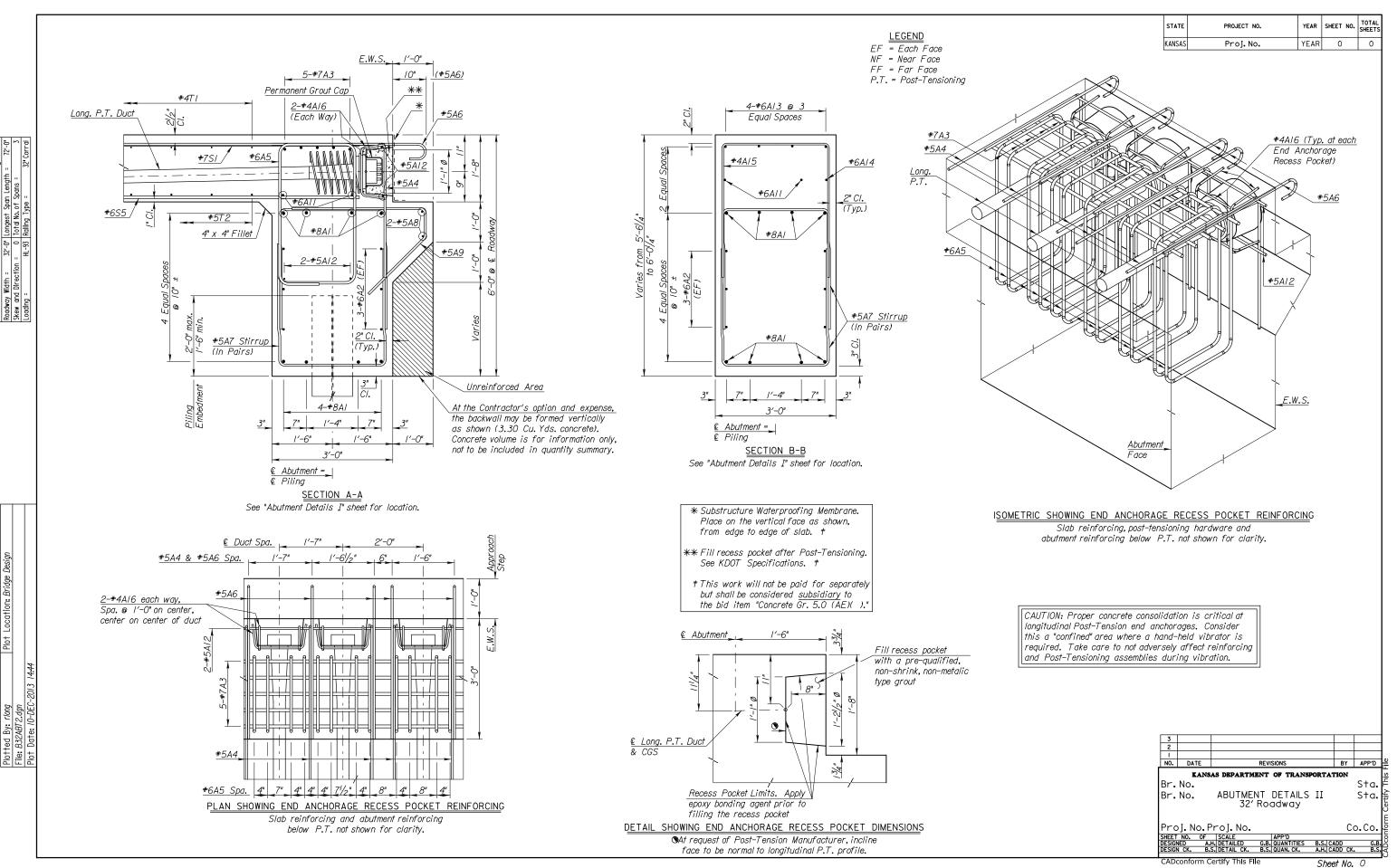


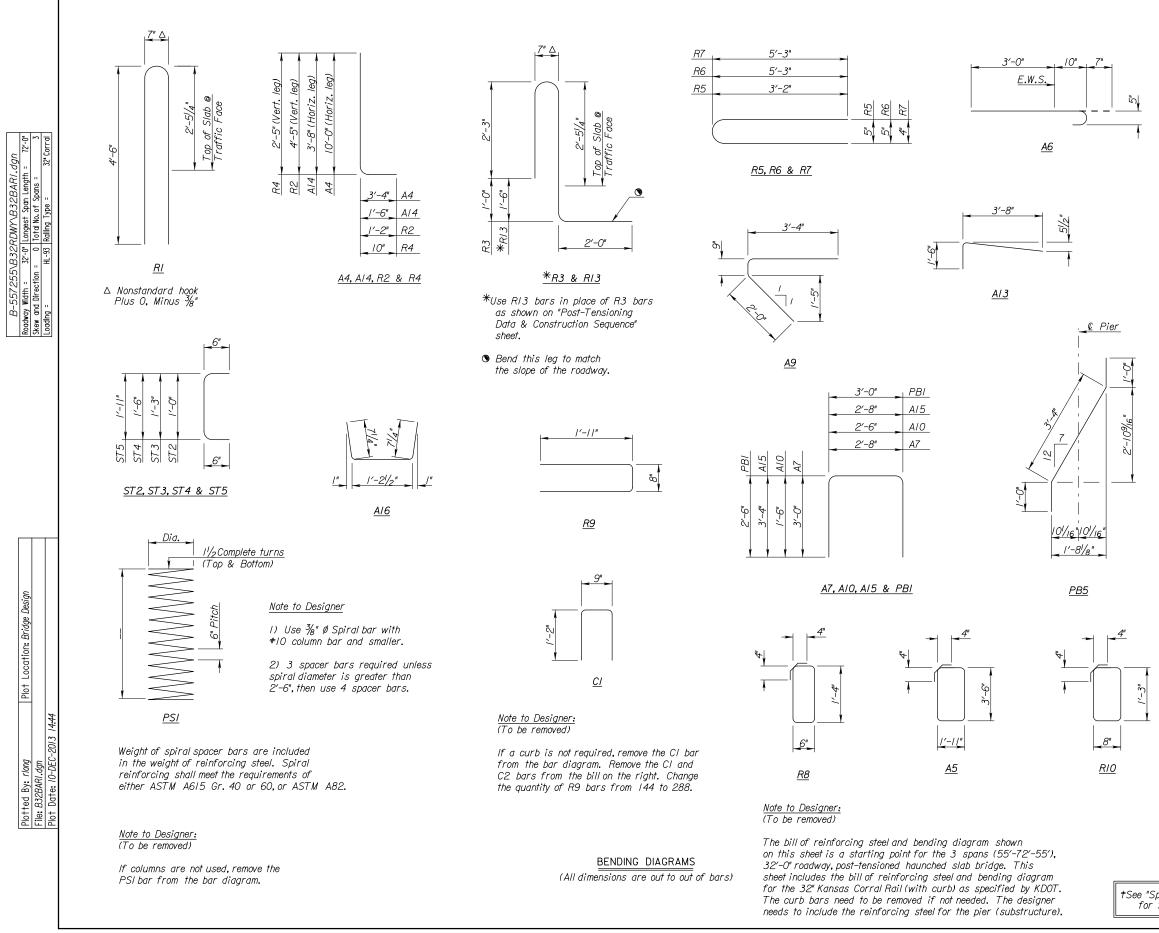
B-, Roadway N Skew and ¹ Loont:

Location: Bridge Design Plot 4.4 rlong I.dgn Plotted By: r File: B32ABT/. Dot Date: 10

