UNIT

MARK	NUMBER REQUIRED		LENGTH	P.D.	BENDING DIAGRAMS (Dimensions are out to out of bars)
	CURB UNIT	INT. UNIT			
S301	82	82	3'-5 1/2"	1 1/2"	
S302	4	4	2'-9"	1 1/2"	
S401	8	8	3'-2"	Str.	
S501	18	-	4'-8"	2 1/2"	
S801	6	6	18'-8"	Str.	

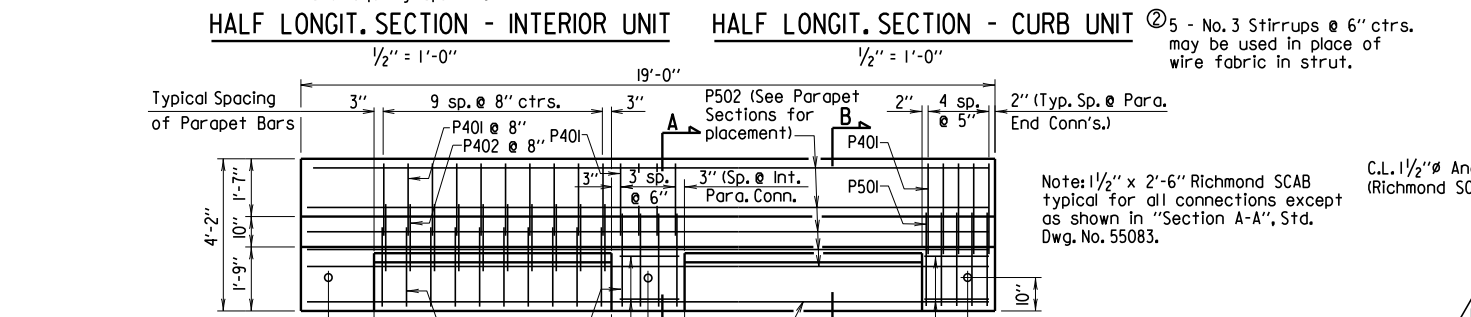
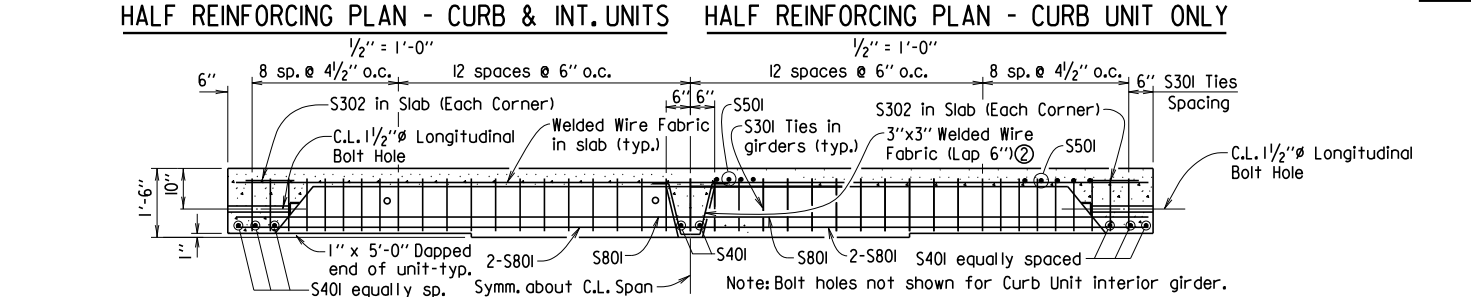
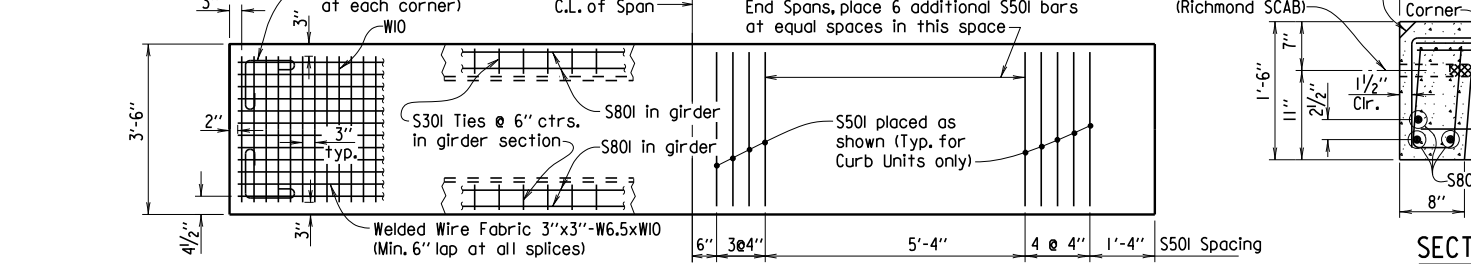
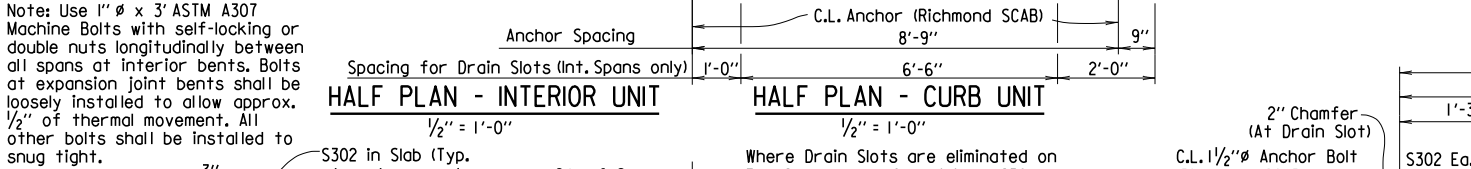
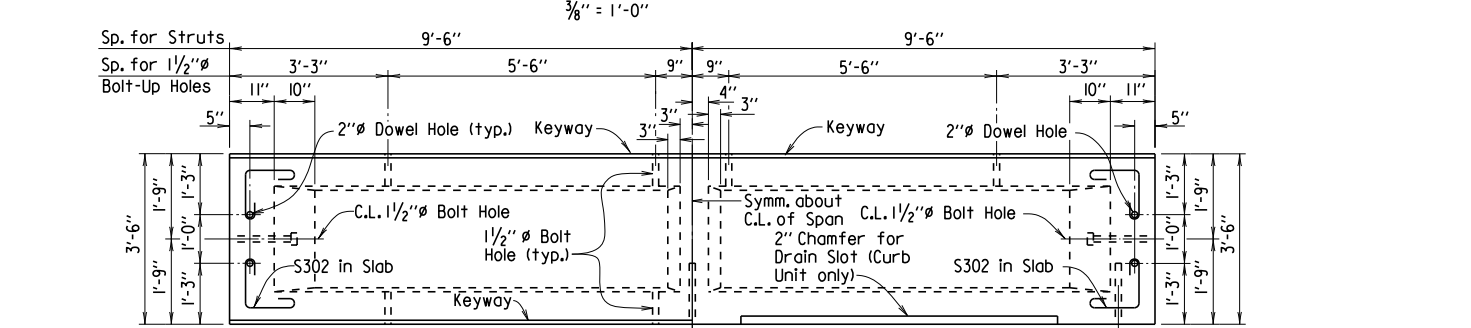
③ Plus 6 additional for each Drain Slot eliminated

