10	IO. STEEL H-PILES SEE PILE NOTE 6 ON DWG. NO. PL-01 REGARDING THE STEEL H H-PILES SHALL BE AASHTO M 270 (ASTM A 709), GRADE 50.	-PILE ALTERNATIVE. STEEL			
	DELAWARE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS EX RELAXATION STRAND SHALL BE USED.				
9.	 PRESTRESSED CONCRETE PILES ALL PRESTRESSED CONCRETE PILES SHALL BE IN ACCORDANCE W 				
8.	3. ELASTOMERIC BEARINGS AND TFE-STAINLESS STEEL BEARINGS FOR REQUIREMENTS OF THE ELASTOMERIC BEARINGS, SEE DWG. REQUIREMENTS OF THE TFE-STAINLESS STEEL BEARINGS, SEE D				
	THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING PRIMARY LOAD CARRYING MEMBERS UNDER TENSILE STRESS.				
7.	7. STRUCTURAL STEEL ALL STRUCTURAL STEEL SHALL BE AASHTO M 270 (ASTM A 709)				
	FOUNDATION ELEMENTS: 3" DECK SLABS: 2½" TOP OF SLAB (INCLUDES ½" INTEGRAL W 1" BOTTOM OF SLAB WHEN STAY-IN-PLACE FOR				
	MINIMUM CONCRETE COVER FOR REINFORCING STEEL UNLESS NOT	ED OTHERWISE SHALL BE:			
	ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER THE AASH SPECIFICATIONS.	TO BRIDGE DESIGN			
	ALL REINFORCING STEEL HAS BEEN DETAILED FOR A MAXIMUM L	ENGTH OF 60 FT.			
	DECK SLAB PARAPETS ABUTMENTS				
	SLEEPER SLAB APPROACH SLABS				
	EPOXY COATED REINFORCING STEEL SHALL BE USED IN THE FOL	LOWING LOCATIONS:			
	ALL REINFORCING STEEL SHALL BE AASHTO M 31 (ASTM A 615) REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED AASHTO M 284 (ASTM A 775).				
6	ALL EXPOSED EDGES SHALL BE CHAMFERED $\frac{3}{4}$ " UNLESS NOTED O 6. REINFORCING STEEL	THERWISE.	THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.		
	CLASS D - CONCRETE DECK SLAB, SLEEPER SLAB, AND APPROAC		THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY RELOCATING ANY UTILITIES DURING CONSTRUCTION.	WHERE NECESSARY, THE COST FOR	
	CLASS A - ABUTMENTS, STEMS, BACKWALLS, AND PARAPETS (f'c = 4,500 PSI).		FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AN ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UT	ND/OR REVISIONS, OR LIABILITY FOR	
	ALL CONCRETE PROPERTIES SHALL BE IN ACCORDANCE WITH SEC DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFIC		UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS, E SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE APPROPRIATE UTILITY COMPANY. THE DEPARTMENT E	DUE TO THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE	
5	WHICH REMAIN IN PLACE.		CONDUCT OPERATIONS IN A MANNER WHICH ENSURES DISTURBED OR ENDANGERED. ANY DAMAGE INCURRED		
4	HL-93 AND DELAWARE LEGAL LOADS FOR LIVE LOAD WITH PROVI 2" WEARING SURFACE AND 15 LBS/FT ² FOR THE USE OF STEEL		COORDINATE THE REQUIREMENTS FOR PROTECTION OF OWNER PRIOR TO STARTING WORK.	ANY UTILITY WITH THE UTILITY	
	DETAILS AND THE CONTRACT SPECIAL PROVISIONS.		CALLING "MISS UTILITY" AT 1-800-282-8555 A MI START OF WORK. VERIFY AND LOCATE ALL UTILITIE	INIMUM OF 2 WORKING DAYS PRIOR TO	
	PROVISIONS AND THE 2005 DELDOT BRIDGE DESIGN MANUAL.PRO WORK IN ACCORDANCE WITH THE DELDOT STANDARD SPECIFICATION	VIDE MATERIAL AND PERFORM	18. UTILITIES BEFORE BEGINNING WORK, THE CONTRACTOR SHALL (
3.	3. DESIGN CRITERIA AND SPECIFICATIONS 2007 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDIN	G 2008 AND 2009 INTERIM	FOR LOAD AND RESISTANCE FACTOR RATING, SEE BE ON THIS SHEET.	RIDGE NO. 1-460A LOAD RATING SUMMARY	
2.	2. ELEVATIONS VERTICAL DATUM IS REFERENCED TO NAVD 88.		17. LOAD RATINGS		
	PROPOSED NEW STRUCTURE CARRYING JAMISON CORNER ROAD OVE COUNTY, DELAWARE.	R US 301 IN NEW CASTLE	IN LIEU OF A 2:1 SLOPE, THE CONTRACTOR MAY US 5 FEET IN HEIGHT. THE COST OF THE SHORING SHA EXCAVATION AND BACKFILL FOR STRUCTURES.		



DESIGN VEHICLE
HL-93 TRUCK (INVENTORY)
HL-93 TANDEM (INVENTORY)
HL-9 <mark>3 T</mark> RUCK TRAIN (INVENTOR)
HS- <mark>20</mark> (INVENTORY)
HL-93 TRUCK (OPER <mark>ATIN</mark> G)
HL-93 TANDEM (OPERATING)
HL-93 TRUCK TRAIN (OPERATING
HS-20 (OPERATING)
DE S220 & LEGAL-LANE (LEGAL
DE S335 & LEGAL-LANE (LEGAL
DE S437 & LEGAL-LANE (LEGAL
DE S330 & LEGAL-LANE (LEGAL
DE S435 & LEGAL-LANE (LEGAL
DE S540 & LEGAL-LANE (LEGAL
NOTE: LOAD RATING INCLUDES F

US 301, SR 896 TO SR 1

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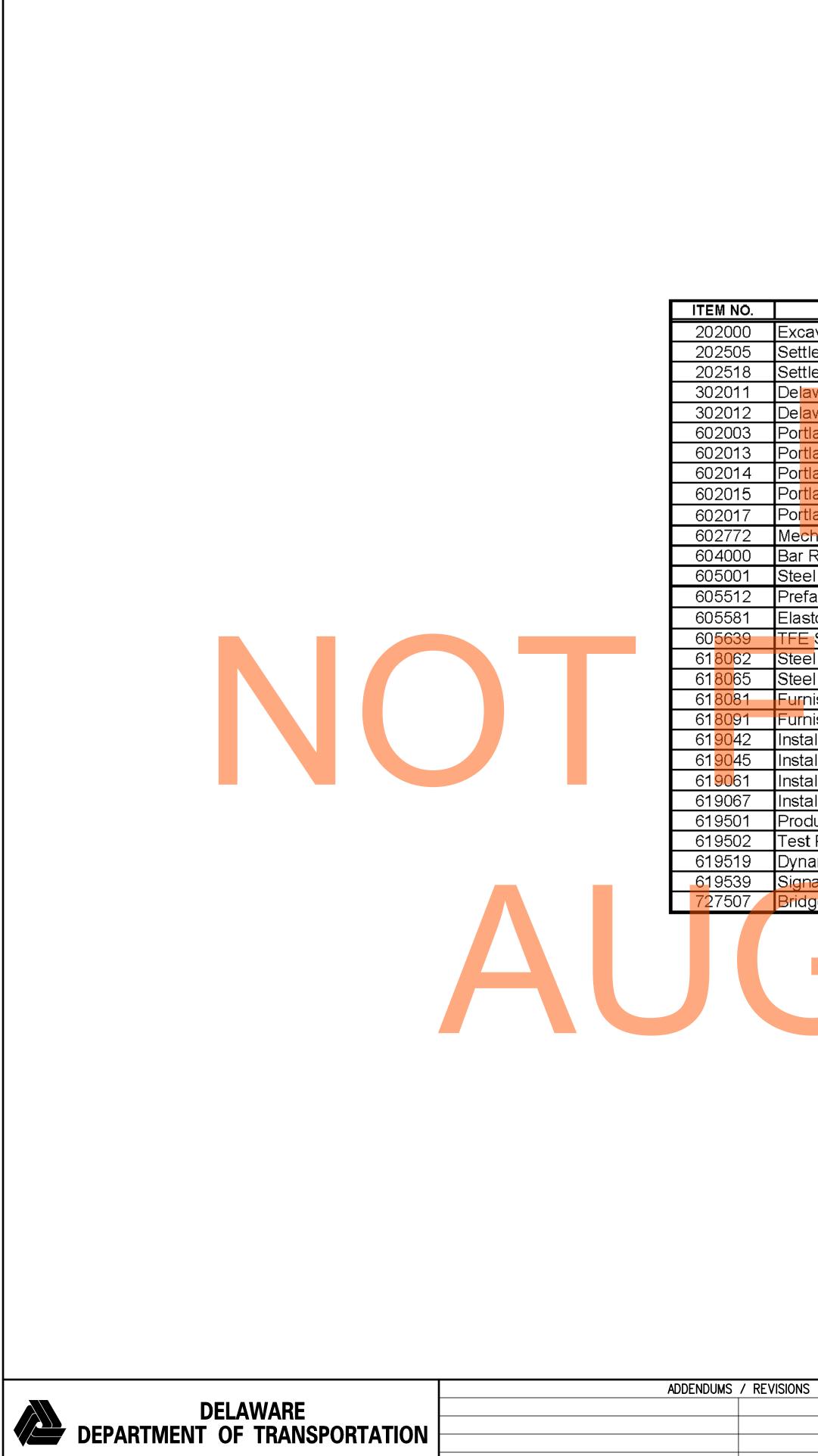
	BRIDGE	NO. 1-460A INDEX OF SHEETS
SHEET NO.	DWG. NO.	TABLE OF CONTENTS
497	PN-01	PROJECT NOTES
498	QS-01	QUANTITY SUMMARY
490	TS-01	SUPERSTRUCTURE TYPICAL SECTION
<u> </u>	PE-01	GENERAL PLAN AND ELEVATION
500	GR-01	GRADING PLAN
502	FT-01	
		GEOMETRIC AND FOOTING LAYOUT PLAN
503	PL-01	PILE LAYOUT PLAN
504	PL-02	PILE DETAILS
505	AB-01	ABUTMENT A PLAN AND ELEVATION
506	AB-02	MSE WALL AT ABUTMENT A
507	AB-03	ABUTMENT B PLAN AND ELEVATION
508	AB-04	MSE WALL AT ABUTMENT B
509	AB-05	ABUTMENT AND MSE WALL SECTIONS
510	AB-06	ABUTMENT A REINFORCEMENT DETAILS - 1
511	AB-07	ABUTMENT A REINFORCEMENT DETAILS - 2
512	AB-08	ABUTMENT B REINFORCEMENT DETAILS - 1
513	AB-09	ABUTMENT B REINFORCEMENT DETAILS - 2
514	AB-10	ABUTMENT REINFORCEMENT DETAILS
515	RB-01	SUBSTRUCTURE REINFORCEMENT LIST
516	BB-01	FIXED BEARING DETAILS - ABUTMENT A
517	BB-02	EXPANSION BEARING DETAILS - ABUTMENT B
518 BM-01		GIRDER ELEVATION
519 BM-02		STRUCTURAL STEEL DETAILS
520	BM-03	SPLICE DETAILS
521	CT-01	CAMBER DIAGRAM
522	FR-01	FRAMING PLAN
523	PS-01	DECK SLAB POURING SEQUENCE
524	SD-01	SUPERSTRUCTURE DETAILS
525	DK-01	DECK SLAB AND PARAPET REINFORCEMENT
526	DK-02	DECK SLAB AND PARAPET REINFORCEMENT DETAILS - 1
527	DK-03	DECK SLAB AND PARAPET REINFORCEMENT DETAILS - 2
528	RB-02	SUPERSTRUCTURE REINFORCEMENT LIST
529	RE-01	FINISHED ROADWAY ELEVATIONS
530	FD-01	FENCE DETAILS - 1
531	FD-02	FENCE DETAILS - 2
532	EX-01	ARMORED STRIP SEAL JOINT DETAILS
533	AS-01	APPROACH SLAB A PLAN AND REINFORCEMENT PLAN
534	AS- <mark>02</mark>	APPROACH SLAB A DETAILS
535	AS- <mark>03</mark>	APPROACH SLAB B AND SLEEPER SLAB B PLAN
536	AS- <mark>04</mark>	APPROACH SLAB B AND SLEEPER SLAB B REINFORCEMENT PLANS
537	AS- <mark>05</mark>	APPROACH SLAB B AND SLEEPER SLAB B DETAILS
538	AS- <mark>06</mark>	APPROACH SLAB AND SLEEPER SLAB DETAILS
539	RB- <mark>03</mark>	APPROACH SLAB AND SLEEPER SLAB REINFORCEMENT LIST
540	B0 + 01	BORING PROFILE

L	OAD	RATING	SUMMARY		
	RATING FACTOR	RATING WEIGHT (TON)	CONTROLLING MEMBER	CONTROLLING POINT	LOAD EFFECT
	1.29	N/A	EXTERIOR GIRDER	MIDSPAN	FLEXURE
	1.53	N/A	EXTERIOR GIRDER	MIDSPAN	FLEXURE
נאד	N/A	N/A	N⁄A	N⁄A	N/A
	1.99	71.58	EXTERIOR GIRDER	MIDSPAN	FLEXURE
	1.67	N/A	EXTERIOR GIRDER	MIDSPAN	FLEXURE
	1.98	N/A	EXTERIOR GIRDER	MIDSPAN	FLEXURE
VG)	N/A	N/A	N⁄A	N⁄A	N/A
	2.58	93.06	EXTERIOR GIRDER	MIDSPAN	FLEXURE
AL)	3.48	69.57	EXTERIOR GIRDER	MIDSPAN	FLEXURE
AL)	1.96	68.67	EXTERIOR GIRDER	MIDSPAN	FLEXURE
L)	1.87	68 . 48	EXTERIOR GIRDER	MIDSPAN	FLEXURE
L)	2.52	75.49	EXTERIOR GIRDER	MIDSPAN	FLEXURE
AL)	2.18	76 . 36	EXTERIOR GIRDER	MIDSPAN	FLEXURE
AL)	1.92	76.72	EXTERIOR GIRDER	MIDSPAN	FLEXURE
FUTL	JRE WEARIN	NG SURFACE AS NO	DTED IN THE PLANS.		

CONTRACT T200911308	BRIDGE NO.	1–460A
T200011308		1 100/1
1200911308	DESIGNED BY:	
COUNTY	DESIGNED DI.	A.D.D.
NEW CASTLE	CHECKED BY:	В.К.В.

PROJECT NOTES

BR1--8 PN--01 SHEET NO. 497 TOTAL SHTS.



US 301, SCALE: AS NOTED SR 896 TO SR 1

ITEM NAME	UNITS	QUANTITY	
xcavation and Embankment	CY	347	
ettlement Platform	EACH	4	
ettlement Monument	EACH	4	
elaware No. 3 Stone	TON	91	
elaware No. 57 Stone	TON	67	
ortland Cement Concrete Masonry, Abutment Footing, Class A	C. <mark>Y.</mark>	71	
ortland Cement Concrete Masonry, Superstructure, Class D	C. <mark>Y.</mark>	331	
ortland Cement Concrete Masonry, Approach Slab, Class D	C. <mark>Y.</mark>	163	
o <mark>rtla</mark> nd Cement Concrete Masonry, Abutment Above Footing, Class A	C. <mark>Y.</mark>	37	
ortland Cement Concrete Masonry, Parapet, Class A	C. <mark>Y.</mark>	44	
echanically Stabilized Earth Walls	L. <mark>S</mark> .	1	
ar Reinforcement, Epoxy Coated	LBS	117,736	
teel Structures	LBS	354,900	
refabricated Expansion Joint System 4"	L.F.	56	
lastomeric Bearing Pads	EACH	6	
E Stainless Steel Structural Bearings	EACH	6	
teel H Piles, HP 14x73	L.F.	1,158	
teel H Test Piles, HP 14x73	L.F.	426	
urnish Precast Prestressed Concrete Piles, 14" x 14"	L.F.	874	
urnish Precast Prestressed Concrete Test Piles, 14" x 14"	L.F.	312	
stall Steel H Piles, HP 14x73	L.F.	1,1 <mark>58</mark>	
stall Steel H Test Piles, HP 14x73	L.F.	426	
stall Precast Prestressed Concrete Piles, 14" x 14"	L.F.	874	
stall Precast Prestressed Concrete Test Piles, 14" x 14"	L.F.	312	
roduction Pile Restrike	EACH	3	
est Pile Restrike	EA.DY.	1	
ynamic Pile Testing by Contractor	EACH	10	
gnal Matching Analysis by Contractor	EACH	10	
ridge Safety Fence	L.F.	354	



NOTES:

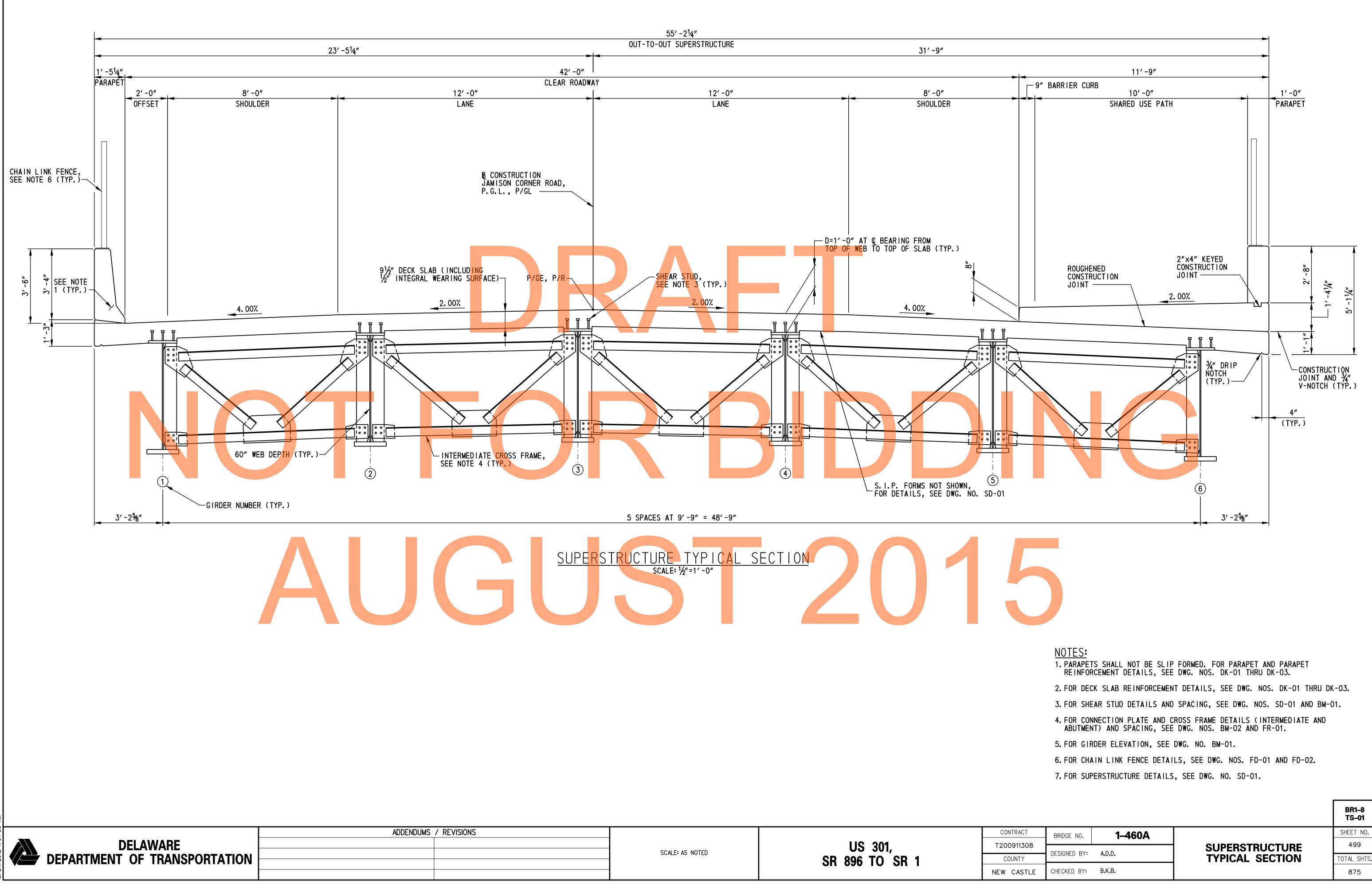
1. THE QUANTITY SUMMARY INCLUDES QUANTITIES FOR BRIDGE 1-460A STANDARD ITEMS, PILE ALTERNATIVE 1 (14" PRESTRESSED CONCRETE PILES) ITEMS AND PILE ALTERNATIVE 2 (HP 14X73 PILES) ITEMS. ITEM NOS. 618081, 618091, 619061 AND 619067 ARE APPLICABLE TO PILE ALTERNATIVE 1. ITEM NOS. 618062, 618065, 619042 AND 619045 ARE APPLICABLE TO PILE ALTERNATIVE 2. ALL OTHER ITEMS ARE STANDARD ITEMS. SEE PILE NOTE 6 ON DWG. NO. PL-01 FOR ADDITIONAL INFORMATION REGARDING PILE ALTERNATIVES.

2. ITEM 202000 IS REPRESENTED UNDER TYPE C MATERIAL REQUIRED, "TYPE C BACKFILL FOR STRUCTURES". SEE DRAWING EW-05.

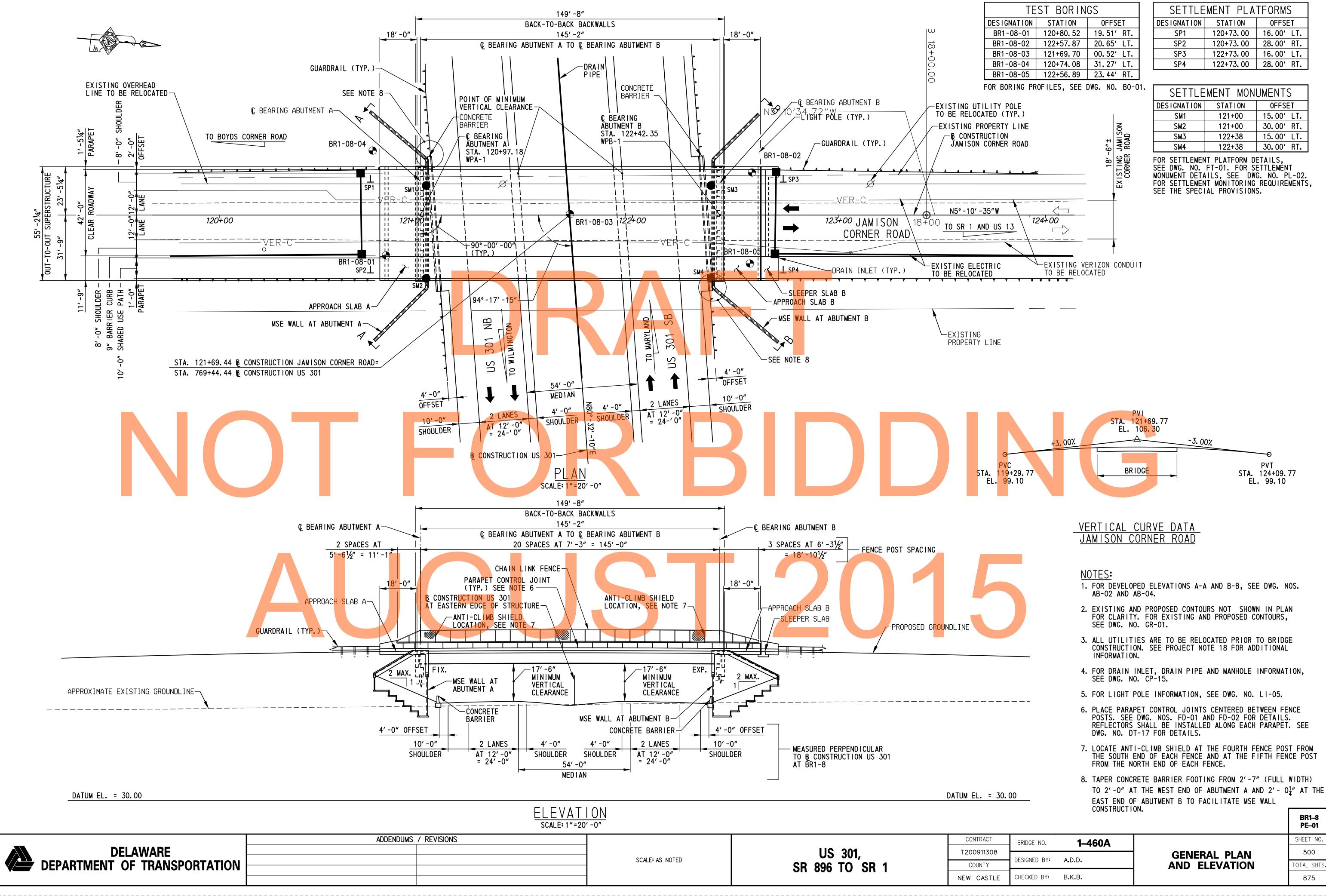
BR1-8 QS-01				
SHEET NO.				
498				
TOTAL SHTS.				
875				

CONTRACT	BRIDGE NO.	1–460A
T200911308		1 100/1
1200911300	DESIGNED BY:	WTD
COUNTY	DESIGNED DI.	¥¥•I•I\•
NEW CASTLE	CHECKED BY:	В.К.В.

QUANTITY SUMMARY



Scale: AS NOTED US 301, T20 SCALE: AS NOTED CD 9000 TO CD 1 CO			
	SCALE: AS NOTED	US 301, SR 896 TO SR 1	



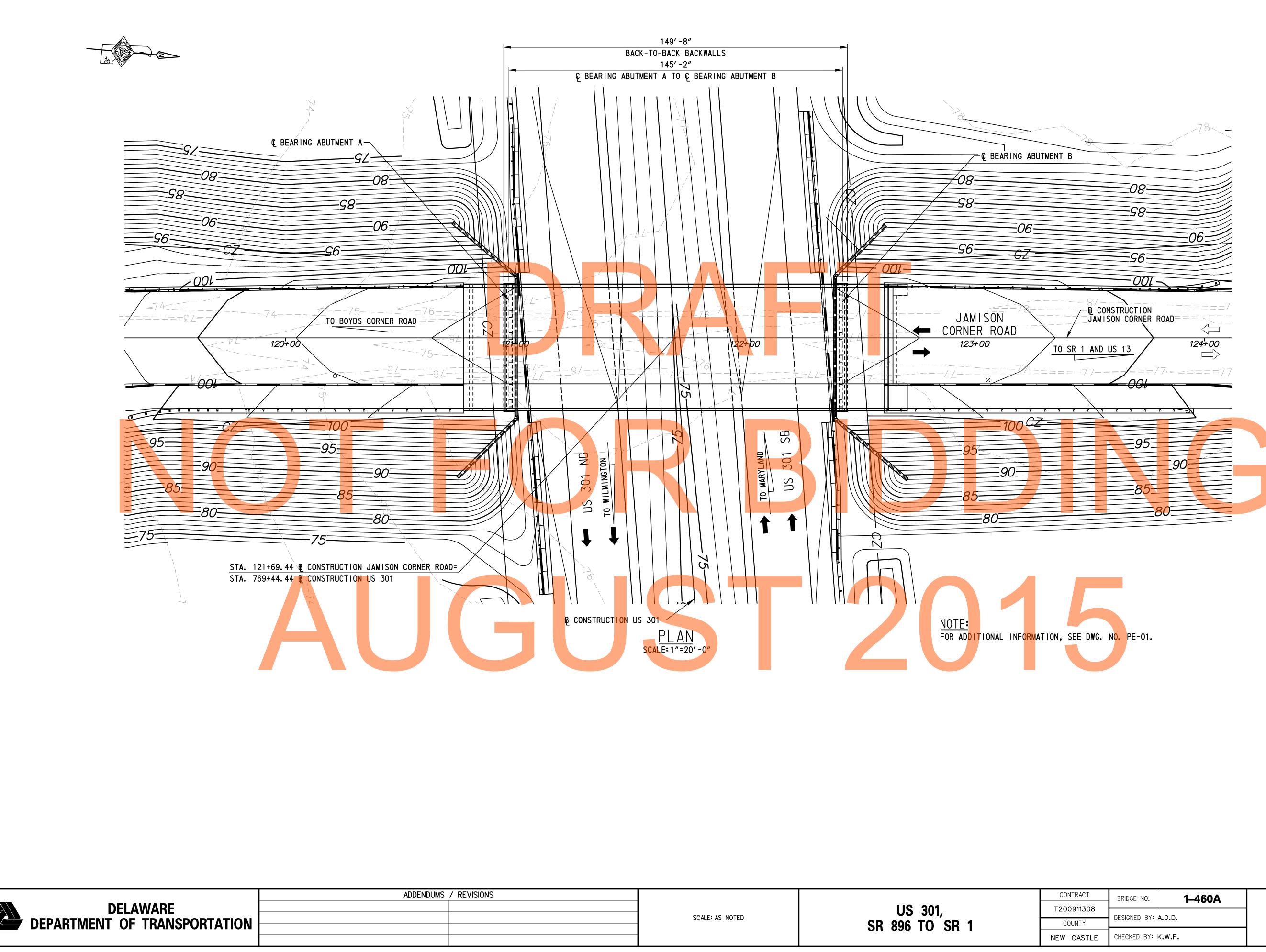


			_		
TE	TEST BORINGS				
DESIGNATION	STATION	OFFSET			
BR1-08-01	120+80.52	19.51′ RT.			
BR1-08-02	122+57.87	20.65′ LT.			
BR1-08-03	121+69.70	00.52′LT.			
BR1-08-04	120+74.08	31.27′LT.			
BR1-08-05	122+56.89	23.44′ RT.			
			~		

SETTLEMENT PLATFORMS					
DESIGNATION	STATION	OFFSET			
SP1	120+73.00	16.00′LT.			
SP2	120+73.00	28.00′ RT.			
SP3	122+73.00	16.00′LT.			
SP4	122+73.00	28.00′ RT.			

