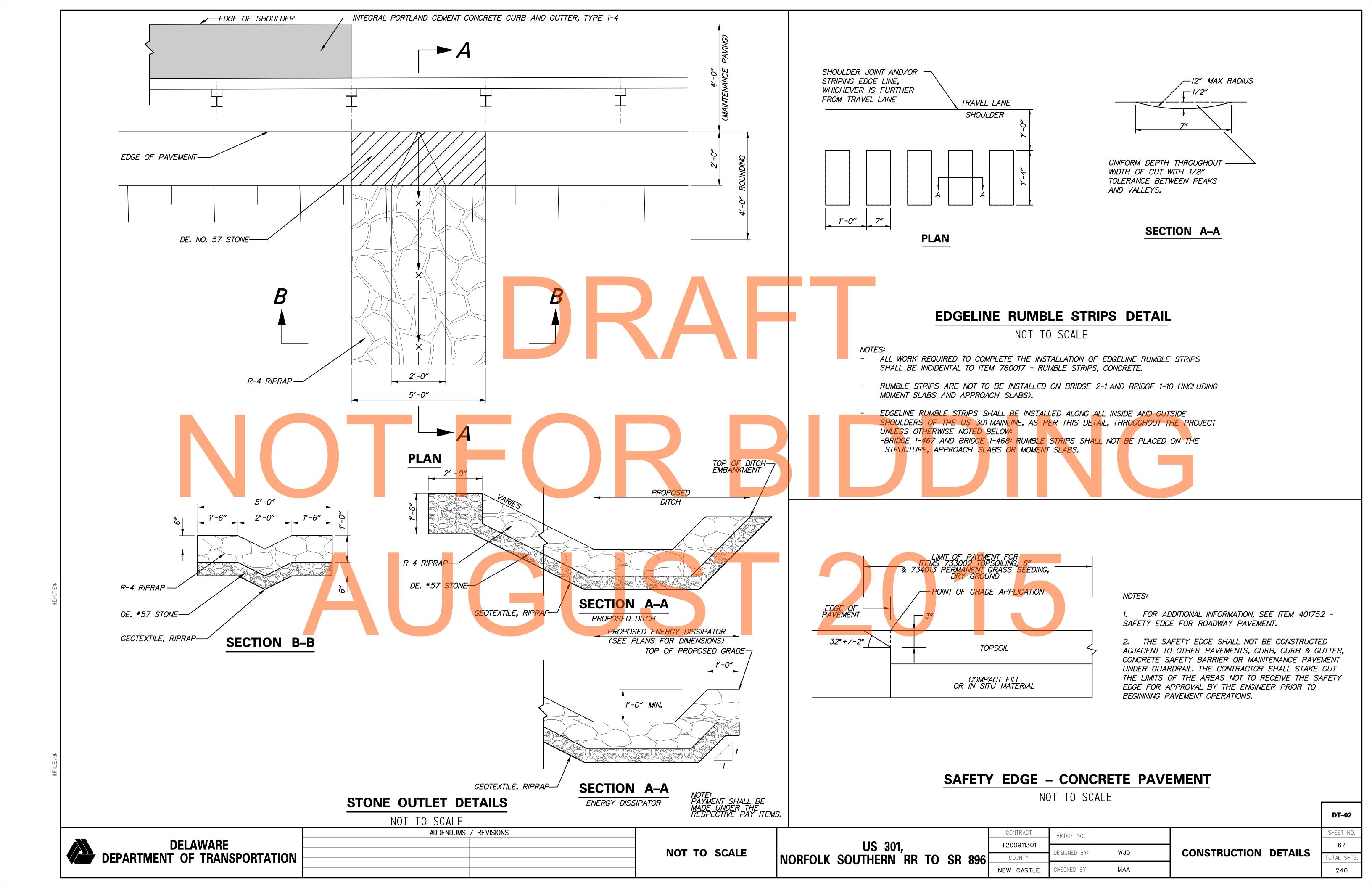


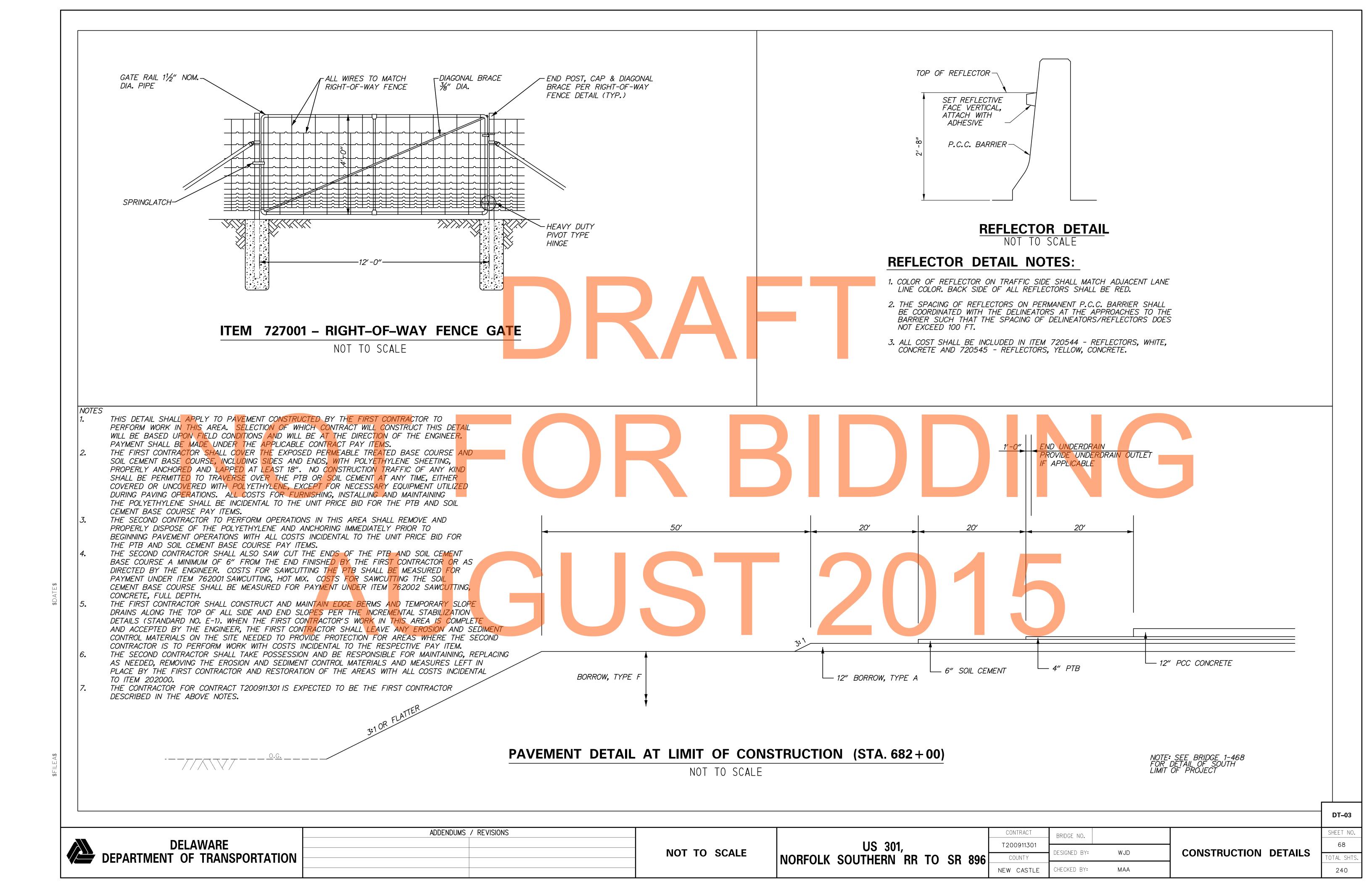
240

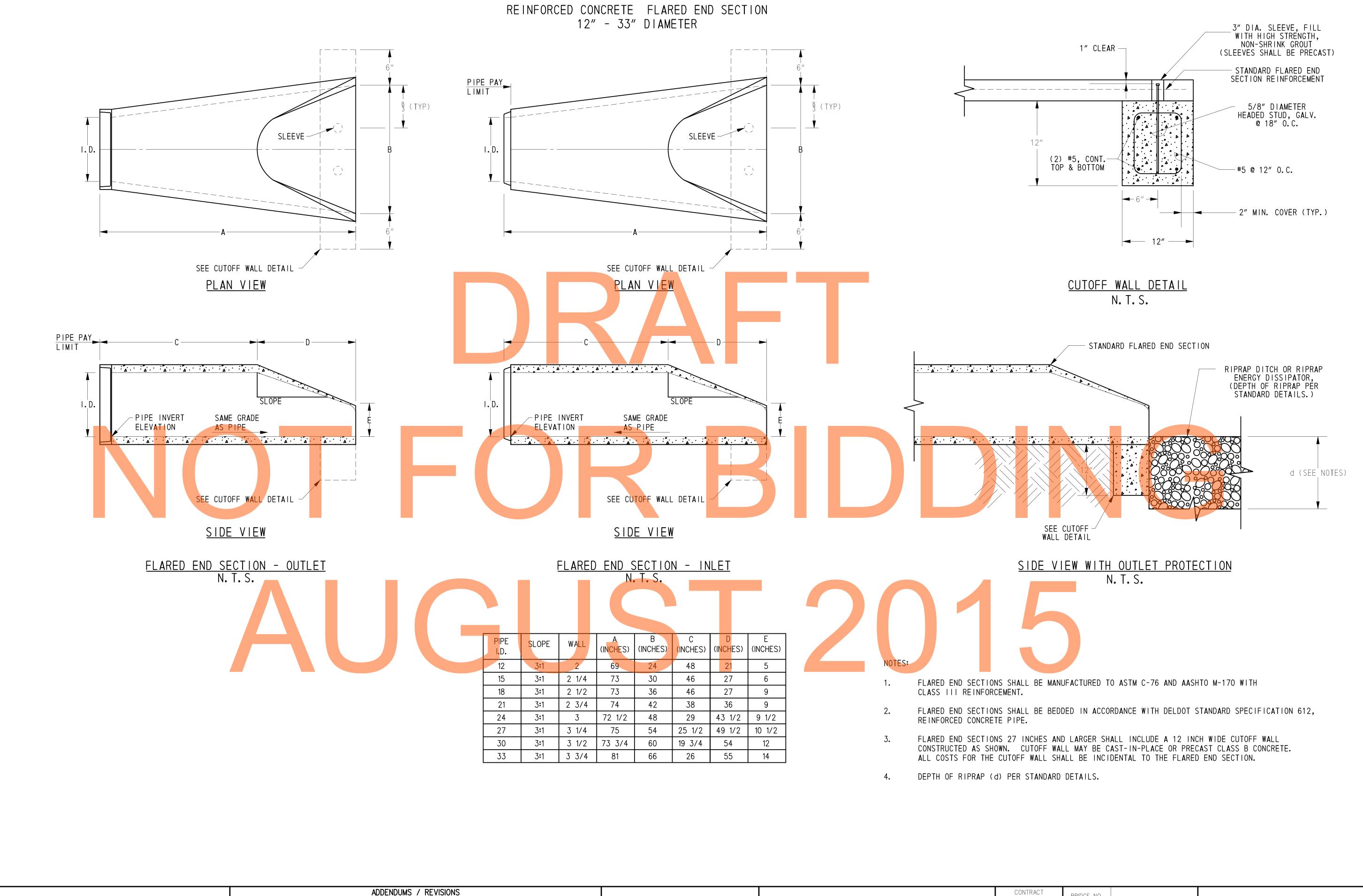
NEW CASTLE

MAA

CHECKED BY:







DELAWARE DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

