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SHE	ET NO.	NAME	NE SEC	CTION	I - BARRIER	
B-L	(2001)	- BARRIER	LEGEND			
B-I		- GUARDRAI	AIL APPLICATIONS			
			PLANS - (TYPE 1, TYPE 2, AND TYPE 3)			
			ELEVATIONS AND SPLICE DETAIL			
		(2002) - 3 SE	SECTION VIEWS			
			GRADING FOR GUARDRAIL END TREATMENT, TYPE I			
		(2002) - 5 GH	GRADING FOR GUARDRAIL END TREATMENT, TYPE 2			
B-2	(2002)		GRADING FOR GUARDRAIL END TREATMENT, TYPE 3			
B-3	(2002)		AIL OVER CULVERTS, TYPE I			
B-4	(2001)	- CURVED (	GUARDRAIL SECTION			
B-5	(2002)	- END ANCI	CHORAGE			
B-6			END SECTION			
			URIED END SECTION			
			BURRIED END SECTION			
		(2002) - 3 PC	POST, CONCRETE BLOCK, & RUBRAIL ANCHOR DETAILS			
B-7		– GUARDRAI	AIL TO BARRIER CONNECTION, APPROACH TYPE I			
		(2005) - I PL	PLAN, ELEVATION, AND SECTIONS			
			WOOD BLOCKOUT, RUB RAIL WOOD BLOCKS, BEARING PLATE, RUB RAIL TO BARRIER CON			
БО		(2001) - 3 BE	BENT PLATE RUB RAIL DETAILS			
B-8			NIL TO BARRIER CONNECTION, APPROACH TYPE 2			
			PLAN, ELEVATION, AND SECTIONS			
R-9	(2002)		NOTES, BENT RAIL DETAILS, BLOCK SCHEDULE			
B-10	(2002)	- BRIDGE R	RAIL RETROFIT, TYPE I			
B-II		- BRIDGE R	RAIL RETROFIT, TYPE 2			
			LAN, SECTION A-A, BASE PLATE DETAIL			
			BASE PLATE DETAIL AND STEEL GUARDRAIL POST			
B-12	(2001)	- BRIDGE R	RAIL RETROFIT, TYPE 3			
B-13		- HARDWAR	RE			
		(2004) - I W-	N-BEAM DETAILS			
			N-BEAM STEEL POST AND OFFSET BLOCK			
			N-BEAM TERMINAL CONNECTOR			
			THRIE BEAM DETAILS			
			THRIE BEAM STEEL POST AND OFFSET BLOCK			
		(2004) - 6 W	W-THRIE BEAM TRANSITION SECTION			
			WOOD BLOCK, SOIL PLATE, SHORT WOOD BREAKAWAY POST, STEEL TUBE, LONG WOOD E			
			SWAGED CABLE AND RELATED HARDWARE ASSEMBLY			
		(2004) = 10  GU	UARDRAIL BOLT & RECESSED NUT			
		$(2004) = 12 \frac{78}{15}$	$%_{6}$ (24) HEX NUT & STEEL WASHER, $%_{1}$ (16) CARRIAGE BOLT, HEX NUT, & STEEL WASHE			
		(2005) - 13 GU	UARDRAIL MOUNTED RAIL <b>•DETAIL ON HOLD•</b>	LIV		
B-14			TE SAFETY BARRIER (F SHAPE)			
		(200 ) - I T	TYPICAL CAST IN PLACE OR SLIP FORM CONSTRUCTION			
			TYPICAL PRE-CAST CONSTRUCTION			
			SLOTTED PLATE CONNECTION DETAILS			

SHT.	1	OF	5	

## SECTION I - BARRIER (CONT'D)

SHEET N	VO.	NAME											
B-15	— POF	RTABLE	CONCRETE	SAFETY	BARRIER	(F SHAPE)	)		 	 	 	 	
	(200 ) -	PLAN, EL	EVATION, AND	SECTION	VIEW <b>*DETAIL</b>	DELETED -	SEE SPECIFICAT	IONS+	 	 	 	 	
	(2001) - 2	CURVES	SECTION <b>DET</b>	VIL DELETI	ed - see sp	CIFICATION	S*			 		 	
							CATIONS						
							EE SPECIFICATION						
	(2001) - 4	JOINT C	ONNECTION DE	TAILS <b>•DF</b>	TAIL DELETE	) - SEE SP	ECIFICATIONS						

### SECTION II - CURB & GUTTER

C-I (2005)— P.C.C. CURB. P.C.C. CURB & GUTTER. AND HOT-MIX CURB
C-2 — CURB RAMPS
(2006) -   TYPE
(2006) - 2 TYPES 2, 3, & 4
(2006) - 3 SECTIONS FOR TYPES 2, 3, & 4
(2006) - 4 TYPE 5
C-3 (2005)— ENTRANCES
C-4 — CURB OPENINGS
(2001) - I TYPES A, B, & C
(2001) - 2 TYPES D & E
(2001) - 3 TYPES F & G