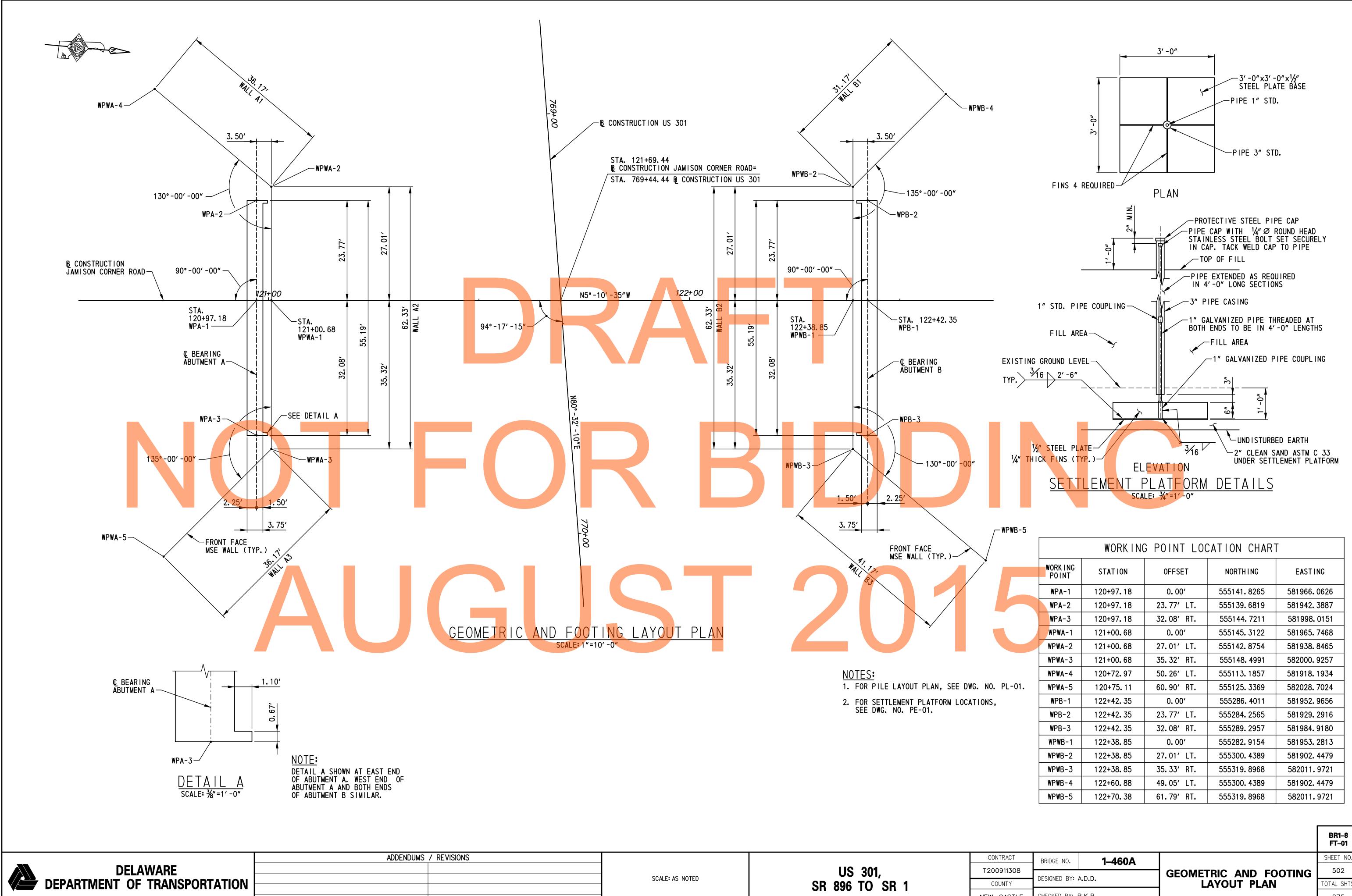
SETTLEMENT MONUMENTS					
DESIGNATION STATION OFFSET					
SM1	121+00	15.00′LT.			
SM2	121+00	30.00′ RT.			
SM3	122+38	15.00′LT.			
SM4	122+38	30.00' RT.			

BRIDGE NO. 1-400A				
200911308 GENERAL PLAN	CONTRACT	BRIDGE NO.	1_460Δ	
DESIGNED BY: A.D.D. GENERAL PLAN	200911308		1 4004	
COUNTY DESIGNED DIV A.D.D. AND ELEVATION	200311300	DESIGNED BY:		GENERAL PLAN
	COUNTY		A.D.D.	AND ELEVATION
W CASTLE CHECKED BY: B.K.B.	W CASTLE	CHECKED BY:	B.K.B.	



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		115 201	т
	SCALE: AS NOTED	US 301, SR 896 TO SR 1	
		SN 090 IV SN I	
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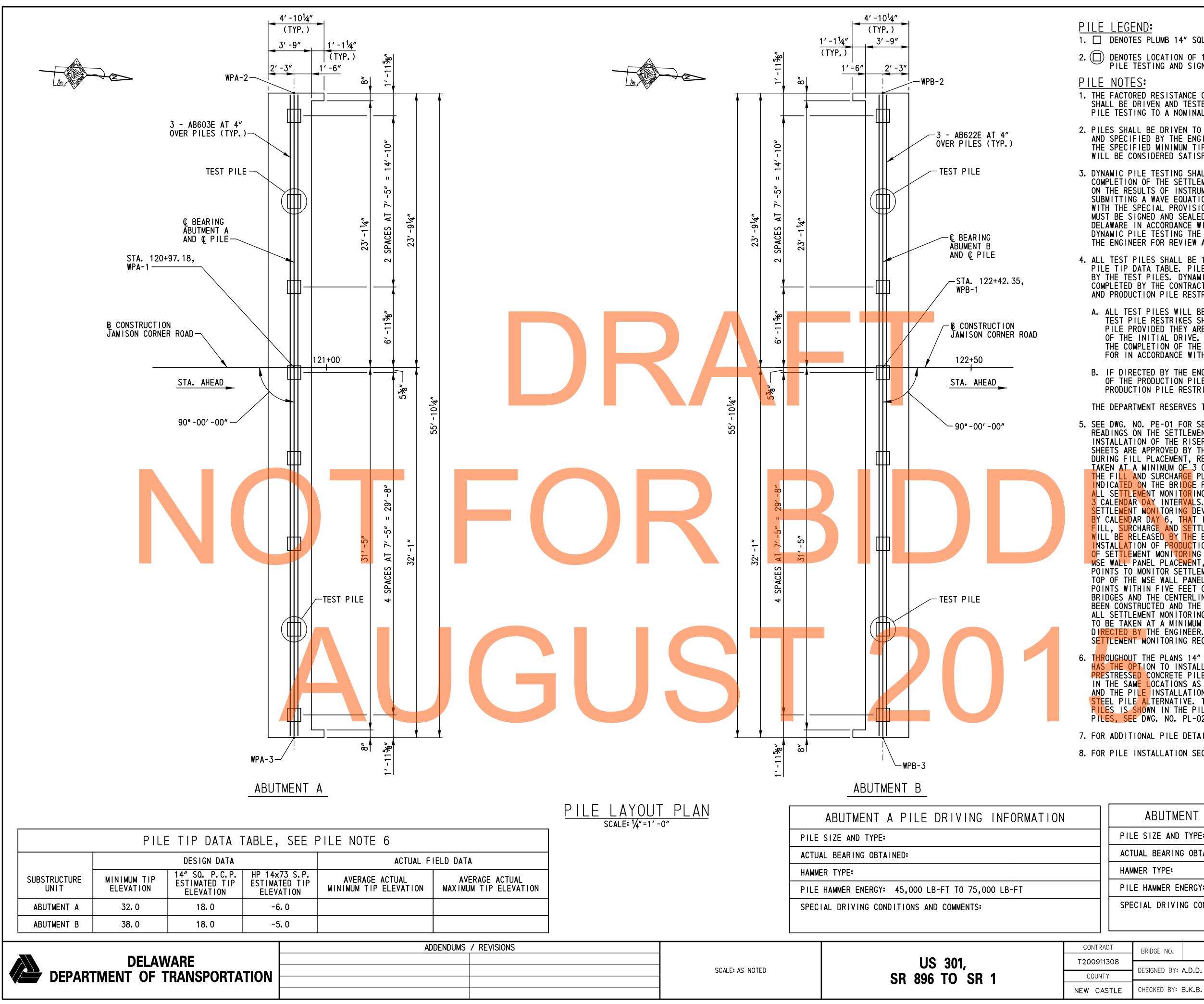
				BR18 GR01
RACT	BRIDGE NO.	1–460A		SHEET NO.
11308				501
NTY	DESIGNED BY: A.D.D.		GRADING PLAN	TOTAL SHTS.
ASTLE	CHECKED BY: K.W.F.			875
			•	



S			C
		US 301,	T20
	SCALE: AS NOTED	SR 896 TO SR 1	(
			NEW

/		WORKING	G POINT LOO	CATION CHART	Г
	WORK ING POINT	STATION	OFFSET	NORTHING	EASTING
	WPA-1	120+97.18	0.00′	555141.8265	581966.0626
	WPA-2	120+97.18	23.77′LT.	555139.6819	581942.3887
	WPA-3	120+97.18	32.08′ RT.	555144.7211	581998.0151
	WPWA-1	121+00.68	0.00′	555145.3122	581965.7468
	WPWA-2	121+00.68	27.01′LT.	555142.8754	581938.8465
	WPWA-3	121+00.68	35. 32′ RT.	555148.4991	582000.9257
	WPWA-4	120+72.97	50.26′LT.	555113.1857	581918.1934
). PL-01.	WPWA-5	120+75.11	60.90′ RT.	555125.3369	582028.7024
,	WPB-1	122+42.35	0.00′	555286.4011	581952.9656
	WPB-2	122+42.35	23.77′LT.	555284.2565	581929.2916
	WPB-3	122+42.35	32.08′ RT.	555289.2957	581984.9180
	WPWB-1	122+38.85	0.00′	555282.9154	581953.2813
	WPWB-2	122+38.85	27.01′ LT.	555300. 4389	581902.4479
	WPWB-3	122+38.85	35.33′RT.	555319.8968	582011.9721
	WPWB-4	122+60.88	49.05′ LT.	555300. 4389	581902.4479
	WPWB-5	122+70. 38	61.79′ RT.	555319.8968	582011.9721
				•	

CONTRACT	BRIDGE NO.	1–460A		SHEET NO.
200911308			GEOMETRIC AND FOOTING	502
COUNTY	DESIGNED BY:	A.D.D.	LAYOUT PLAN	TOTAL SHTS.
W CASTLE	CHECKED BY:	В.К.В.		875



PILE LEGEND:

1. DENOTES PLUMB 14" SQUARE PRESTRESSED CONCRETE PILE, SEE PILE NOTE 6

2. DENOTES LOCATION OF 14" SQUARE PRESTRESSED CONCRETE PILE DYNAMIC PILE TESTING AND SIGNAL MATCHING ANALYSIS, SEE PILE NOTE 6

PILE NOTES:

1. THE FACTORED RESISTANCE OF THE 14" PRESTRESSED CONCRETE PILING IS 145 TONS. PILES SHALL BE DRIVEN AND TESTED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR DYNAMIC PILE TESTING TO A NOMINAL CAPACITY OF 225 TONS.

2. PILES SHALL BE DRIVEN TO THE DRIVING CRITERIA DEVELOPED FROM DYNAMIC PILE TESTING AND SPECIFIED BY THE ENGINEER TO ACHIEVE A NOMINAL RESISTANCE OF 225 TONS AND TO THE SPECIFIED MINIMUM TIP ELEVATION. PILES MEETING THE AFOREMENTIONED CRITERIA WILL BE CONSIDERED SATISFACTORY.

3. DYNAMIC PILE TESTING SHALL BE PERFORMED AFTER CONSTRUCTION OF THE MSE WALL AND COMPLETION OF THE SETTLEMENT WAITING PERIOD AS DETERMINED BY THE ENGINEER, BASED ON THE RESULTS OF INSTRUMENTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A WAVE EQUATION ANALYSIS AND ALL OTHER INCIDENTALS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE WAVE EQUATION ANALYSIS AND DYNAMIC PILE TESTING MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELAWARE IN ACCORDANCE WITH THE SPECIAL PROVISIONS. UPON COMPLETION OF THE DYNAMIC PILE TESTING THE CONTRACTOR SHALL SUBMIT A SIGNAL MATCHING ANALYSIS TO THE ENGINEER FOR REVIEW AND APPROVAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

4. ALL TEST PILES SHALL BE 10 FEET LONGER THAN THE PILE LENGTH COMPUTED FROM THE PILE TIP DATA TABLE. PILE LENGTHS FOR ORDERING PURPOSES SHALL BE DETERMINED BY THE TEST PILES. DYNAMIC PILE TESTING AND SIGNAL MATCHING ANALYSIS SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISIONS. TEST AND PRODUCTION PILE RESTRIKES WILL BE PAID FOR AS FOLLOWS:

- A. ALL TEST PILES WILL BE RESTRUCK AFTER A WAITING PERIOD OF AT LEAST 48 HOURS. TEST PILE RESTRIKES SHALL BE INCIDENTAL TO THE INITIAL INSTALLATION OF THE PILE PROVIDED THEY ARE REQUESTED WITHIN FIVE WORKING DAYS FROM THE COMPLETION OF THE INITIAL DRIVE. IF RESTRIKES ARE REQUESTED AFTER FIVE WORKING DAYS FROM THE COMPLETION OF THE INITIAL DRIVE THEN THE TEST PILE RESTRIKE SHALL BE PAID FOR IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- B. IF DIRECTED BY THE ENGINEER TO RESTRIKE A PRODUCTION PILE, THE RESTRIKE OF THE PRODUCTION PILE SHALL BE PAID SEPARATELY UNDER ITEM NO. 619501 -PRODUCTION PILE RESTRIKE.

THE DEPARTMENT RESERVES THE RIGHT TO PERFORM DYNAMIC PILE TESTING OF RESTRIKES.

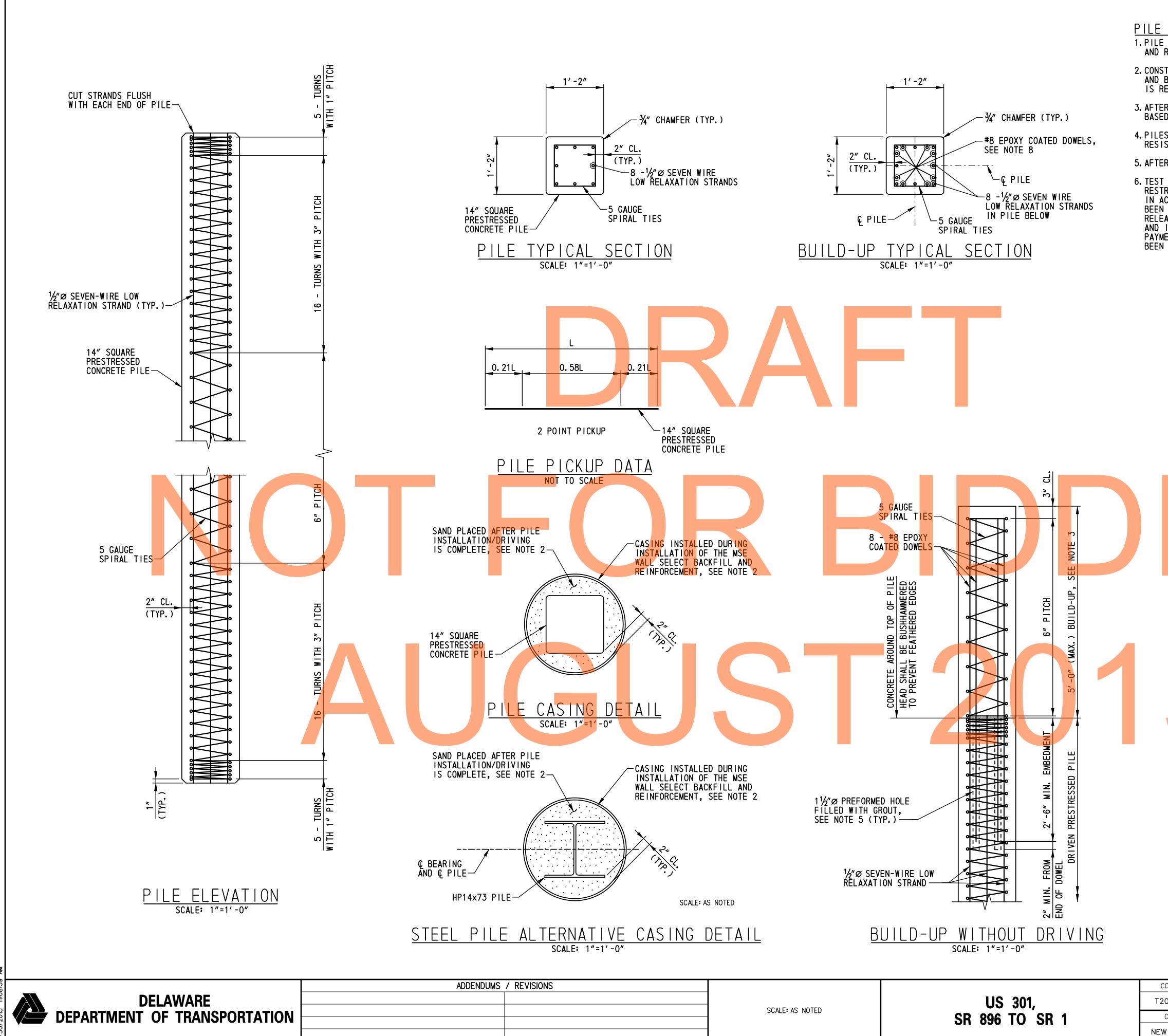
5. SEE DWG. NO. PE-01 FOR SETTLEMENT PLATFORM AND MONUMENT LOCATIONS. READINGS ON THE SETTLEMENT PLATFORMS SHALL BE MADE AFTER THE INITIAL INSTALLATION OF THE RISER AND CASING PIPES AND INSTALLATION RECORD SHEETS ARE APPROVED BY THE ENGINEER AND PRIOR TO FILL PLACEMENT. DURING FILL PLACEMENT, READINGS ON ALL SETTLEMENT PLATFORMS SHALL BE TAKEN AT A MINIMUM OF 3 CALENDAR DAY INTERVALS. AFTER COMPLETION OF THE FILL AND SURCHARGE PLACEMENT, INSTALL SETTLEMENT MONUMENTS IF INDICATED ON THE BRIDGE PLANS AND TAKE INITIAL READINGS. READINGS ON ALL SETTLEMENT MONITORING DEVICES SHALL THEN BE TAKEN AT A MINIMUM OF CALENDAR DAY INTERVALS. IF THE SETTLEMENT HAS CEASED ON ALL MONITORED SETTLEMENT MONITORING DEVICES IN THE VICINITY OF THE SUBSTRUCTURE UNIT BY CALENDAR DAY 6, THAT IS THREE READINGS, AFTER THE COMPLETION OF THE FILL, SURCHARGE AND SETTLEMENT MONUMENT PLACEMENT, THE SUBSTRUCTURE WILL BE RELEASED BY THE ENGINEER FOR REMOVAL OF THE SURCHARGE AND INSTALLATION OF PRODUCTION PILES WITHIN THREE WORKING DAYS OF RECEIPT OF SETTLEMENT MONITORING RESULTS. AFTER COMPLETION OF THE ABUTMENT AND MSE WALL PANEL PLACEMENT. THE CONTRACTOR SHALL ESTABLISH REFERENCE POINTS TO MONITOR SETTLEMENT ON TOP OF THE ABUTMENT SEAT AND EITHER ON TOP OF THE MSE WALL PANELS OR ON TOP OF THE MSE WALL LEVELING PAD AT POINTS WITHIN FIVE FEET OF ALL ENDS AND CORNERS AND AT THE CENTER OF BRIDGES AND THE CENTERLINE OF US301. AFTER THE CONCRETE ABUTMENTS HAVE BEEN CONSTRUCTED AND THE MSE WALL PANELS HAVE BEEN PLACED, READINGS ON ALL SETTLEMENT MONITORING DEVICES AND REFERENCE POINTS SHALL CONTINUE TO BE TAKEN AT A MINIMUM OF 30-DAY INTERVALS FOR THE NEXT 6 MONTHS OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR ADDITIONAL SETTLEMENT MONITORING REQUIREMENTS.

6. THROUGHOUT THE PLANS 14" PRESTRESSED CONCRETE PILES ARE DEPICTED. THE CONTRACTOR HAS THE OPTION TO INSTALL HP 14x73 STEEL PILES AS AN ALTERNATIVE TO THE 14" PRESTRESSED CONCRETE PILES SHOWN. THE HP 14x73 STEEL PILES SHALL BE INSTALLED IN THE SAME LOCATIONS AS THE 14" PRESTRESSED CONCRETE PILES. PILE NOTES 1 THRU 4 AND THE PILE INSTALLATION SEQUENCE OF CONSTRUCTION ARE APPLICABLE TO THE HP 14x73 STEEL PILE ALTERNATIVE. THE ESTIMATED PILE TIP ELEVATION FOR THE HP 14x73 STEEL PILES IS SHOWN IN THE PILE TIP DATA TABLE. FOR ORIENTATION OF THE HP 14x73 STEEL PILES, SEE DWG. NO. PL-02.

7. FOR ADDITIONAL PILE DETAILS, SEE DWG. NO. PL-02.

8. FOR PILE INSTALLATION SEQUENCE OF CONSTRUCTION, SEE DWG. NO. PL-02.

		IVING INFORMATION			
	PILE SIZE AND TYPE:				
	ACTUAL BEARING OBTAINED:				
	HAMMER TYPE:				
	PILE HAMMER ENERGY: 45,000 LB-FT TO 75,000 LB-FT			T0 75,000 LB-FT	
	SPECIAL DRIVING CONDITIONS AND COMMENTS:			MMENTS:	
					BR1–8 PL–01
CONTRAC	T	BRIDGE NO.	1–460A		SHEET NO.
	0911308			PILE LAYOUT PLAN	503
COUNTY	/				TOTAL SHTS.



1653-000\CONTRACT 1A\CADD\Brid 1/2015 11:08:59 AM

PILE INSTALLATION SEQUENCE OF CONSTRUCTION:

1. PILE CASINGS SHALL BE INSTALLED DURING INSTALLATION OF THE MSE WALL SELECT BACKFILL AND REINFORCEMENT TO THE ELEVATION OF THE BOTTOM OF THE ABUTMENT STEMS.

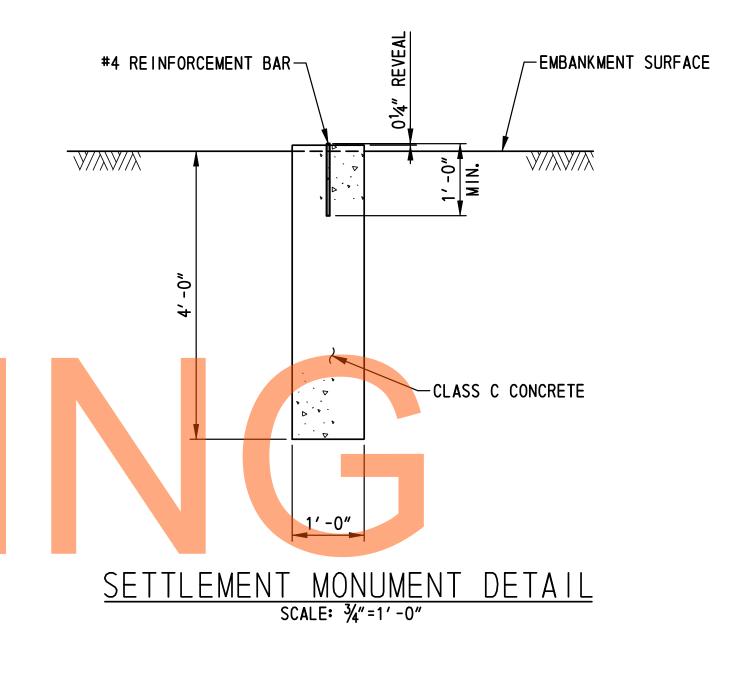
2. CONSTRUCT MSE WALLS, INCLUDING WIRE FACED MSE WALLS AT REAR FACES OF ABUTMENT STEMS AND BACKWALLS, TO THE REQUIRED ELEVATIONS. A SETTLEMENT WAITING PERIOD OF 60 DAYS IS REQUIRED AFTER THIS CONSTRUCTION.

3. AFTER COMPLETION OF THE SETTLEMENT WAITING PERIOD AS DETERMINED BY THE ENGINEER BASED ON THE INSTRUMENTATION, THE PILES SHALL BE SET AND CENTERED IN THE CASINGS.

4. PILES SHALL BE INSTALLED TO THE MINIMUM TIP ELEVATION AND REQUIRED NOMINAL RESISTANCE SPECIFIED. FOR PILE RESTRIKE REQUIREMENTS SEE SPECIAL PROVISIONS.

5. AFTER PILE INSTALLATION/DRIVING IS COMPLETE, THE CASING SHALL BE FILLED WITH SAND.

6. TEST PILES MAY BE DRIVEN PRIOR TO PLACING EMBANKMENT AND SURCHARGE MATERIAL. RESTRIKES OF THESE TEST PILES SHALL BE PERFORMED PRIOR TO PLACING EMBANKMENT IN ACCORDANCE WITH ITEM 619502 - TEST PILE RESTRIKE. AFTER THE EMBANKMENT HAS BEEN PLACED, SETTLEMENT HAS BEEN ACHIEVED AND THE SUBSTRUCTURE HAS BEEN RELEASED BY THE ENGINEER, THE TEST PILE SHALL BE ACTING AS A PRODUCTION PILE AND IT SHALL BE RE-STRUCK PRIOR TO PLACING ANY OTHER PRODUCTION PILES WITH PAYMENT UNDER ITEM 619501 - PRODUCTION PILE RESTRIKE. ONCE THE TEST PILE HAS BEEN ACCEPTED, THE REMAINING PRODUCTION PILES MAY BE INSTALLED.