	ST	ATE	PROJEC	T NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KAI	NSAS	Proj.	No.	YEAR	0	0
allowed in the <u>NOTE:</u> Placement of <u>L</u> shall have the Ducts #2 prior clear the Post See "Abutment Section A-A of See "Post-Te Construction	ace all tope el ce t Ad ensioning to Joints will not t	re base mbedmen d just si avoid pe st-Tens ansvers ill steel ucts. eet for -B.	d on 2'-0' ht. tirrups or conflict wi ioning Duc <u>e</u> Post-Te	bar location th rail bars. cts nsioning			
*ABUT M	IENT PILE LC	DADING	(TONS)				
	Total Load	d	Load p				
Loading Case	Total Load	d 2	Load p	2			
Loading Case Dead Loads	Total Load	d 2 161	Load p () 31	2 32			
Loading Case Dead Loads MHL-93 MDead + HL-93	Total Load (1) 1 154 1 74 1 228 2	d ② 161 74 235	Load p () 31 15 46	2 32 15 47			
	Total Load () 154 74 228 228 228 2 2 3 5 5 5 6 4 2 2 2 2 2 2 2 2 2 2 2 2 2	d (2) 161 74 235 2x53 songitudi Tot bea 1 3 Tor roach sl tions.	Load p () 31 15 46 steel piles nal and tr ring only). n (HL-93)	2 32 15 47 due to the cansverse loc			
Loading Case Dead Loads AHL-93 ADead + HL-93 The abutment pile mbined interactio Nowable load = 70 coludes 8 Ton (De om a 13'-0" x 10 Service-I Case, LI) Without Vertical B	Total Load () 154 74 228 2 s shall be HPI n of vertical, ld D Tons/Pile (E ad Loads) ana " concrete appr RFD Specifica Backwall option. skwall option. 3 2 1 NO. Br Br Br	d (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	Load p () 3/ /5 46 Steel piles nal and tr ring only) (HL-93) ab. NSAS DEPAR ABUT 3 .Proj. NG F ISSAF	(2) 32 15 47 due to the ansverse loc contribution contribution REVISIONS TMENT OF TR MENT DET. 22 Roadwo	ANSPOR AILS I	Cc	APP'D Sta. Sta. 5.Co.
Loading Case Dead Loads NHL-93 NDead + HL-93 The abutment pile mbined interactio Nowable load = 70 cludes 8 Ton (De om a 13'-0" x 10 Service-I Case, Ll Without Vertical B	Total Load () 154 74 228 228 2 s shall be HPI n of vertical, la D Tons/Pile (E ad Loads) and " concrete appr RFD Specifica Backwall option. Skwall option. Br Br Br Br	d (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	Load p () 31 15 46 Steel piles nal and tr ring only) n (HL-93) ab. NSAS DEPAR ABUT 3 .Proj. No	(2) 32 15 47 due to the ansverse loc contribution contribution REVISIONS TMENT OF TR MENT DET. 22 Roadwo	ANSPOR AILS I	TATION	Sta. Sta.



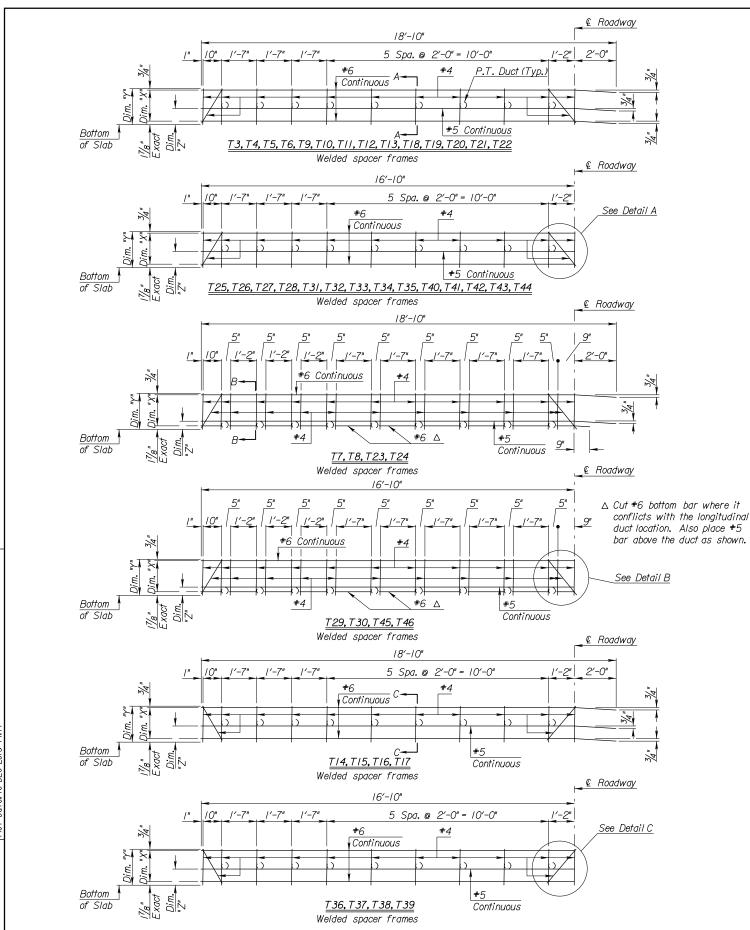
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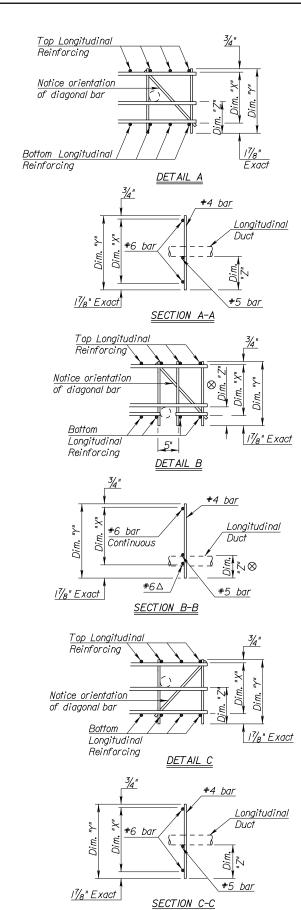


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for

				STATE	PR	OJECT NO.		YEAR	SHEET	NO.	TO SHE	
				KANSAS	Pr	∽oj.No.		YEAR	c)		
	ſ		P	ILL OF		ORCING	STE	-1				
			L		Y COATE							
			-	ht Bars				Bars				
	-	Mark	Size	Number	Length	Mark	Size	Num	ber	Leng	th,	
	╞	A/	#8	16	4/′-8"	RI	#7	28	-	9'	2"	
		AI	#0	/6	4/ -0	R2	#7	4		9 5'-1	-	
		A3	#7	10	38'-0"	R3	#7	16		7'-9		
		 SI	#7	74	44'-2"	R/3	#7	/3		8'		
		 S2	#7	74	34'-0"	,,,,,,		,,,,,	<u> </u>			
		53	#7	37	39'-0"	A5	#6	14	4	///-	6"	
						A/3	#6	16	5	5′-,	2"	
		A2	#6	12	4/′-8″	A/4	#6	4		5′-,	2"	
		A//	#6	4	4/′-8"							
	∺[RH	#6	24	4′-6″	A4	#5	60)	13′-	-4"	
	Rai	R12	#6	204	9′-8″	A6	#5	56	5	4'-:	5″	
	' [S4	#6	74	45′-2″	A7	#5	/6	0	8'-	8"	
	Deck	S5	#6	74	15'-0"	A9	#5	64	4	6′-	/"	
		<i>S6</i>	#6	74	21'-6"	R5	#5	8		6'-1	6"	
	י	S7	#6	37	38′-0″	R6	#5	8		10′-	-	
Ø						ST2	#5	4		2'-		
Superstructure	Abutment	A8	#5	4	32'-8"	ST3	#5	48	-	2'	_	
ˈq	퇴	A/2	#5	8	35'-6"	ST4	#5	80		2'-		
ĮĮ	₽ ₽	STI	#5 #5	44	45'-0"	ST5	#5	48	3	2'-1	-///	
L N		Τ2	#5	142	33'-8"	~~~	#1		-	E/		
be		С2	#4	20	38′-3″	A/0 A/5	#4 #4	28		5'-1 9'-1		
SL		SC/	#4 #4	108	6′-6″	A/5 A/6	#4	14		2'-:		
		 	#4	142	33'-8"	CI	#4	21		<u>- '2</u>		
		11	,	112	55 0	R4	#4	29		3'		
						R7	#4	4		10'-		
												-
						R8	#3	50	2	4'	4"	
						R9	#3	14	4	4'-(6"	
						RIO	#3	72	2	4'-(6"	
	[
						T3-T46	†	+	'	†		
	\square											
	_								_	= .		
	ed	PB3	#7	4	33′-8"	PB5	#5	/3.	2	5'-	4"	
	m	PB2	#5	8	33′-8"	PBI	#4	4	1	8'-0	<u>~"</u>	
	ē	PB4	#5 #5	10	32'-8"	1 01	" 4	14	7	0	<u> </u>	
	۱ <u>-</u>	101		10	52 0							
					Non -	Ероху		1				
	0											
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	Substructur											
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				3						- 1		
				2						_		
				I NO. DA	TE	RE	/ISIONS			ВΥ	APP	
					ANSAS DE	PARTMENT	OF TRA	NSPOR	TATIC			
				Br. No.							S†	
				Br.No.		OF REIN					S†	
					X	BENDIN 32' Ro	G DIAG)			
		etails" st	neet 🛛		o.Proj	No.	-	,		Сс	•.C	
-ra	me	Details		SHEET NO. DESIGNED	A.H. DETA	LED G.E	APP'D 3. QUANTITIE 5. QUAN. CK	S B.	S. CADI H. CADI)		
				DESIGN CK.	B.S. DETA		0114***		11 0			





Plot Location: Bridge Design

Roadway Skew and

> Plotted By: *rlong* File: *B32BAR2.dgn* Plot Date: *IO-DEC-2013*

Note:	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
Dimension "X" is out	KANSAS	Proj.No.	YEAR	0	0
to out and is an exact					
dimension.					

See Detail "A".