### PER PRECAST PARAPET RAIL

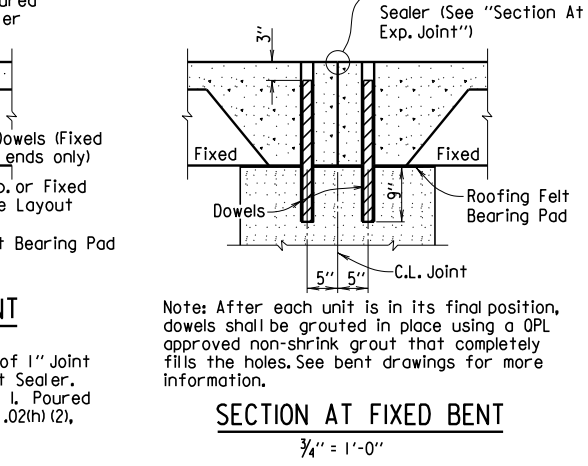
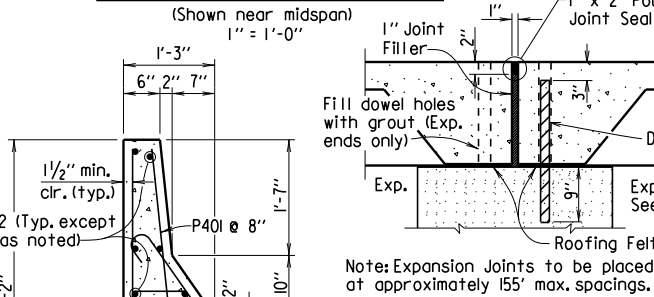
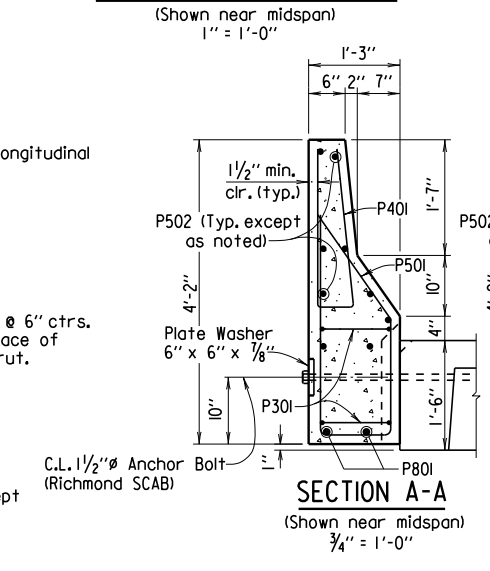
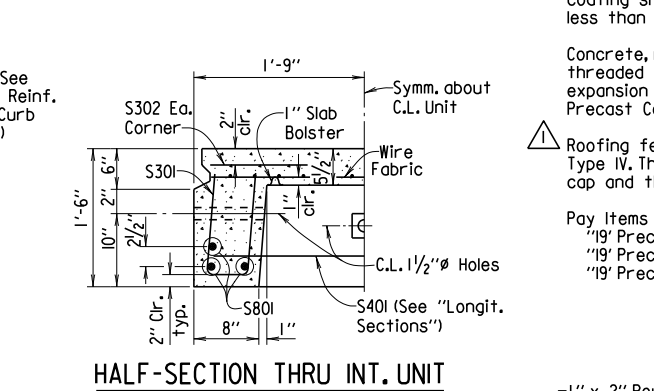
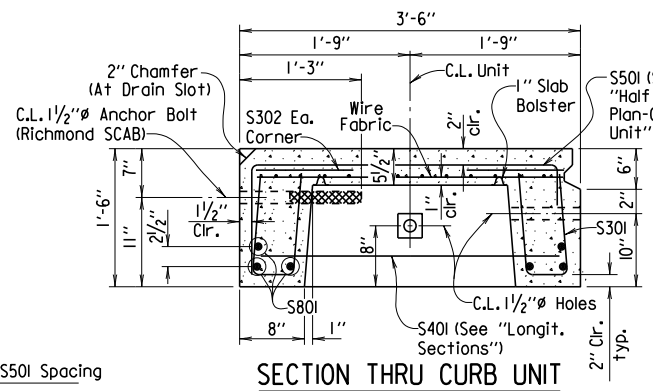
MARK	NUMBER REQUIRED		LENGTH	P.D.
	END SPAN	INT. SPAN		
P301	6	6	5'-4"	1 1/2"
P401	34	34	4'-8"	2"
P402	20	20	3'-1 1/2"	2"
P403	20	20	5'-8"	2"
P501	14	14	7'-2"	2 1/2"
P502	9	9	18'-8"	Str.
P801	2	2	18'-8"	Str.