### SECTION III - DRAINAGE

SHEET NO.	NAME
D-I - 6:1	SAFETY END STRUCTURE
(2001) - 1	I DETAIL VIEWS
(2001) - 2	2 SCHEDULES
D-2 - 10:1	SAFETY END STRUCTURE
(2001) - 1	I DETAIL VIEWS
(2001) - 2	2 SCHEDULES
D-3 — SAF	FETY GRATES
(2005) - 1	I SAFETY END STRUCTURE GRATE & ASSEMBLY DETAIL
	2 PERSONNEL SAFETY GRATE FOR PIPE INLET DETAIL
	ET BOX DETAILS
D-5 – DR/	AINAGE INLET DETAILS
(2002) - 1	I DRAINAGE INLET ASSEMBLY
(2006) - 2	2 DRAINAGE INLET FRAME AND GRATES
(2004) - 3	
(2006) - 4	4 DRAINAGE INLET COVER SLAB DETAILS
(2006) - 5	5 DOUBLE INLET COVER SLAB DETAILS
(2004) - (	
(2002) -	
(2002) - 8	8 LAWN INLET DETAIL



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CULLET NO

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### SECTION III - DRAINAGE (CONT'D)

SHEET N	O. NAME
D-6	— MANHOLE DETAILS
	(2001) - I BOX MANHOLE ASSEMBLY
	(2001) - 2 ROUND MANHOLE ASSEMBLY
	(2001) - 3 MANHOLE FRAME AND COVER
	2002) - 4 BOX MANHOLE COVER SLAB
D-7	— JUNCTION BOX DETAILS
	2002) - I JUNCTION BOX ASSEMBLY
	(2002) - 2 JUNCTION BOX COVER SLAB
	) — PIPE BEDDING
	6) — PERFORATED PIPE UNDERDRAIN

### SECTION IV - EROSION

SHEET NO. NAME
E-I (2001) — INCREMENTAL STABILIZATION
E-2 (2006) — SILT FENCE
E-3 (2005) — DRAINAGE INLET SEDIMENT CONTROL
E-4 (2001) — CURB INLET SEDIMENT CONTROL
E-5 (2006) — STONE CHECK DAM
E-6 (2005) — SEDIMENT TRAP
E-7 (2005) — SEDIMENT TRAP, USING DRAINAGE INLET AS OUTLET
E-8 — RISER PIPE ASSEMBLY FOR SEDIMENT TRAP
(2006) -   ELEVATION
(2006) - 2 TRASH HOOD DETAILS
E-9 (2005) — EROSION CONTROL BLANKET APPLICATIONS
E-10 (2005) — RIPRAP DITCH
E-II (2005) — TEMPORARY SWALE
E-12 (2005) — PERIMETER DIKE/SWALE
E-13 (2005) — EARTH DIKE
E-14 (2005) — TEMPORARY SLOPE DRAIN
E-15 (2005) — STILLING WELL
E-16 (2005) — SUMP PIT, TYPE 1& 2
E-17 (2005) — DEWATERING BASIN
E-18 (2005) — GEOTEXTILE-LINED CHANNEL DIVERSION
E-19 (2005) — SANDBAG DIVERSION E-20 (2005)— SANDBAG DIKE
E-20 (2005)— SANDBAG DIKE E-21 (2005) — STABILIZED CONSTRUCTION ENTRANCE
E-22 (2006)— STABILIZED CONSTRUCTION ENTRANCE E-22 (2006)— SKIMMER DEWATERING DEVICE
E-22 (2000) Skimmely Device E-23 — TURBIDITY CURTAIN
(2005) - I FLOATING TURBIDITY CURTAIN
(2005) - 2 STAKED TURBIDITY CURTAIN
E-24 (2005)— PORTABLE SEDIMENT TANK
E-25 (2005) TURF REINFORCEMENT MAT APPLICATIONS
E-26 (2006)— RIPRAP ENERGY DISSIPATOR DETAIL



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### SECTION V - LANDSCAPING

SHEET NO.	NAME	
L-I -	- PLANTING DETAILS	
(200	06) - I ROADSIDE SHRUE	3 PLANTING DETAIL
(200	06) - 2 TREE PLANTING	DETAILS
(200	06) - 3 PERENNIAI / GROU	

### SECTION VI - MISCELLANEOUS

SHEET NO.	NAME	
M-I (2001)	- RIGHT-OF-WAY FEI	ICE
M-2 (2001)	- CONCRETE MONUM	:NT
M-3 (2005)	- REMOVABLE BOLL	RD
M-5 (2004)	- WOOD RAIL FENCE	
		IX OR CONCRETE & BRICK PAVER
		DETAILS

#### SECTION VII - PAVEMENT

SHEET N	NAME
P-I	- P.C.C. PAVEMENT
	2001) - I SLAB PLAN (WITH DOWEL AND TIE LOCATIONS)
	004) - 2 JOINT AND SEALANT DETAILS
	2001) - 3 W BOLT, HOOK BOLT, DOWEL & TIE BAR
	2001) - 4 DOWEL SUPPORT BASKET
	2001) – 5 DOWEL & TIE BAR PLACEMENT TOLERANCES
P-2	- P.C.C. PAVEMENT PATCHING
	2000 - I FULL DEPTH PATCH, PLAN VIEW
	004) - 2 FULL DEPTH PATCH, SECTION VIEWS
	004) - 3 FULL DEPTH PATCH, SEALANT DETAILS, GROUT RETENTION DISK, AND DOWEL BAR
	2001) - 4 FULL DEPTH PATCH, DOWEL BAR PLACEMENT TOLERANCES
	2001) - 5 PARTIAL DEPTH PATCH, PLAN AND SECTION VIEWS