SPA	ACER FF	RAMES	(Ероху Со	ated)
Mark	No. Ea.	Dim. "X"	Dim. "Y"	🖲 Dim. "Z"
T3,T25	2	1′-05⁄8″	1'-31/4"	0′-4¾"
T4,T26	2	1′-05⁄8"	I'-3 ¹ /4"	0′-3 ¹¹ /16″
T5,T27	2	1′-05⁄8"	1'-31/4"	0′-3 ³ / ₁₆ "
T6,T28	2	1'-05/8"	1'-31/4"	0'-2 ³ /16"
T7,T29	2	1′-05⁄8″	1'-31/4"	⊗ 0′-6ľ⁄ ₈ ″
T8,T30	2	1′-0 ¹³ /16"	1′-37/ ₁₆ "	⊗ 0′-6¾ ₆ ″
T9,T3/	2	'- /4"	'-3 <mark>%</mark> "	0′-35⁄/6"
T10,T32	2	1'-2 /16"	'-4 / ₁₆ "	0′-4′′/16″
T11 , T33	2	1′-3 ³ /16″	1'-5 ¹³ /16"	0′-6%6"
T12,T34	2	1′-45⁄8"	'-7 /4"	0′-9″
T13,T35	2	1′-6¾"	/'-9"	1'-01/16"
T14,T36	2	1'-81/2"	'- /8"	1'-35/8"
T15 , T37	2	1′-107⁄8"	2'-11/2"	'-7 ³ /16"
T16,T38	2	1′-107/8"	2'-11/2"	l'-8 /16"
T17,T39	2	1'-81/2"	'- //8"	1'-3 <u>3/4</u> "
T18,T40	2	1′-6¾"	/'-9"	I'-O"
T19,T41	2	'-45/8"	'-7 /4"	0′-87⁄8"
T20,T42	2	1′-3 ³ /16″	1'-5 ¹³ /16"	0′-6′/4″
T21,T43	2	1'-2 /16"	′-4 / ₁₆ "	0'-4 /4"
T22,T44	2	'- /4"	′-3 <mark>7/</mark> 8"	0'-2¾"
T23,T45	2	1'-0 ¹³ /16"	'-37/ ₁₆ "	⊗ 0′-57⁄ ₁₆ "
T24,T46	1	1′-05⁄8″	'-3 /4"	⊗ 0′-5 / ₁₆ "

Weight of spacer frames included in the mass of reinforcing steel. Weight of spacer frames = 7,447 Lb. (total).

 \otimes Dimension "Z" for spacer frames designated by \otimes is measured from bottom of slab to top of duct as shown in Section B-B.

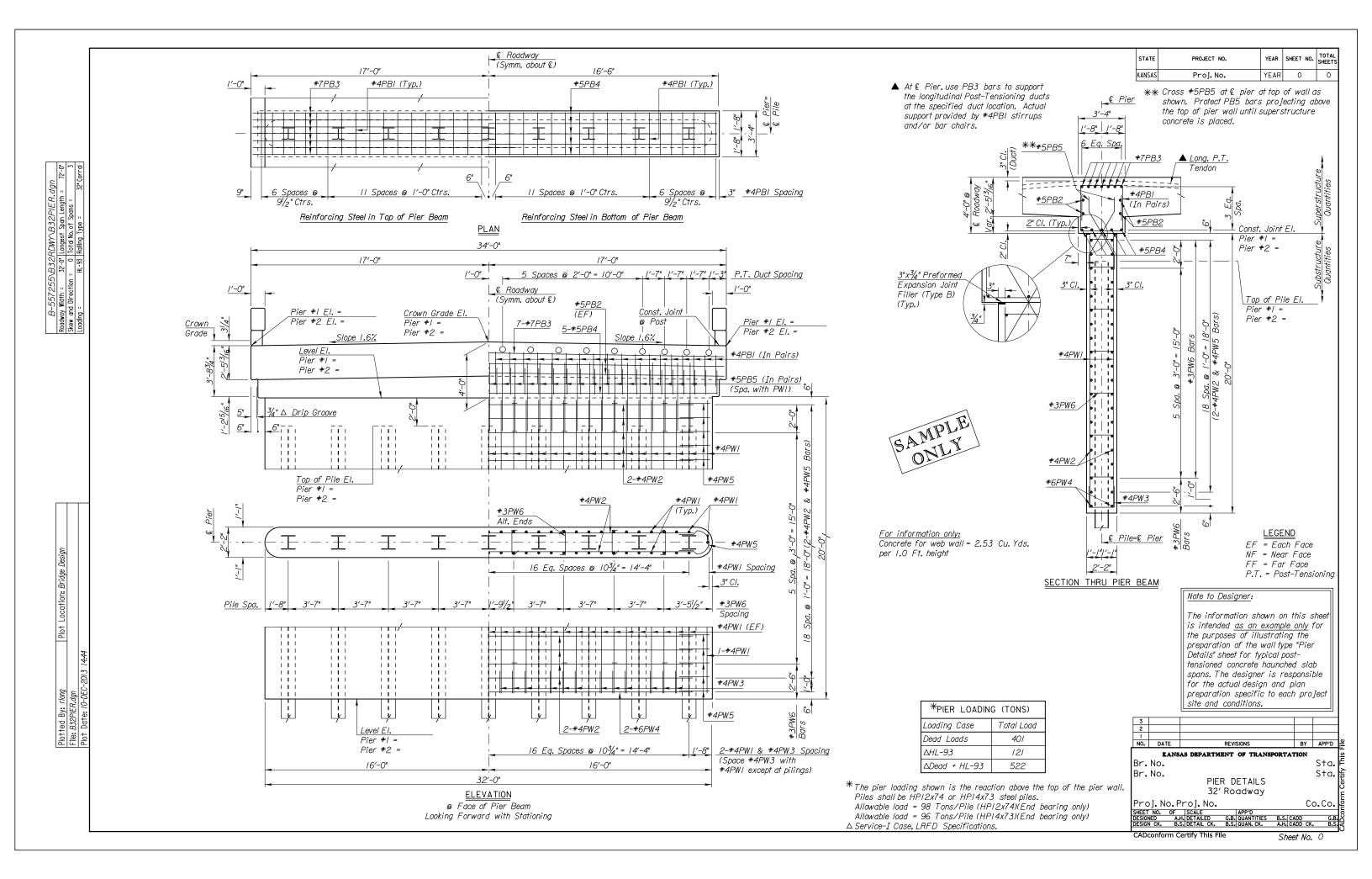
• Dimension "Z" shown above is based on:

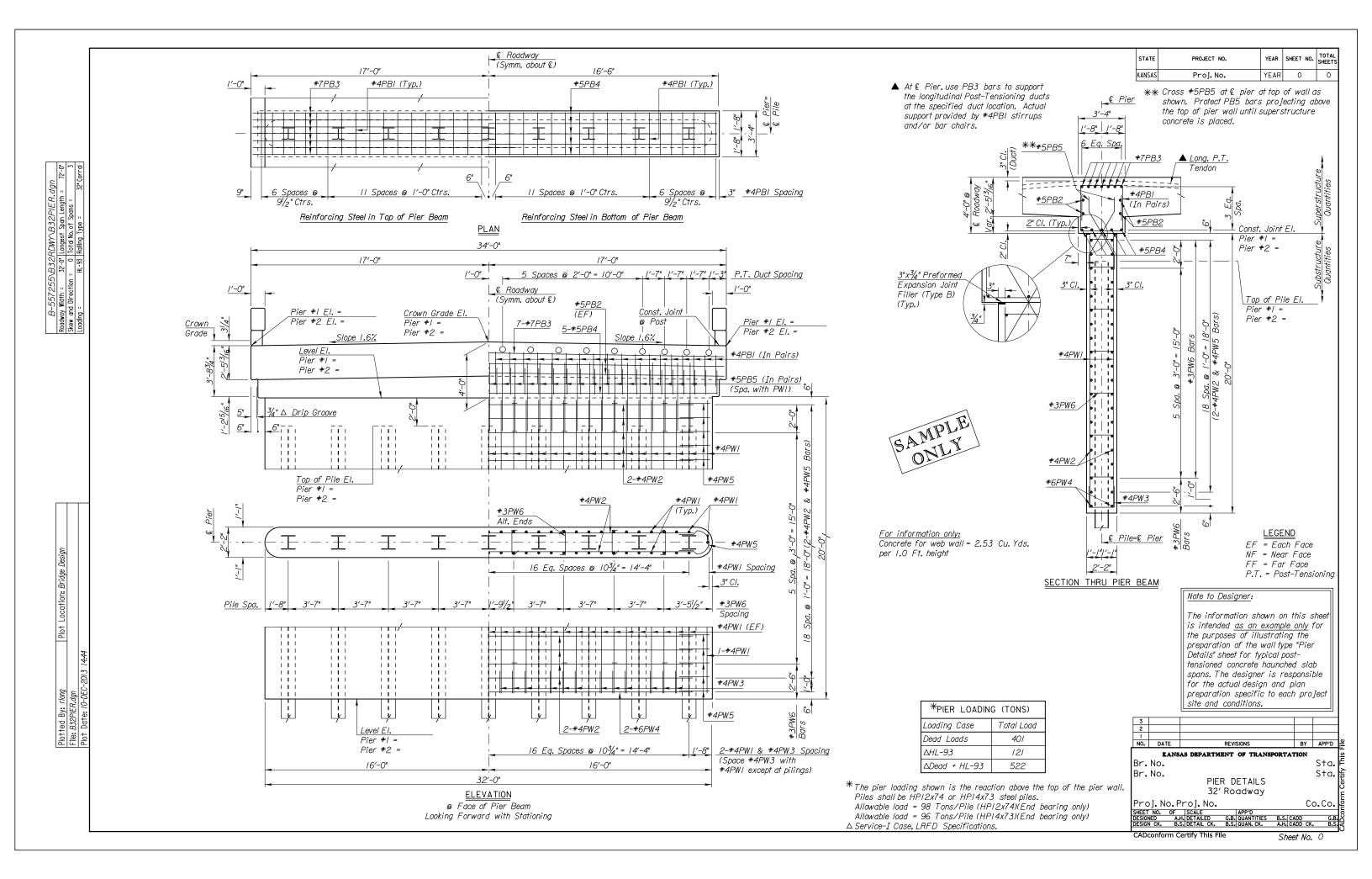
Duct size = 3.59" OD.