### TYPICAL SECTION OF PRECAST RDWY. (SHOWING ASSEMBLY)



Note: For details and bar list for Precast Parapet Rail at End Span, see Std. Dwg. No. 55083.



**GENERAL NOTES**

Design Specifications: AASHTO LRFD Bridge Design Specifications, Seventh Edition (2014).

Unless otherwise noted, Section and Subsection refer to the Standard Construction Specifications.

Live Loading: HL-93

Materials: 28 Day compressive strength of Concrete = 4,000 psi  
Yield strength of Grade 60 Steel = 60,000 psi  
Yield strength of Wire Fabric = 65,000 psi

All Reinforcing steel shall be Grade 60, AASHTO M 31 or M 322, Type A with mill test reports. Wire fabric shall be AASHTO M 55 or M 221. Reinforcing steel and wire fabric shall be accurately located in the forms and securely held in place by steel wire supports.

Concrete for precast units shall be Class 5(AE) except that the coarse aggregate size shall meet AASHTO M 43, Size 67 (3/4" Max.).

The deck shall be given a fine finish as specified for Class 5 Roadway Surface Finish in Subsection 802.19.

Standard washers shall be provided under head and nut of all bolts in connection with concrete. Bolts shall be A307. All bolts, washers and nuts shall be galvanized to meet AASHTO M 232, Class C or ASTM B695, Class 50.

Screw Anchor and Bolt Assembly (SCAB) shall be 1/2" dia Richmond Screw Anchor or equal, and have a minimum ultimate strength of 65,000 psi in tension. Assembly shall be galvanized to meet AASHTO M 232, Class C or ASTM B695, Class 50. Plate Washers for SCAB shall be AASHTO M 270, Grade 36 and shall be galvanized to meet AASHTO M 111.

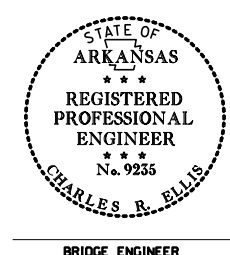
Camber required for dead load deflection is 1/4". Deviation of more than 1/4" in dimension of grade or line will be cause for rejection.

Ends of adjacent units shall be coated (1/16" +/-) with asphaltic paint. The coating shall adhere and set firm and its softening point shall not be less than 140°F.

Concrete, reinforcing, wire mesh, bar supports, bolts, nuts, washers, threaded anchors, grout, roofing felt bearing pad, asphaltic paint and expansion joint fillers are considered subsidiary to the pay items for Precast Concrete Units.

Roofing felt shall meet or exceed the requirements of ASTM D6380 Class S Type IV. The roofing felt shall be in one piece for the full length of the cap and three layers shall be used.

Pay Items shall be as follows:  
"19' Precast Concrete Curb Units"  
"19' Precast Concrete Interior Units"  
"19' Precast Parapet Rail Units"



This document was originally issued and sealed by Charles R. Ellis, PE No. 9235, on February 25, 2016. This copy is not a signed and sealed document.

Revised Roofing Felt specification and note 5-24-17 PGT Checked By: KKY

**STANDARD DETAILS FOR  
19'-0" PRECAST CONCRETE SPANS  
28'-0" AND 24'-6" CLEAR ROADWAYS**

**ARKANSAS STATE HIGHWAY COMMISSION**  
LITTLE ROCK, ARK.

DRAWN BY: KDH DATE: 1-23-15 FILENAME: b55080.dgn  
CHECKED BY: KKY DATE: 2-4-16 SCALE: AS NOTED  
DESIGNED BY: STD. DATE: \_\_\_\_\_

BRIDGE ENGINEER  
DRAWING NO. 55080

PRINT DATE: 11/7/2019