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### SECTION VIII - TRAFFIC

SHEET NO. NAME
T-I (2005) — CONDUIT JUNCTION WELL, TYPES 1,2, AND 3
T-2 (2005) — CONDUIT JUNCTION WELL, TYPE 4
T-3 (2005) — CONDUIT JUNCTION WELL, TYPE 5
T-4 (2005) — CABINET BASES (TYPES "M" AND "P")
T-5 — POLE BASES
(2005) - I ROUND BASE, SQUARE BASE
(2005) - 2 TYPICAL SECTION (BASES 1, 2, 2A, 2B, 3, 3A, 3B, AND 7), TYPICAL SECTION (BASE 4), TYPICAL INSTALLATION (BASES 1, 2, 2A, 2B, 3, 3A, 3B, 4, AND 7)
(2005) - 3 TYPICAL SECTION (BASES 5 AND 6), ANCHOR BOLT DATA CHART AND DETAILS
T-6 (2005) — SPECIAL POLE BASE
T-7 (2005) — SIGN FOUNDATION
T-8 (2005) — LOOP DETECTOR TO CONDUIT JUNCTION WELL CONNECTION
T-9 (2005) — TYPE <b>*</b> I LOOP DETECTOR
T-10 (2005) — TYPE *2 LOOP DETECTOR
T-II — MESSENGER WIRE ATTACHMENT
(2005) - I INTERMEDIATE MESSENGER WIRE ATTACHMENT ON WOOD POLES
(2005) - 2 ANGULAR INTERMEDIATE MESSENGER WIRE ATTACHMENT
T-12 — MESSENGER WIRE ATTACHMENT
(2005) - I SPAN WIRE ATTACHMENT BETWEEN POLES
(2005) - 2 DEAD END MESSENGER WIRE ATTACHMENT
(2005) - 1 TYPE 4
(2006) - 2 TYPE 7
T-14 — EMERGENCY PREEMPTION RECEIVER
(2006) - I UPRIGHT MOUNT
(2005) - 2 INVERTED MOUNT



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	BARRIER LEGEND
ITEM NO.	DESCRIPTION
	W-BEAM
2	W6 X 9 (WI50 x 13.5) STEEL POST
3	WOOD OFFSET BLOCK
4	SPLICE - REQUIRES EIGHT(8) $\frac{5}{8}$ "(16) GUARDRAIL BOLTS (L=1 $\frac{1}{4}$ "(35)) WITH RECESS NI AND ONE(1) $\frac{5}{8}$ "(16) GUARDRAIL BOLT (L=10"(255)) WITH RECESS NUT.
5	W-BEAM TERMINAL CONNECTOR
6	$\frac{5}{8}$ " (16) GUARDRAIL BOLT (L=1/4" (35)) AND RECESS NUT
(7)	$\frac{5}{8}$ " (16) GUARDRAIL BOLT (L=10" (255)) AND RECESS NUT
8	$\frac{5}{8}$ " (IG) GUARDRAIL BOLT (L=IO" (255)), STEEL WASHER, AND RECESS NUT
9	$\frac{7}{8}$ " (22) HIGH STRENGTH STRUCTURAL HEX BOLT (L=VARIES) AND HEX NUT
	$\frac{5}{8}$ "(16) CARRIAGE BOLT (L=VARIES), STEEL WASHER, AND HEX NUT
	BEARING PLATE

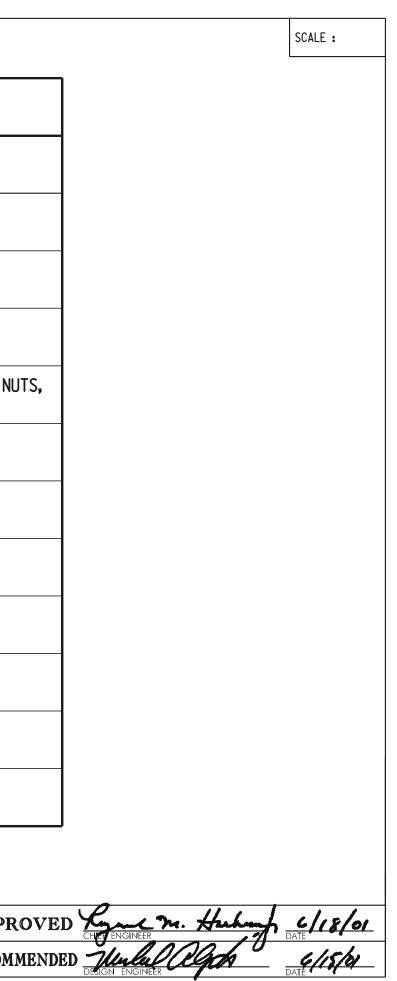
	DELAWARE	BARRIER LEGEND								
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-L (2001)	SHT.	1	OF	1	RECOM		