US 301, NORFOLK SOUTHERN RR TO SR 896

CONTRACT
BRIDGE NO.

T200911301

COUNTY

DESIGNED BY: WJD

CHECKED BY: MAA

CONSTRUCTION DETAILS

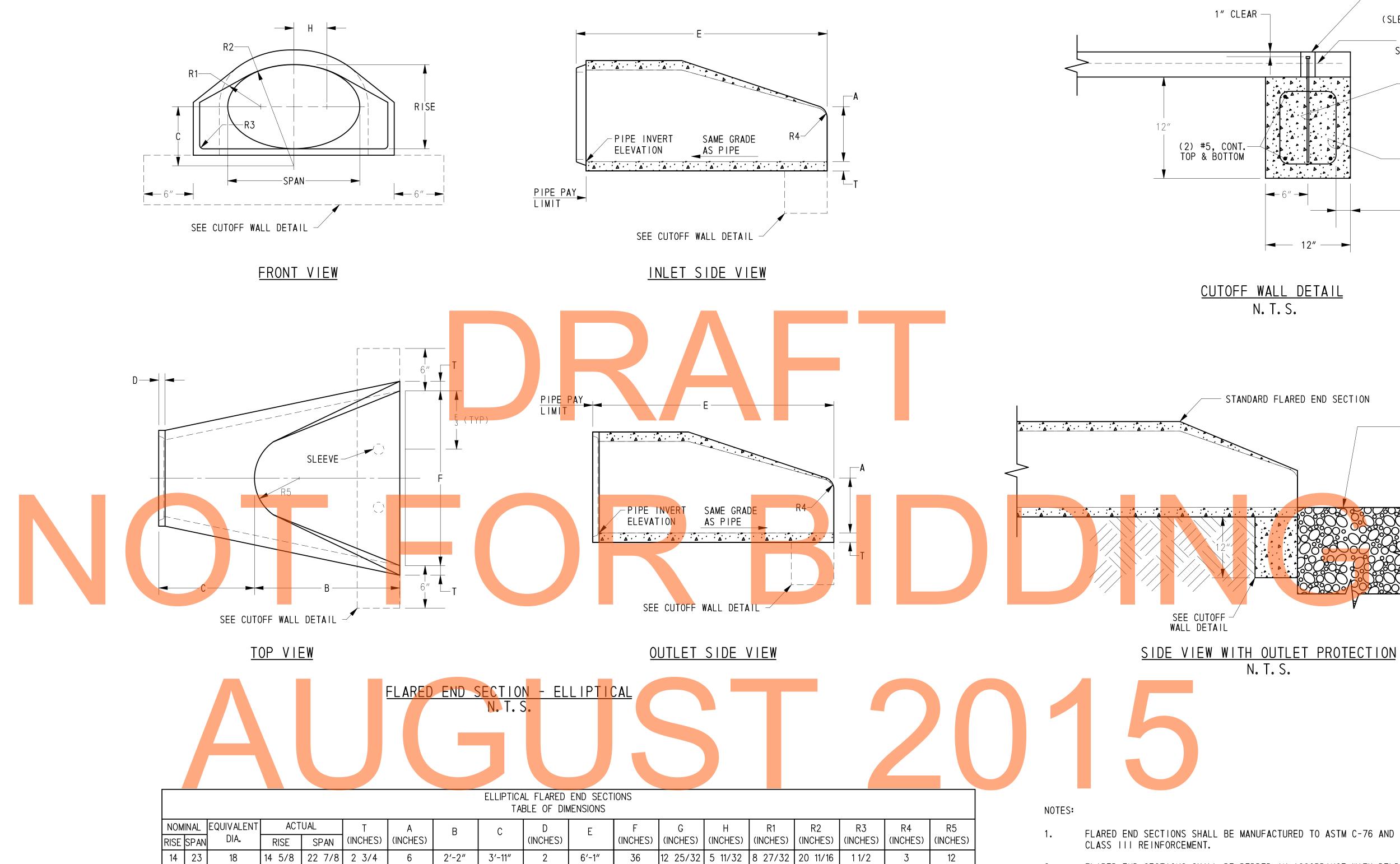
SHEET NO.