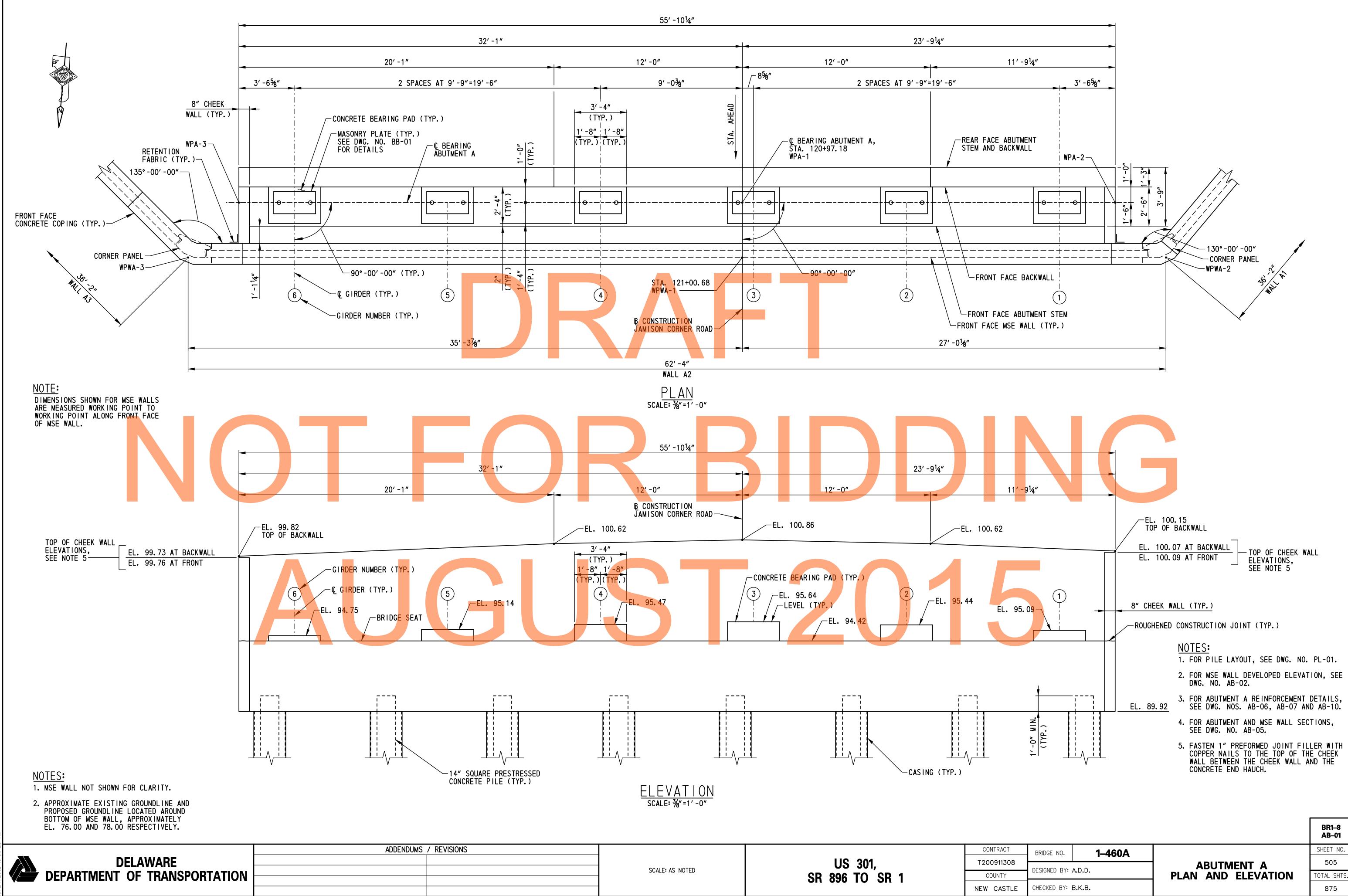


NOTES:

1. FOR ADDITIONAL PILE INFORMATION, SEE DWG. NO. PL-01.

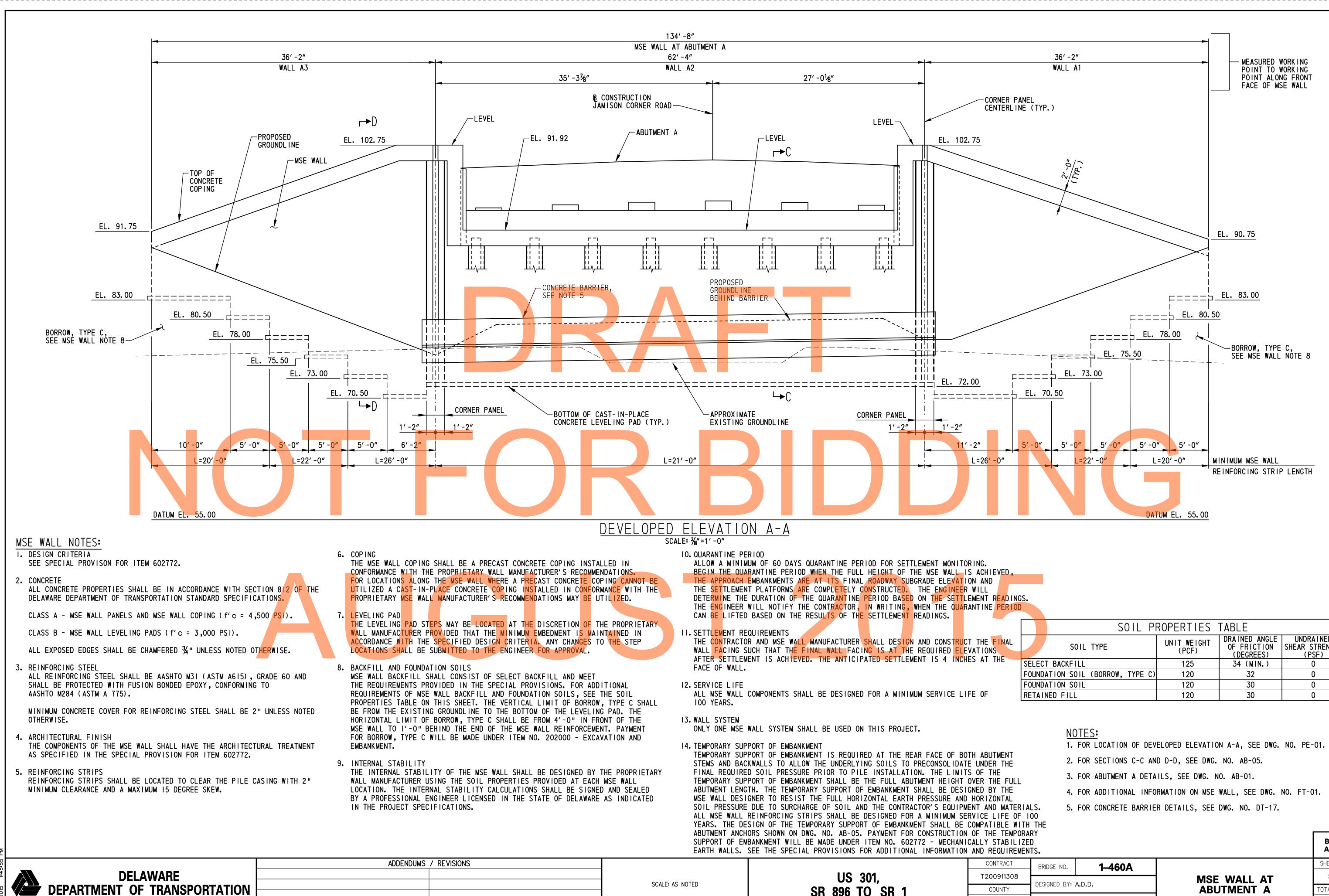
- 2. PAYMENT FOR INSTALLATION OF CASING AND SAND WILL BE INCIDENTAL TO ITEM NO. 602772 - MECHANICALY STABILIZED EARTH WALLS. FOR INSTALLATION AND MATERIAL REQUIREMENTS OF SAND/CASING SEE THE SPECIAL PROVISIONS.
- 3. THE CAST-IN-PLACE CONCRETE PILE BUILD-UP SHALL BE USED WHERE PILES MUST BE DRIVEN TO AN ELEVATION WHICH RESULTS IN THE TOP OF PILE BEING LOWER THAN THE BOTTOM OF CAP TO ACHIEVE THE REQUIRED NOMINAL RESISTANCE. PILE BUILD-UP WILL BE MEASURED AND PAID FOR IN CONFORMANCE WITH SECTION 618 OF THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- 4. FOR SETTLEMENT MONUMENT LOCATIONS, SEE DWG. NO. PE-01.
- 5. PROVIDE 1½" DIAMETER PREFORMED HOLES IN PILE HEAD AT THE DOWEL LOCATIONS. DOWELS SHALL BE GROUTED INTO PLACE WITH AN APPROVED EPOXY GROUT. PRIOR TO THE GROUTING PROCEDURE, PREFORMED HOLES SHALL REMAIN PLUGGED TO ENSURE THAT WATER AND FOREIGN MATERIAL DOES NOT ENTER THE PREFORMED HOLES. HOLES SHALL BE GROUTED WHEN THE PILE BUILD-UP IS NOT NEEDED.
- 6. MINIMUM COMPRESSIVE STRENGTH OF EPOXY GROUT SHALL BE f'c=6,000 PSI.
- 7. THE COMPRESSIVE STRENGTH OF THE PILE BUILD-UP SHALL BE f'c=6,000 PSI.
- 8. DOWEL HOLES SHALL BE POSITIONED TO MAINTAIN A 1" CLEAR DISTANCE FROM ALL PRESTRESSING STRANDS IN THE PILE.

	UISIA	NCE FRUM ALL PRESIRE	SSING STRANDS IN THE PILE.	BR1-8 PL-02	
ONTRACT	BRIDGE NO.	1–460A		SHEET NO.	
00911308				504	
COUNTY	DESIGNED BY:	A.D.D.	PILE DETAILS	TOTAL SHTS.	
CASTLE	CHECKED BY:	B.K.B.		875	





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SCALE: AS NOTED	SR 896 TO SR 1	(
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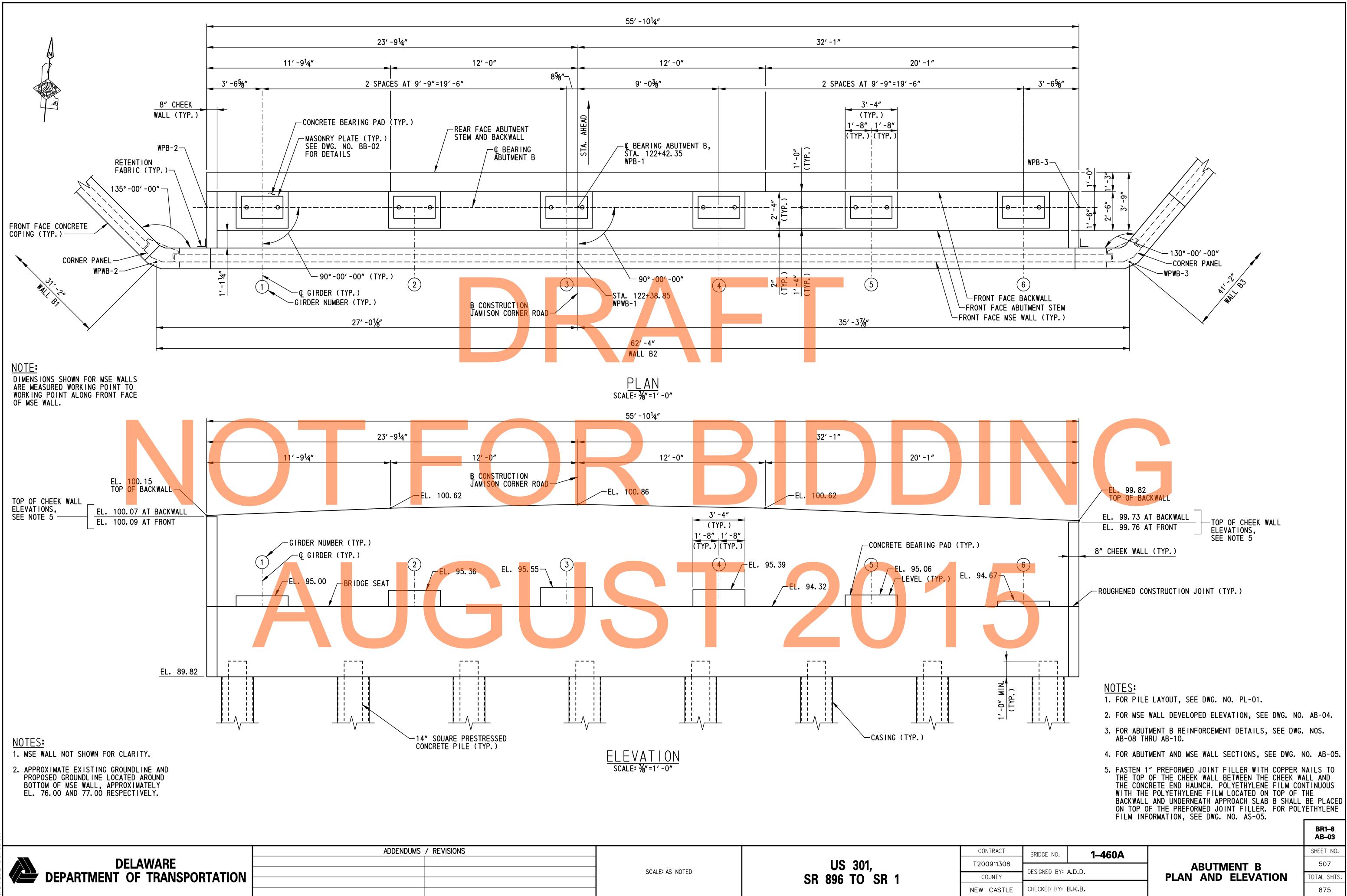


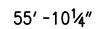
	SUPPORT OF EM	BANKMENT WILL BE MADE UNDER ITEM NO. 602772 - MECHAN SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION	CALLY STABILIZE	D		BR1–8 AB–02
S			CONTRACT	BRIDGE NO. 1-460A		SHEET NO.
		US 301,	T200911308	1 100/	MSE WALL AT	506
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			SOIL PI	ROPERTIES	TABLE	
E FINAL ONS			SOIL TYPE	UNIT WEIGHT (PCF)	DRAINED ANGLE OF FRICTION (DEGREES)	UNDRAINED SHEAR STRENGTH (PSF)
T THÊ	SEL	EC1	BACKFILL	125	34 (MIN.)	0
	FOU	ND	TION SOIL (BORROW, TYPE C)	120	32	0
	FOU	ND	TION SOIL	120	30	0
F	RET	AIN	IED FILL	120	30	0

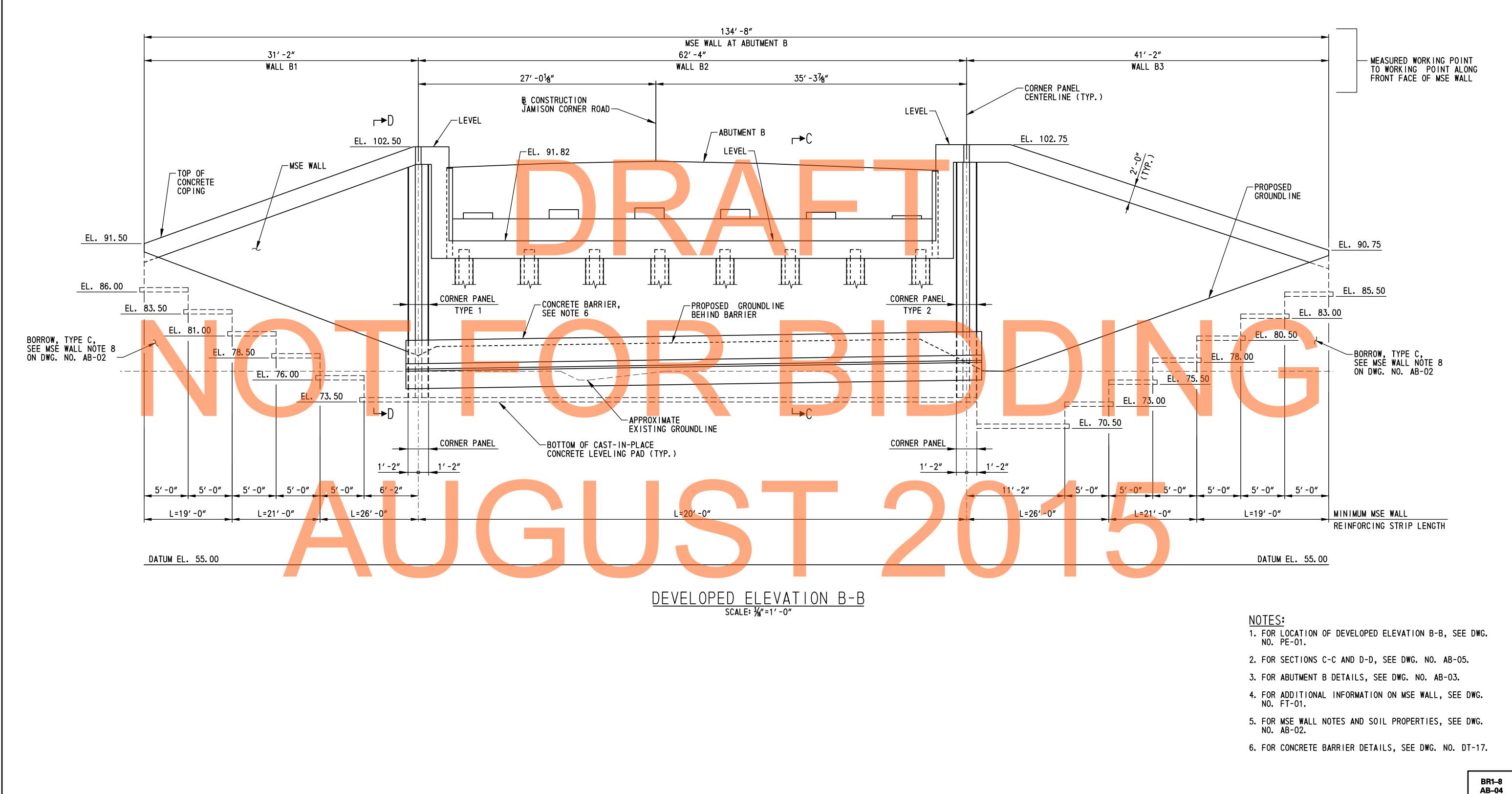
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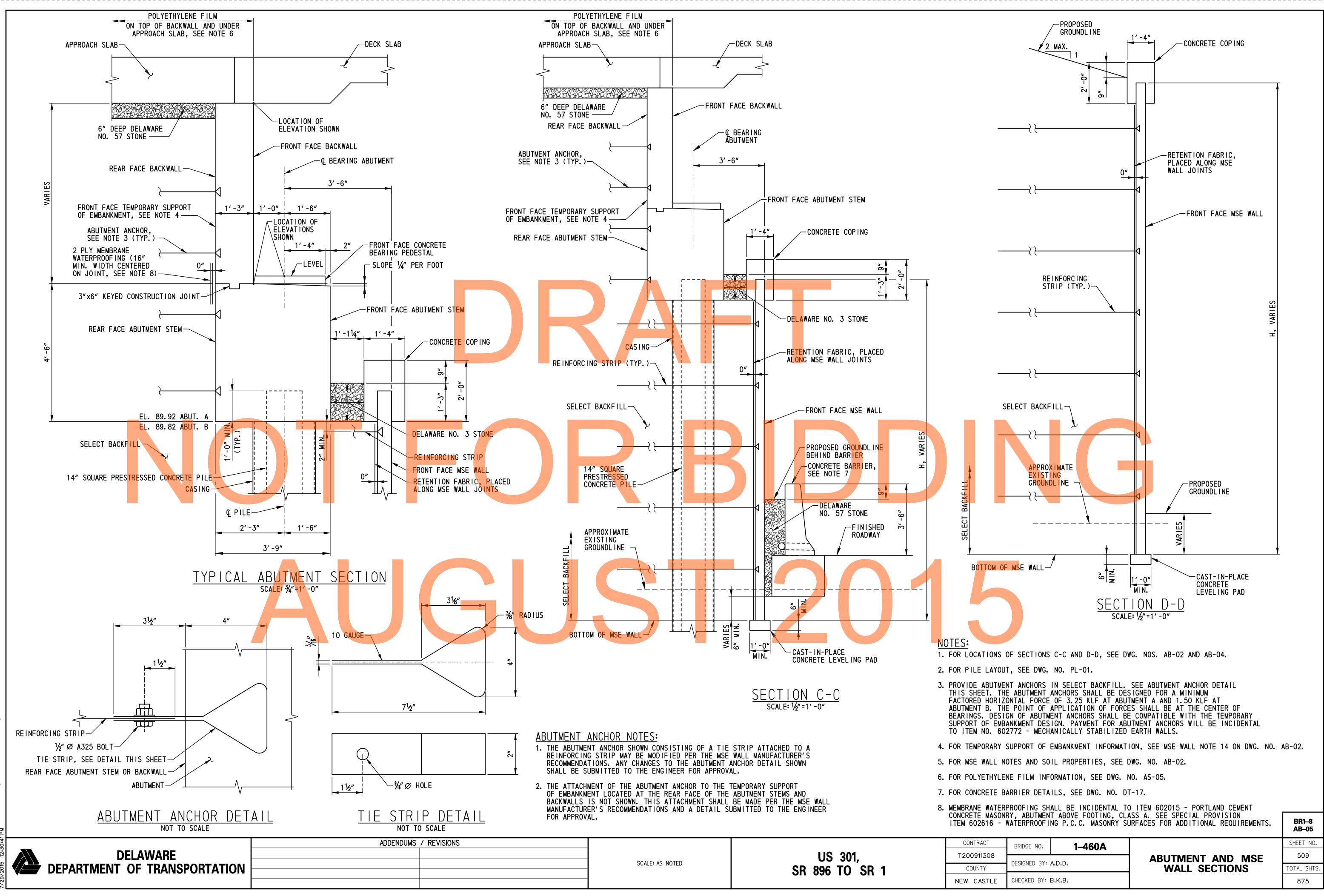


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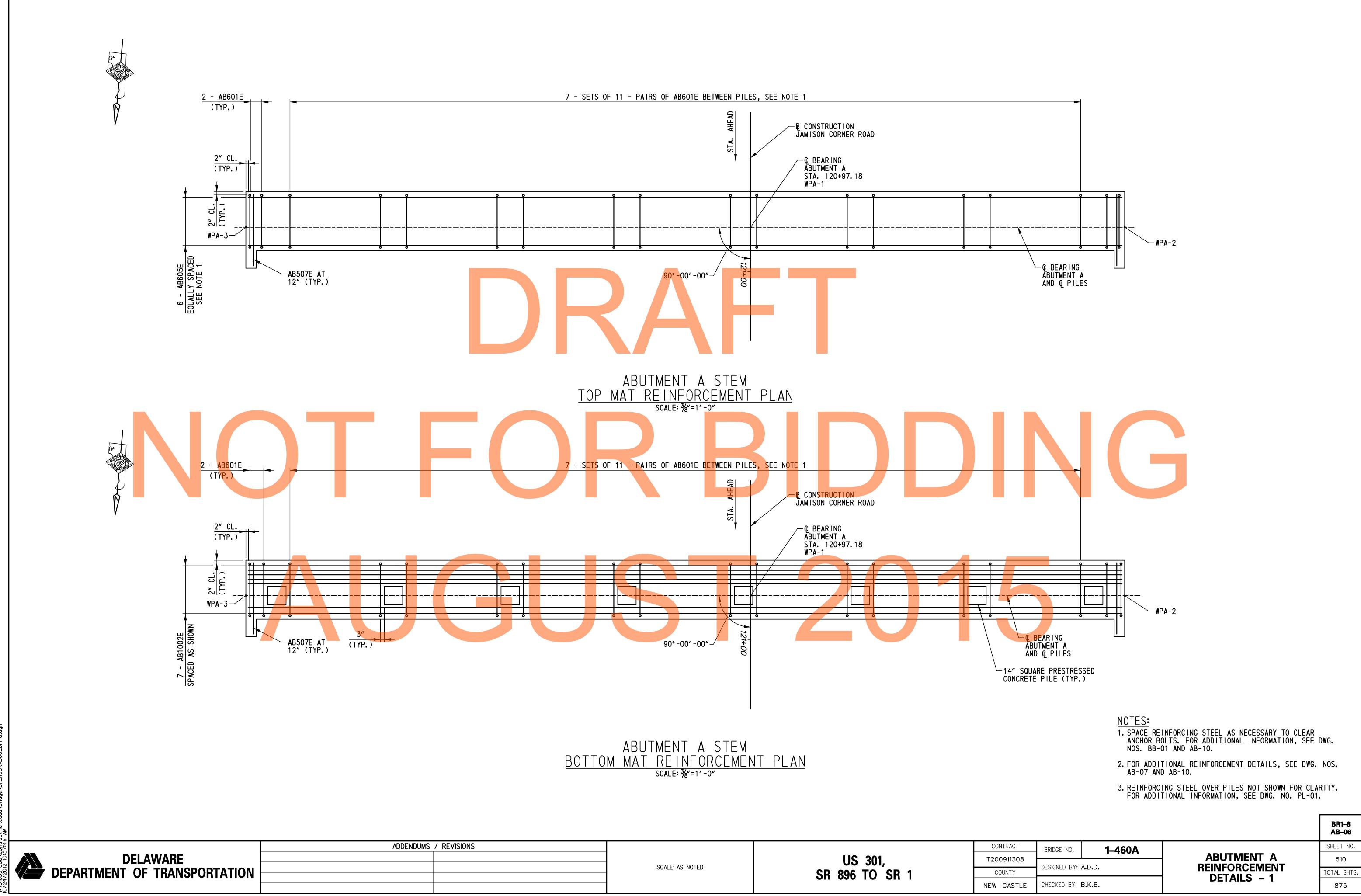