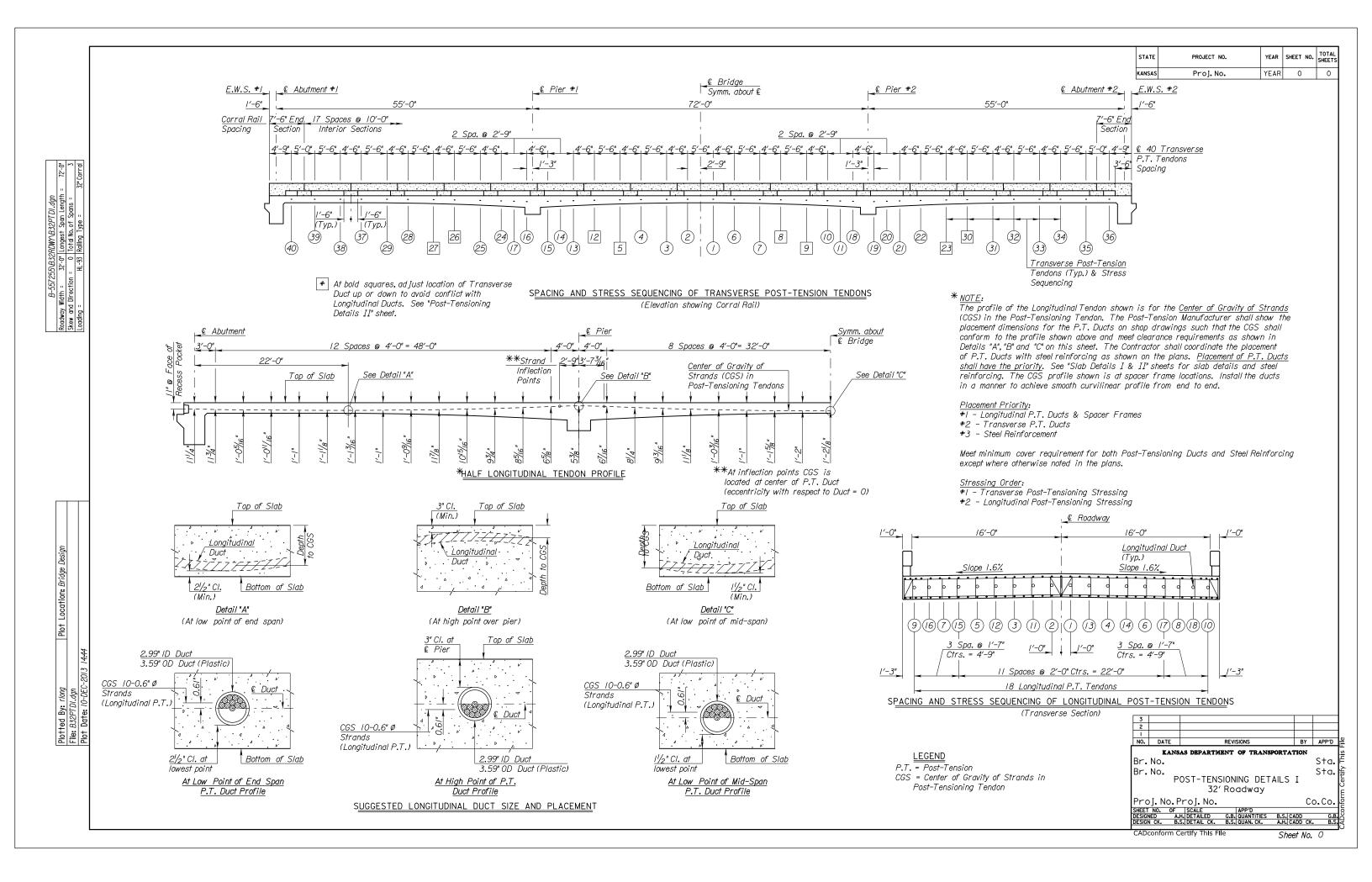
Spacer Frames should not be fabricated until the duct sizes have been determined by the Post-Tensioning Manufacturer. If duct size is different than shown above, ad just "Z" dimension accordingly. Ad justment shall be made in a manner to achieve the center of gravity of strands location and the clearance requirements shown on the plans.

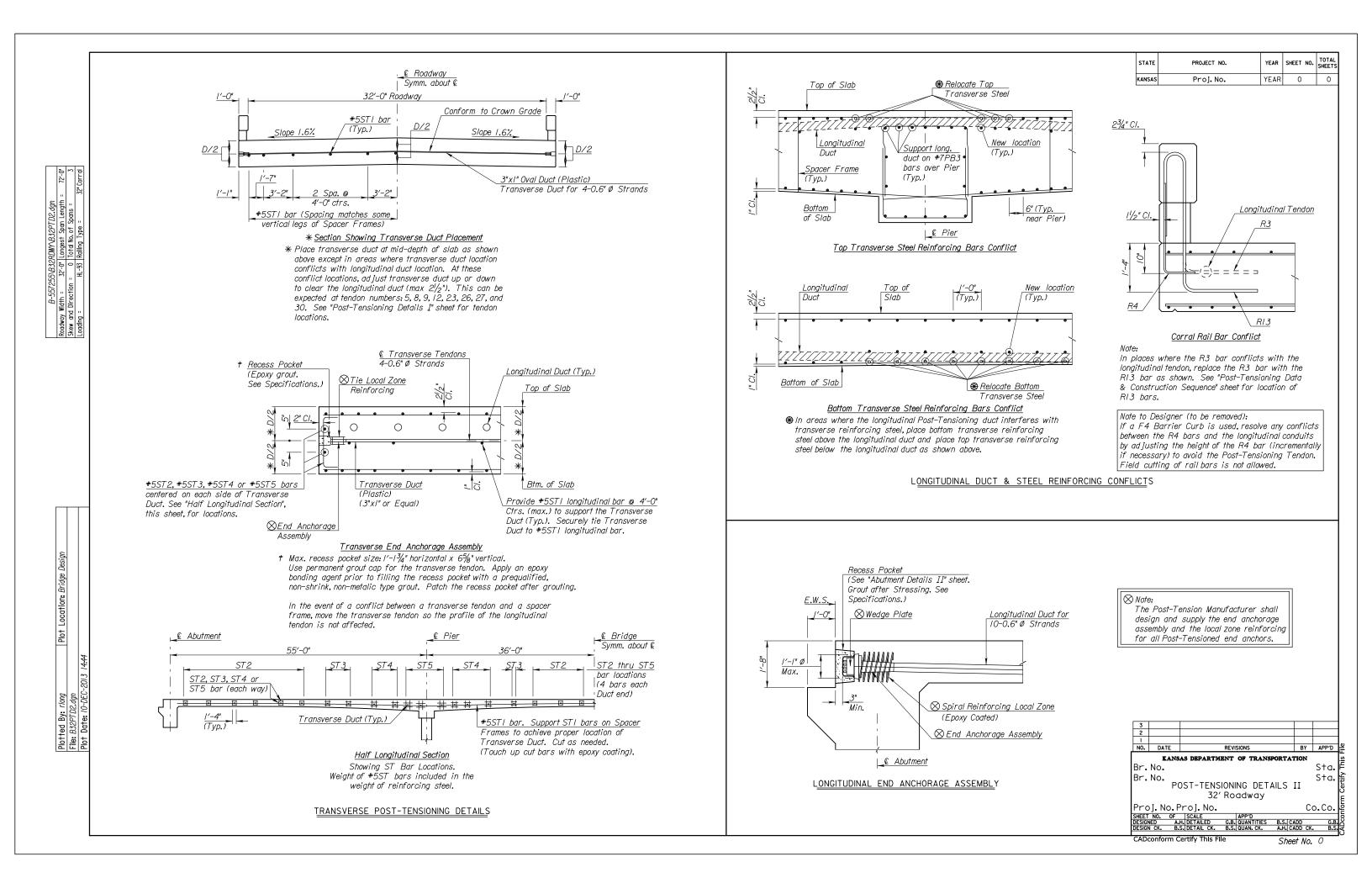
3												
2												
1												
NO.	DAT	ΓE			REVI	SIONS			B	Y	APF	۳D
	K	ANSA	S DEPA	RTM	ENT	OF TRA	NSP	ORT2	ATIO	N		
Br.	No.										S†	a.
Br.	No.	9	SPACE	ER I	FRA	ME DE	έτα	ILS			S+	a.
				32′	Rod	adway	/					
						5						
Pro	T N		-oi. N							6	C	~
	·			NO .								0.
SHEET		0F	SCALE			APP'D						
DESIG			DETAILE			QUANTITI			CADD			G.B. B.S.
DESIG	N CK.	B.S.	DETAIL	CK.	B.S.	QUAN. CK	•	A.H.	CADD	CK.		B.S.
								Sh	eet N	In	Ω	