69

TOTAL SHTS.

240

DT-04



14 5/8 22 7/8 2 3/4

19 1/8 | 30 1/8 | 3 1/4

26 23/32 41 15/16 4 1/2

24

34 | 3 1/2 | 10 1/2

37 7/8 3 3/4

24

3′-11″

3′-6″

3′-4″

1′-6″

2′-9″

2 1/4

2 1/2

6′-1″

6′-1″

6'-0"

8'-0"

48

60

72

2′-7″

2′-9″

4'-6"

5′-3″

- FLARED END SECTIONS SHALL BE MANUFACTURED TO ASTM C-76 AND AASHTO M-170 WITH
- FLARED END SECTIONS SHALL BE BEDDED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATION 612, REINFORCED CONCRETE PIPE.

____3" DIA. SLEEVE, FILL
WITH HIGH STRENGTH,
NON-SHRINK GROUT
(SLEEVES SHALL BE PRECAST)

— STANDARD FLARED END SECTION REINFORCEMENT

5/8" DIAMETER

HEADED STUD, GALV. @ 18" O.C.

2" MIN. COVER (TYP.)

RIPRAP DITCH OR RIPRAP ENERGY DISSIPATOR, (DEPTH OF RIPRAP PER STANDARD DETAILS.)

d (SEE NOTES)

-#5 @ 12" O.C.

- FLARED END SECTIONS WITH A RISE OF 27 INCHES AND LARGER SHALL INCLUDE A 12 INCH WIDE CUTOFF WALL CONSTRUCTED AS SHOWN. CUTOFF WALL MAY BE CAST-IN-PLACE OR PRECAST CLASS B CONCRETE. ALL COSTS FOR THE CUTOFF WALL SHALL BE INCIDENTAL TO THE FLARED END SECTION.
- DEPTH OF RIPRAP (d) PER STANDARD DETAILS.

DT-05 ADDENDUMS / REVISIONS CONTRACT BRIDGE NO. **DELAWARE** US 301, T200911301 NOT TO SCALE CONSTRUCTION DETAILS WJD DESIGNED BY: **DEPARTMENT OF TRANSPORTATION** NORFOLK SOUTHERN RR TO SR 896 TAL SHTS COUNTY NEW CASTLE MAA 240 CHECKED BY:

12 25/32 5 11/32 8 27/32 20 11/16

16 11/16 6 27/32 11 15/32 29 1/2

| 18 3/4 | 7 3/4 | 12 3/4 | 33 1/32 |

24 31/32 10 5/16 16 13/16 43 7/8

20 13/16 8 11/16

1 1/2

1 1/2

1 1/2

1 1/2

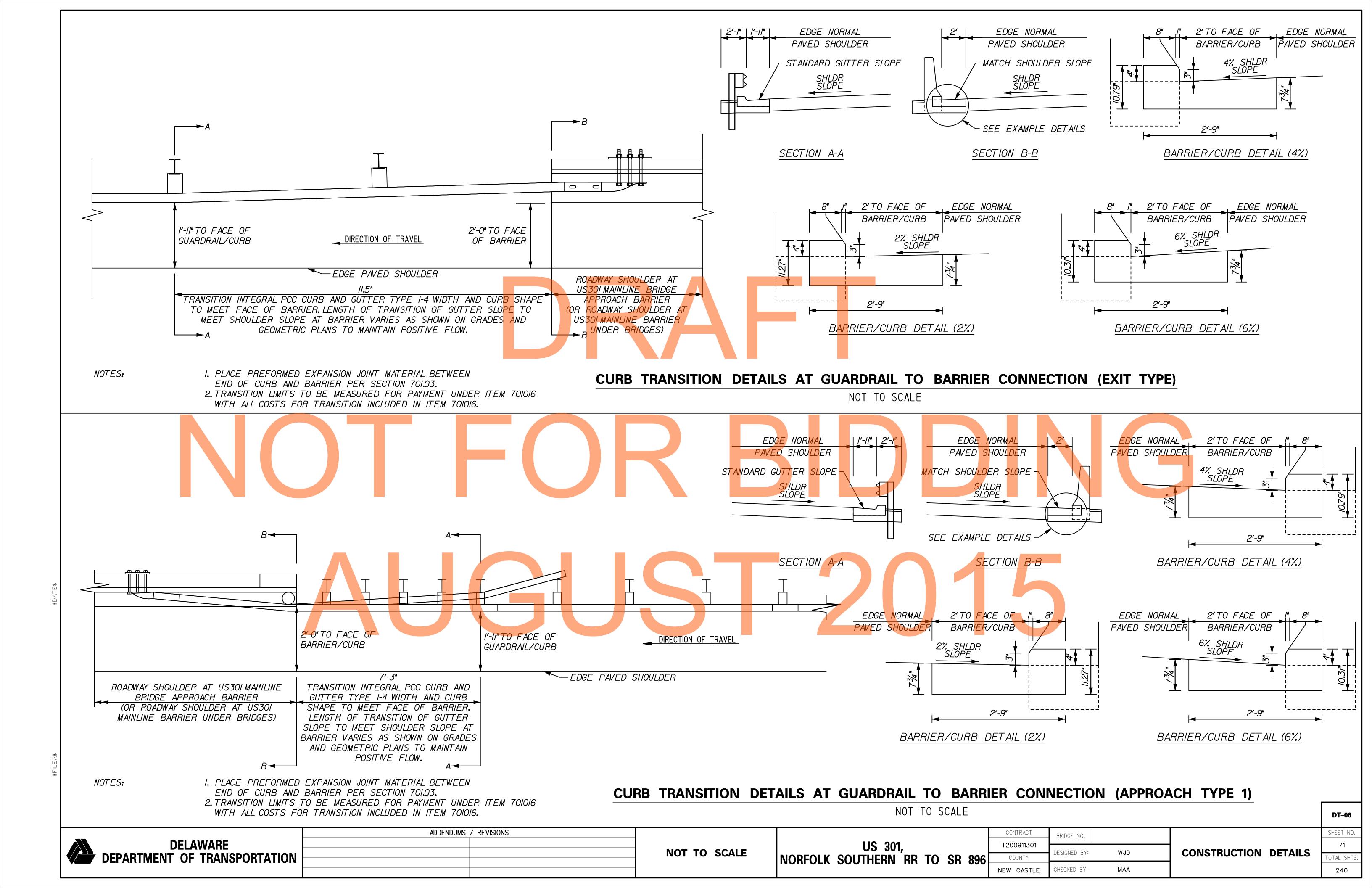
1 1/2

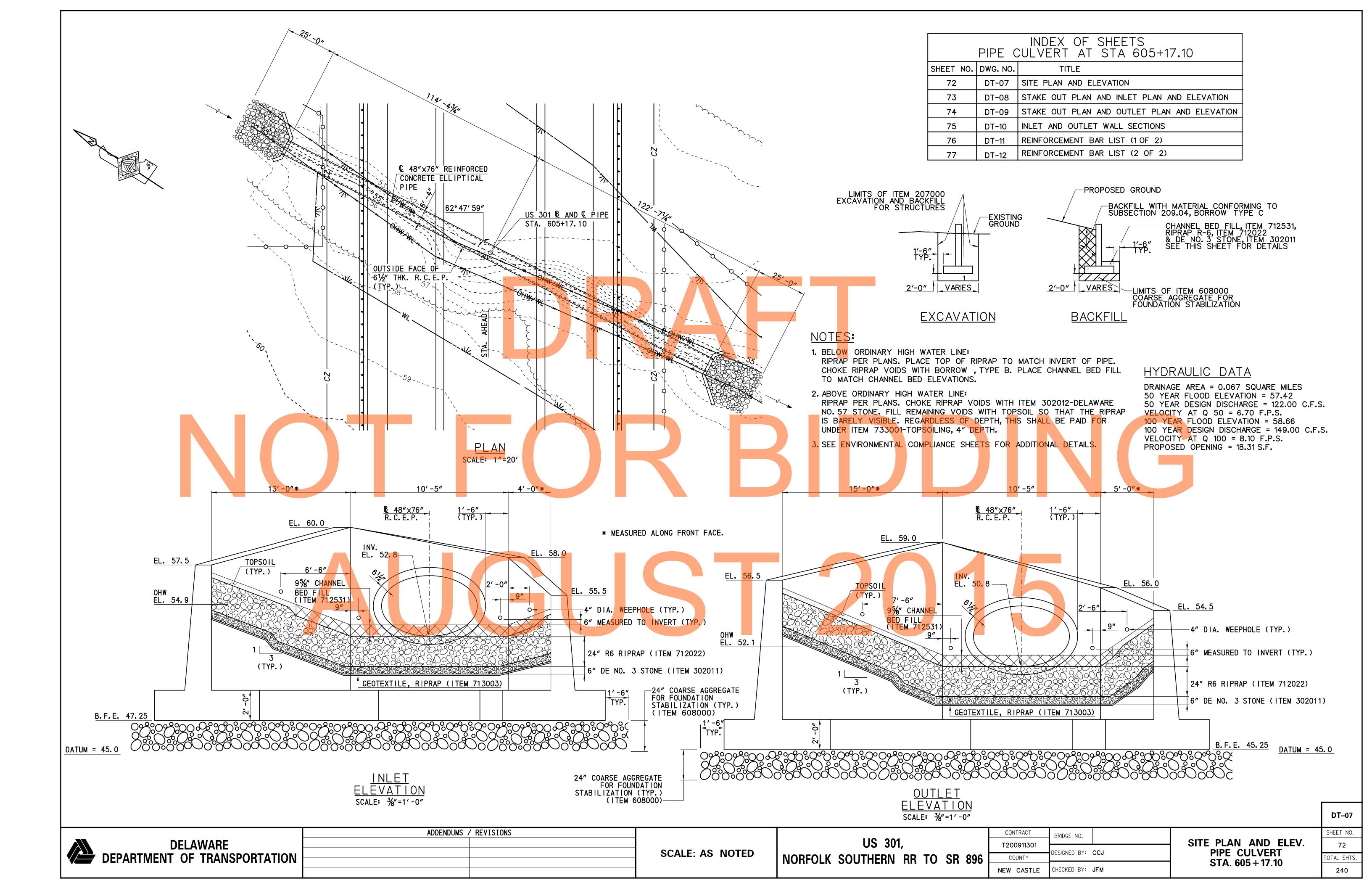
36 9/16

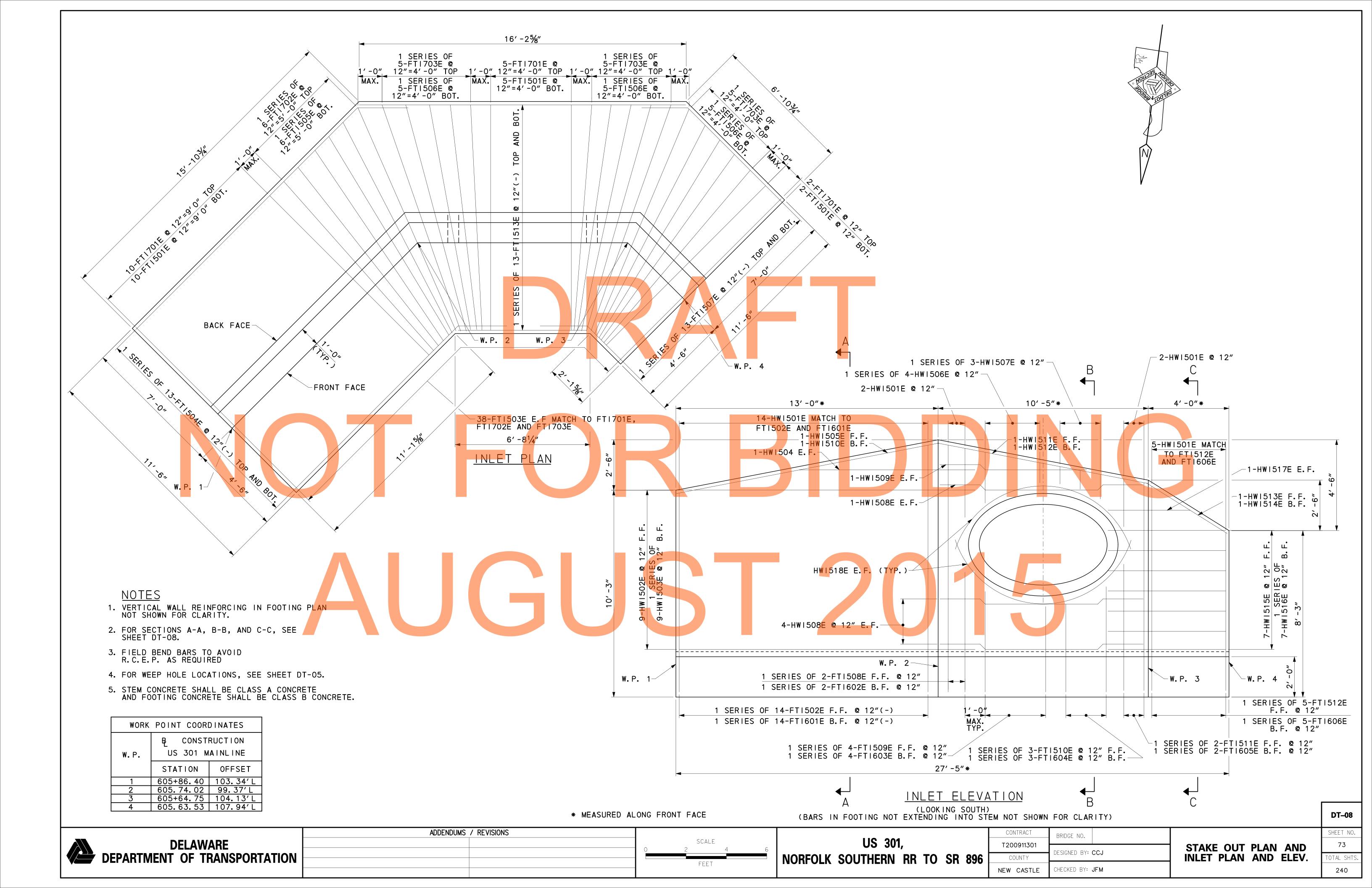
14

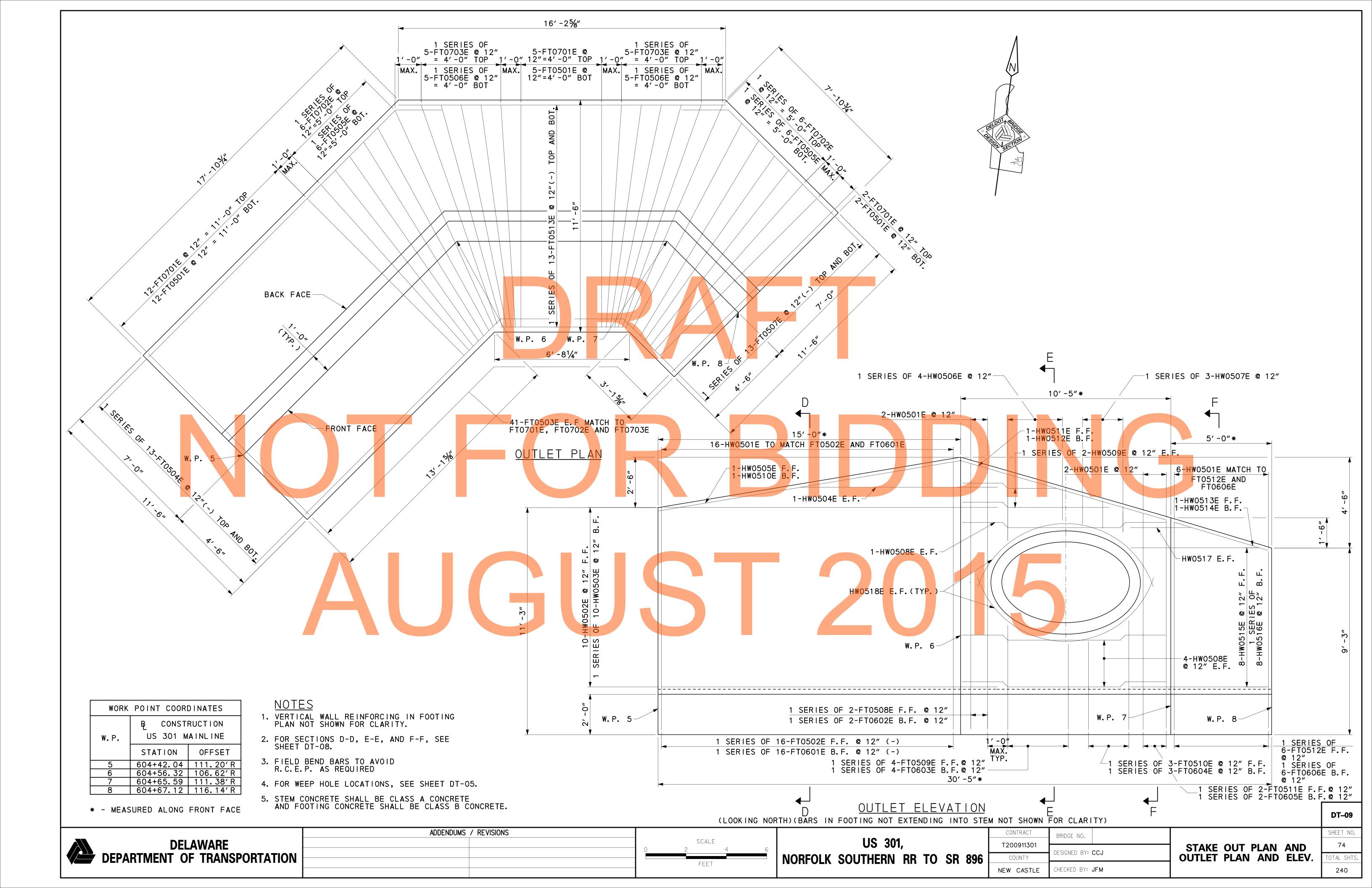
14 1/2

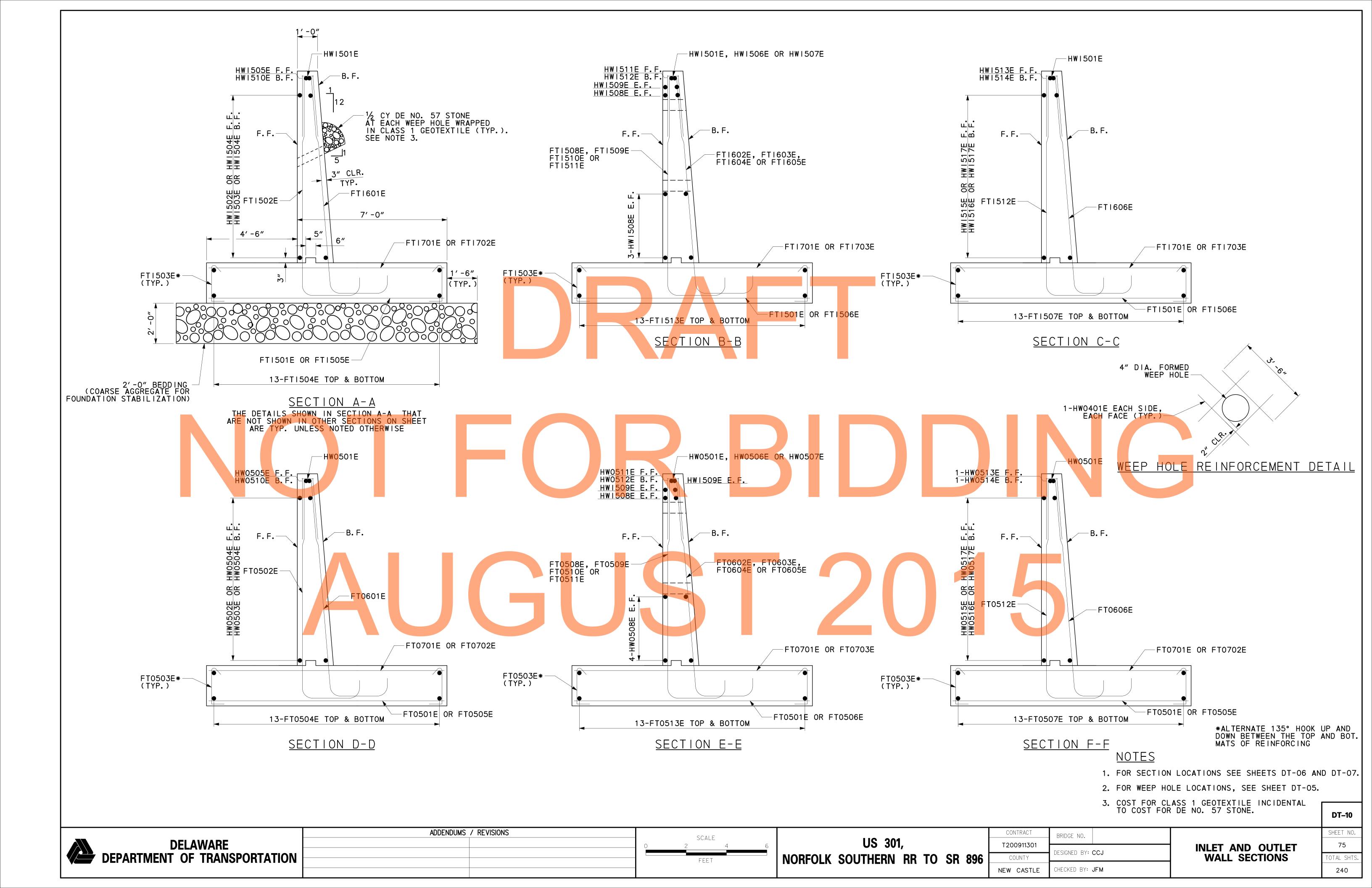
15











			WITH SUFF												ACH SLAB, BC = BOX CULVERT, BW = PET, PR = PIER, SC = SHEETPILE C													
SPECIFICATIONS BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH) SPECIFICATIONS												ICH)			SPECIFICATIONS	BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)						SPECIFICATIONS BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)						
			MARK TY FT1501E S		B	С		E					K	0	QTY. SIZE LENGTH MARK TYPE		D		H J	K O		ENGTH MARK TYP				G H	J K O	
			FT1501E 3		0-100 T0		9-100 T0	0							14-72 1X4 6 7-01 FT1603E 16	1-00 1-5 1-00 1-5	0 12-22		12-20 4-70	1-00 2-50 0-50 1-100	1 5	11-10 HWI512E STE 4-40 HWI513E STE	11-10					
-	76 5			T9 0-5	0-100)	12-20	1		0-60			1 00	10,100	7-111	T0 T0 T0 T0			T0 5-60	T0 T0 T0 0-60 1-100	1 5 7 5	4-80 HWI514E STF 6-33 HWI515E 16	3	5-100 2-53		1-90	1-90 5-70	
-	2X13 5	T0 18-20	FTI504E	T0	ТО	11-20 T0 15-90	ТО				1-82 T0 1-82	1	T0 1-82	12-102 T0 17-52	1X3 6 7-11 FT1604E 16 TO 7-111	1-00 1-5 T0 T0 T0 1-00 1-5	ТО		4-80 T0 5-60	0-50 1-100 T0 T0 0-60 1-100	1X7 5	7-33 HWI516E 16 T0 7-53	TO TO T	4-30 3-03 0 T0 4-50 3-03		2-20 T0 2-20	2-20 6-50 T0 T0 2-20 6-70	
	1X6 5	11-00 T0	FTI505E S	TR	11-00 T0)									1X2 6 12-92 FT1605E 16	1-00 1-5 TO TO TO	0 10-42 T0		10-40 T0	0-100 2-30 T0 T0	2 5 4 5	4-53 HWI517E 16	+ + + + + + + + + + + + + + + + + + + +	2-00 2-53	4-90	1-90	1-90 3-90 8-82	