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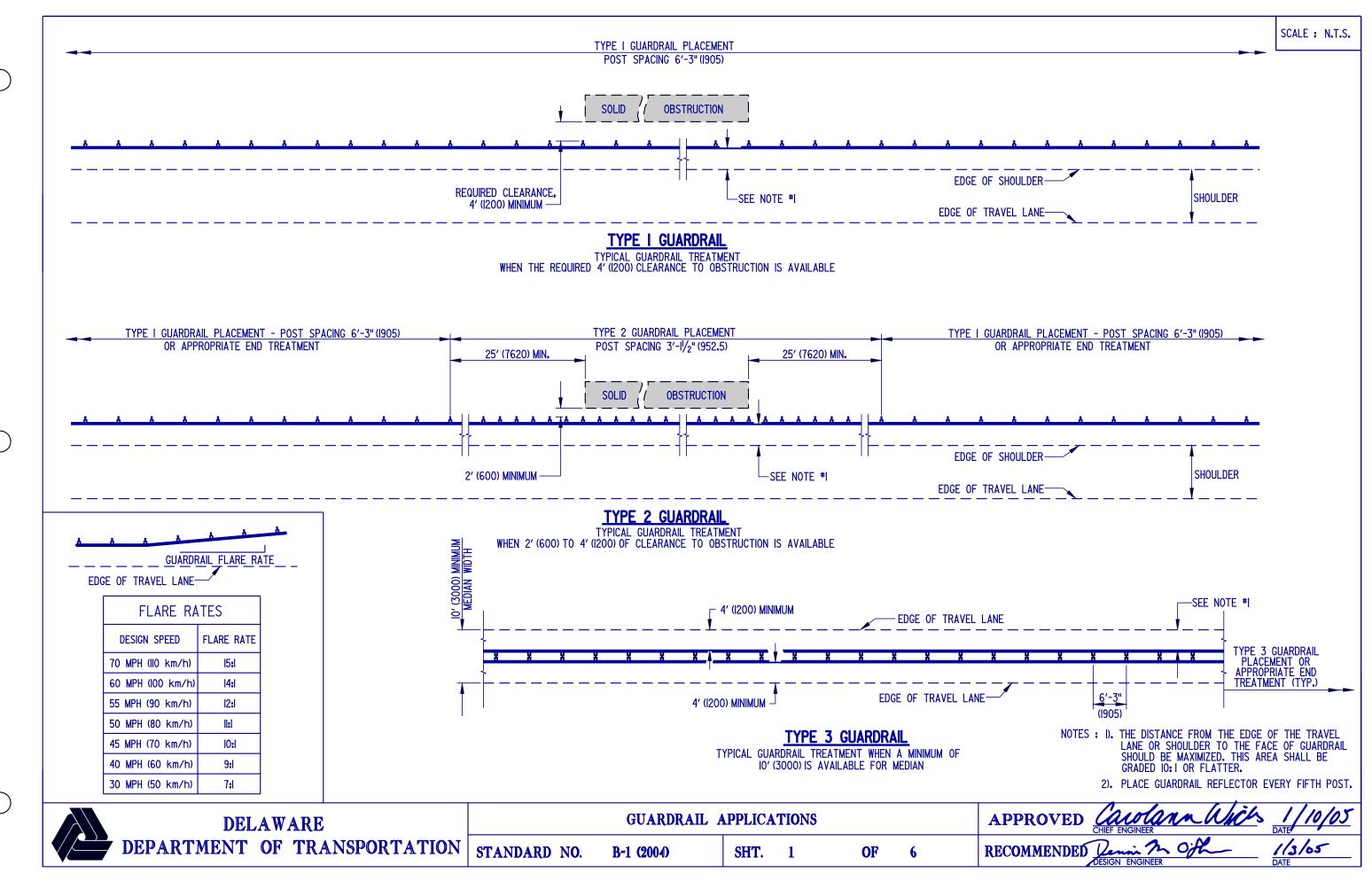
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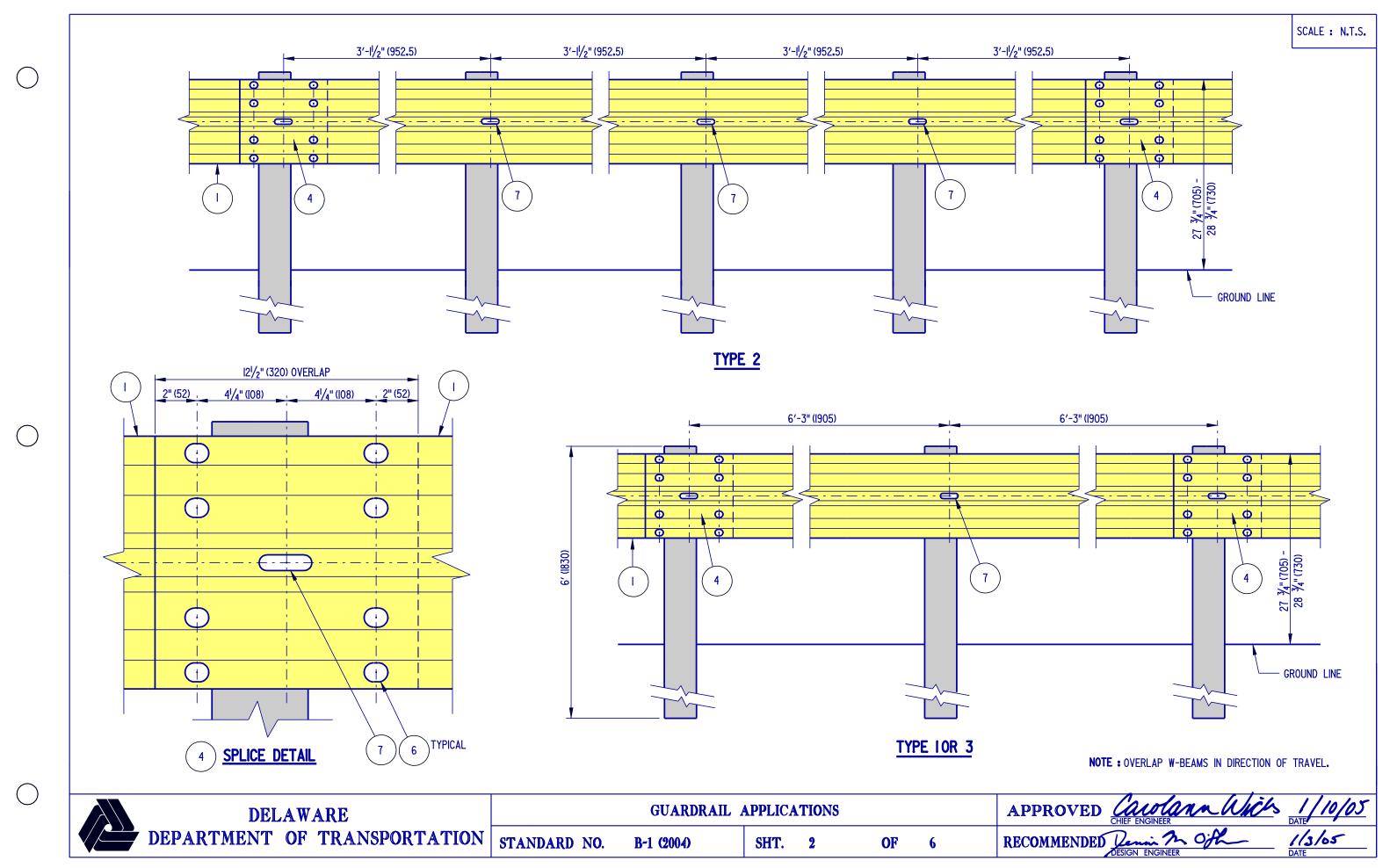