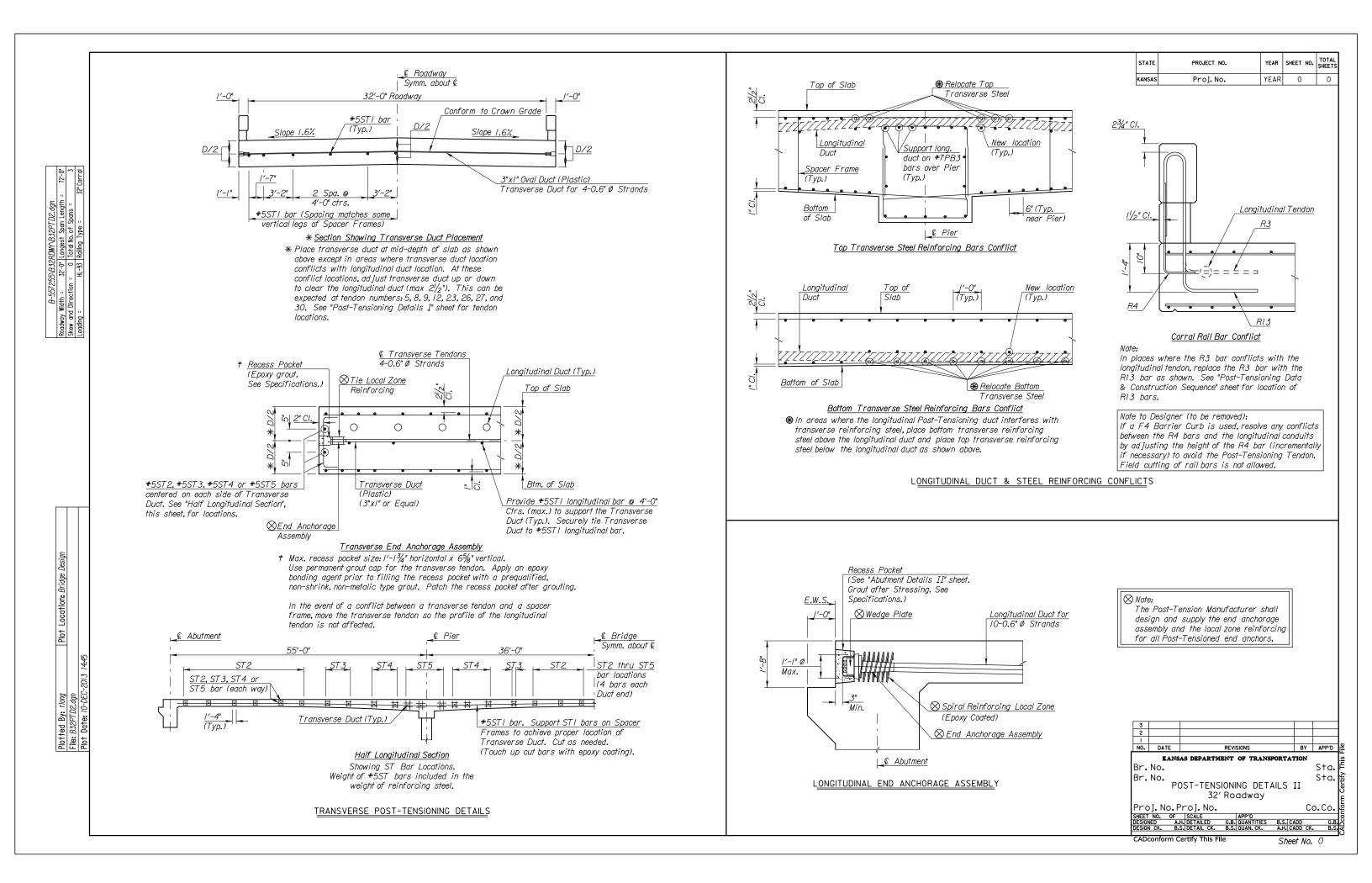
<u></u>				SUMMARY								<i>† Summary of Piling:</i> STATE PROJECT NO. YEAR SHE
	Excavation	Concr	rete	Reinforcii	ng Steel	Steel	Pre-Drilled	Abutment	Bridge	Slope	Post-	Abutment #/ @ Ft. KANSAS Proj. No. YEAR
Item	Class I Class II	Grade 4.0	Grade 5.0	Grade 60 E	poxy Coated	Piles	Pile Holes	Strip	Backwall	Protection	Tensioning	Pier #/ @ Ft. INDEX TO BRIDGE DRAWINGS
Location		(AE)	(AE)()		Grade 60	*		Drain	Prot. Systen	(Shot Rock)	for Slab Bridge	Pier $#2$ \bigcirc Ft.
	Cu. Yds. Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs.	Lbs.	Ft.	Ft.	Sq. Yds.	Sq. Yds.	Cu. Yds.	Lbs.	
Abutment #1		-	**		**			17.2	20.4		-	General Notes & Quantities * NOTE: Use only HP12x53 steel piles in the abutments Slab Flevations
Pier #I			-		-			-	-		-	and UDIAv74 or UDIAv73 stol siles in the size
Pier #2			-		-			-	_		_	
Abutment #2		_	**		**			17.2	20.4		_	FOR INFORMATION ONLY Construction Layout
ADUIIIIEIII "Z			小小		**			11.2	20.7	+		All strand weights based on 0.6" Ø strand system Engineering Geology
<u></u>								244	10.0			Longitudinal Strands = 24,642 Lbs.
Substr. Total			-		-			34.4	40.8		-	Transverse Strands = 4,026 Lbs.
Superstr. Total			∆∆ <i>462.3</i>					-	-		28,668	Total = 28,668 Lbs.
Total			ΔΔ 462.3			+		34.4	40.8		28,668	
Note to Designe	er (to be removed):		*	* * Quantities	are included	in the Supe	erstructure To	tal auantity.	•	•		
	his sheet are a start	ing point Th										
	d check that the prop			\triangle Includes 3						GEN	IERAL NOTES	calculated with a lepath from edge of slab
	fining options are on			Δ Based on .			nsas Corral R ata (without d					to edge of slab
	ned Concrete Haunch						otal has been					Post-Tensioning Details II
	for substructure des			Ducis ine	super sir ucrui		orar nas been	reduced by	9.30 Cu. 10	13.	GRC	TING SUPERVISION AND INSPECTION: Provide an American Not 4400 Grouting Sequence & Post-Tensioning Nu
		ingin concrete										segmental Bridge Institute (ASBI) Certified Grouting Lechnician to
EVICTING STOLL	TURE: Plans of the	aviating atr	inturn	NOT 8000		FTF Super	tructure acco	rata far the	alah ahutm	opto and piou		
	nd available for insp			NOT 8000			structure conc "Concrete (Gro					echnician certification to KDOT staff. Provide three days notice of the Corral Rail Details
	e State Bridge Office			L			substructure					beginning of grouting operations to the KDOT Engineer to allow adequate Bill of Reinforcing Steel & Bending Diag
State Office I	Building,700 SW Ha	arrison Tope	ka KS				Contractor n					ime for ASBI-trained KDOT inspection staff to get to the job site. Spacer Frame Details
	•	,			for	otinas. Reve	l all exposed e	edaes of all	concrete wit	th a 3/4"	~^^	RETE PLACING SEQUENCE: Place concrete in the slab, including
	omplete the embankme			NOT 3500			ling, except as					he intearal part of abutment beam and pier beam continuously from Standard Pile Details
	the "Bridge Excavati						pints are to b					and to end of wearing surface. Bucketing will not be allowed.
	butment piling or con ing excavation.	nmencing wit	n the				oints will not L					Construction joints will not be allowed in the superstructure except for Bridge Excavation
	ng excavanon.					-						avtreme events such as sudden rain equinment failure or an extreme
BRIDGE EXCAVAT	TION: Elevation	shall des	sianate	NOT0010;			EL: All reinfo				NOT7010	mergency in such an extreme event the contractor should stop the concrete <u>DESIGN DALA</u>
the Excavation	n Boundary Plane of	° Class I and	d Class II	NOTOOOO may app			ars unless of					our immediately and place a stepped cold joint as shown on the plans. DESIGN SPECIFICATIONS:
	Class I above the pla						al bars, shall d					
	e "Bridge Excavation	n" sheet for ti	he limits). Spiral bars					Submit a plan relative to the placing of the slab concrete. Include the AASHTO Specifications, 2004 Edition and latest Interin
of pay excava	ition.						Gr. 40 or 60)		nd are includ	led in the bio		proposed rate of concrete placement in Cu. Yds./hr., the plant capacity. Specifications. Load and Resistance Factor Desig
RACKEILL COMPA	CTION: Compact back	fill at the abi	itments	NOT 3300;	ite	m "Reinforci	ing Steel(Gr.	60)".				placement direction, a description of the equipment used in placing the DESIGN LOADING:
DAGINI IEE COMIN A				NOT 3310 may app					Dead land			α
PILING: Drive all p	oiling to Epenetrate o	or bear upon	the		-		camber as sho Election Diagro				-	n The superstructure concrete. Any additional cost for the Contractor's
	formation](or)[c	a minimum e	elevation of	NOT1000; NOT1020 & NOT1010			lbeam falsew					ise of damixines, including the superplashcizer, shall not be para for
^{_]} .	Driving shall stop w	then in the o	pinion of the	may apply			4") or timber :					in echy, but stilan be considered <u>substanting</u> to the bid them, concrete
Engineer add	itional driving may d	amage the pi	ling. Drive				either case e					Grade 5.0)(AE)()". Approval of the Contractor's placing plan is required Note to Designer (to be removed):
the Allowable	he minimum computed	a bearing va	nue equal lo	Use NOT1005 for LRFD foundation	·		tional required		I I GIOOMOI K			prior to the placement of concrete in the slab. The structural design shown on these plans does not include
THE ANOWODIE				designs			ronar roquir ou				517	Optional "double tandem" design allowed for in commentary of URING PERIOD: The superstructure slab shall be cured as per KDOT
Abut	tment #/	Tons				Camper eit	her up or do	ND as show	in on the pla	Ins	JLF	En Dispositions Bridge locations with heavy hack ha
Pier	#/	Tons		Pile splice location NOT 1003 may apply	n					// 3.		may warrant incorporation of this "double tandem" load comb
	#2	Tons		may apply							SL A	POST-CONSTRUCTION LOADS: Loads applied after the slab is placed UNIT STRESSES:
Abut	tment #2	Tons					'S: A licensed				NOT 4110; NOT 4100	ind post-tensioned shall comply with the KDOT Standard Specifications.
When using t	he pile driving formu	ula in the KI					details. Detai				may apply	Concrete (Grade 4.0) f'c = 4,000 psi
Specifications	s, drive the pile to th	e Allowable I	load and				ngineer. See				CON	RETE TESTING Concrete cylinder testing is required to be performed Concrete (Grade 4.0)(AE) f'c = 4,000 psi
penetration, bu	ut in no case shall th	ne pile be dri	iven to EMOR	E			nd Approval of				tems	y the Engineer prior to stressing operations. The test cylinders shall Concrete (Grade 5.0)(AE)() f'ci = 3,800 psi (at
THAN 150%	OF THE ALLOWAB	LĖ LOADJ (or)[MORE				on the falsew					be cast from the same batch of concrete in the superstructure and $Concrete (Grade 5.0(AE)())$ f'c = 5,000 psi
THAN	TONS at the abutme	ents or T	ONS at the		COI	mpliance with	h KDOT Speci	itications to	othe Field E	ngineer for		rured at the site in the same manner as the bridge superstructure Reinforcing Steel (Grade 60) fy = 60 ksi
	n where problems ar				ENCO	WORK INCO	ECTION THA	project ha	falcowark	olan	WOT MODE WOT WOT	oncrete. The concrete shall be tested prior to transverse and longitudinal Prestressing Steel (Grade 270) fpu = 270 ksi
	apparent refusal occ						ECTION: This hich are con				NOT4106: NOT4105 may apply	tressing for the initial compressive strengths, f'ci, specified on the plans
	p elevation, the Engil Analyzer (PDA) equip						If falsework			1		or stressing operations. All concrete strength tests shall be performed
, no Di Wing I	analyzor (1 DA) equit						ins are found.					is per KDOT Specifications. No stressing shall commence unless the DESIGN PILE LOAD:
POST-TENSIONING	G: See the General No	otes on the "	Grouting				approval of t					nitial specified compressive strength, f'ci, is attained prior to each testing phase in accordance with the plans.
	Post-Tensioning Note				Co.	ntractor the	falsework bed	comes Tvne	"A" by the us	se of non-tvni	ical	Loading Design Load Anowable
000041 0111 5	•••••				SU	pports; then	the inspection	and review	v requiremen	nt of Type "A"		(Tons per I
	ild the corral rail aft	ter all post-te	ensioning is				but at no cost					Slab Elevations" speet in the table at locations designated by a "(2)" Abur. Service Use NOT
complete.							directly, but					LRFD 1 decime
ARIITMENT STRI	P DRAIN: See the G	eneral Notes	on the	NOT 3/30	_	-						be Engineer shall submit the table on a half-sized sheet to the State Piers, Service
	ip Drain" sheet.						the falsework					Ridge Office, KDOT, Eisenhower State Office Building, 700 SW
	,						complete and i				for the	larrison, Topeka, KS.
	LL PROTECTION SY		the General	NOT 3140			slab unit or					
Notes on the	"Abutment Strip Drai	n" sheet.		L	the	e Engineer a	minimum of	two days p	rior to remo	val of the fals		
			lles		600T -	FENOIO			-	, .		or clear span bridges requires two independent surveys. See KDU1
	WATER PROOFING						MEASUREME				·	LFD RATING FACTORS KANSAS DEPARTMENT OF TRANSPORTA
	ructure waterproofin to sealthe vertical						computed we					Rating Br. No.
anchorage rec		iuce ur rne h	ungnuarhar ei	iu			-Tensioning".					Level Inventory Operating Br. No.
0				VOTOCOC			post-tensioning					Truck
BROKEN CONCRE	TE			NOT8230 may app		riets, local zo	ne reinforcing	g, spacer fr	ames and ac	attional supp	ort steel	HS-20 (36T) 1.15 1.71 32' Roadway
	ISTING STRUCTURE			NOT8210 or NOT			nchorage proi					
<i>ΥΓΜΟΛΑΙ ΟΓ ΓΥ</i>	STRUCTURE			may apply	STr		ting, recess p					TYPO THET CHIEF APP'D
						NC AQUIDMAN	rana incident	als necessa	ITV TOT COMDI	leting the wor	- K I D	1 0000 LED Deting 17th Edition AACUTO
REMOVAL OF EX. SLOPE PROTECT	ION			NOT 35/0; NOT 352 NOT 8240 may app			h the latest s					2002 LFD Rating. 17th Edition AASHTO





