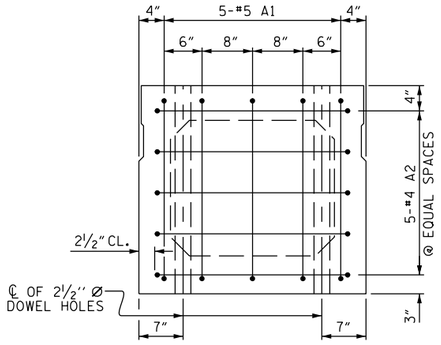
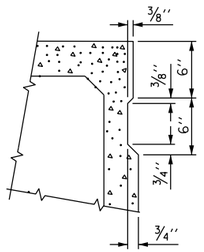


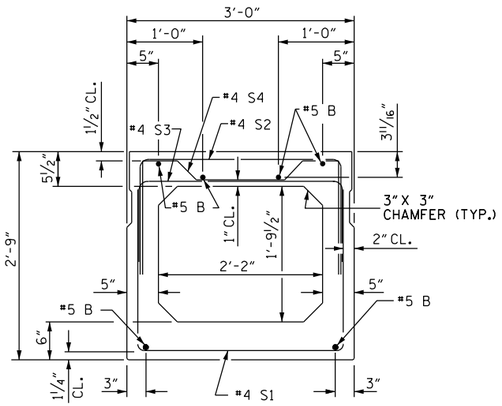
END ELEVATION

SHOWING PLACEMENT OF #5 & #4 "A" BARS AND LOCATION OF DOWEL HOLES.
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR SECTION SIMILAR EXCEPT SHEAR KEY LOCATION. STRAND LAYOUT NOT SHOWN.)



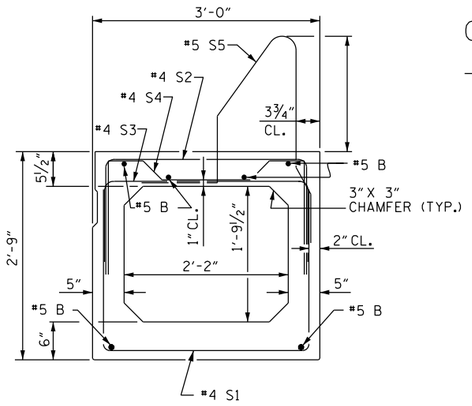
SHEAR KEY DETAIL

NOTE: OMIT SHEAR KEY ON OUTSIDE FACE OF EXTERIOR BOX BEAMS.



INTERIOR BOX BEAM SECTION

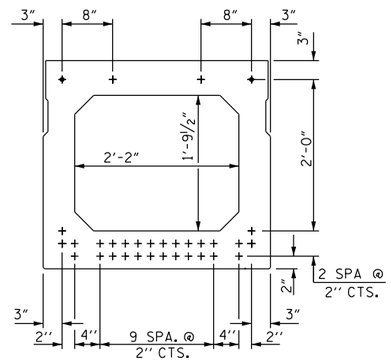
(STRAND LAYOUT NOT SHOWN)



EXTERIOR BOX BEAM SECTION

(STRAND LAYOUT NOT SHOWN)

0.6" Ø LOW RELAXATION STRAND LAYOUT



TYPICAL STRAND LOCATION

(__ STRANDS REQUIRED)

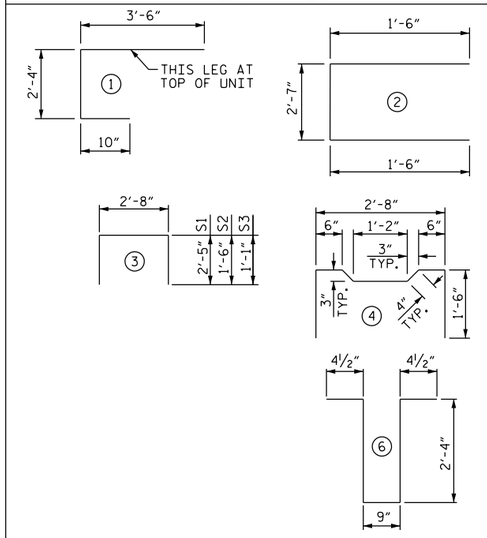
(INTERIOR BOX BEAM SECTION SHOWN-EXTERIOR SECTION SIMILAR EXCEPT SHEAR KEY LOCATION)

DEBONDING LEGEND

● FULLY BONDED STRANDS

GRADE 270 STRANDS	
	0.6" Ø L.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE BOX BEAM SECTION

				EXTERIOR UNIT		INTERIOR UNIT	
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
A1	10	#5	1	6'-8"	70	6'-8"	70
A2		#4	2	5'-7"		5'-7"	
B		#5	STR				
K1		#4	6	6'-2"		6'-2"	
K2		#4	STR	2'-7"		2'-7"	
S1		#4	3	7'-6"		7'-6"	
S2		#4	3	5'-8"		5'-8"	
S3		#4	3	4'-10"		4'-10"	
S4		#4	4	5'-10"		5'-10"	
✳ S5		#5	5			--	--
REINFORCING STEEL					LBS.		LBS.
✳ EPOXY COATED REINF. STEEL					LBS.		
--- P.S.I. CONCRETE					CU. YDS.		CU. YDS.
0.6" Ø L.R. STRANDS					No.		No.

END VIEW

(SHOWING #4 "S" BARS IN END OF BEAM)

DETAIL "B"

EXTERIOR UNIT SHOWN, INTERIOR UNIT SIMILAR EXCEPT OMIT #5 S5 BARS. "B" BARS AND "A" BARS NOT SHOWN.

CHAMFER DETAIL

SHOWING 6" VOID CHAMFER

PERMITTED THREADED INSERT CAST IN OUTSIDE FACE OF EXTERIOR UNIT AND RECESSED ⅜", SIZE TO BE DETERMINED BY CONTRACTOR.

THREADED INSERT DETAIL

ASSEMBLED BY :	DATE :
CHECKED BY :	DATE :
DRAWN BY : TLA 5/05	REV. 5/1/06 TLA/GM
CHECKED BY : GM 6/05	REV. 10/1/11 MAA/GM
	REV. 1/15 RWW/TMG

PROJECT NO. _____

_____ COUNTY

STATION: _____

SHEET _ OF _

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
3'-0" X 2'-9" PRESTRESSED CONCRETE BOX BEAM UNIT SPAN "_"

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. PCBB4