	3X5 5	11-100 11-00 T0	FTI506E S	TR	11-100 11-00	+ +	1	1						 	12-112 1X5 6 10-31 FT1606E 16		0 10-62 0 7-101 T0		7-100 T0	0-110 2-30 0-80 2-10 T0 T0		1						
	2X13 5	11-90	FT1507E	16	11-90	2-00	+	0			1-82	2	1-82	3-82	12-81	1-00 1-5			10-30	0-100 2-10				1 1				
-	1X2 5	8-110 14-00	FTI508E	T0	T0 0-100	+ +	2-50 11-110				1-82	2	1-82	8-22	17 7 11-00 FTI701E STR 1X6 7 11-00 FTI702E STR	11-00 11-00			1			1		1 1				
TING		T0 14-30			T0 0-100	T0 1-30	ТО	0			1		1		11-100 3X5 7 11-00 FT1703E STR	11-100					CONTIN			1 1				
F00	1X4 5	7-70	FT1509E	17	0-100 T0 0-100	ТО	ТО	0							11-90 16 4 3-60 STR	11-90 3-60					EADWALL	1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
-	1X3 5	TO	FTI510E	17	0-100 T0	1-30 T0	4-80 T0	1							23 5 5-40 HWI501E 16	2-40 0-8	0 2-40		2-40	0-20 0-100								
-	1X2 5	7-70 12-50 T0	FTI511E	17	0-100 0-100 T0		+	+							9 5 15-33 HWI502E 16 1X9 5 16-03 HWI503E 16 T0	12-10 13-0 T0 T0 T0			1-90 2-20 T0	1-90 14-70 2-20 15-20 T0 T0								
	1X5 5		FTI512E	17	0-100 0-100	1-30	10-30	0				1			2 5 8-93 HWI504E 16	13-5			2-20	2-20 15-70 1-90 8-10						1 1		
	2X13 5	9-110 6-80	FTI513E S	TR	T0 0-100 6-80		7-100	0						1	1 5 12-100 HWI505E STR 1X4 5 6-21 HWI506E 16	12-100 2-90 0-8	0 2-91 T0		2-90 T0	0-30 0-110 T0 T0								
-		T0 16-20			T0 16-20								1	1	3-41 1X3 5 2-100 HWI507E 16	1-40 0-8 1-10 0-8 T0 T0 T0			1-40 1-10	0-10 0-110 0-10 0-90								
-	1X14 6	12-3 2 T0	FTI601E	16 TO	1-00 T0	1 -5 0 TO	9-10 ¹ 2	2			9-100 T0)	0-10 <mark>0</mark>	2-3 <mark>0</mark>	4-40 10 5 10-00 HWI508E STR	10 10 0-8			1-100	0-20 0-90						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	1X2 6	14-7 ₂ 14-4 ₂		16	1-00	1-50	12-2 ² 11-11 ²	-			12-20 11-110		1-00	2-50 2-50	2 5 6-100 HWI509E STR 1 5 13-20 HWI510E STR	6-100										1 1		