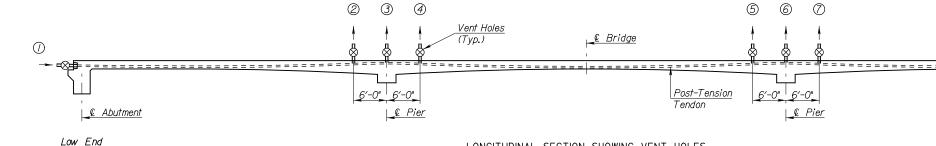






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NOTE: Additional vents will be needed at the low points of the tendons in the event of cold weather. The vents will be required to avoid potential freezing of trapped water at the low points. The sequence of grout procedure will remain the same as shown on the plans and the extra vents will be closed immediately before grouting.

I. Tendon Placement:

Place the tendons so that the center of gravity of strands (CGS) is as per the plans. Position the ducts accurately at the locations shown on the plans and rigidly tie the ducts in place to prevent movement during placement of the slab concrete (The Post-Tensioning Manufacturer's representative will inspect and approve the installation of the duct work.) Reinforcing, additional to that which is shown on the plans, may be required to secure the duct to the smooth curvilinear profile shown on the plans. Any such additional reinforcing will be <u>subsidiary</u> to the bid item, "Post-Tensioning for Slab Bridge". The Post-Tension Manufacturer shall furnish the actual dimensions to the top of the duct so that the CGS of the post-tensioning tendons is as per the plans. The spacer frame details furnished are based on assumed duct sizes as shown on the plans. Verify the spacer frame details and revise if necessary as per the actual size of the duct furnished by the Post-Tension Manufacturer and approved by the Engineer.