DELAWARE DEPARTMENT OF TRANSPORTATION ADDENDUMS / REVISIONS

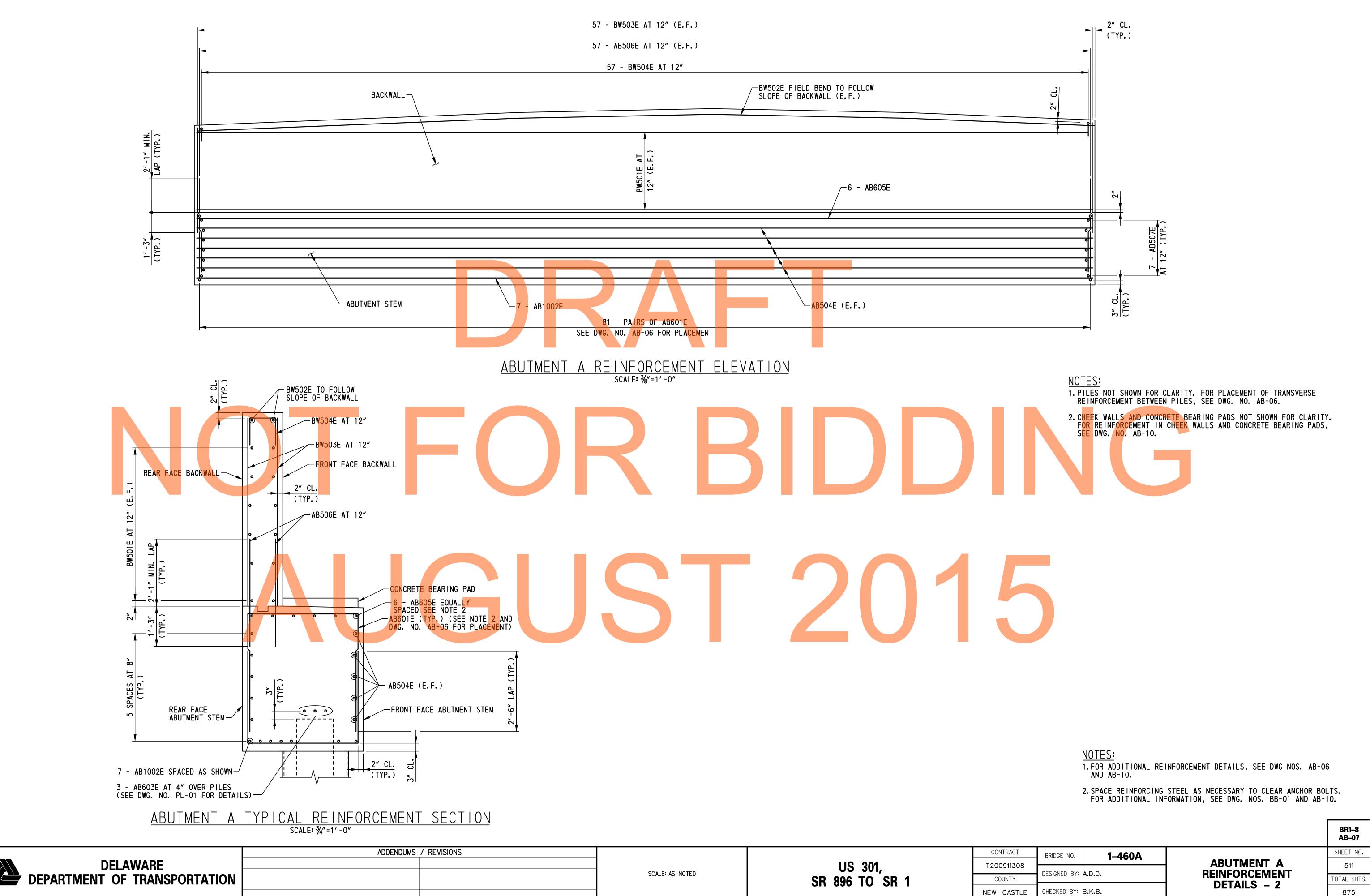
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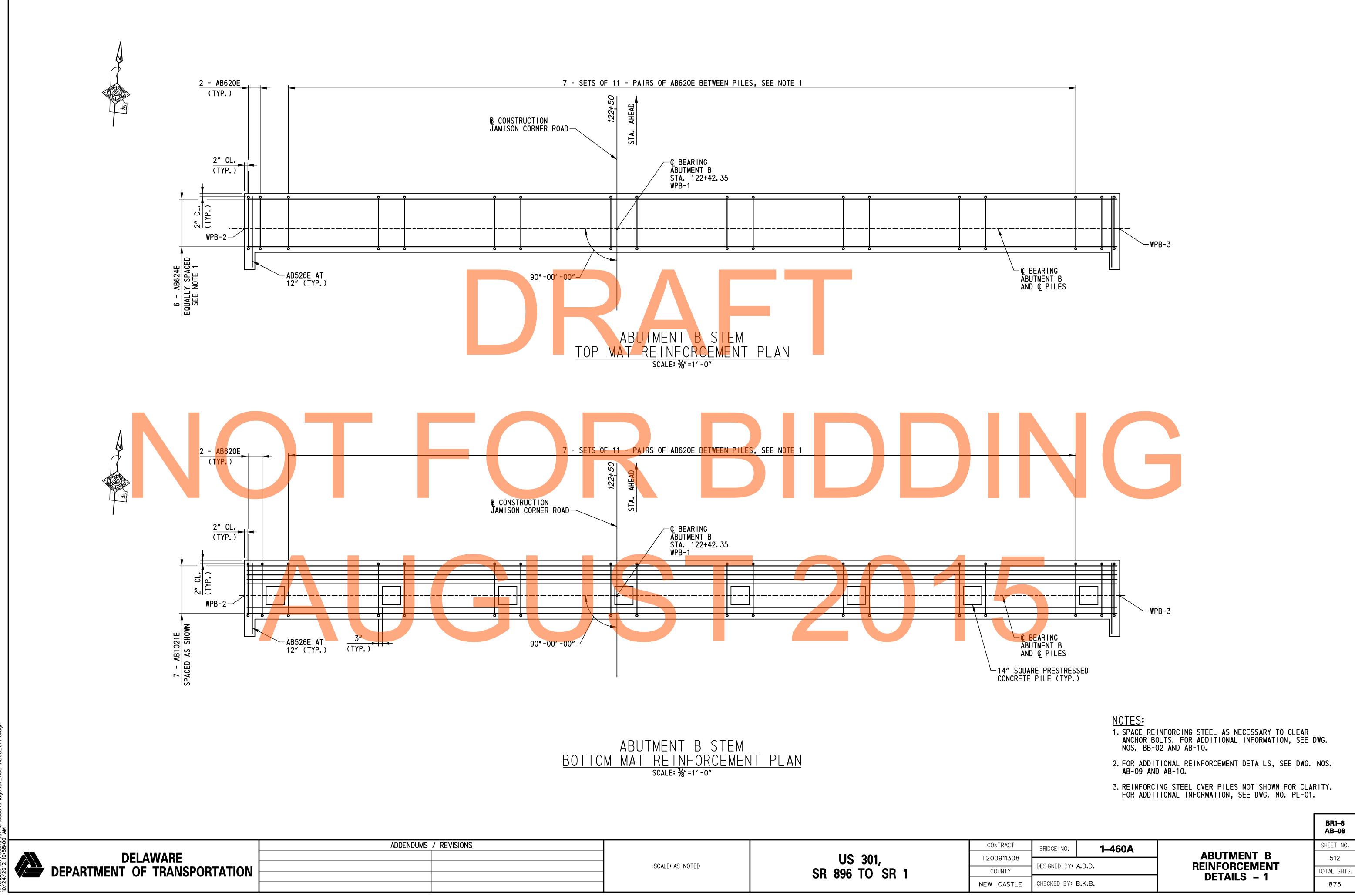


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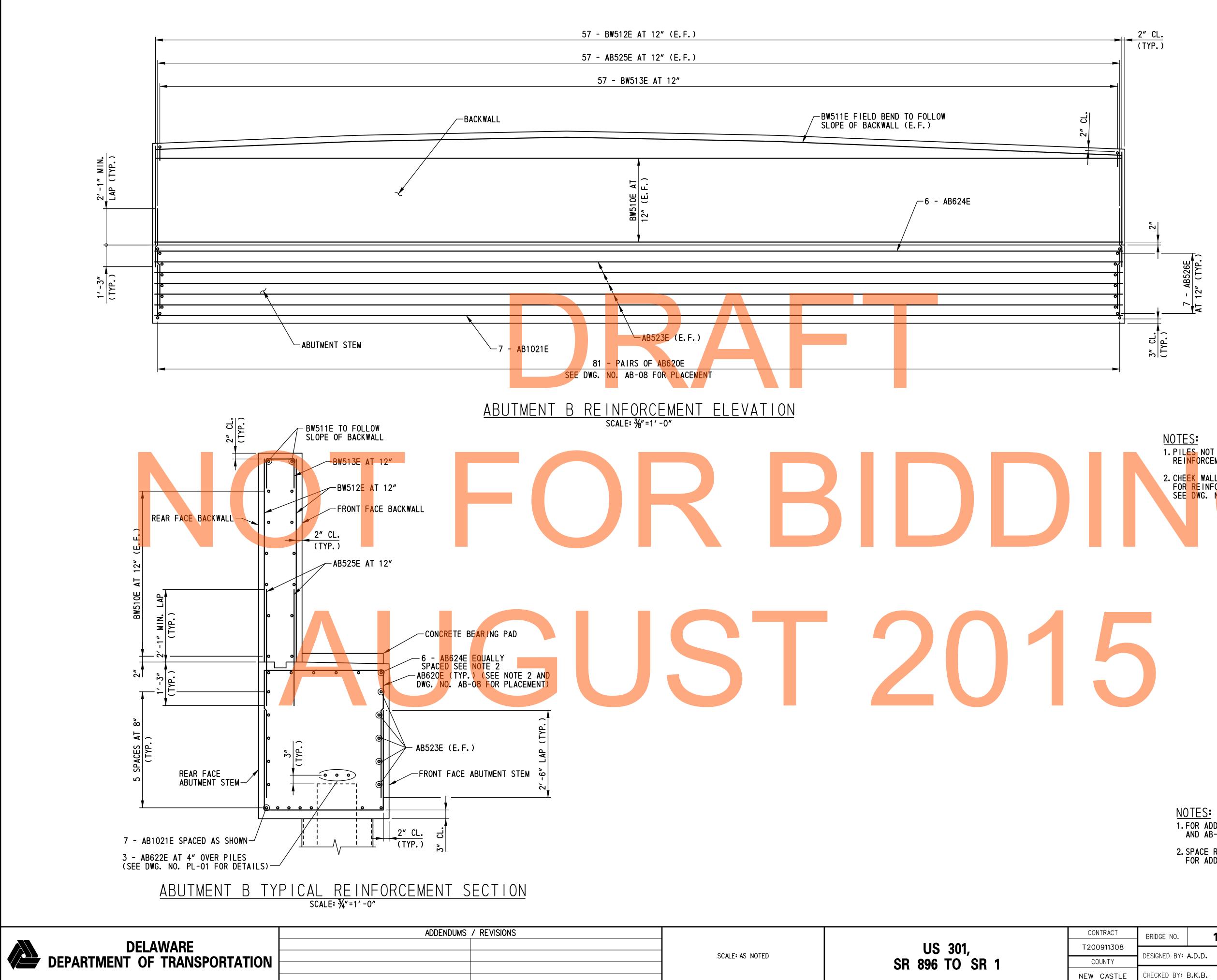


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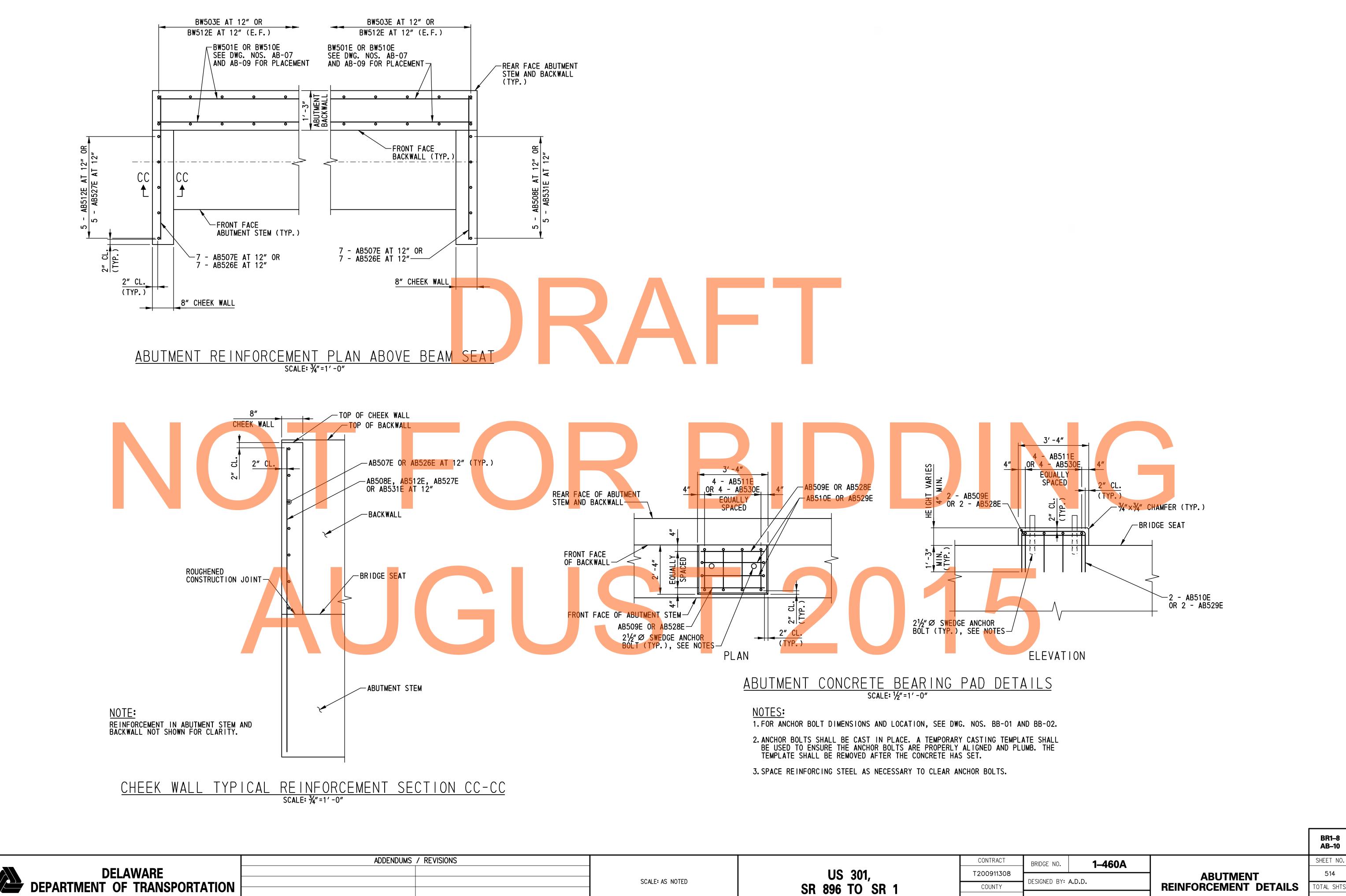
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				BR1-8 AB-09
CONTRACT	BRIDGE NO.	1–460A		SHEET NO.
200911308			ABUTMENT B	513
COUNTY	DESIGNED BY: A.D.D. REINFORCEMENT		TOTAL SHTS.	
EW CASTLE	CHECKED BY:	B.K.B.	DETAILS – 2	875

2. SPACE REINFORCING STEEL AS NECESSARY TO CLEAR ANCHOR BOLTS. FOR ADDITIONAL INFORMATION, SEE DWG. NOS. BB-02 AND AB-10.

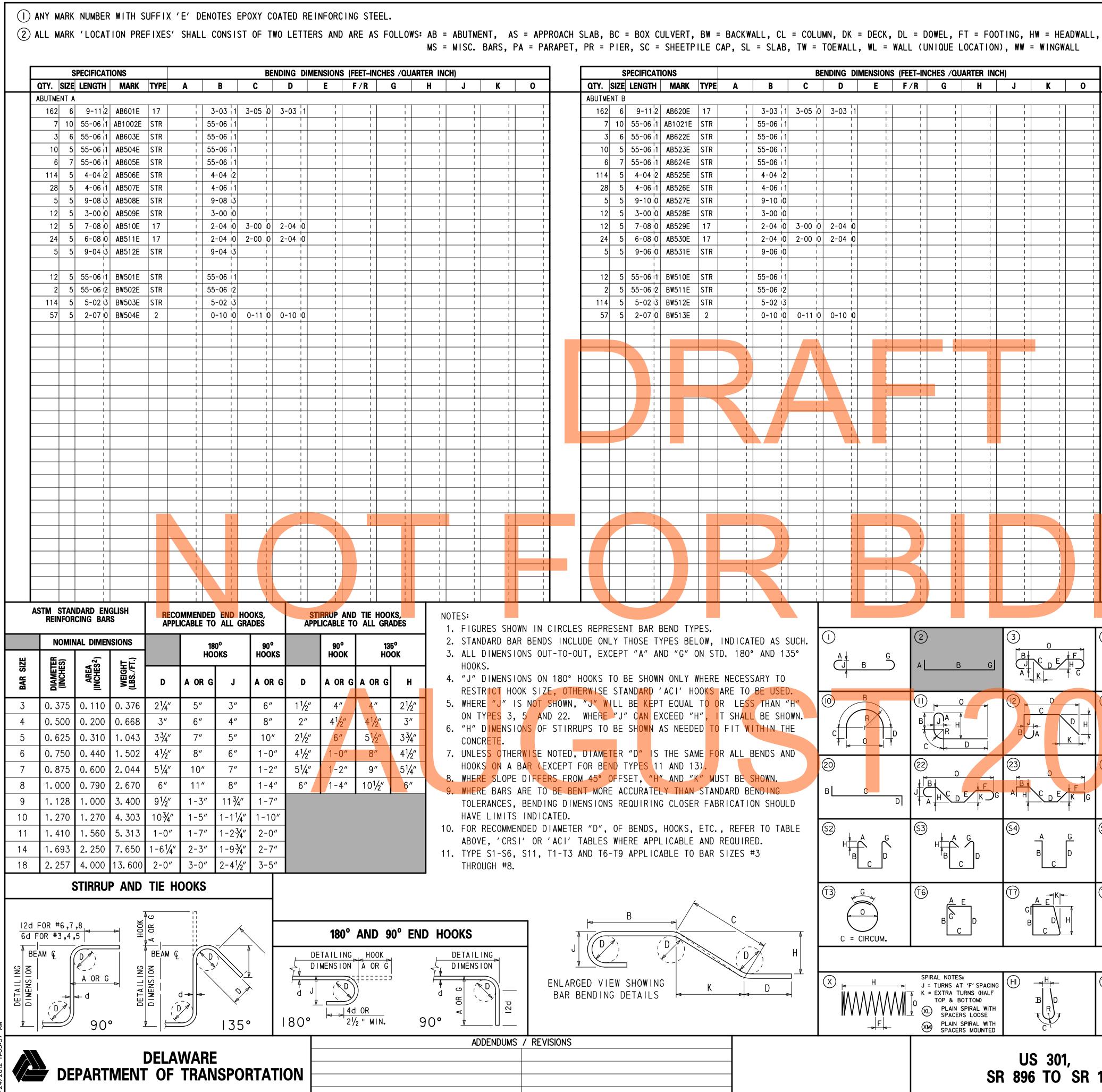
1.FOR ADDITIONAL REINFORCEMENT DETAILS, SEE DWG NOS. AB-08 AND AB-10.

1. PILES NOT SHOWN FOR CLARITY. FOR PLACEMENT OF TRANSVERSE REINFORCEMENT BETWEEN PILES, SEE DWG. NO. AB-08. 2. CHEEK WALLS AND CONCRETE BEARING PADS NOT SHOWN FOR CLARITY. FOR REINFORCEMENT IN CHEEK WALLS AND CONCRETE BEARING PADS, SEE DWG. NO. AB-10.



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	CHECKED BY: B.K.B.	

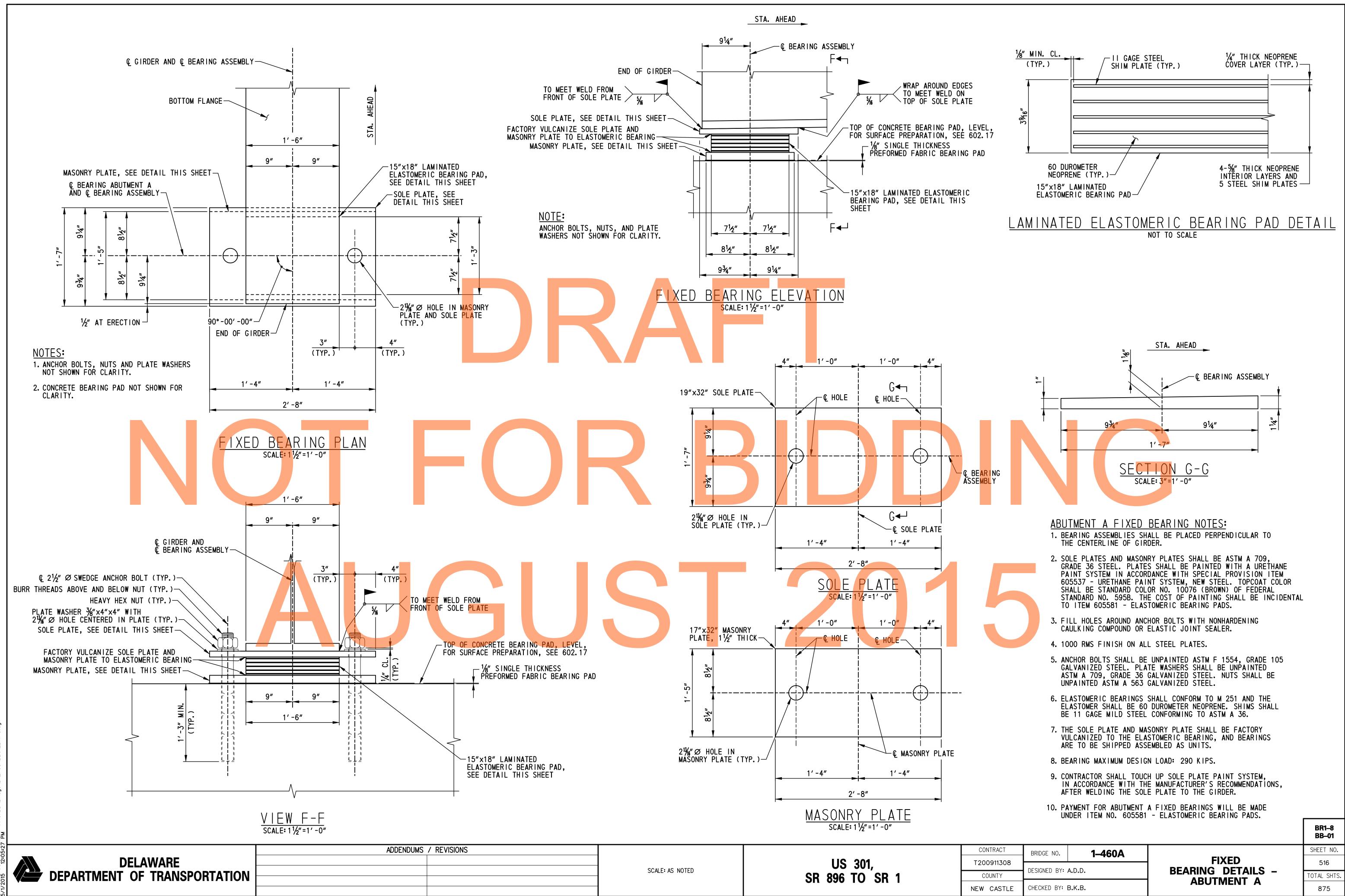
SHEET NO. 514



MS = MISC. BARS, PA = PARAPET, PR = PIER, SC = SHEETPILE CAP, SL = SLAB, TW = TOEWALL, WL = WALL (UNIQUE LOCATION), WW = WINGWALL

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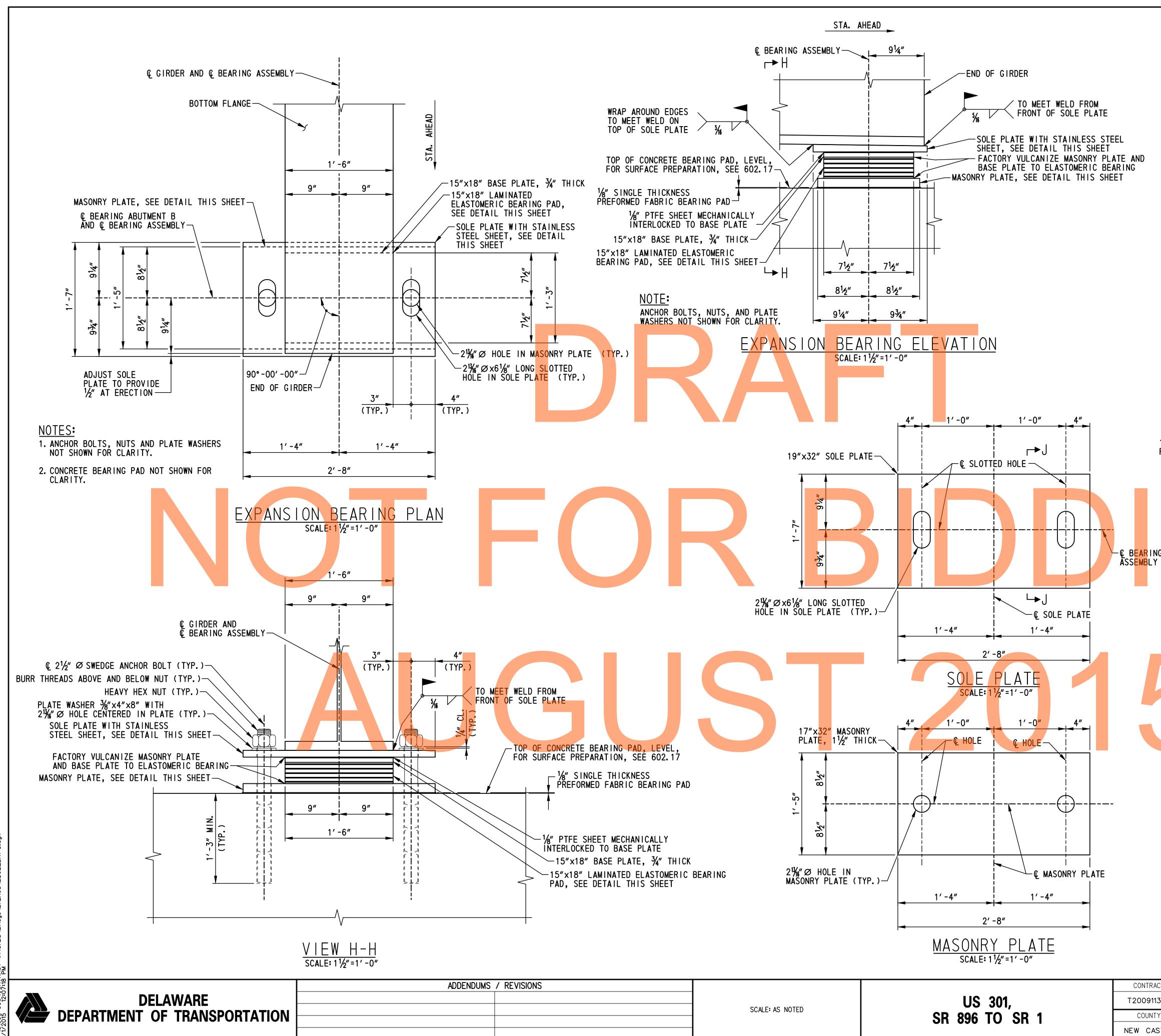
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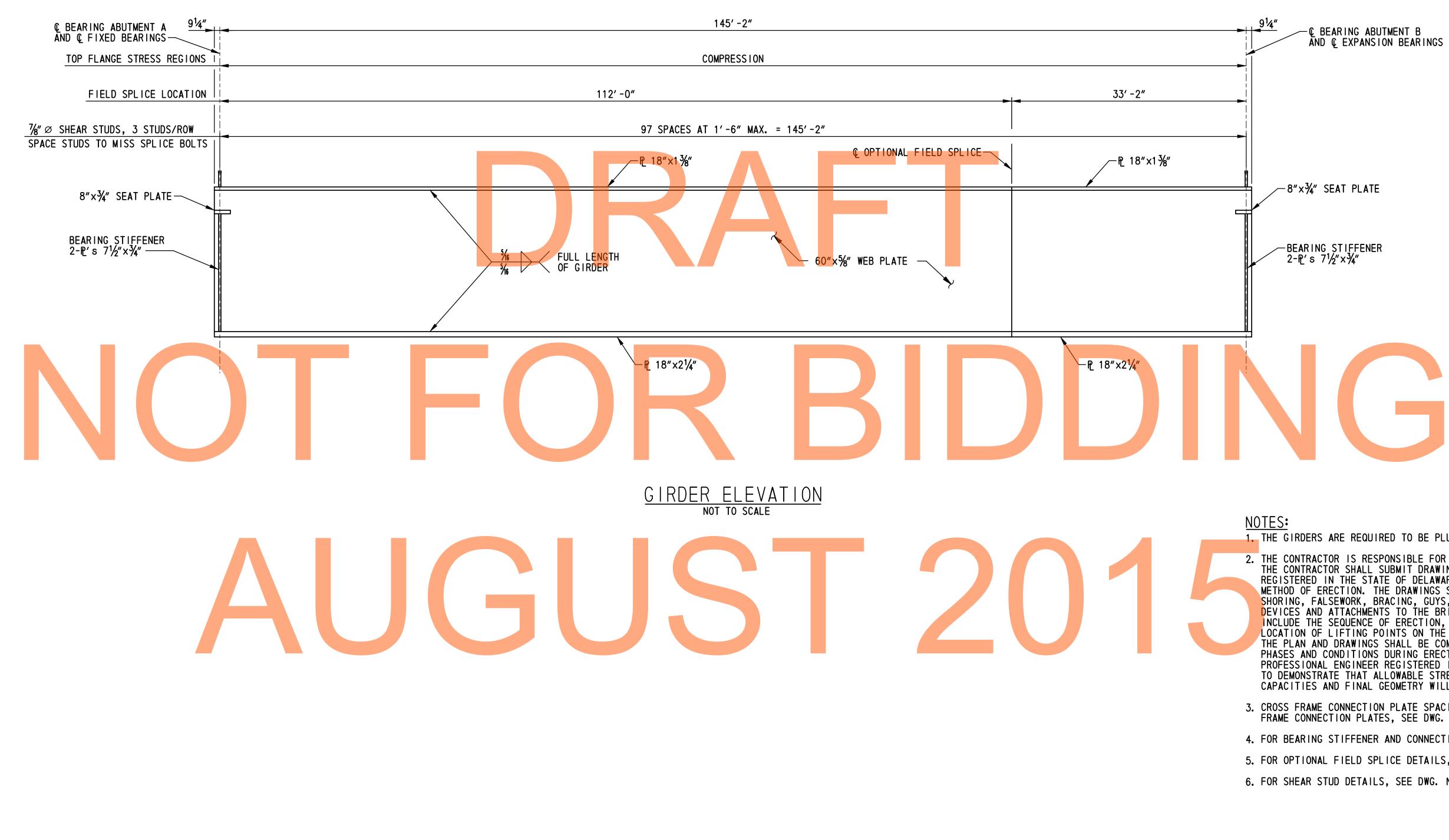
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ND	(TYP.) COVER LAYER (TYP.)	
15"x18" LAMINATED ELASTOMERIC BEARING PAD	INTERIOR LAYERS AND 5 STEEL SHIM PLATES — ERIC BEARING PAD DET OT TO SCALE	AIL
10 GAGE STAINLESS STEEL SHEET PERIPHERY WELDED TO SOLE PLATE	STA. AHEAD © BEARING ASSEMBLY	
ARING MBLY ABUTMENT B EXPANSION BE 1. BEARING ASSEMBLIES SHALL BE PLA OF GIRDER.	FOUR SIDES) $9\frac{3}{4}''$ 1'-7'' <u>CTION J-J</u> SCALE: $3''=1'-0''$ <u>ARING NOTES:</u> ACED PERPENDICULAR TO THE CENTERLINE	
GRADE 36 STEEL. PLATES SHALL BI IN ACCORDANCE WITH SPECIAL PRO SYSTEM, NEW STEEL. TOPCOAT COL (BROWN) OF FEDERAL STANDARD NO. INCIDENTAL TO ITEM 605639 - TFI		
5. ANCHOR BOLTS SHALL BE UNPAINTED PLATE WASHERS SHALL BE UNPAINTED NUTS SHALL BE UNPAINTED ASTM A 6. ELASTOMERIC BEARINGS SHALL CON	D ASTM F 1554, GRADE 105 GALVANIZED STI ED ASTM A 709, GRADE 36 GALVANIZED STEI	EL.
TO ASTM A 36. 7. STAINLESS STEEL SHEET SHALL BE FINISH. 8. PTFE SHEET SHALL BE DIMPLED LUI	ASTM A 167 OR A 264, TYPE 304, #8 MIRI BRICATED MEETING THE REQUIREMENTS OF	ROR
BASE PLATE. 9. THE BASE PLATE AND MASONRY PLA		
11. CONTRACTOR SHALL TOUCH UP SOLE THE MANUFACTURER'S REQUIREMENTS GIRDER.	PLATE PAINT SYSTEM, IN ACCORDANCE WITH S, AFTER WELDING THE SOLE PLATE TO THE ON BEARINGS WILL BE MADE UNDER ITEM	BR1-8
CONTRACT BRIDGE NO. 1–460A OO911308 COUNTY DESIGNED BY: A.D.D.	EXPANSION BEARING DETAILS – ABUTMENT B	BB-02 SHEET NO. 517 TOTAL SHTS.