02/21/2001

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12/08/2004



08/24/2004

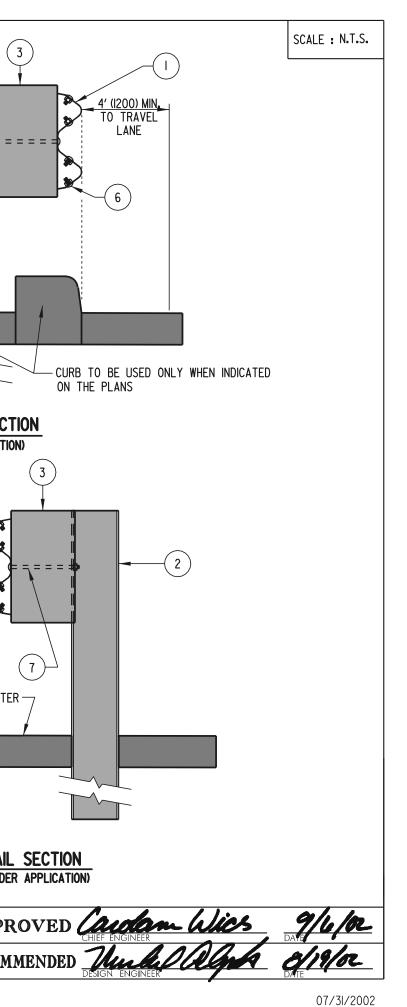
EDGE OF SHOULDER	INDICATED ON THE PLANS	T T T T T T T T T T T T T T T T T T T	-	SEE PLAN	(MEI	2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
TY	PE POST SPACING	CLEAR AREA BEHIND POST	DESIGN SPEED	D	27 ¥4" (705) - 28 ¥4" (730)	(7
	6′ 3" (1905)	4' (1200) MIN	< 50 MPH (80 km/h)	6' (1800)	21 28	
2	2 3′ 1 <mark>1∕2</mark> " (952 <b>.</b> 5)	2′ (600) MIN	<u>&gt;</u> 50 MPH (80 km/h)	10′ (3000)		
				GITADDDAT	PAVEMENT OR SIDEWALK — SHALL BE USED ONLY WHEN INDICATED ON PLANS	GUARDRAIL SE JRBAN SHOULDER APP
	DELAW	AKĽ		O O TRICINITA		