	ASTM STAN REINFORG	DARD ENG SING BARS			ENDED END LE TO ALL				AND TIE LE TO AL	HOOKS, L GRADES					RCLES REPRESENT BAR BEND TYPES.						ST	ANDARD BAR I	BENDS					
32	1	AL DIMENS	_		180° HOOKS	90°	o KS	90 HO	ok OK	135° HOOK			DIMENSI		INCLUDE ONLY THOSE TYPES BELOW, TO-OUT, EXCEPT "A" AND "G" ON ST		A J B		B GI	O J C D E H	O F H G		$\begin{bmatrix} & & & & & & & & & & & & & & & & & & &$		O G G	в) . в	B H	
BAR S	DIAMETER (INCHES)	AREA	WEIGHT (LBS./FT.)	D A	OR G J	J A OF	R G D) A 0	OR G A	OR G A O	R G	4. "J" REST	DIMENSIONERICE HOO	OK SIZE,	80° HOOKS TO BE SHOWN ONLY WHERE OTHERWISE STANDARD 'ACI' HOOKS	ARE TO BE USED.				A T K G	K K	A K	K K	K	D K	G		
3	0.375	0.200	0.668	3"	5" 3 6" 4	" 6" " 8"	' 1½' ' 2'	/2" 4 " 4 ¹ /	/2" 4	1" 2½" 3'	2"	ON T	Y <mark>PES</mark> 3,	5 AND 2	OWN, "J" WILL BE KEPT EQUAL TO O 22. WHERE "J" CAN EXCEED "H", I TIRRUPS TO BE SHOWN AS NEEDED TO	T SHALL BE SHOWN.	R	B JA	O D	C D H	B R H J G	A B C D		D H B		A B	H B C V D	
5 6	0.750	0.440	1. 043 3 1. 502 4	.1/2"	7" 5 3" 6	" 10 " 1-0)" 41/		" 5' 0" 8	$\frac{1}{2}$ " $3\frac{3}{4}$ " $4\frac{1}{4}$ "		CONC 7. UNLE	R <mark>ETE</mark> . S <mark>S O</mark> THER	R <mark>WIS</mark> E NO	TED, DIAMETER "D" IS THE SAME FO			C	D D	K K	0	(SE)	A K	(30) K				
8	1.000	0.790	2. 044 5 2. 670	6" 1	1" 8	" 1-2 " 1-4	1" 6	/ ₄ " 1-	2" 9 4" 10	9" 5½" 6°	4"	8. WHER	E SLOPE	DIFFERS	EPT FOR B <mark>END TYPES 11 AND 13).</mark> FROM 45° OFFSET, "H" AND "K" MU E BENT MORE ACCURATELY THAN STAN		ВС	B	D E K G A	HCDEKC	A B B	D E	C E F	H B	↓ G	A K R H	$H \stackrel{\psi}{\stackrel{A}{=}} A \qquad \bigcirc G \qquad \boxed{D}$	