DELAWARE **DEPARTMENT OF TRANSPORTATION** ADDENDUMS / REVISIONS

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SCALE: AS NOTED	US 301, SR 896 TO SR 1	
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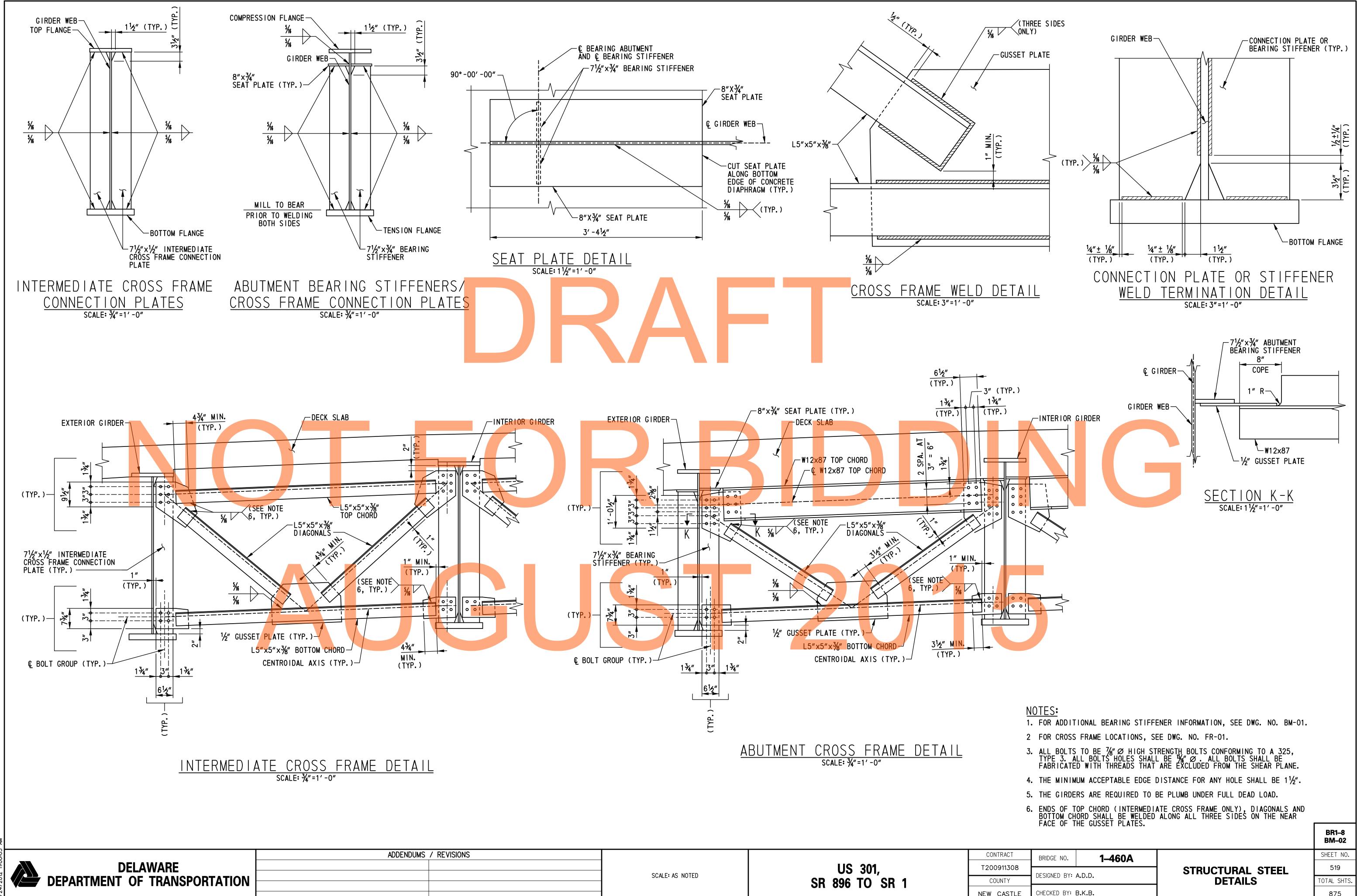
1. THE GIRDERS ARE REQUIRED TO BE PLUMB UNDER FULL DEAD LOAD.

- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE ERECTION OF THE BRIDGE. THE CONTRACTOR SHALL SUBMIT DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE, ILLUSTRATING FULLY THE PROPOSED METHOD OF ERECTION. THE DRAWINGS SHALL SHOW DETAILS OF ALL TEMPORARY SHORING, FALSEWORK, BRACING, GUYS, DEAD-MEN, LIFTING DEVICES, HOLD-DOWN DEVICES AND ATTACHMENTS TO THE BRIDGE MEMBERS. THE DRAWINGS SHALL ALSO INCLUDE THE SEQUENCE OF ERECTION, LOCATION OF CRANES, CRANE CAPACITIES, LOCATION OF LIFTING POINTS ON THE BRIDGE MEMBERS AND WEIGHTS OF MEMBERS. THE PLAN AND DRAWINGS SHALL BE COMPLETE IN DETAIL FOR ALL ANTICIPATED PHASES AND CONDITIONS DURING ERECTION. CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE ARE REQUIRED TO DEMONSTRATE THAT ALLOWABLE STRESSES ARE NOT EXCEEDED AND THAT MEMBER CAPACITIES AND FINAL GEOMETRY WILL BE CORRECT.
- 3. CROSS FRAME CONNECTION PLATE SPACING NOT SHOWN. FOR LOCATION OF CROSS FRAME CONNECTION PLATES, SEE DWG. NO. FR-01.
- 4. FOR BEARING STIFFENER AND CONNECTION PLATE DETAILS, SEE DWG. NO. BM-02.
- 5. FOR OPTIONAL FIELD SPLICE DETAILS, SEE DWG. NO. BM-03.
- 6. FOR SHEAR STUD DETAILS, SEE DWG. NO. SD-01.

BR1-8 BM-01
SHEET NO.
518
TOTAL SHTS.
875

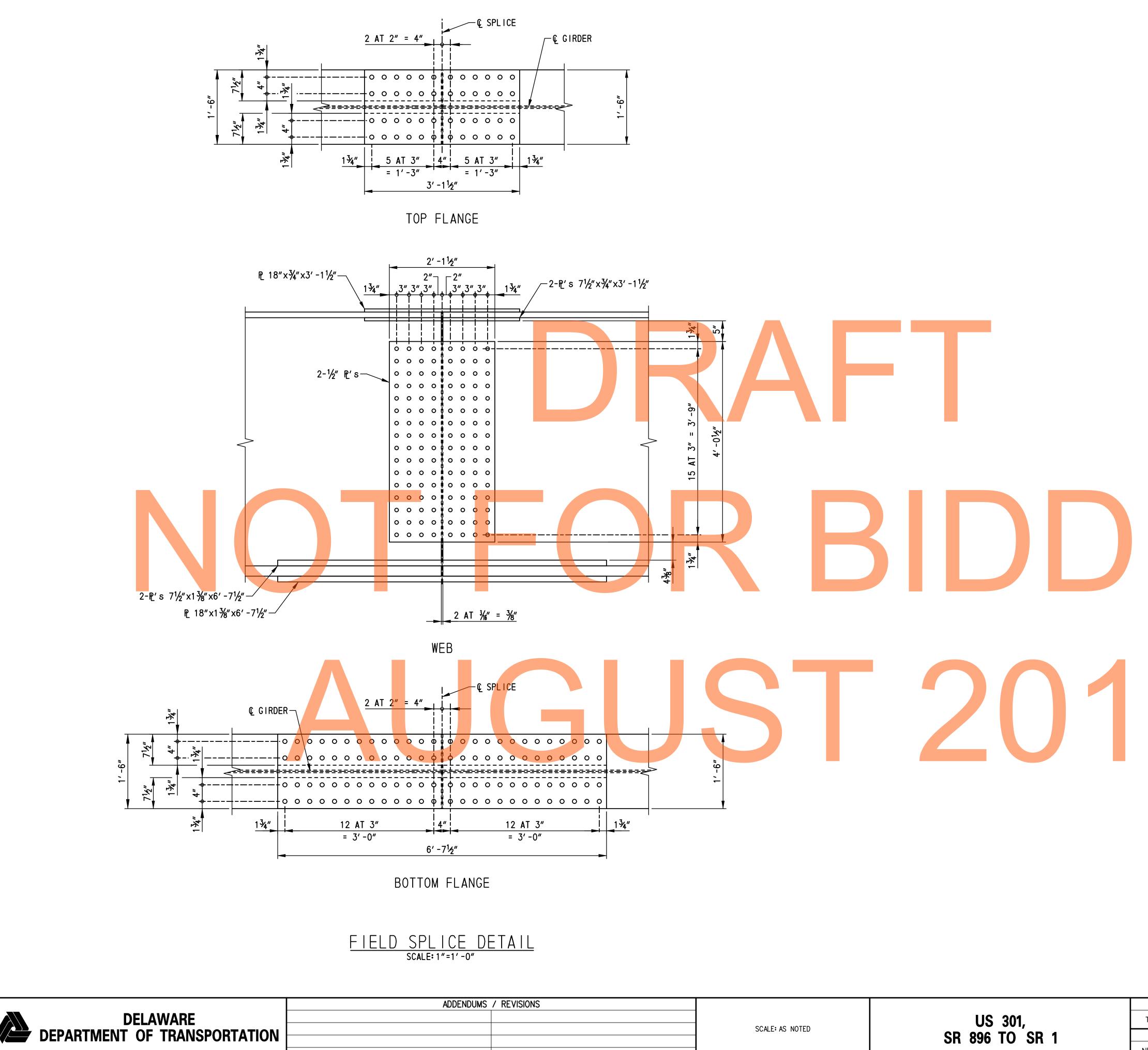
CONTRACT	BRIDGE NO.	1–460A			
200911308					
COUNTY	DESIGNED BY: A.D.D.				
W CASTLE	CHECKED BY:	B.K.B.			

GIRDER ELEVATION



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/ REVISIONS		
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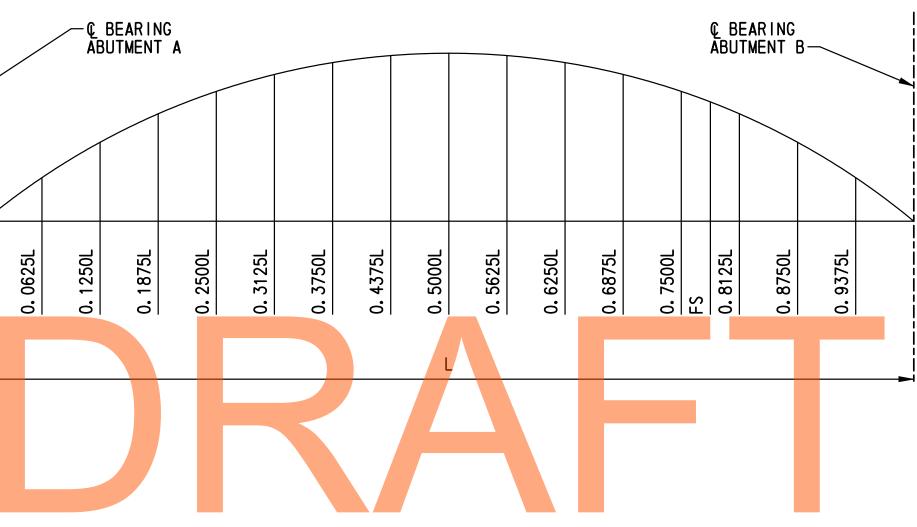
SPLICE NOTES:

- 1. FOR LOCATION OF OPTIONAL FIELD SPLICE, SEE DWG. NOS. BM-01 AND FR-01.
- 2. THE CONTRACTOR HAS THE OPTION OF FABRICATING THE GIRDERS IN ONE PIECE, OR USING THE FIELD SPLICE SHOWN; HOWEVER, NO ADDITIONAL COMPENSATION TO THE CONTRACTOR WILL BE ALLOWED FOR WHICHEVER ALTERNATIVE IS SELECTED. THE CONTRACTOR AND FABRICATOR SHALL ENSURE THAT THE GIRDER IS NOT OVERSTRESSED AND REMAINS STABLE DURING FABRICATION, SHIPPING AND ERECTION IF THE OPTIONAL FIELD SPLICE IS NOT USED.
- 3. FIELD SPLICE DESIGNED AS A SLIP CRITICAL CONNECTION WITH CLASS A SURFACE CONDITIONS.
- ALL BOLTS TO BE 7/8" Ø HIGH STRENGTH BOLTS CONFORMING TO A 325, TYPE 3. ALL BOLT HOLES SHALL BE 1/16" Ø .ALL BOLTS SHALL BE FABRICATED WITH THREADS THAT ARE EXCLUDED FROM THE SHEAR PLANE.
- 5. THE MINIMUM ACCEPTABLE EDGE DISTANCE FOR ANY HOLE SHALL BE 1½".
- 6. BOLT HEADS SHALL BE ON THE EXTERIOR FACE OF THE EXTERIOR GIRDERS AND THE BOTTOM OF THE BOTTOM FLANGES.
- 7. BOLTS NOT SHOWN IN SPLICE.
- 8. SPACE SHEAR STUDS TO MISS TOP FLANGE SPLICE BOLTS.
- 9. ON EACH SIDE OF THE & OF SPLICE A MINIMUM OF 50 PERCENT OF THE WEB, TOP FLANGE, AND BOTTOM FLANGE SPLICE BOLTS SHALL BE IN PLACE BEFORE THE GIRDER IS LEFT UNSUPPORTED.
- 10.FIELD SPLICES SHALL BE COMPLETELY SHOP ASSEMBLED AND MATCH MARKED AFTER ALL SHOP WELDING HAS BEEN COMPLETED. CONTACT SURFACES SHALL BE FREE OF ALL OIL AND DIRT.

				BR1-8 BM-03	
CONTRACT	BRIDGE NO.	1–460A		SHEET NO.	
200911308				520	
COUNTY	DESIGNED BY:	A.D.D.	SPLICE DETAILS	TOTAL SHTS.	
EW CASTLE	CHECKED BY:	B.K.B.		875	



DEPARTMENT OF TRANSPORTATION



		DEF	LEC)N A	ND	TOT	AL	CAM	BER	S (IN.)				
ABUI. A	0. 0625L	0.1250L	0. 1875L	0. 2500L	0. 3125L	0. 375 <mark>0L</mark>	0. 4375L	0. 5000L	0. 5625L	0. 6250L	0. 6875L	0. 7500L	FS	0. 8125L	0. 8750L	0. 9375L	© BRG. ABUT. B
	3/8	3/4	1 1/16	1 5/16	1 %	1 3⁄4	1 7/8	1 7/8	1 7/8	1 3/4	1 %	1 5/6	1 1/4	1 1/16	3/4	3/8	0
	1 ¹ / ₈	2 3/16	31/4	4 1/16	4 ¹³ / ₁₆	5 %	5 %	5 ¾	5 %	5 %	4 ¹ 3⁄16	41/16	313/16	31/4	2 3/16	11/8	0
	3/8	3⁄4	1 1/16	1 5/16	1 %	1 3/4	1 ¹ ‰	1 7/8	1 ¹ ‰	1 3/4	1 %	1 5/16	1 ¹ /4	1 1/16	3⁄4	3/8	0
	1 7/8	311/16	5 %	611/16	7 ¹⁵ /16	8 ¹³ /16	9 5/16	91⁄2	9 5/16	8 ¹ ‰	7 ¹⁵ /16	6 ¹¹ /16	6 5/16	5 %	311/16	1 7/8	0
	15/16	1 3/4	21/16	2 ¹⁵ /16	33/8	311/16	37/8	315/16	37/8	311/16	33/8	2 ¹⁵ /16	25⁄8	21/16	1 3/4	15/16	0
	213/16	51/6	7 ¹ ₁₆	95%	1 1 5 <mark>/1</mark> 6	121/2	133/16	131/16	1 3 3/16	12 ¹ / ₂	115/16	95%8	8 ¹⁵ /16	713/16	5 1/16	213/16	0
				· · · · · · · · · · · · · · · · · · ·													
ABUI. A	0. 0625L	0. 1250L	0. 1875L	0. 2500L	0. 3125L	0. 37501	0. 4 <u>375</u> L	0. 5000L	0. 5625L	0. 6250L	0. 6875L	0. 7500L	FS	0. 81 25L	0. 8750L	0. 9375L	© BRG. ABUT. B
	3/8	3/4	1 1/16	1 5/16	1 %	1 3⁄4	1 7/8	1 15/16	1 7/8	1 <mark>3⁄4</mark>	1 %	1 3/8	1 ¹ /4	1 1/16	3⁄4	3/8	0
	1 5/16	2 %	311/16	4 11/16	51/2	6 <mark>1/16</mark>	6 1/16	6 5/8	6 <mark>1⁄16</mark>	6 <mark>1/16</mark>	5½	411/16	4 ⁵ ⁄16	311/16	2 %	1 5/16	0
	3/8	11/16	1	11/4	11/2	1 5/8	1 ¹¹ / ₁₆	1 3⁄4	1 ¹¹ /16	1 5/8	1 ½	11/4	1 3/16	1	11/16	3⁄8	0
	21/16	4	5 ¾	71⁄4	8%	9 1⁄16	10	105/16	10	9 1/16	8%	7 5/16	6¾	5 ¾	4	21/16	0
	15/16	1 3/4	2 1/16	2 ¹⁵ /16	33/8	311/16	37/8	3 ¹⁵ /16	37/8	311/16	33/8	2 ¹⁵ ‰	2¾	21/16	1 3⁄4	15/16	0
	3	5 ¾	8 3/6	103/16	11 ¹ ‰	13 <mark>1</mark> ⁄8	137⁄8	14¼	137⁄8	13 <mark>1</mark> ⁄8	11 ¹ %	10¼	9½	8 ³ /16	5 ¾	3	0



NOTES:

- 1. ALL GIRDERS OF ALL SPANS SHALL BE CAMBERED FOR DEAD LOAD DEFLECTION TO THE DIMENSIONS SHOWN ON THIS PLAN. THE CAMBER TOLERANCE IS NOTHING UNDER TO 3/4 INCH OVER.
- 2. CAMBERS ARE SHOWN IN INCHES.
- 3. POSITIVE DEFLECTIONS ARE MEASURED IN THE DOWNWARD DIRECTION. POSITIVE VERTICAL CURVE ORDINATE AND POSITIVE CAMBER ARE MEASURED IN THE UPWARD DIRECTION.

LEGEND:

- DLS- DENOTES DEFLECTION DUE TO STRUCTURAL STEEL
- DLC- DENOTES DEFLECTION DUE TO CONCRETE SLAB
- SDL- DENOTES DEFLECTION DUE TO PARAPET AND FUTURE WEARING SURFACE
- TD&C- DENOTES TOTAL DEAD LOAD DEFLECTION AND CAMBER DENOTES CAMBER FOR VERTICAL CURVE ORDINATE DUE TO ROADWAY PROFILE VCO-
- TRC- TOTAL REQUIRED CAMBER = TD&C + VCO
- FS- FIELD SPLICE (OPTIONAL)

				BR1-8 CT-01
CONTRACT	BRIDGE NO.	1–460A		SHEET NO.
T200911308				521
COUNTY	DESIGNED BY:	A.D.D.	CAMBER DIAGRAM	TOTAL SHTS.
NEW CASTLE	CHECKED BY:	B.K.B.		875





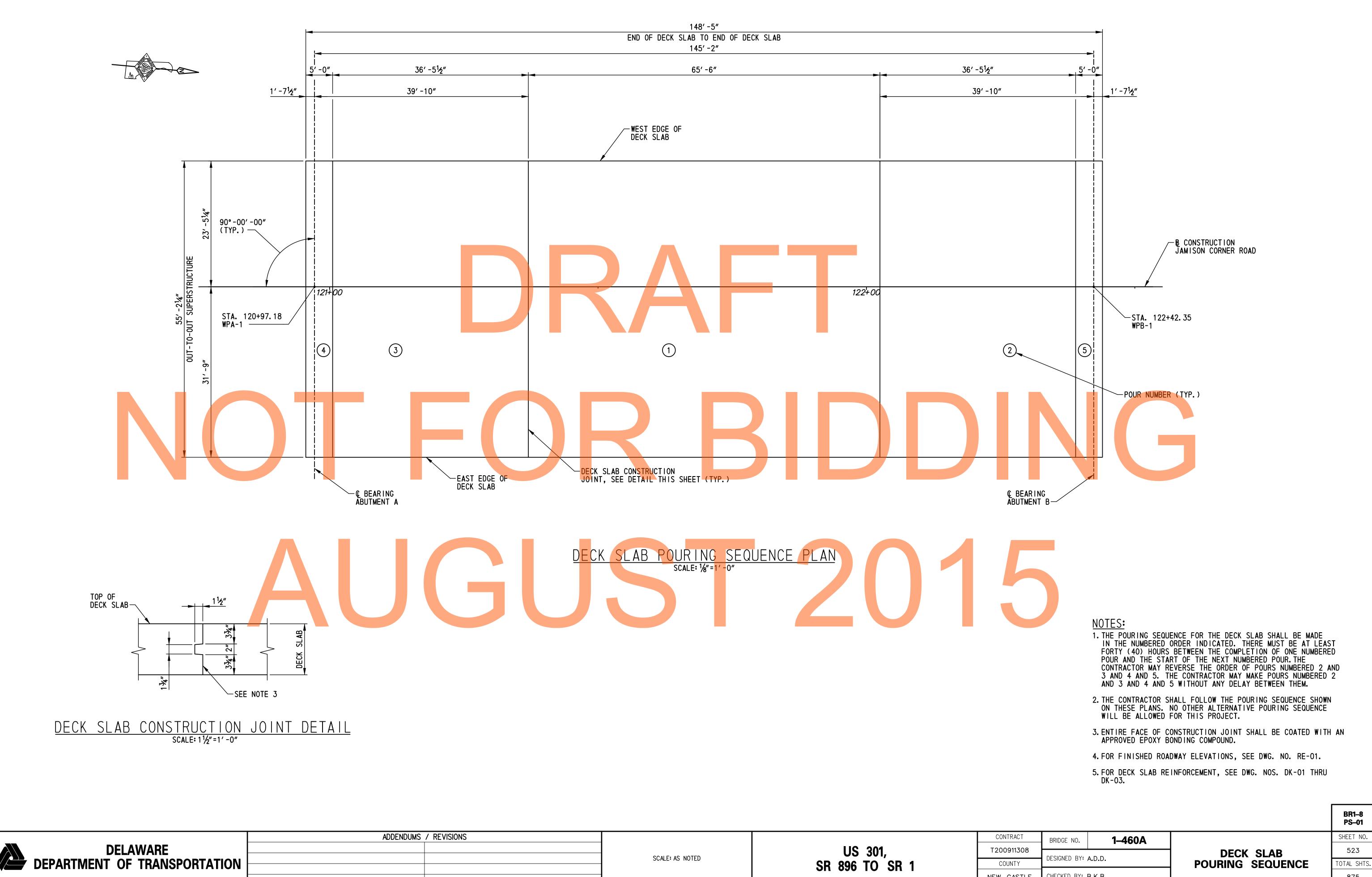


	ADDENDUMS	/ REVISIONS
DELAWARE		
DEPARTMENT OF TRANSPORTATION		
DEPARTIVIENT OF TRANSPORTATION		

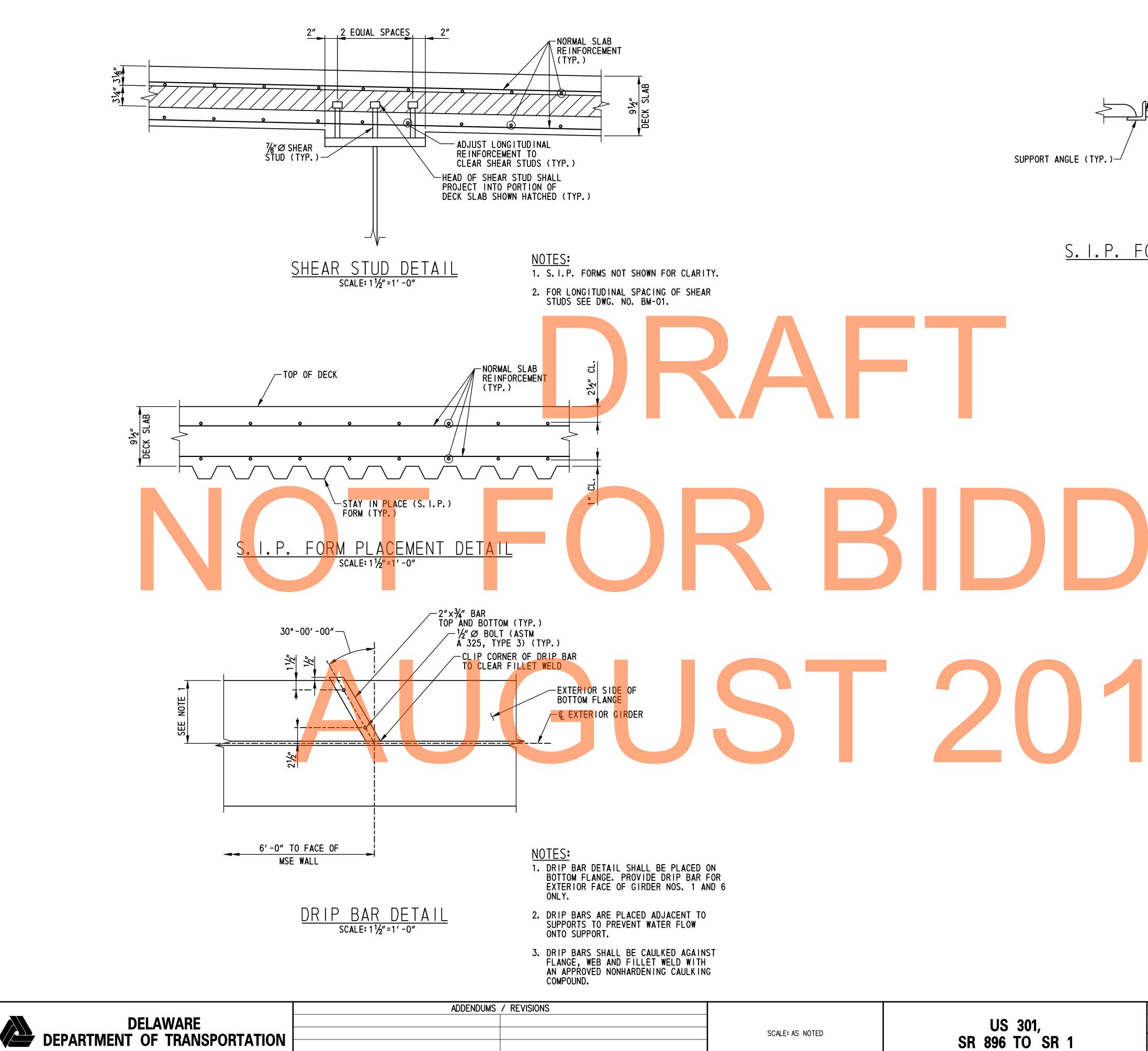
٧S			
		US 301,	Т
	SCALE: AS NOTED	SR 896 TO SR 1	
			NE

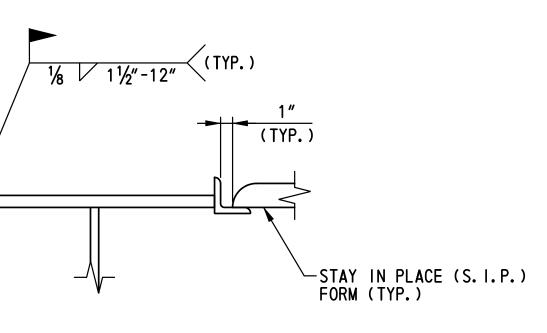
1. FOR CROSS FRAME DETAILS, SEE DWG. NO. BM-02. 2. FOR OPTIONAL FIELD SPLICE DETAILS, SEE DWG. NO. BM-03.