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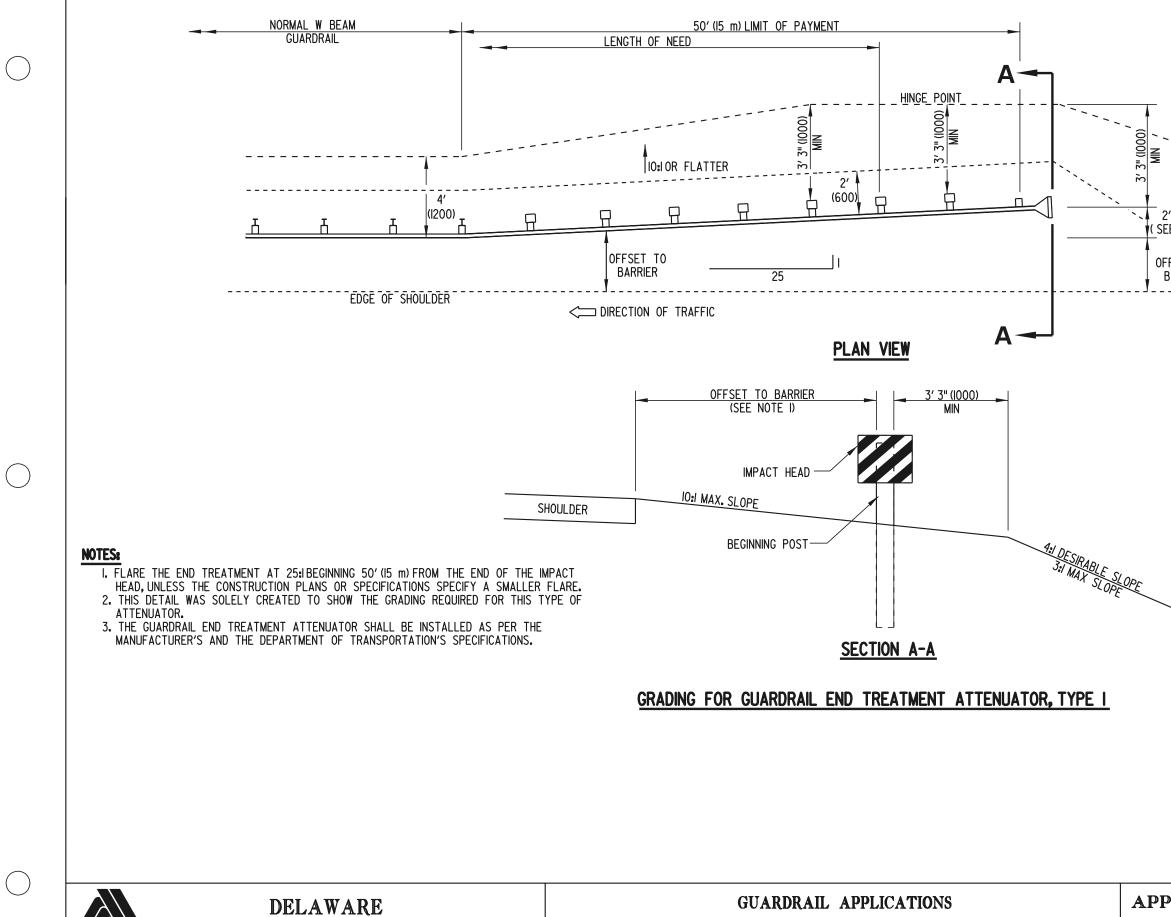
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DELAWARE	GUARDRAIL APPLICATIONS							
DEPARTMENT OF TRANSPORTATION	STANDARD NO. B-1 (200	)2) SHT. 3	OF 6	RECOMME				



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STANDARD NO.

B-1 (2002)

SHT.