10	1.270	1.270	3. 400 9 4. 303 1	0¾″ 1	-5" 1-1	1/4" 1-1	0"				1	HAVE	LIMITS	INDICATE	DIMENSIONS REQUIRING CLOSER FAB ED. METER "D", OF BENDS, HOOKS, ETC.		(2)	DI	(54)		<u> </u>	ISOMETRIC VIEW	ISOMETRIC VIE	W (SII)			(T2)	
14	1.693	2. 250	5. 313 1 7. 650 1- 13. 600 2	61/4" 2	-3" 1-9	3/4" 2-7	7"					ABOV 1. TYPE	E, 'CRS S1-S6,	OR 'AG S11, T1	CI' TABLES WHERE APPLICABLE AND -T3 AND T6-T9 APPLICABLE TO BAR	REQUIRED.	H	C D H		A G D	$ \begin{array}{c c} A & G \\ B & D \end{array} $	$ \begin{array}{c c} A & G \\ B & C \end{array} $	B C D		B	C AE	B G A C E	
10	•	-	AND TI		•	/2 J-0						ιπκυ	UGH #8.				T3 G				8) . →K⊢	T9	ŢII) → K ⋈	B = TOTA	AL LENGTH	D	D	
12d	FOR #6,7	8)0K		1 	<u></u>			A00 ===	D 660 -		001/2		7	B	С	0	B B	E D	G D H	$B = \begin{bmatrix} A & E & & & & & & & & & $	A B G	H C B A	F A B	C H O			
[↑] B	12d FOR #6,7,8						180° AND 90° END HOOKS DETAILING HOOK DETAILING DIMENSION DIMENSION A OR G DIMENSION								J D	D H	C = CIRCUM.					SPECIAL BAR BENDS						
DETAILING DIMENSION		A OR G ⊢d	TAILING MENSION	 d→	- " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		d	J MENS		OR G	d d	DIMENSI	D —		LARGED VIEW SHOWING AR BENDING DETAILS	D			X		SPIRAL NOTES: J = TURNS AT 'F' SPACING K = EXTRA TURNS (HALF TOP & BOTTOM)							
	D	90°	DET,	D) 13	∕ 55°	180)°	4d OR 2½" N	MIN.	90°	A OR			SENSTING BETATES						TOP & BOTTOM) PLAIN SPIRAL WITH SPACERS LOOSE MM PLAIN SPIRAL WITH SPACERS MOUNTED						DT-11	
ADDENDUMS / REVISIONS												AD	DENDUMS	/ REVISIO	DNS		1	CONTRACT BRIDGE NO.							SHEET NO.			
DELAWARE DEPARTMENT OF TRANSPORTATION														US 301, NORFOLK SOUTHERN RR TO SR 896 COUNTY					COUNTY	DESIGNED BY: CCJ REINFORCEMENT BAR LIST TOTAL				TOTAL SITTS.				
									_	_		_	_									NEW CASTLE	CHECKED BY: JFM				240	