				BR1-8 FR-01
CONTRACT	BRIDGE NO.	1–460A		SHEET NO.
200911308				522
COUNTY	DESIGNED BY:	A.D.D.	FRAMING PLAN	TOTAL SHTS.
EW CASTLE	CHECKED BY:	B.K.B.		875



NS			CONTRACT	BRIDGE NO.	
		US 301,	T200911308		
	SCALE: AS NOTED	SR 896 TO SR 1	COUNTY	DESIGNED BY: /	4.D.D.
			NEW CASTLE	CHECKED BY: E	3.K.B.





S. I. P. FORM ATTACHMENT DETAIL SCALE: 11/2"=1'-0"





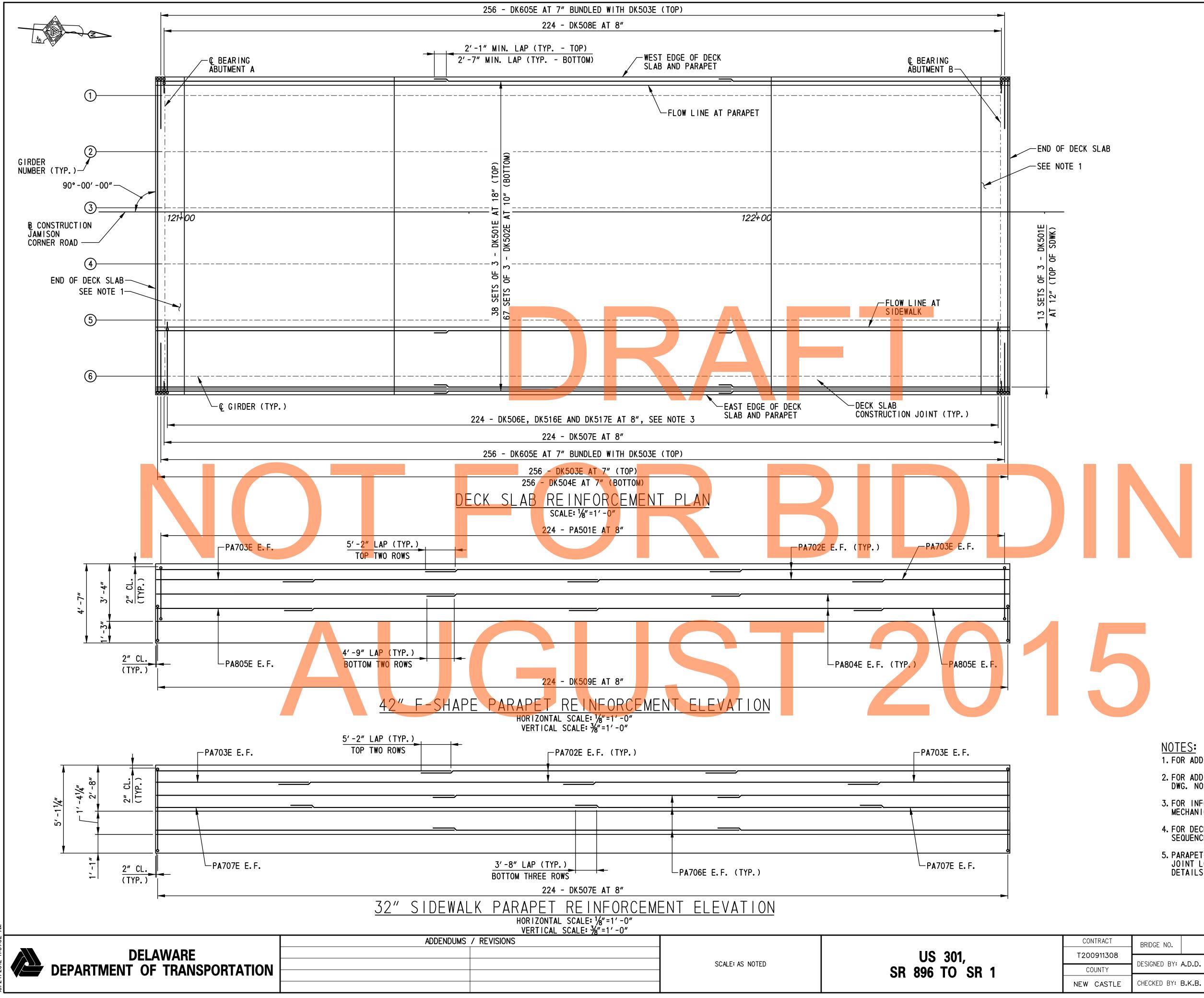
STAY IN PLACE FORM NOTES:

- 1. STAY IN PLACE FORMS SHALL CONFORM TO 602.03.
- 2. STAY IN PLACE FORMS SHALL BE VERTICALLY ADJUSTED TO ATTAIN FINISHED LINES AND GRADES REQUIRED ON THE PLANS.

3. ANY PERMANENTLY EXPOSED FORM METAL WHERE THE GALVANIZED COATING HAS BEEN DAMAGED SHALL BE THOROUGHLY CLEANED, WIRE BRUSHED, AND PAINTED WITH TWO COATS OF ZINC-OXIDE DUST PRIMER, FEDERAL SPECIFICATION TT-P-641D, TYPE II, NO COLOR ADDED, TO THE SATISFACTION OF THE ENGINEER. MINOR HEAT DISCOLORATION IN AREAS OF WELDS NEED NOT BE TOUCHED UP.

BR1-8 SD-01
SHEET NO.
524
TOTAL SHTS.
875

CONTRACT	BRIDGE NO.	1–460A	
T200911308			SUPERSTRUCTURE
COUNTY	DESIGNED BY:	A.D.D.	DETAILS
NEW CASTLE	CHECKED BY:	B.K.B.	



NOTES:

1. FOR ADDITIONAL REINFORCEMENT IN END HAUNCH, SEE DWG. NO. DK-03.

1–460A

4. FOR DECK SLAB CONSTRUCTION JOINT LOCATIONS AND DECK SLAB POURING SEQUENCE, SEE DWG. NO. PS-01.

5. PARAPET CONTROL JOINTS NOT SHOWN FOR CLARITY. FOR PARAPET CONTROL JOINT LOCATIONS, SEE DWG. NO. PE-01. FOR PARAPET CONTROL JOINT DETAILS, SEE DWG. NO. FD-01.

DECK SLAB AND PARAPET

REINFORCEMENT

BR1--8 DK--01

SHEET NO.

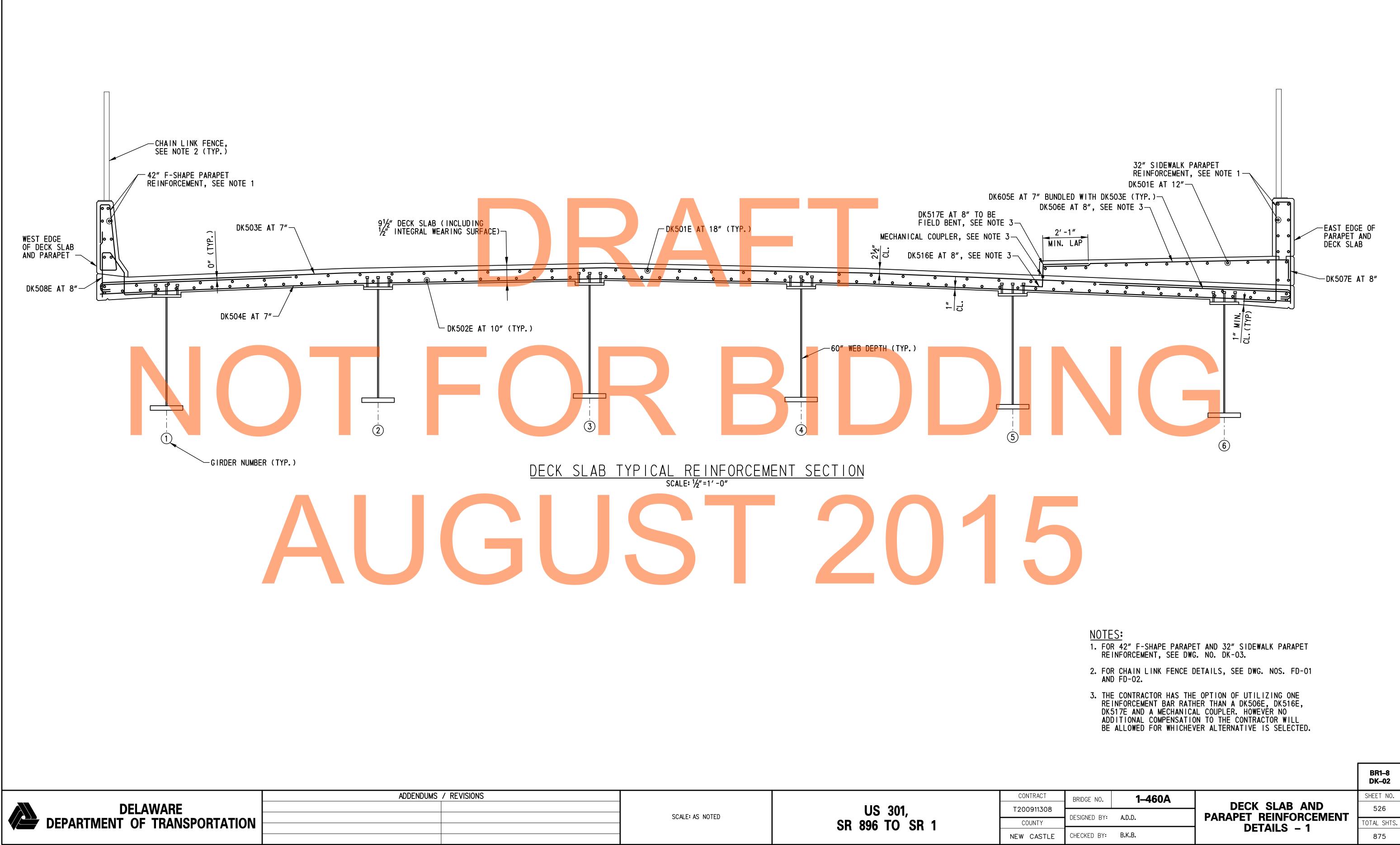
525

FOTAL SHTS

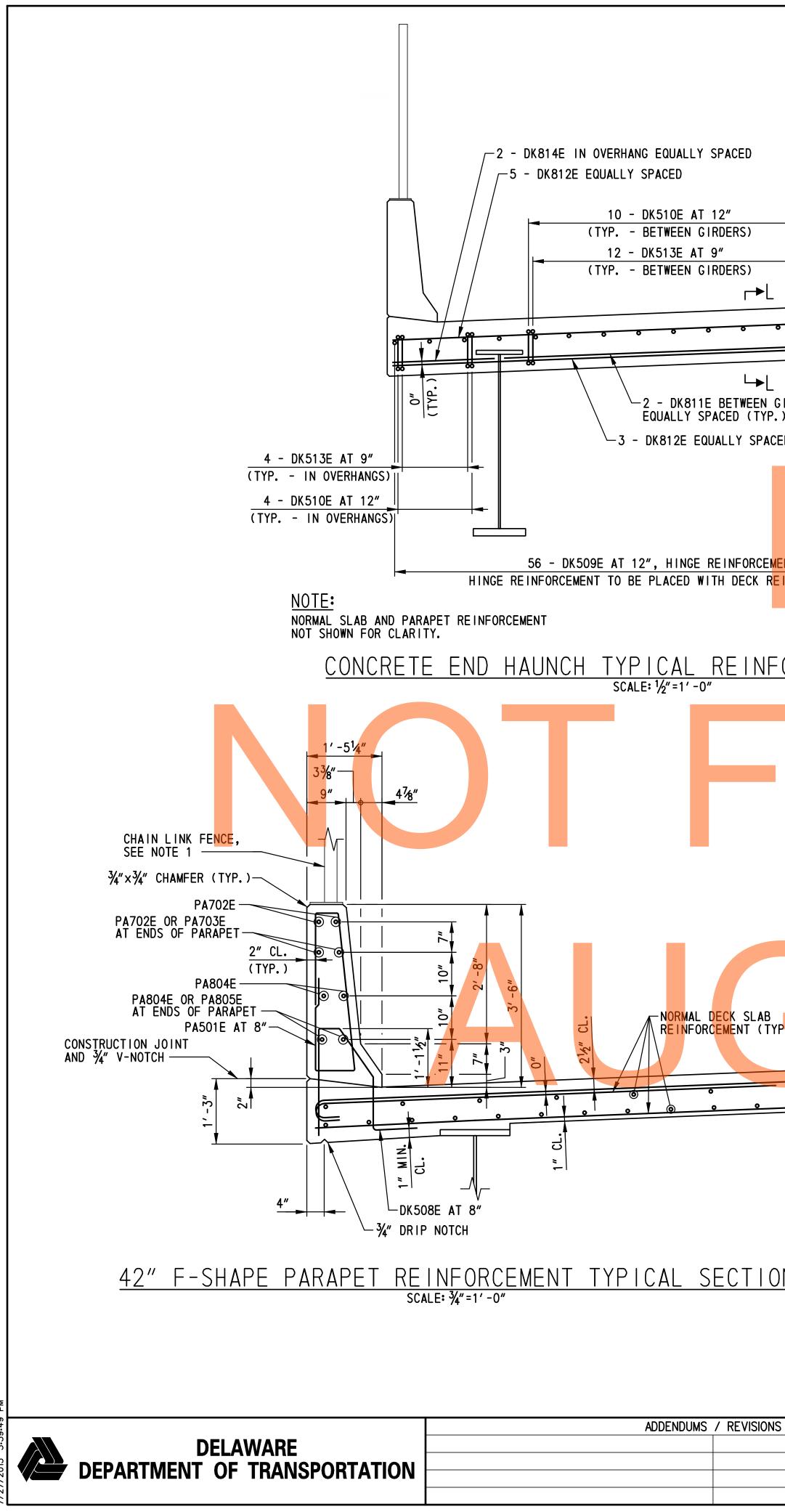
875

- 2. FOR ADDITIONAL DECK SLAB AND PARAPET REINFORCEMENT DETAILS, SEE DWG. NOS. DK-02 AND DK-03.

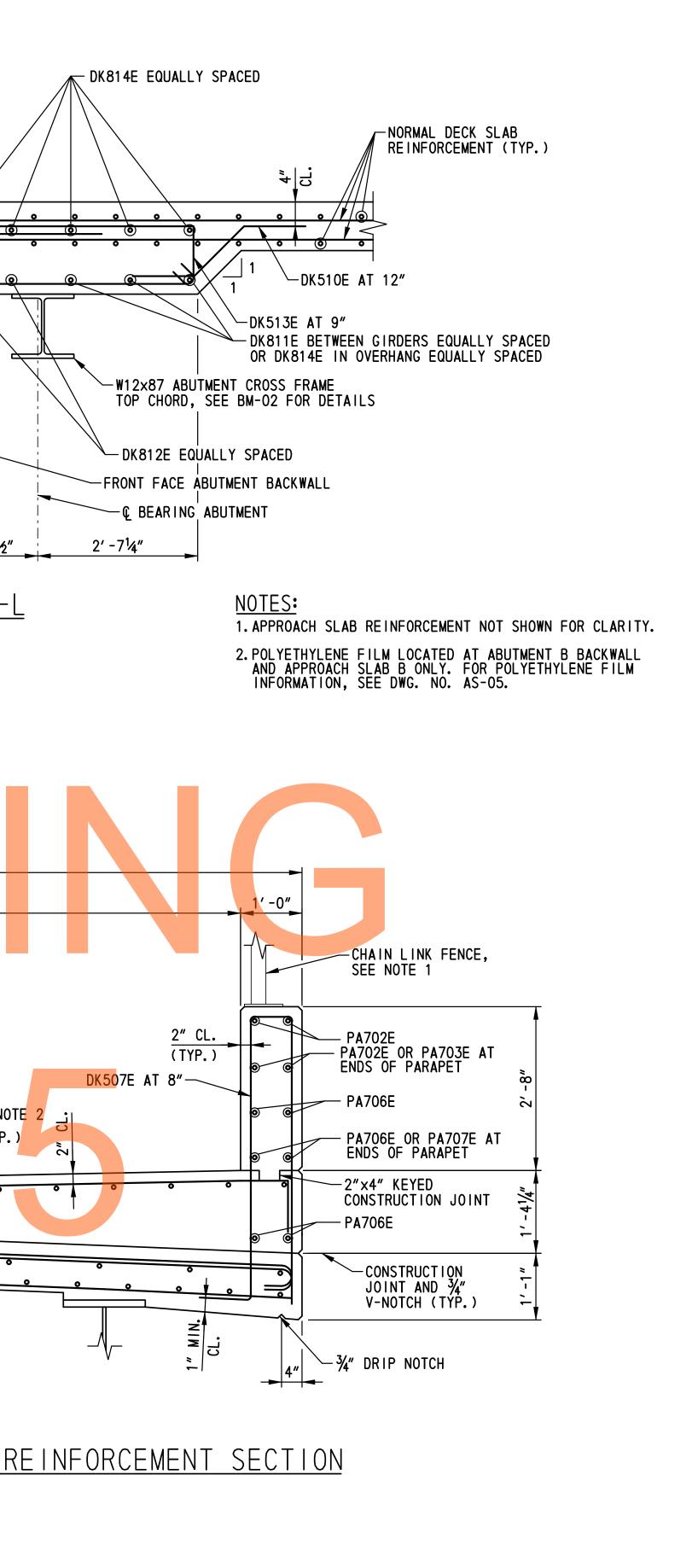
3. FOR INFORMATION ON DK506E, DK516E AND DK517E AND ASSOCIATED MECHANICAL COUPLER, SEE DWG. NO. DK-02.



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	SCALE: AS NOTED	US 301, SR 896 TO SR 1	
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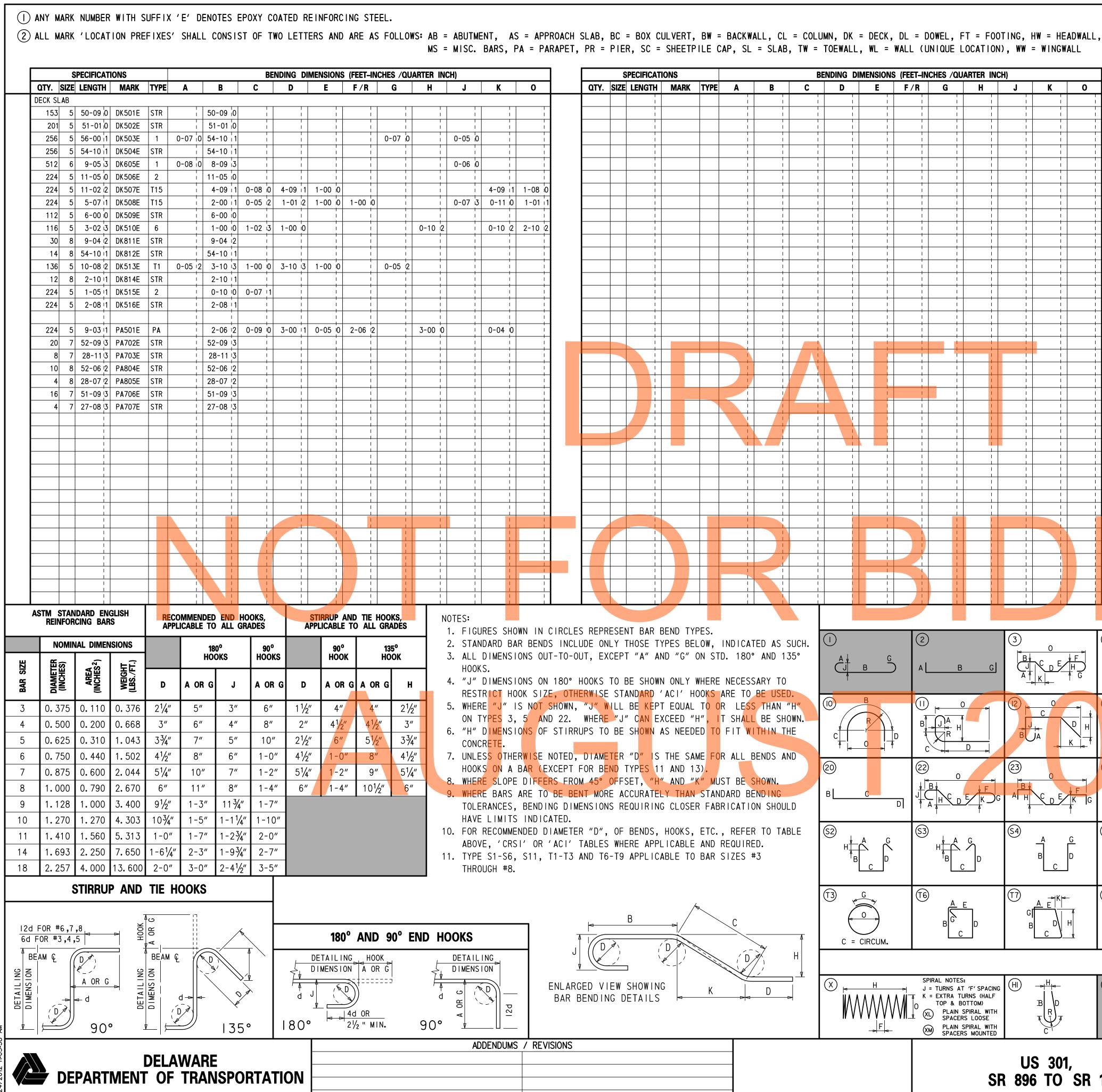


		AND UNDER APPROACH SLAB, SEE NOTE 2
	DK509E AT 12" H TO BE PLACED WIT CENTERED AT CONS	INGE REINFORCEMENT, TH DECK REINFORCEMENT
		PPROACH SLAB
►	ů v v	
	 - - -	
	<u> </u>	
	POLYETHYLENE FILM,	SEE NOTE 2- ペローン 2" CL.
・ ・ こ SIRDERS ~	6" DEEP DELAWARE	
GIRDERS NI) ED		
	RE/	AR FACE ABUTMENT BACKWALL
		<u>1' -7½'</u>
ENT		<u>SECTION L-</u>
		SCALE: 3/4" =1' -0"
ORCEMENT SECTION		
	9" BARRIER CURB	11'-9" 10'-0" SHARED USE PATH
P.)	PRMAL DECK SLAB	DK506E AT 8", SEE NO DK501E AT 12" (TYP.
		(516E AT 8", SEE NOTE 2
	v	ROUGHENED CONSTRUCTION JOINT
N	Z0// CIP	EWALK DADADET TVDICAL F
<u>NOTES</u> 1. FOR CHAIN LINK FENCE DE	コムーントレ ETAILS, SEE DWG. NOS. FD-01 THRU FD-02.	EWALK PARAPET TYPICAL F scale: ¾"=1'-0"
	OPTION OF UTILIZING ONE REINFORCEMENT SE, DK516E, DK517E AND A MECHANICAL COUPL COMPENSATION TO THE CONTRACTOR WILL BE ALTERNATIVE IS SELECTED.	ER.
3		С
	SCALE: AS NOTED	US 301, T2 SR 896 TO SR 1



CONTRACT	BRIDGE NO.	1–460A	DECK SLAB AND	SHEET NO.
T200911308 COUNTY	DESIGNED BY:	A.D.D.	PARAPET REINFORCEMENT	527 TOTAL SHTS.
NEW CASTLE	CHECKED BY:	B.K.B.	DETAILS – 2	875