Transverse strands must be placed in the ducts prior to the placement of the deck concrete. Provide sufficient additional support bars, ties, spacer frames, additional duct supports, chairs, etc., considered <u>subsidiary</u> to the bid item "Post-Tensioning for Slab Bridge", to prevent displacement of the longitudinal and transverse ducts during concrete placement. All bars, ties, spacer frames, additional duct supports, chairs, etc. shall be epoxy coated.

A qualified representative of the Post-Tension Manufacturer, experienced in the proposed type of work, shall perform a thorough inspection of all tendon placement including anchorages and all post-tension hardware installation prior to the placement of concrete. Do not place concrete in the abutment and the superstructure prior to the approval by the Post-Tension Manufacturer and the Engineer of the superstructure geometry and the posttension hardware installation.

GROUT PROCEDURE

LONGITUDINAL SECTION SHOWING VENT HOLES

1. Begin arouting from the lowest grout inlet of either end of the bridge, taking into account the bridge longitudinal grade (vertical profile).

2. Conduct grouting continuously in one direction.

3. Assuming the grout inlet is at point (), close grout vents in the following sequence after the ASBI Certified Inspector has verified that all residual water and trapped air has been removed as per PTI procedures.

2, 4, 3, 5, 7, 6, 8, 7

4. Remove inlets and outlets $l'/_2$ " below the concrete surface; fill recess caused by the removal with epoxy grout as per KDOT Specifications.

Note: For transverse tendons, no intermediate grout vent is required.

CONSTRUCTION NOTES FOR POST-TENSIONING

2. Tolerance:

The tolerance for the slab depth is $\pm \frac{1}{4}$ and the tolerance for tendon placement is $\pm \frac{1}{4}$.

3. Stressing:

Perform all stressing operations in accordance with AASHTO and PTI specifications under the immediate control of a qualified representative of the Post-Tension Manufacturer. Provide adequate scaffoldings, platforms and safety devices as required by OSHA and the Post-Tension Manufacturer for the stressing procedures.

Do not apply post-tensioning forces until the concrete attains the specified initial compressive strengths, f'ci, as determined by the cylinder tests. Begin stressing as soon as reasonably possible, after concrete has attained sufficient strength, in order to minimize temperature and shrinkage cracks in the concrete. Do not commence stressing before the end of 72 hours after the slab pour is complete and complete stressing within seven days after the slab pour is complete.

Stress the tendons to the lacking forces in accordance with the stressing sequence specified on the plans, but do not exceed 80 percent of the ultimate stresses of the strands. The longitudinal tendons, after stressing is complete, shall have symmetrical stresses such that the point of "no movement" or the "least force" is at the center line of the bridge. This will require stressing from both ends of each cable, but not simultaneously.

4. Grouting:

Plug both ends of plugs in place unti complete and appro material for grouting Manufacturer's spe

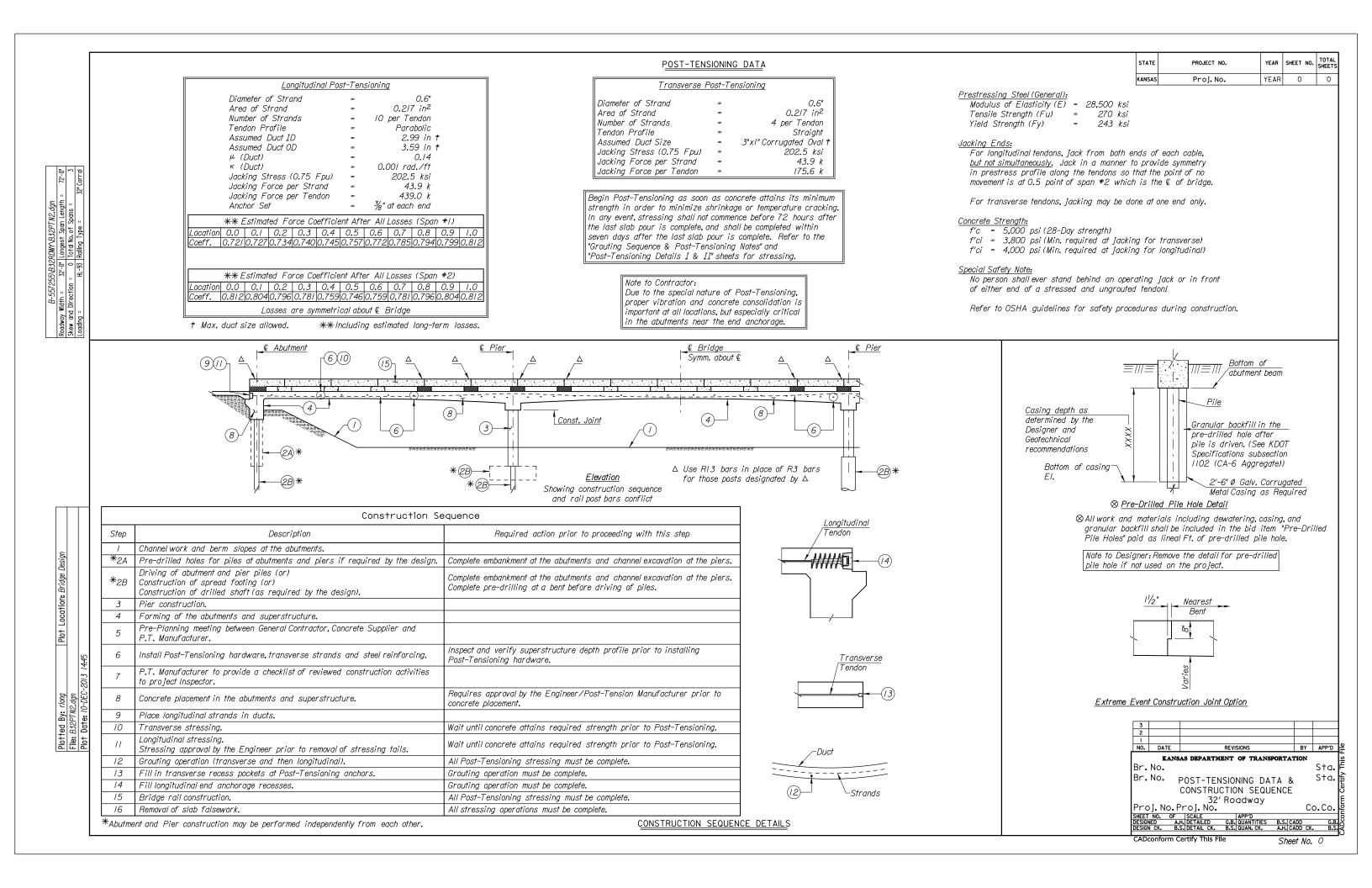
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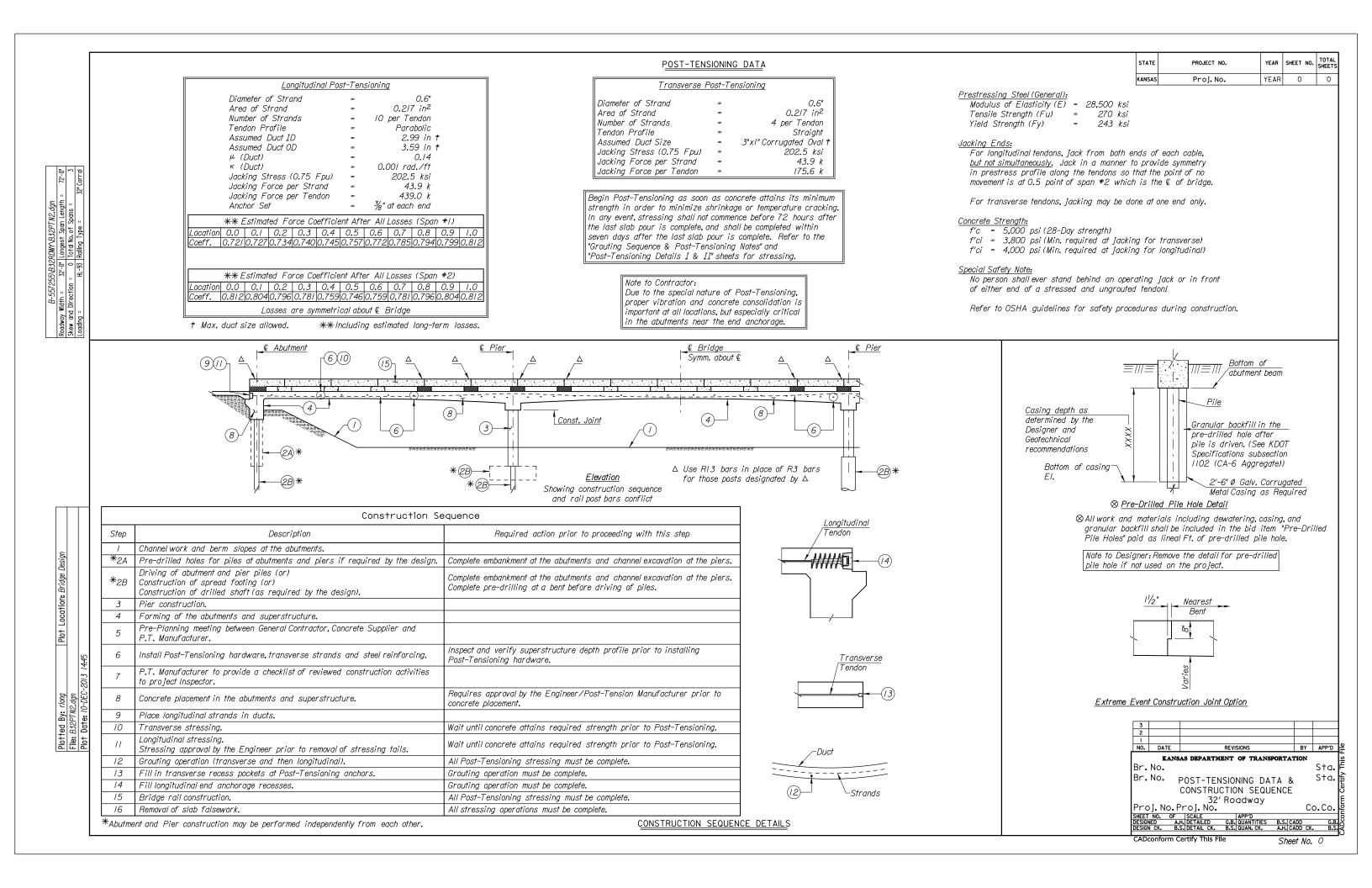
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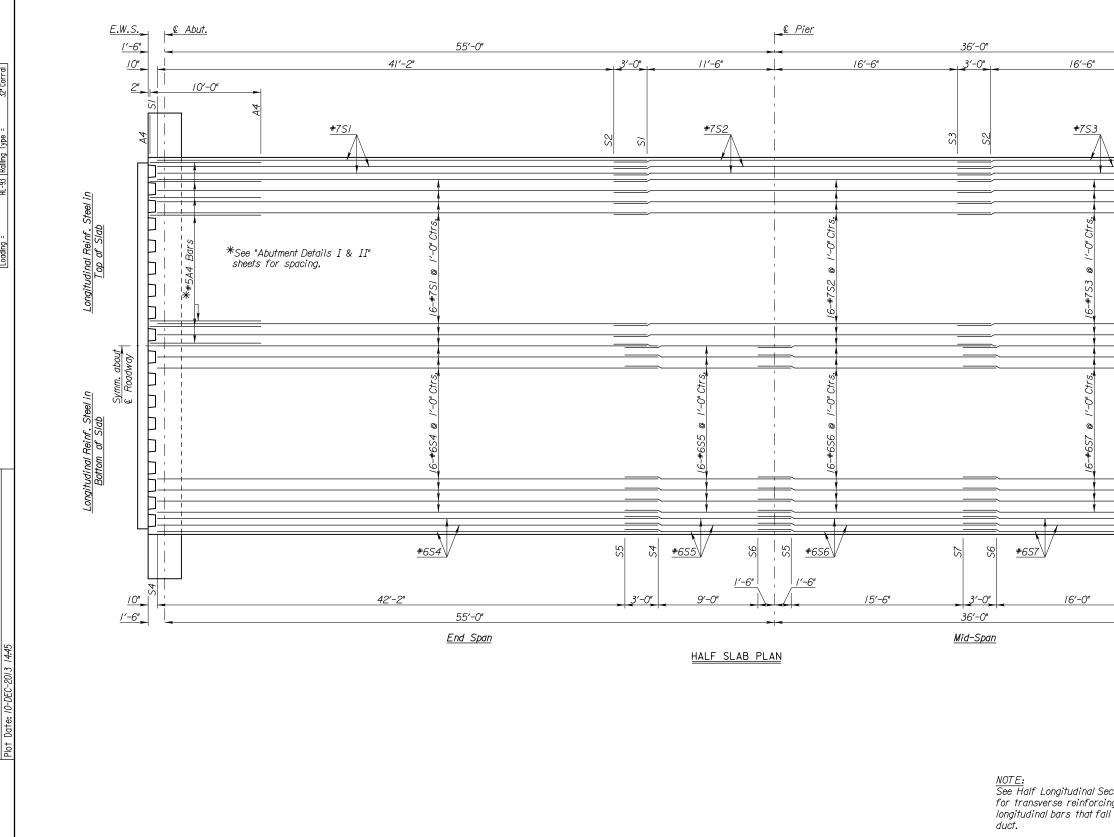
6. Specifications:

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NOTE TO DESIGNER (to be removed						
For bridge locations in "highly visibi areas or grade crossings, consider i	rubbing aı	nd grouting				
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Plot Location: Bridge Design

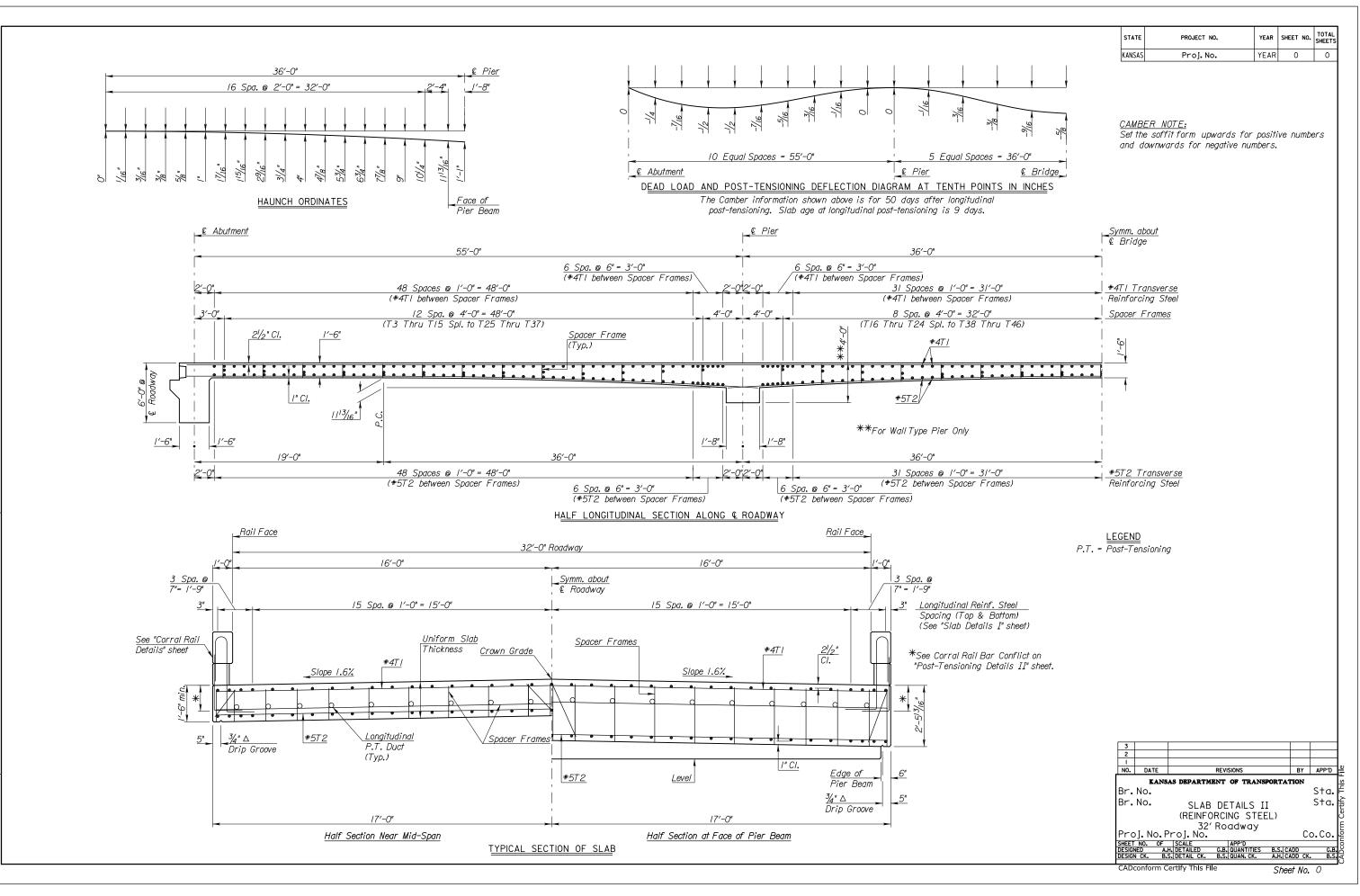
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B-5£ Roadway Widtl Skew and Dire Loadina =

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Plotted By: *rlong* File: B32SS1.dgn Plot Date: 10-DFC-

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Plotted By: *rlang* Plot Location: *Bridge Design*