	① ANY MARK NUMBER WITH SUFFIX 'E' DENOTES EPOXY COATED REINFORCING STEEL. ② ALL MARK 'LOCATION PREFIXES' SHALL CONSIST OF TWO LETTERS AND ARE AS FOLLOWS: AB = ABUTMENT, AS = APPROACH SLAB, BC = BOX CULVERT, BW = BACKWALL, CL = COLUMN, DK = DECK, DL = DOWEL, FT = FOOTING, HW = HEADWALL, MS = MISC. BARS, PA = PARAPET, PR = PIER, SC = SHEETPILE CAP, SL = SLAB, TW = TOEWALL, WL = WALL (UNIQUE LOCATION), WW = WINGWALL																										
SPECIFICATIONS BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH) SPECIFICATION SPECIFICATION												•	\neg				NSIONS (FEET-INCHES /0] []	SPECIFICATIONS BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)						
	QTY. SIZE	LENGTH	MARK TY	_	В	С		E					K O		QTY. SIZE LENGTH MARK TYPE	A B C	D		Н ,	J K O	QTY. SIZE	LENGTH MARK TYP	E A B C		F/R G H		
			FT0501E S FT0502E		11-00 0-100		0 10-10	000				I 			15-72	TO TO TO TO 1-5			13-20	1-00 2-50		4-90 HW0509E STE	R 4-90	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	
		T0 15-40			T0 0-100	T0	T0	60				1	1		1X4 6 7-01 FT0603E 16	1-00 1-5 TO TO TO	TO TO		4-70 T0	0-50 1-100 T0 T0	1 5	7-40 15-30 HW0510E STI	7-40 R 15-30				
	82 5	2-52		Г9 0-5)		1 1	 	0-60		1	1 00 11	1	7-111	1-00 1-5	50 5-61		5-60	0-60 1-100		10-70 HW0511E ST	R 10-70				
	2X13 5	15-50 T0	FT0504E	T0	TO I	13-00 T0	70 TO	00 1			1-82 T0	2	1-82 14 T0 T0	4-82 0	1X3 6 7-11 FT0604E 16	1-00 1-5 TO TO TO		1 1	4-80 T0	0-50 1-100 T0 T0	1 5	11-30 HW0512E STE 5-30 HW0513E STE					
	2X6 5	20-10	FT0505E S	rr l	11-00	17-80	2-5	60			1-82	2	1-82 19	9-42	7-111 1X2 6 12-92 FT0605E 16	1-00 1-5			5-60	0-60 1-100 0-100 2-30		5-70 HW0514E STI 7-33 HW0515E 10		00 2-53	1-90	1-90 6-70	
		ТО			ТО			1 1					1		TO I	T0 T0 T0	ТО .		ТО	то то	1X8 5	7-103 HW0516E 10	6 4-1	00 3-03	2-20	2-20 7-00	
	2X5 5	11-90 11-00	FT0506E S	ΓR	11-90	+		1 1				1	1		13-02 1X6 6 11-31 FT0606E 16		50 10-72 50 8-101		10-70 8-100	0-110 2-30 0-80 2-10		8-53	T0 T0 T0 5-	T0 50 3-03	T0 2-20	T0 T0 T0 2-20 7-70	
		T0 11-70			T0 11-70)		 				1	1		? 	TO TO TO TO 1-5	+ + + + + + + + + + + + + + + + + + + +		T0 10-40	T0 T0 T0 0-100 2-10	2 5	3-53 HW0517E 10	9 11-00	00 2-53	1-90 4-90 2-101	1-90 2-90 8-82	
	2X13 5	5-50	FT0507E	16		3-00	+	60		1 1	1-82	2 1	1-82 4	4-82		1 1											
		70 9-110		TO	TO I	7-60	T0 2-50	60 1			T0 1-82	2	T0 T0	9-22	19 7 11-00 FT0701E STR 2X6 7 11-00 FT0702E STR	11-00	1 1										
	1X2 5	15-00 T0	FT0508E	7	0-100 T0	1-30 T0	12-110 TO	0				1	1	1	T0 11-90	T0 11-90					NOED						
OTING	1X4 5	15-30	FT0509E	7	0-100	+	+ +	20				1	1		2X5 7 11-00 FT0703E STR	11-00 T0					CONTI						
L B	TAT 3	ТО	110303E		TO	ТО	ТО					1	1	·	11-70	11-70					WALL						
	1X3 5	7-70 6-90	FT0510E	7	0-100		+	80 80				1	1								HEAD						
		T0 7-70			T0 0-100	T0	T0 5-60	100					1		16 4 3-60 HW0401E STR	3-60											
	1X2 5	12-50	FT0511E	7	0-100	1-30	10-4	-				1	1		26 5 5-40 HW0501E 16	2-40 0-8	30 2-40		2-40	0-20 0-100							
		T0 12-80			0-100	T0 1-30	T0 10-7	/O				1	1		10 5 17-33 HW0502E 16 1X10 5 18-13 HW0503E 16	14-10	' 		1-90	1-90 16-70 2-20 17-30							
	1X6 5	12-50 T0	FT0512E	7	0-100 T0	1-30 T0	10-4 T0	<u>1</u> 0	 			1	1		T0 18-83	T0 T0 T0	T0 3-03		T0 2-2 0	T0 T0 T0 2-20 17-100		1					
	2X13 5	10-110	FT0513E S	TD.	0-100		8-10	00		1 1		1	1		2 5 9-93 HW0504E 16 1 5 14-100 HW0505E STR	14-100	0 2-53	1 1	1-90	1-90 9-10							
	2/13 3	TO	1100100 3		TO TO							1	1		1X4 5 7-60 HW0506E 16	3-50 0-8			3-50	0-30 0-110							
		16-20			16-20			1 1				1	1	1	T0 4-61	T0 T0 T0 T0 T0 T0 T0 T0	T0 1-11 <mark>1</mark>		T0 1-11 <mark>0</mark>	T0 T0 T0 0-20 0-110							
	1X16 6	13-32 T0	FT0601E	T0	1-00 T0	1-50 T0	10-10 T0	2		1 1	10-100 T0)	10 <mark>0 2</mark>	2-30	1X3 5 4-00 HW0507E 16	1-80 0-8	1-8 <mark>0</mark>		1-8 <mark>0</mark>	0-1 <mark>0 0-9</mark> 0						1 1 1	
	1 7 6	15-82	FT0602E		1-00	1-50	13-3			1 1 1 1 1 1	13-30 12-110	+ '+	1-00 2	2-50 2-50	4-60 10 5 10-00 HW0508E STR	1-110 0-8			1-110	0-20 0-90							
	ASTM STAN		SLISH	RECOMME	NDED END		12 11,		AND TIE	HOOKS,		OTES:	1 00 2	2 50	10 5 10-00 MIIOSOBE 3 III	10 00						TANDARD BAR	BENDS				
	_			APPLICABI					i	L GRADES		1. FIGUE			CLES REPRESENT BAR BEND TYPES. ICLUDE ONLY THOSE TYPES BELOW,	INDICATED AS SUCH		(2)	(3	3)	<u>(4)</u>	(5)	(6) <u>.</u>	(7)	(8)	9)	
<u> </u>		AL DIMEN	_		180° HOOKS	90 HOC	OKS	90 HO	0° OOK	135° HOOK		3. ALL [IMENSIONS		D-OUT, EXCEPT "A" AND "G" ON ST		$ \begin{array}{c c} A & \downarrow \\ \hline A & \downarrow \\ \hline B \end{array} $	<u>G</u>		B C E F	B C 5 E	B C D	G B C C			B	
AR SIZ	DIAMETER (INCHES)	AREA	WEIGHT (LBS./FT.)	D A C	OR G J	A 0	R G I	D A C	OR G A	OR G A O	R G	HOOKS 4. "J" [ON 180	° HOOKS TO BE SHOWN ONLY WHERE	NECESSARY TO		^ L	B G	A K G	AI K H	A K A		JG K D K	G	0	
~	0. 375	0 110			3" Z	" 6·	<i>"</i> 11	1/,"	"	4" 2 ¹ /					THERWISE STANDARD 'ACI' HOOKS N, "J" WILL BE KEPT EQUAL TO O		(IO) B		0	2 0	(13) → K	0	(6) M 0	(17)	(18)	9 0	
4	0.500			3" 6	5" 4	<i>"</i> 8	<u> </u>	$\frac{72}{2''}$ 4^{1}	1/2" 4	1/2" 3'	2	ON TY	PES 3, 5	AND 22.	RRUPS TO BE SHOWN AS NEEDED TO	T SHALL BE SHOWN.		B JA	H	C H	RH	A B E	B	H B C D	A \bar{\psi} B	B C K	
5			1.043 3		'" 5	" 10	 	1/2" 6	5″ 5	1/2" 3 ³ / ₂	4"	CONCF	ETE.				C O	D C R	D	B JA K	D	K	A K	<u> </u>	† cl	K	
7			1.502 4 2.044 5		6" 6 0" 7	" 1-0 " 1-3	 	1/2" 1 - 1/4" 1 -	-2"	3" 4½ 9" 5½					D, DIAMETER "D" IS THE SAME FOR FOR BEND TYPES 11 AND 13).	R ALL BENDS AND	20	22	2	3	24	25	26 _D	30 K	32 ₀ J	(SI)	
8	1.000	0.790	2.670	6" 1	1" 8	″ 1	4" 6	6" 1-	-4" 10	01/2" 6	"				ROM 45° OFFSET, "H" AND "K" MUS BENT MORE ACCURATELY THAN STAN		B C	J B B	F	B	A B B	CEE	C E F	H B	G A KR	H B D	
			3. 400 9 4. 303 1									TOLEF		ID I NG D	IMENSIONS REQUIRING CLOSER FAB			D A H		D S K IG	† G	ISOMETRIC VIEW		<u> </u>	$\begin{array}{c c} B & C \\ \hline C & C \end{array}$	c c	
			5. 313 1								1	O. FOR F	ECOMMENDED	DIAME	ETER "D", OF BENDS, HOOKS, ETC.		(S2) ₁ _A	(53)	Λ G	4) _A G	(S5) A G	\$6 A G	(S9) A G	SII) O	(TI) B	T2 B G	
14	1.693	2. 250	7.650 1-	6¼″ 2-	3" 1-9	3/4" 2-	7"				1				' TABLES WHERE APPLICABLE AND 13 AND T6-T9 APPLICABLE TO BAR		H B	D H		B D	B D	B D	B O D		C AE	C E	
18		•	13.600 2	•	•	3-5	5″ T					THROL	GH #8.						С	_ C _	С	<u>C</u>	c c	B = TOTAL LENG	TH D	D	
		TIRRUF	AND TI	E HOOK	(S		1								4		(T3) G	(T6)	F (T	7)K	(T8) A F K ←	T9	TII) K G	TI6 E	T.		
12	EAD #6 7	o	¥ 0	 											B	C	0	$\stackrel{\sim}{\mathbb{R}}$	D D	G D H	B D H	A B G	H C B A	A B C H	D v		
6d	FOR #6,7 FOR #3,4,	5	HOC A OF				180° AND 90° END HOOKS										C = CIR	CUM.	С				<u>"E</u> "	G K			
	EAM Q	D	υz	AM Ç	D		<u></u>	DETAIL DIMENS	ING H	OOK OR G		DETAILI DIMENSI	NG DN →			H H					SPECIAL BAR BENDS						
DETAIL ING		A OR G	A I L I N		•	> <u>√</u>	<u>}</u> ↓	, , ,	I	 	1	5			ARGED VIEW SHOWING K	D			(X H	SPIRAL NOTES: J = TURNS AT 'F' SPA(ING HI					
DET		≠ d	DET,	d → (D)	*	Ž		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	J √ 4d OR		а	A OR	P21	BAR	R BENDING DETAILS						K = EXTRA TURNS (HAI O TOP & BOTTOM) VL PLAIN SPIRAL W SPACERS LOOSE	' гн В D 					
		90°	<u></u>		13	55°	180)°	4d 0R 2½"	MIN.	90°	_₩	_ 🛚								SPACERS LOOSE PLAIN SPIRAL WI SPACERS MOUNT					DT-12	
ADDENDUMS / REVISIONS DELAWARE												ADI	ENDUMS / RI	EVISIONS	S					110 201		CONTRACT T200911301	BRIDGE NO.			SHEET NO. 77	
DELAWARE DEPARTMENT OF TRANSPORTATION														NORFOLK SOUTHERN RR TO SR 896 T200911301						FORCEMENT BAF							
																						NEW CASTLE	CHECKED BY: JFM			240	