BR1-8 DK-03

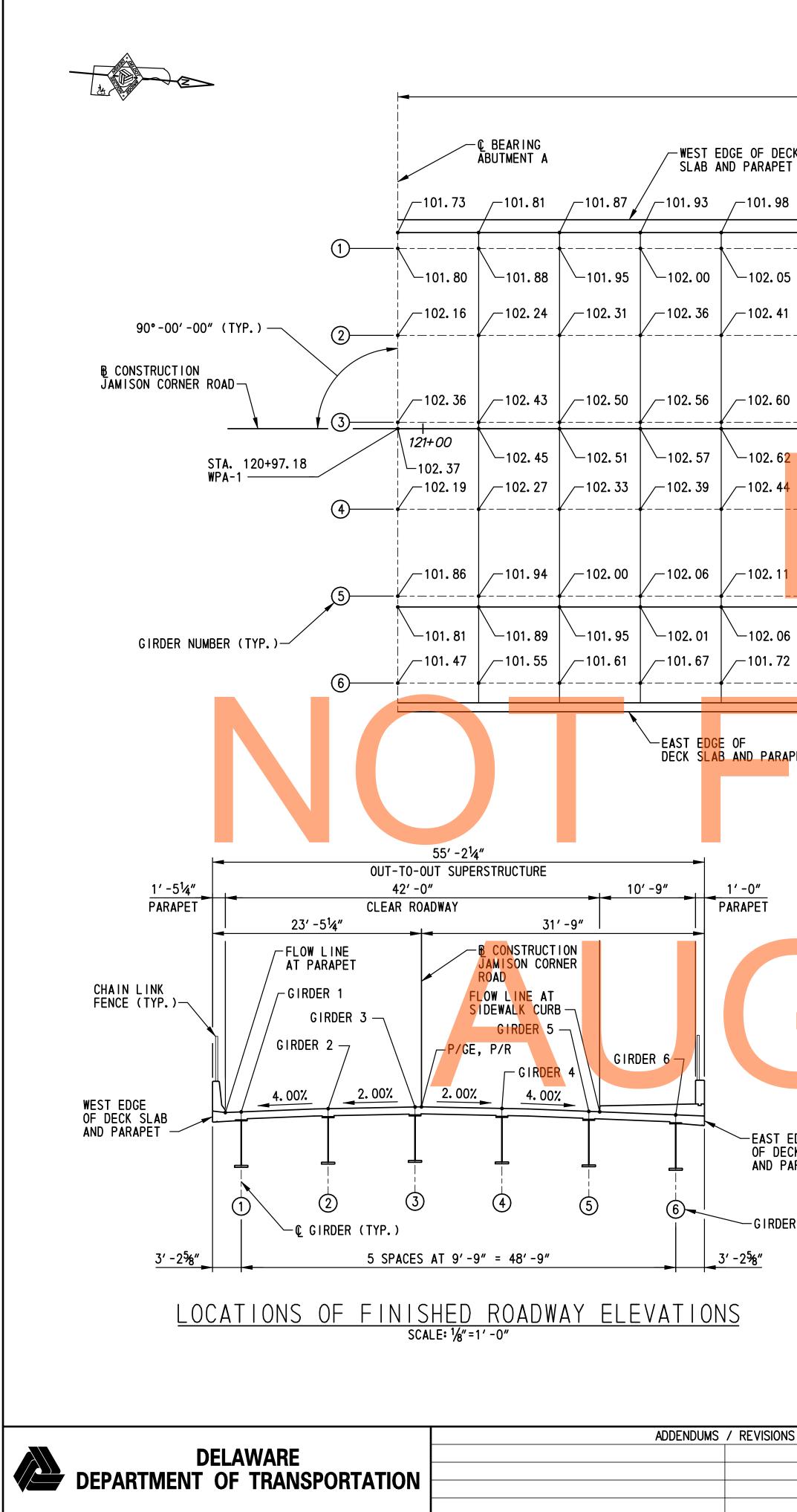


SPECIFICATIONS BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH) SPECIFIC/ QTY. SIZE LENGTI C D E F/R G H J K QTY. SIZE LENGTH MARK TYPE A B 0 STAND 1. FIGURES SHOWN IN CIRCLES REPRESENT BAR BEND TYPES. 2. STANDARD BAR BENDS INCLUDE ONLY THOSE TYPES BELOW, INDICATED AS SUCH. 3. ALL DIMENSIONS OUT-TO-OUT, EXCEPT "A" AND "G" ON STD. 180° AND 135° A J B ↓ 4. "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD 'ACI' HOOKS ARE TO BE USED. (3) → B ∧ 1 (10) 5. WHERE "J" IS NOT SHOWN, "J" WILL BE KEPT EQUAL TO OR LESS THAN "H" ON TYPES 3, 5 AND 22. WHERE "J" CAN EXCEED "H", IT SHALL BE SHOWN. <mark>- al^yia−</mark> H √R 6. "H" DIMENSIONS OF STIRRUPS TO BE SHOWN AS NEEDED TO FIT WITHIN THE D C D 0 7. UNLES<mark>S OTHERWIS</mark>E NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR (EXCEPT FOR BEND TYPES 11 AND 13). 8. WHERE SLOPE DIFFERS FROM 45° OFFSET, "H" AND "K" MUST BE SHOWN. СЛ В 9. WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING ₩<u>C D E/K</u>) TOLERANCES, BENDING DIMENSIONS REQUIRING CLOSER FABRICATION SHOULD S2) 10. FOR RECOMMENDED DIAMETER "D", OF BENDS, HOOKS, ETC., REFER TO TABLE ABOVE, 'CRSI' OR 'ACI' TABLES WHERE APPLICABLE AND REQUIRED. 11. TYPE S1-S6, S11, T1-T3 AND T6-T9 APPLICABLE TO BAR SIZES #3 С С С вС в C D H 0 D(| H| С С C = CIRCUM. SPEC SPIRAL NOTES: ⊣H⊨ ENLARGED VIEW SHOWING (HI) J = TURNS AT 'F' SPACING D K = EXTRA TURNS (HALF TOP & BOTTOM) PLAIN SPIRAL WITH SPACERS LOOSE BAR BENDING DETAILS B D TUT F M PLAIN SPIRAL WITH SPACERS MOUNTED US 301, T2 SR 896 TO SR 1

MS = MISC. BARS, PA = PARAPET, PR = PIER, SC = SHEETPILE CAP, SL = SLAB, TW = TOEWALL, WL = WALL (UNIQUE LOCATION), WW = WINGWALL

NEW

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			6 A A B 26 IS							B C	B C R C					
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			6 А А В С6 В С6 В С6 С В С В С С В С С С С С			A = T $A = T$ $A = T$ $A = T$ $A = T$	H C C C D K C C D K F C C D C D C C D D C D D C D C D C D D C D D C D			B C	B C B C					
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			6 А А С6 В С6 В С6 В С В С В С С В С С С С С	$ \begin{array}{c} $		A = T $A = T$ $B = T$ $B = T$ $F = A$				B C	B C B C					
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			С С С С С С С С С С С С С С	$A = \begin{bmatrix} C \\ C$		A = T $B = T$ $B = T$ $TI6 = F$				B C	B C B C					
			С С С С С С С С С С С С С С С С С С С	$A = \begin{bmatrix} C \\ C$		A = K (17) $B = T$ (30) $H = C$ (510) $B = T$ (716) $F = C$ (70)				B C	B C B C					
				$ \begin{array}{c} $		A = T $B = T$ $B = T$ $TI6 = F$				B C	B C B C					
				$A = \begin{bmatrix} C \\ C$		A = T $A = T$ $B = T$ $B = T$ $TI6 = F$ $A = T$ $F = 0$				B C	B C B C					
				$A = \begin{bmatrix} C \\ C$		$A = \frac{C}{K}$ $I = \frac{C}{K}$	H C									
				$A = \begin{bmatrix} C \\ C$		$A = \frac{C}{K}$ $I = \frac{C}{K}$	H C									G D A BR1-8 BB-02 EET NO. 528
				$ \begin{array}{c} $		$A = \frac{C}{K}$ $I = \frac{C}{K}$	H C				B C B C					



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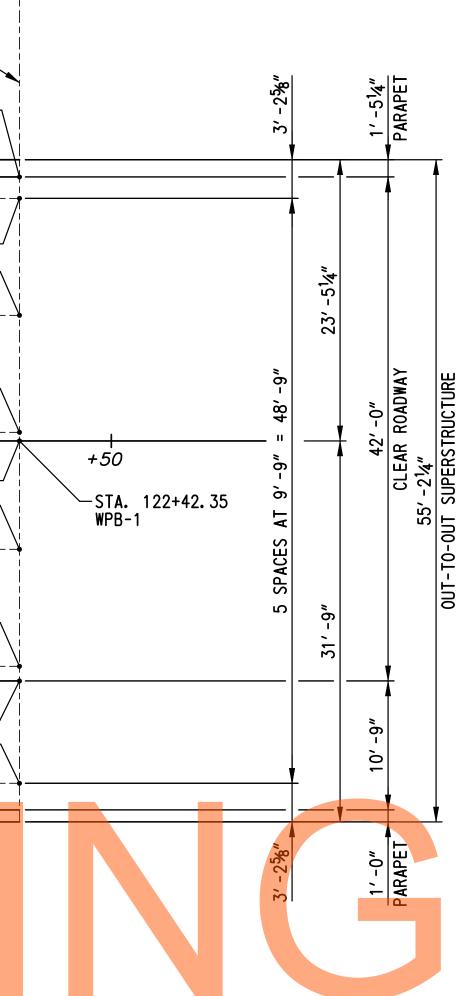
16 SPACES AT 9'-07/8" = 145'-2"

ECK					6 C I D					© BEARI ABUTMEN	NG IT B
ET	102. 01	102. 04	102.05		U UTRI	DER (TYP.)	FLOW LI AT PARA -102.01	NE PET 101.98		101.87	101.73-
)5	-102.08	-102.11	-102.13	-102.13		-102. 11	-102.08	-102.05	-102.00	-101.95	-101.88 101.80-
	102. 44	-102. 47	-102.49	-102. 49	-102. 49	-102. 47	-102. 44	-102. 41	-102.36	-102. 31	101.80-
50		-102.67	-102.68	-102.69	-102.68	-102.67	-102.64	-102.60	-102.56	-102.50	102. 36 102. 43
52 4	+50 -102.65 -102.47	-102.68 -102.50	-102. 69 -102. 51	-102. 70 -102. 52	-102. 69 -102. 51	-102.68 -102.50	<i>122+00</i> -102.65 -102.47	-102. 62	-102. 57 -102. 39	-102. 51 -102. 33	-102. 45 102. 37 102. 19
1	 102 . 14		-102.18			102. 17	102.14	102. 11			101.86 101.94
)6 72	-102.09 -101.75	-102.12 -101.78	-102.13 -101.79	-102.14 -101.80	-102. 13 -101. 79	-102. 12 -101. 78	-102.09 -101.75	-102.06	-102.01 -101.67	-101.95 -101.61	-101.89 101.81- 101.47- -101.55
APE		ISHED	ROADWA scale: 1/8" =		VATION	-FLOW LINE SIDEWALK C	AT URB				
ED ECK PAR	OGE SLAB RAPET										

-GIRDER NUMBER (TYP.)

>		

SCALE: AS NOTED





NOTES:

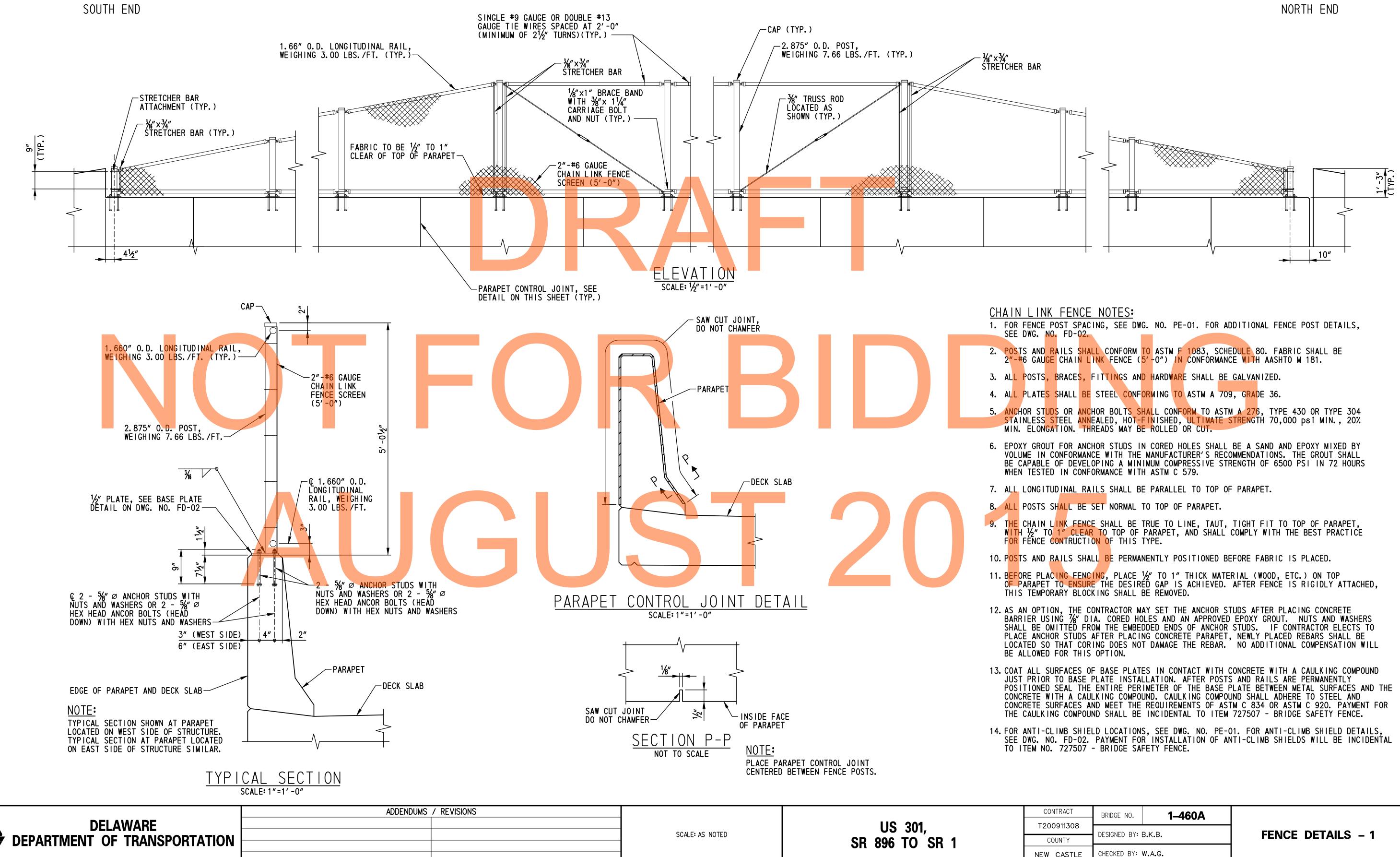
1. FINISHED ROADWAY ELEVATIONS SHOWN ARE TOP OF PROPOSED CONCRETE DECK SLAB.

2. FOR VERTICAL CURVE DATA, SEE DWG. NO. PE-01.

CONTRACT	BRIDGE NO.	1–460A						
00911308	DECIONED DV.							
COUNTY	DESIGNED BY: A.D.D.							
W CASTLE	CHECKED BY:	B.K.B.						

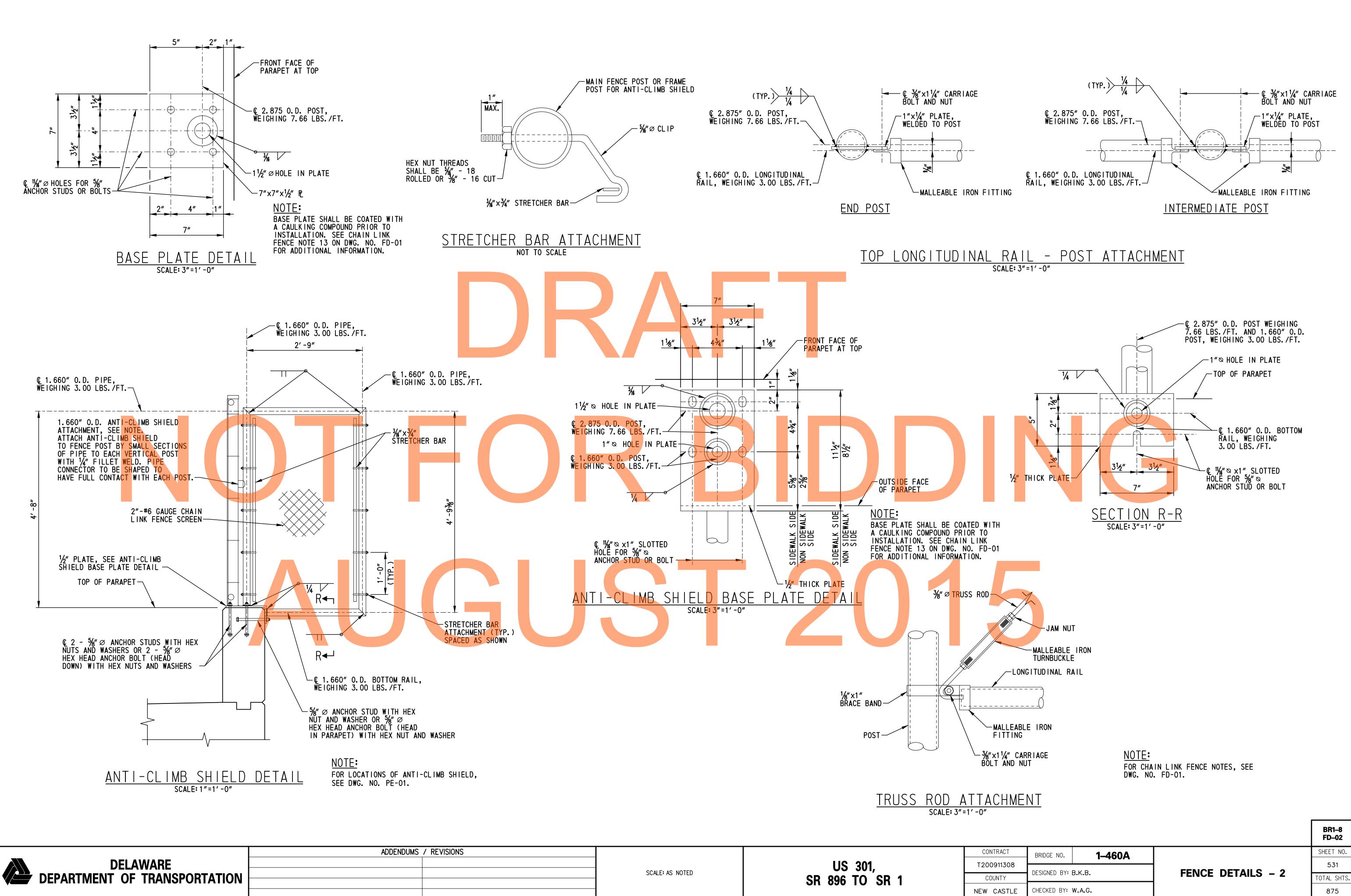
FINISHED ROADWAY ELEVATIONS BR1-8 RE-01 SHEET NO. 529 TOTAL SHTS. 875

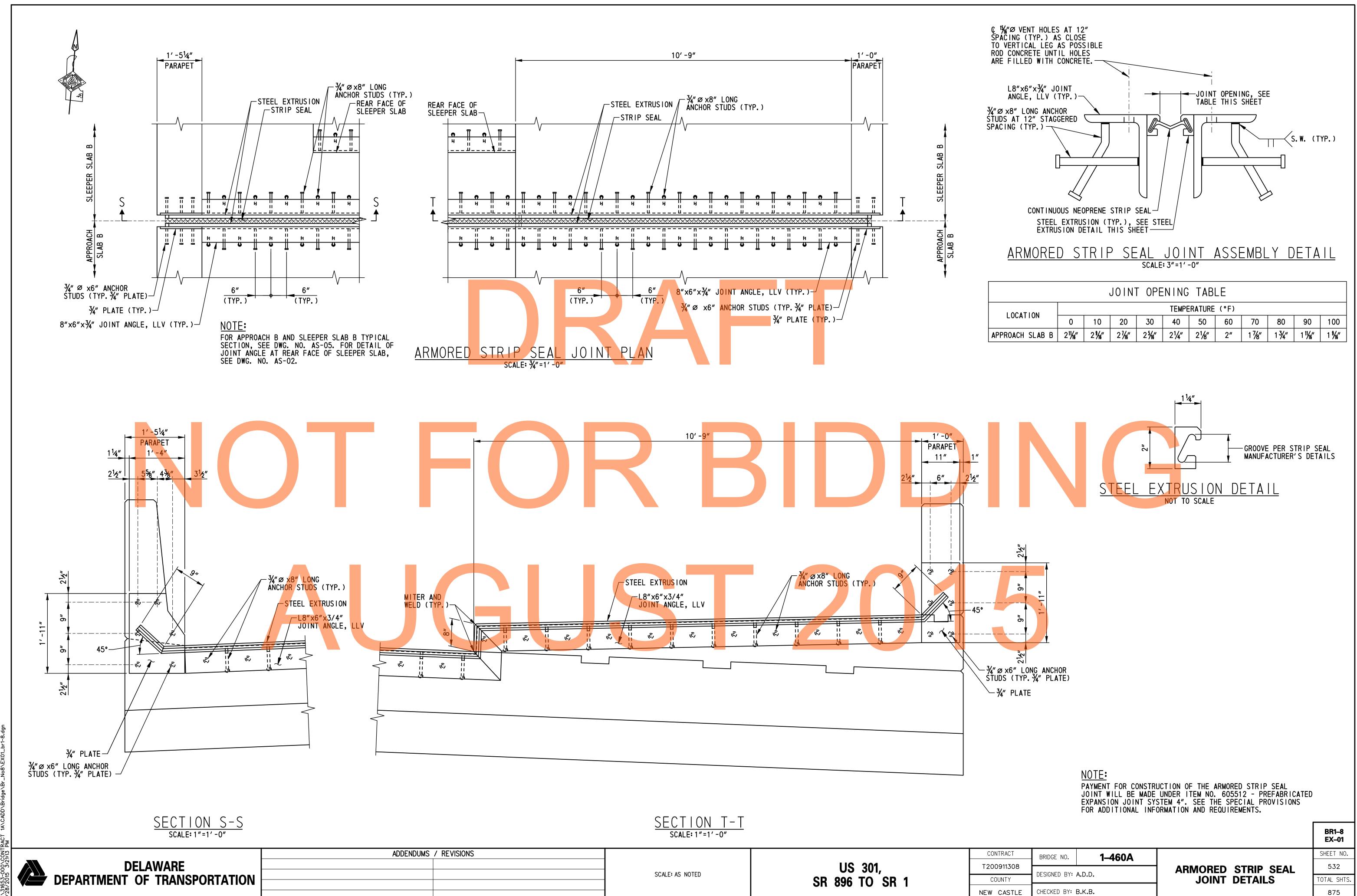




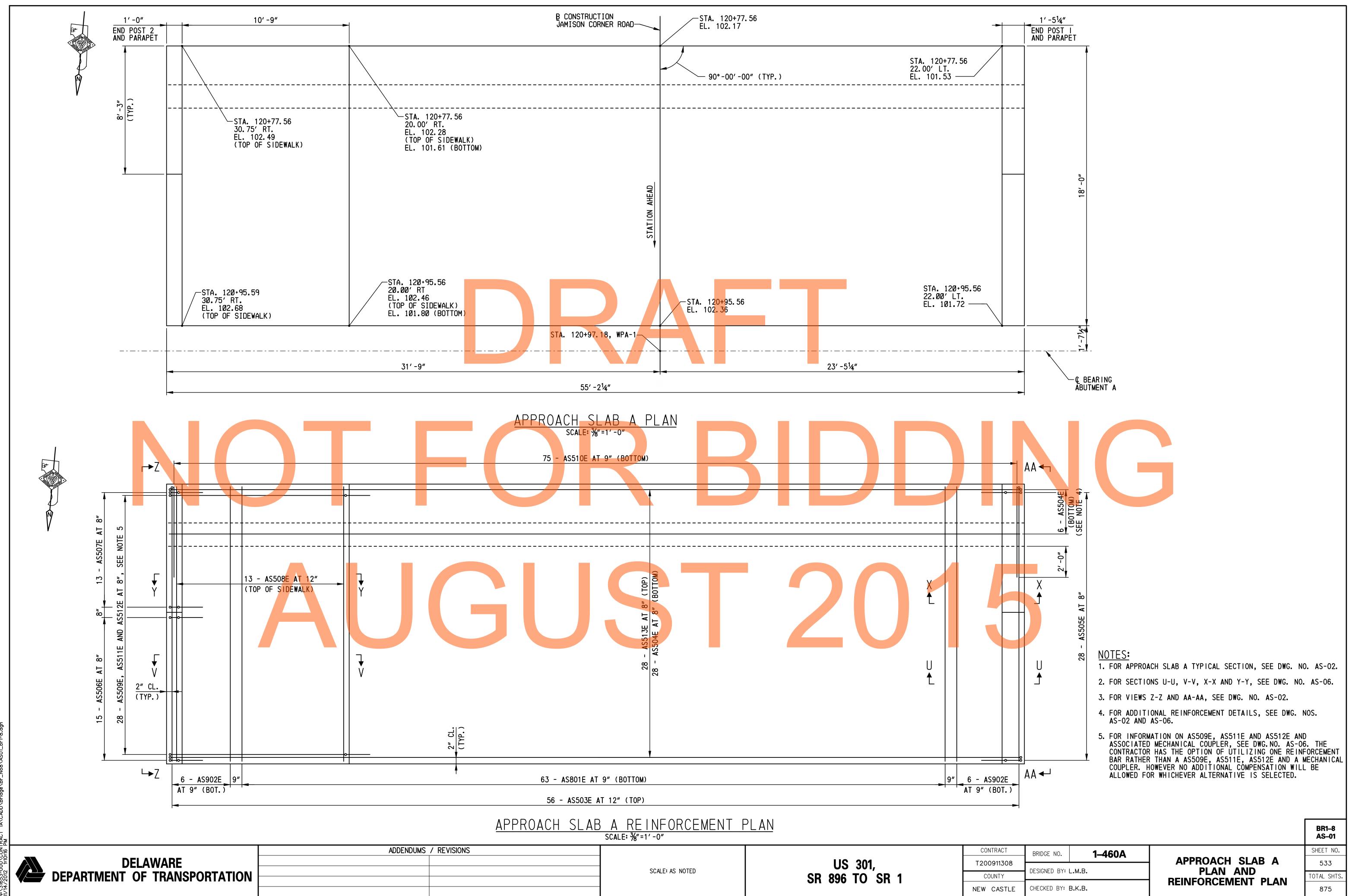
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				BR18 FD01
CONTRACT	BRIDGE NO.	1–460A		SHEET NO.
200911308				530
COUNTY	DESIGNED BY:	В.К.В.	FENCE DETAILS – 1	TOTAL SHTS.
W CASTLE	CHECKED BY:	W.A.G.		875