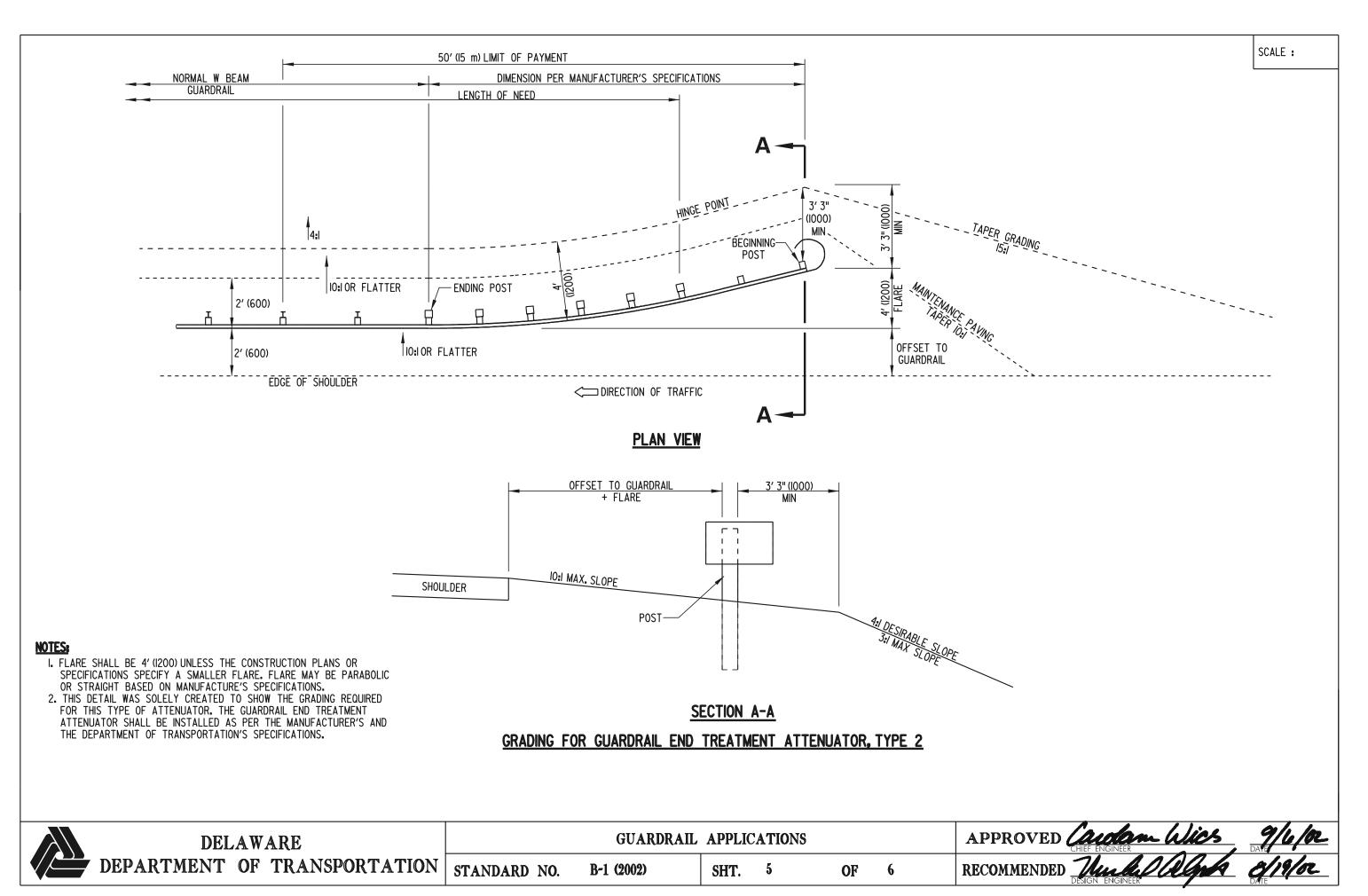
4

OF

6

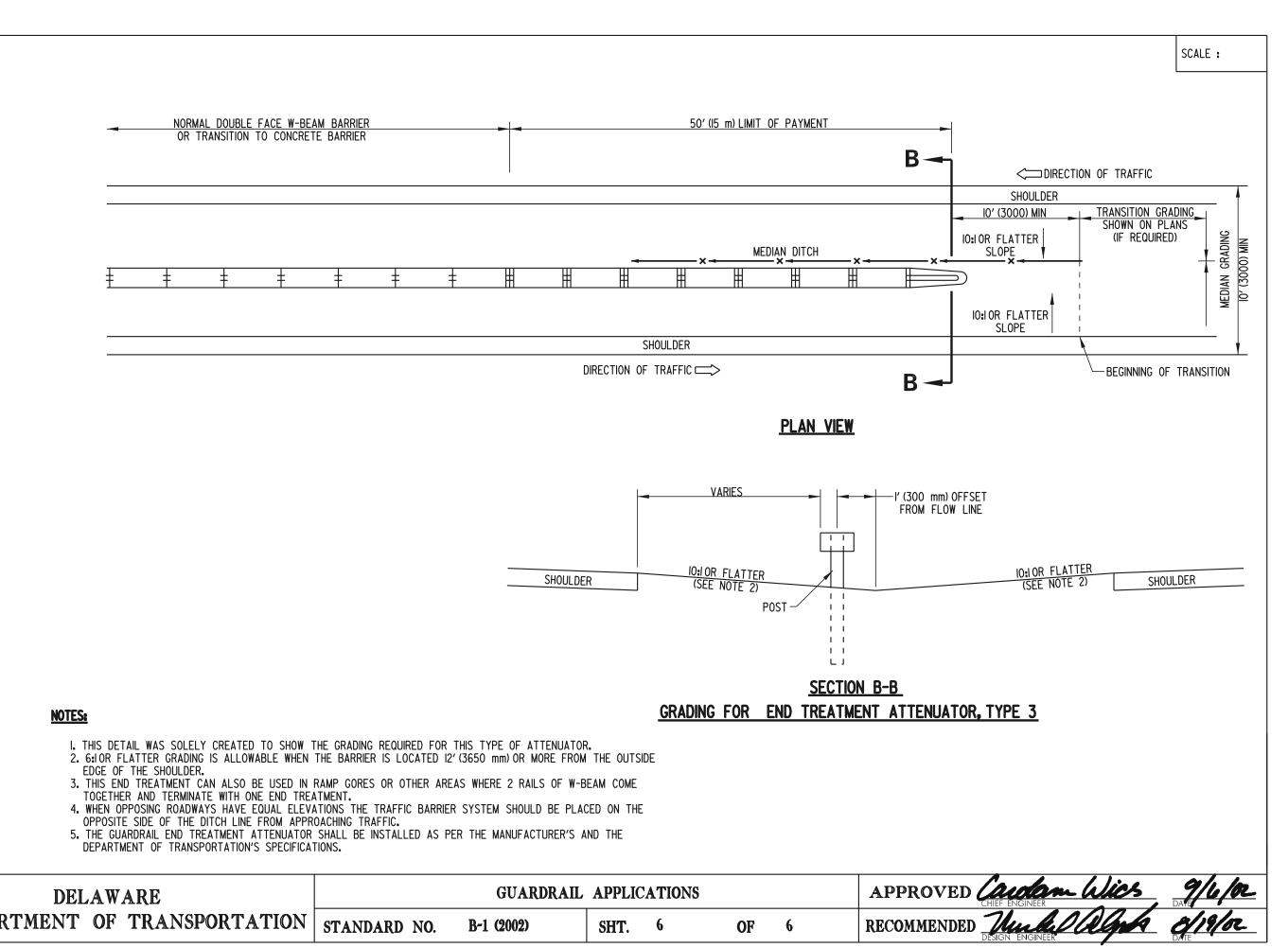
DEPARTMENT OF TRANSPORTATION

SCALE : APER GRADING 2' (600) ( SEE NOTE I) 0:10 FLATTER TAPER MAINTENANCE OFFSET TO PAVEMENT IO: BARRIER APPROVED (andam Wich RECOMMENDED 07/26/2002