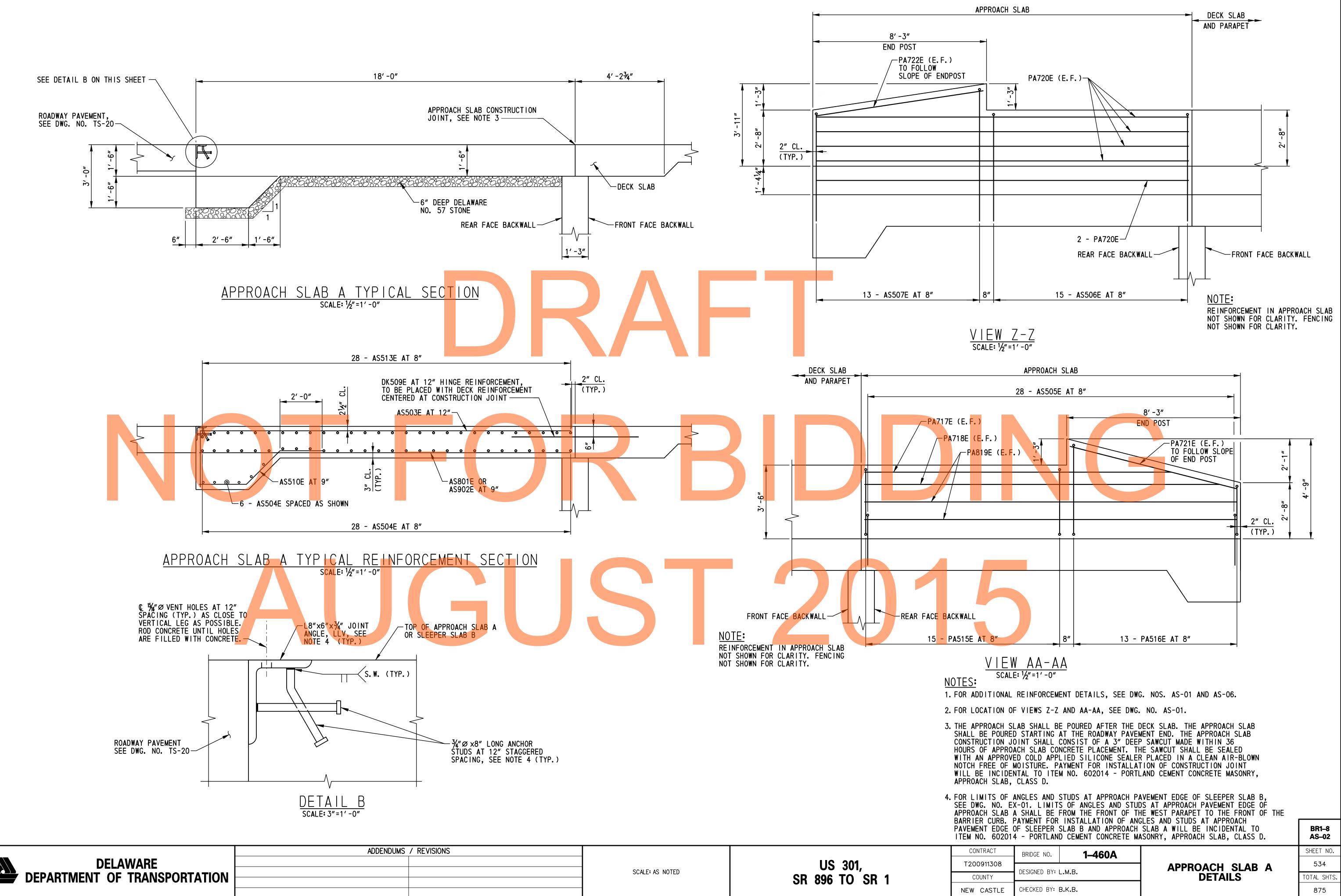


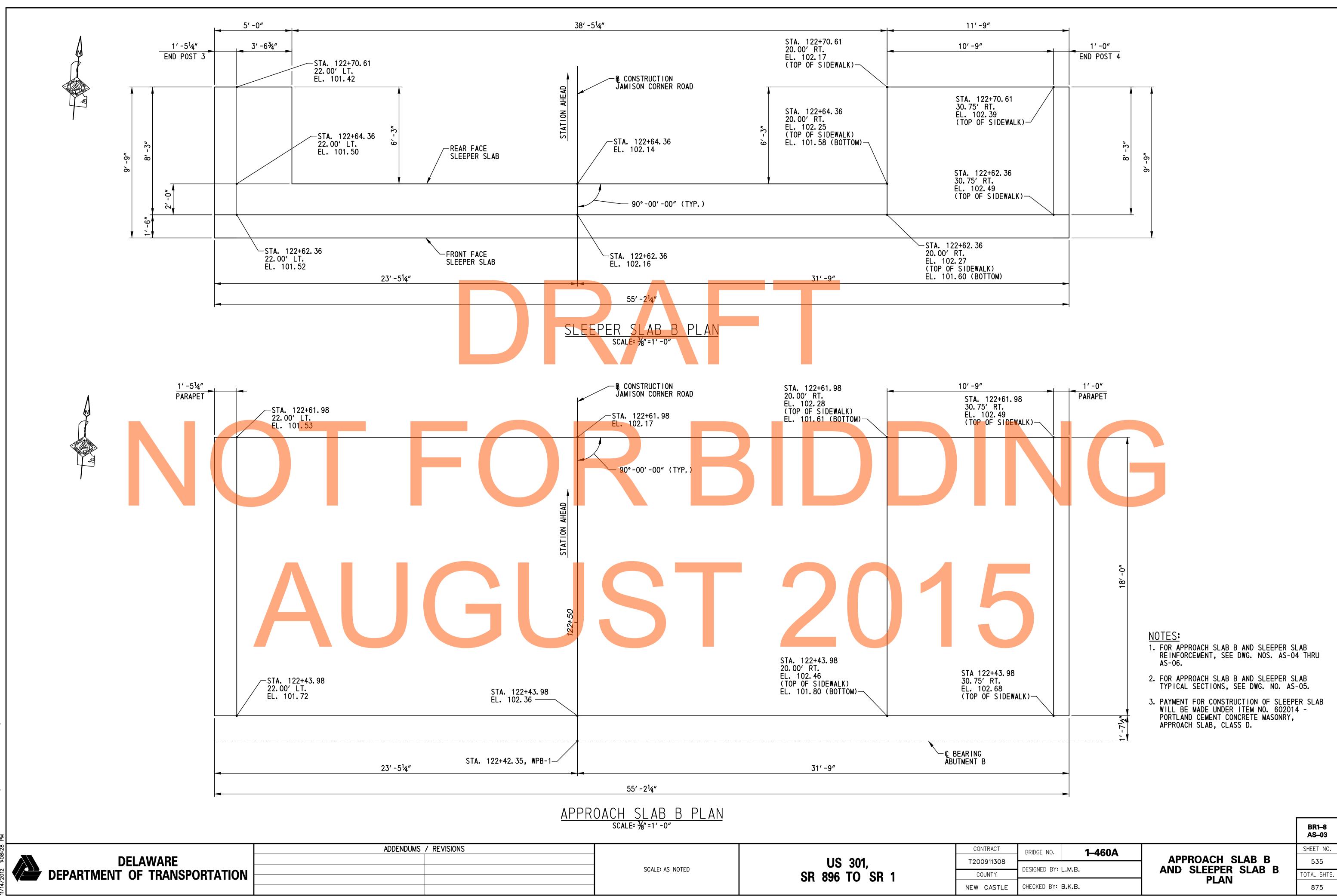


S			(
		US 301,	T2
	SCALE: AS NOTED	SR 896 TO SR 1	
			NE

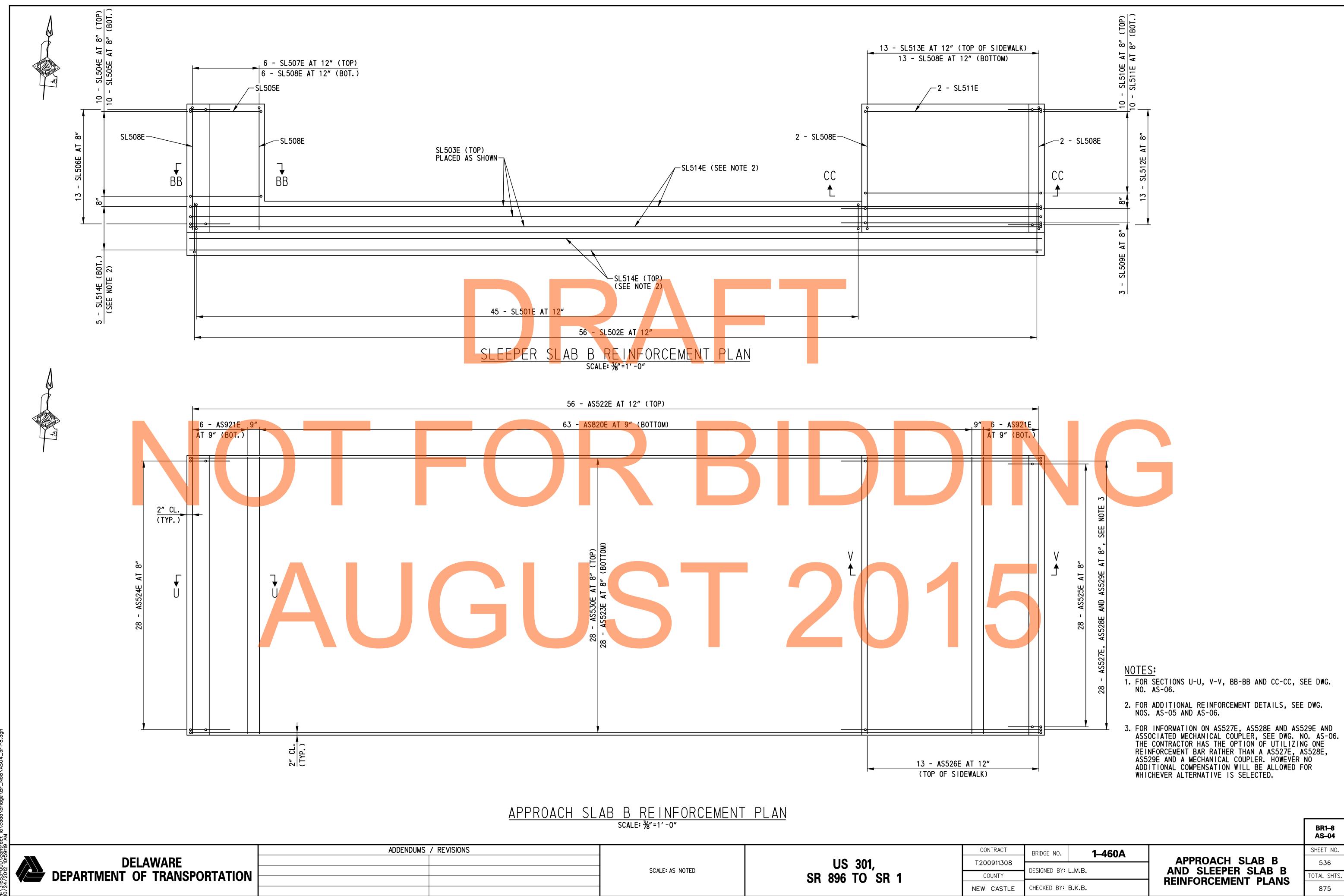


001110.001	BRIDGE NO.	1–460A	
T200011709		1 4004	APPROACH SLAB
T200911308	DESIGNED BY:		PLAN AND
COUNTY	DESIGNED DI.	L.M.D.	
NEW CASTLE	CHECKED BY:	B.K.B.	REINFORCEMENT PL

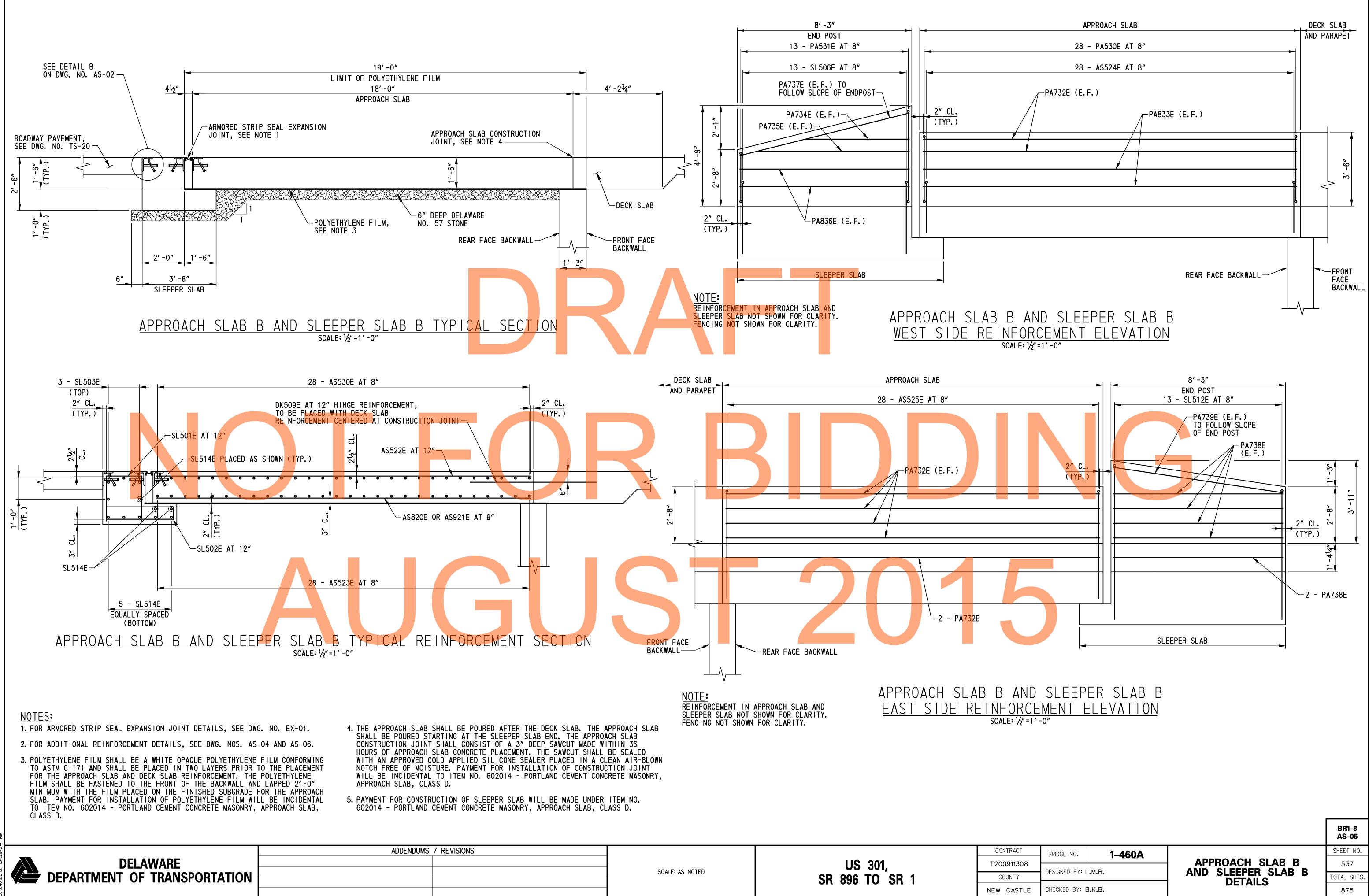




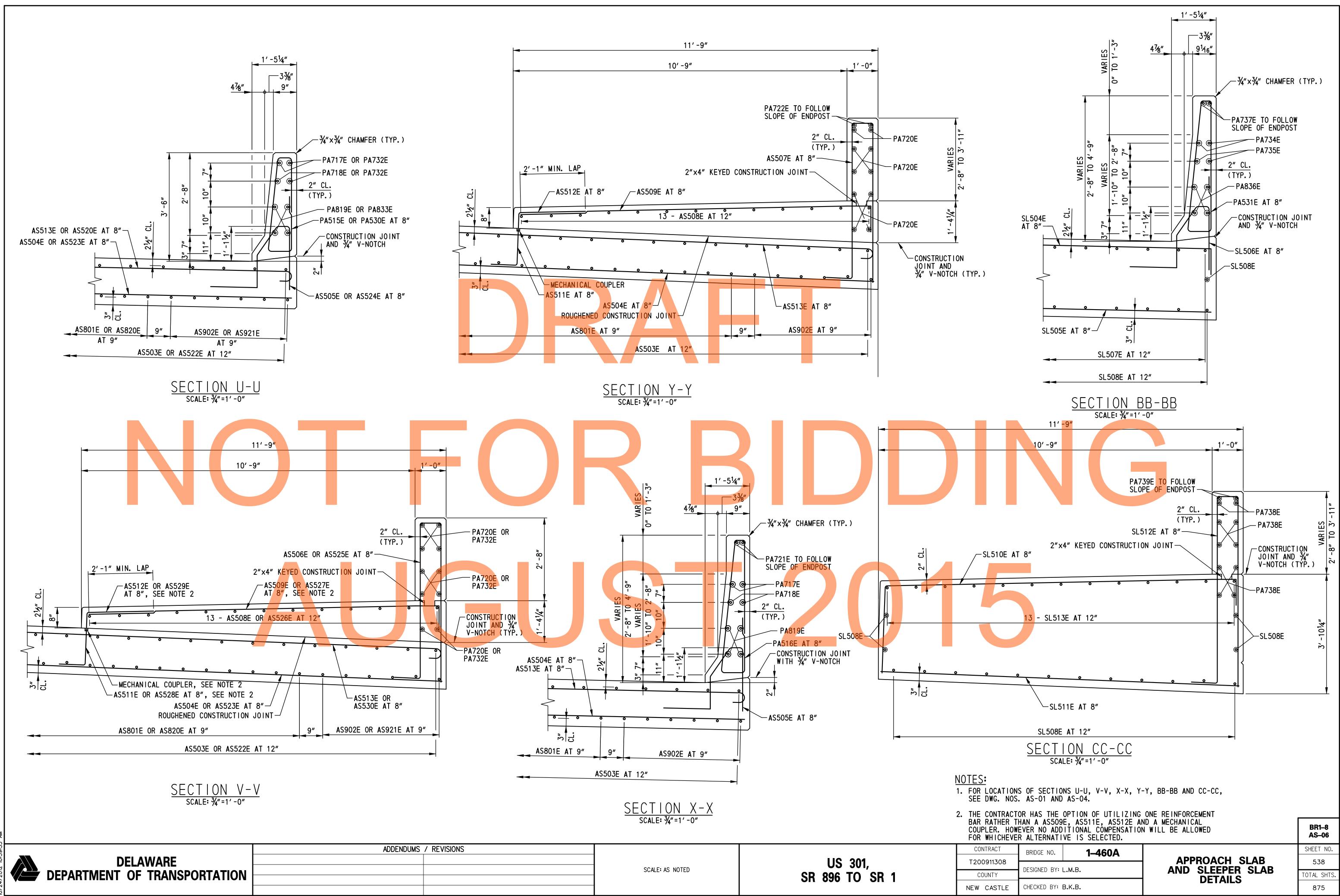
53-000\CONTRACT 1A\CADD\Bridge\Br_No8\AS03_br1-8.dgr

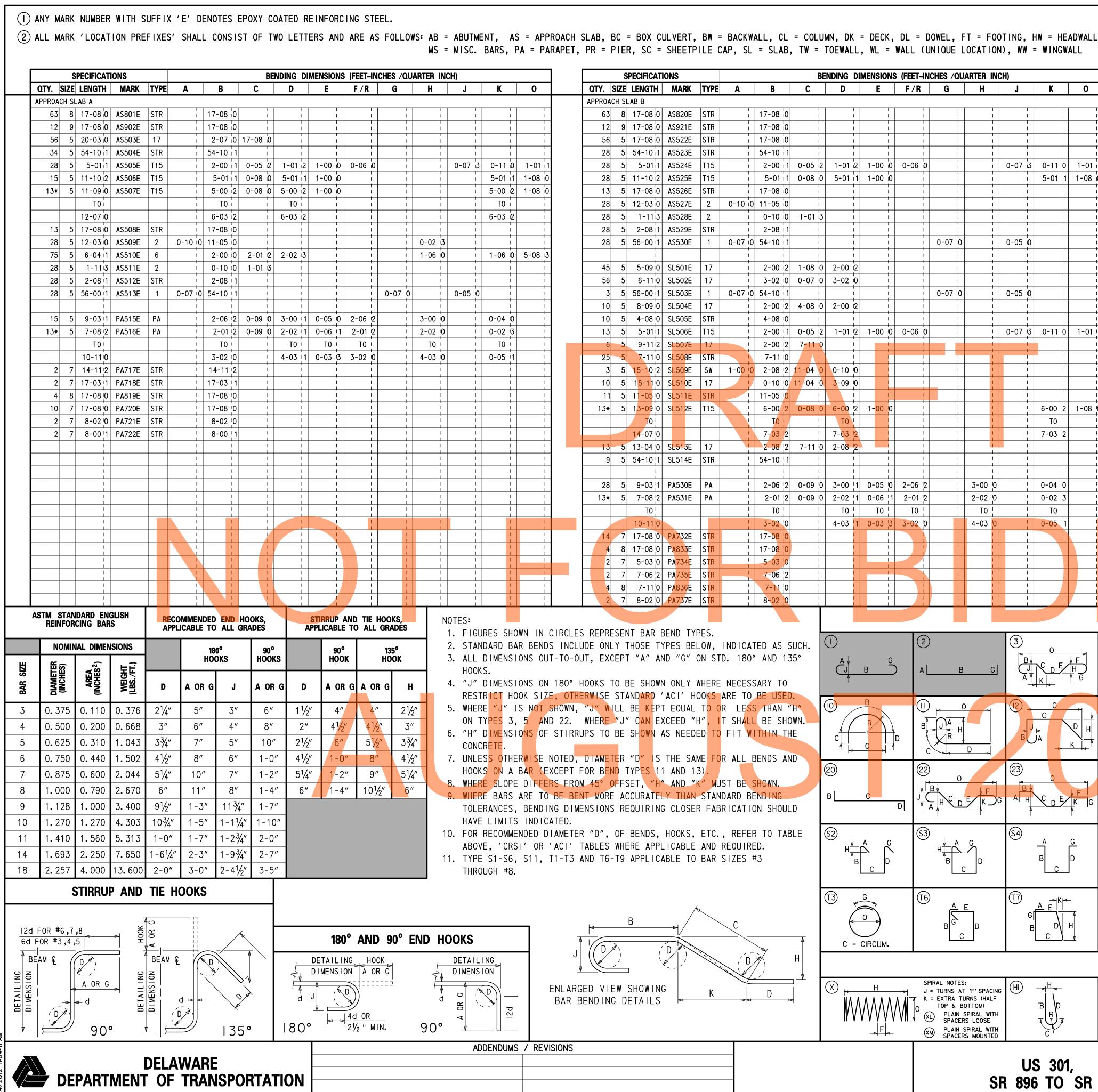


RACT	BRIDGE NO.	1–460A		S
0911308			APPROACH SLAB B	
COUNTY	DESIGNED BY:	L.M.B.	AND SLEEPER SLAB B	ТC
V CASTLE	CHECKED BY:	B.K.B.	REINFORCEMENT PLANS	

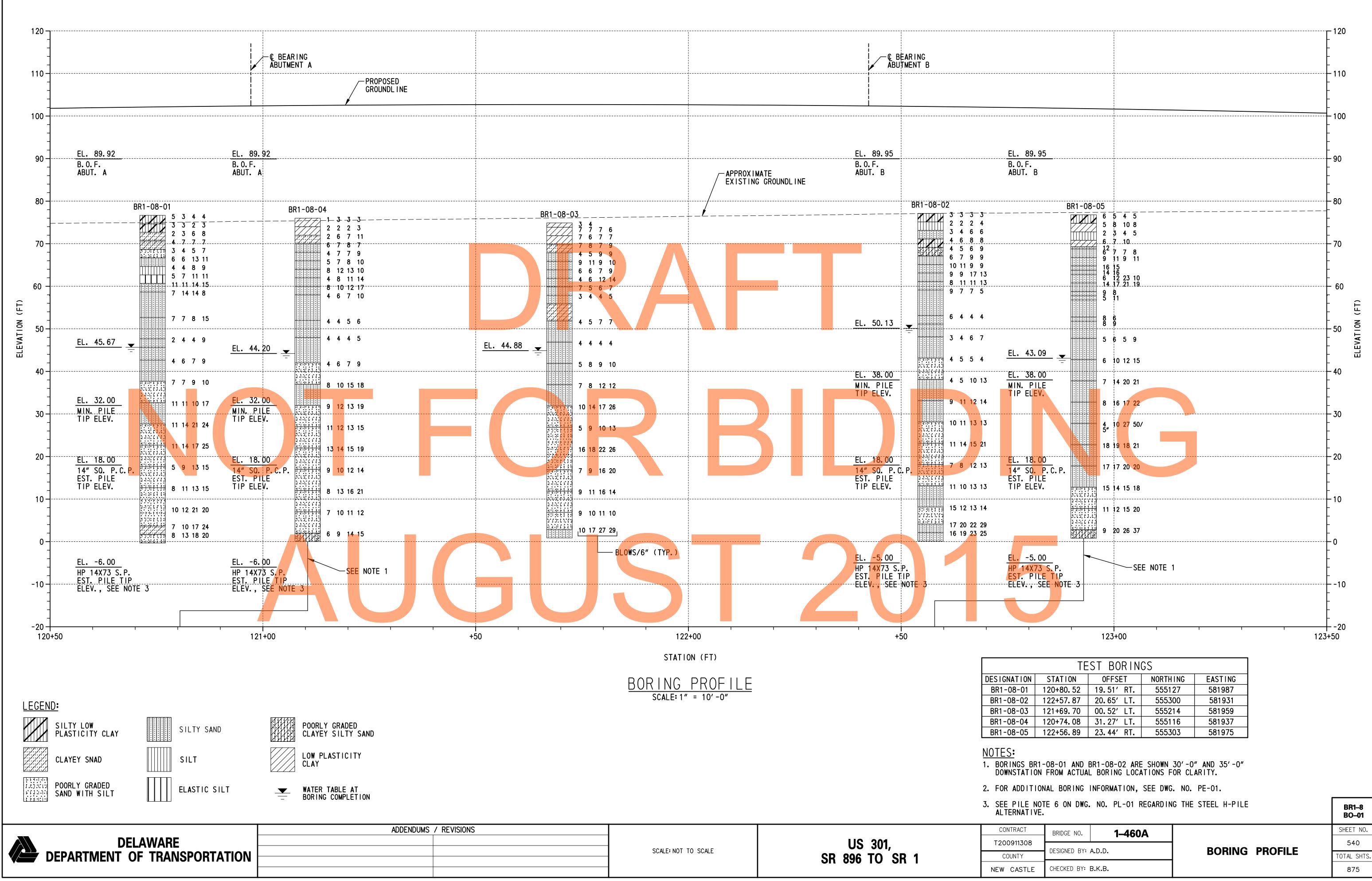


S			С
		US 301,	Т2
	SCALE: AS NOTED	SR 896 TO SR 1	
			NEV





ACH SLAB, BC = PET, PR = PIER		SHEET				, TW =	TOEWALL	, WL =	WALL (U		CATION), WW =					SPE	CIFICATIONS				BI	ENDING D	IMENSIONS	S (FEET-IN	CHES /QU	ARTER INC	:H)		
OTY. SIZE	LENGTH		TYPE	A	В	С	D	E	F/R	G	H	J	К	0				ENGTH MARK 7-11 0 PA738E	TYPE	A	B 7-11 0	С	D	E	F/R	G	H		K	0
638129565285285285285285285285285285285285285	17-08 (17-08 (17-08 (54-10 1 5-01 1 11-10 2 17-08 (12-03 (1-11 3 2-08 1	 AS820E AS921E AS522E AS523E AS523E AS524E AS525E AS525E AS526E AS527E AS528E AS529E AS529E AS530E 	STR STR STR T15 T15 STR 2 2 STR	0-10	5-01 1 17-08 0 0 11-05 0	0-05 2	1-01 2		i	0-07 0		0-07 i3 i i i i i i i i i i i i i i i i i i	0-11 0 5-01 1	1-01 1				8-00 1 PA739E												
10 5 10 5 13 5 6 5 25 5	6-11 0 56-00 11 8-09 0 4-08 0 5-01 1 9-11 2 7-11 0	SL501E SL502E SL503E SL504E SL505E SL505E SL506E SL507E SL508E	17 1 17 STR T15 17 STR		3-02 0 0 54-10 1 2-00 2 4-08 0 2-00 1 2-00 2 7-11 0	0-07 i0 4-08 i0 0-05 i2 7-11 i0	i	1-00 0	0-06 0	0-07 0		0-05 0	0-11 0	1-01 1																
10 5 11 5 13* 5 13 5	15-11 0 11-05 0 13-09 0 T0 1 14-07 0 13-04 0		17 STR T15 		0-10 0 11-05 0 6-00 2 T0 7-03 2	11-04 0 0-08 0 	0-10 0 3-09 0 6-00 2 T0 7-03 2 2-08 2	1-00 0					6-00 2 T0 7-03 2	1-08 0																
28 5 13* 5		PA530E 2 PA531E				0-09 0	3-00 1 2-02 1 T0 4-03 1	0-06 1 T0	2-06 2 2-01 2 T0 3-02 0		3-00 0 2-02 0 T0 1 4-03 0		0-04 0 0-02 3 T0 1 0-05 1																	
	17-08 0 5-03 0 7-06 2 7-11 0	 PA732E PA833E PA734E PA735E PA836E PA737E 	STR STR STR STR STR		17-08 0 17-08 0 5-03 0 7-06 2 7-11 0 8-02 0																									
																	ST/	ANDARD BA	R BE	NDS										
RCLES REPRESEN INCLUDE ONLY T TO-OUT, EXCEPT BO° HOOKS TO B OTHERWISE STA	HOSE T "A" A BE SHOW	YPES BE ND "G" IN ONLY	ELOW, ON S ⁻ Where	TD. 180 E NECES	D° AND 13 SSARY TO	35°		B) A[В	G						F G				0 K D	G			G A		B G	9	B R O	H
OWN, "J" WILL 22. WHERE "J" TIRRUPS TO BE TED, DIAMETER	BE KEF CAN E SHOWN	YT EQUAL XCEED ' AS NEEL	_ T <mark>O (</mark> "H", DED T(OR LES IT SHAL D FIT V	SS THAN ' L BE SHO VITHIN TH	Ή" DWN. IE		B R O				12 B					G		E H		0 C	к Р К	В	с D			B C			
EPT FOR BEND T EROM 45° OFFS E BENT MORE AC DIMENSIONS RE ED.	TYP <mark>ES 1</mark> Set, "H Curate	1 AND ' I'' AND ' LY THAI	13) <mark>.</mark> "K" ML N STAN	JST BE ND A RD E	SHOWN. BENDING		20 в	С			F K G	23 A H	C C D E	F K G		B	$\sum_{i=1}^{n}$		VIEW	(26) ISC	C B E E F DMETRIC V	- /IEW					R H C		B C	G D
METER "D", OF CI' TABLES WHE -T3 AND T6-T9	RE APF	PLICABLE	E AND	REQUIF	RED.	3LE	S2 H H B		(53)		D	S4)	A B C	<u>G</u> D	\$5	B D		S6 B C	G D	(59)	B C] D	B = TO		GTH		AE	(72)	C E D	A
	B		/¢	C		A	(T3) C =	G O CIRCUM.	16	B C	D	(Т7) С[В			Т8) В			(Т9) А <u>в</u>	G	T		A -			O					
	l			, D		H ↓ –											S	PECIAL BAR	BEN	IDS										
LARGED VIEW S AR BENDING DE			K		D :	_ ★	(X)			PIRAL NOTES: = TURNS AT 'F = EXTRA TURN TOP & BOT PLAIN SPII SPACERS PLAIN SPIF SPACERS	RAL WITH LOOSE	Ħ					K H H		В		C B A	D	PA F[B		T L				BR	R1–8 B–03
DNS													5 301 5 TO		1			CONTRACT T200911308 COUNTY NEW CASTLE	DES	RIDGE NO. SIGNED BY: ECKED BY:	A.D.D.	-460 /	A		AND 3	SLEEP	H SLA 'ER SL 1ENT	_AB	tota	ET NO. 539 NL SHTS. 875



COUNTY	DESIGNED BT. A.D.D.
V CASTLE	CHECKED BY: B.K.B.