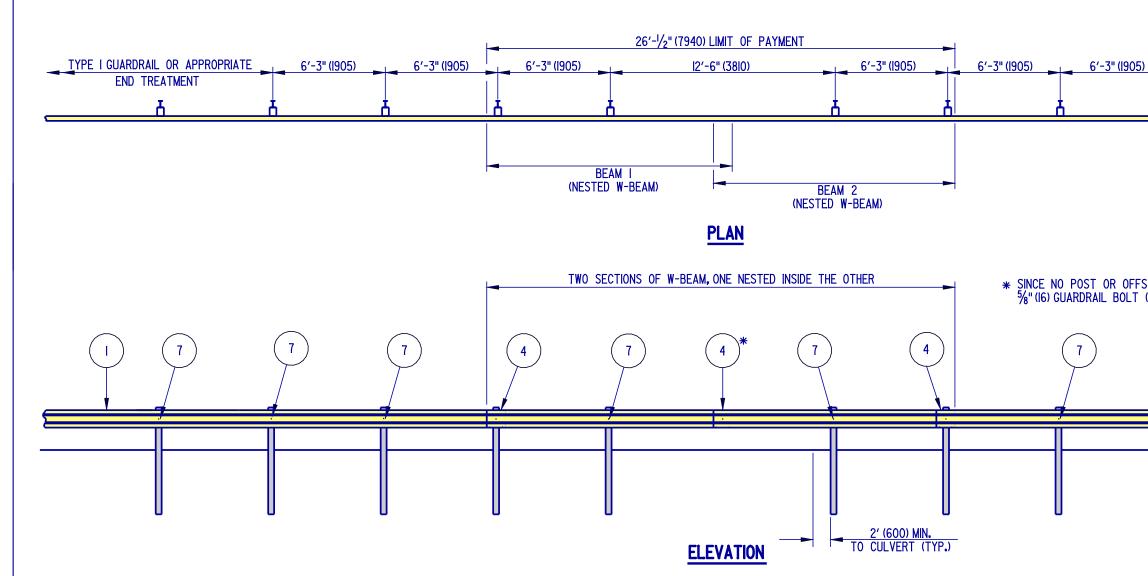
DELAWARE	GUARDRAIL APPLICATIONS							
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-1 (2002)	SHT.	5	OF	6	RECOMM	

07/31/2002



DEPARTMENT OF TRANSPORTATION

07/31/2002

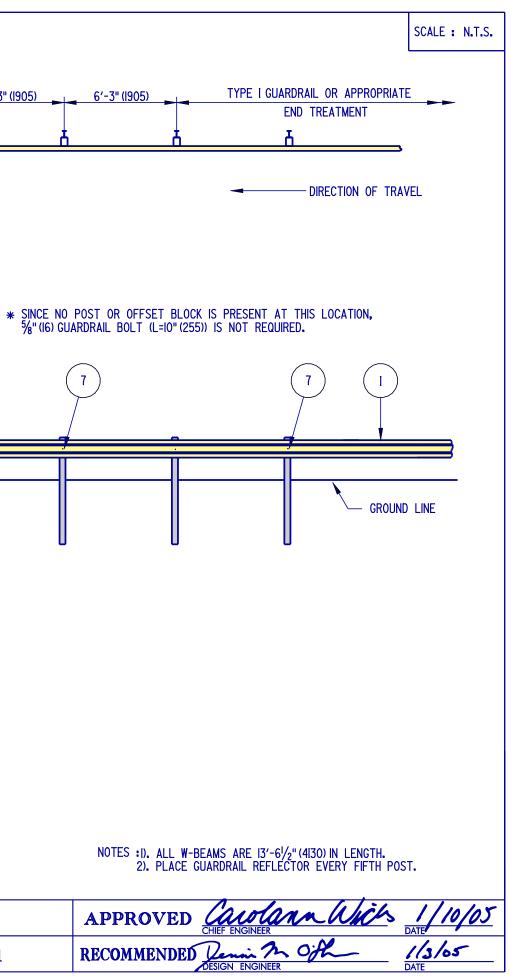


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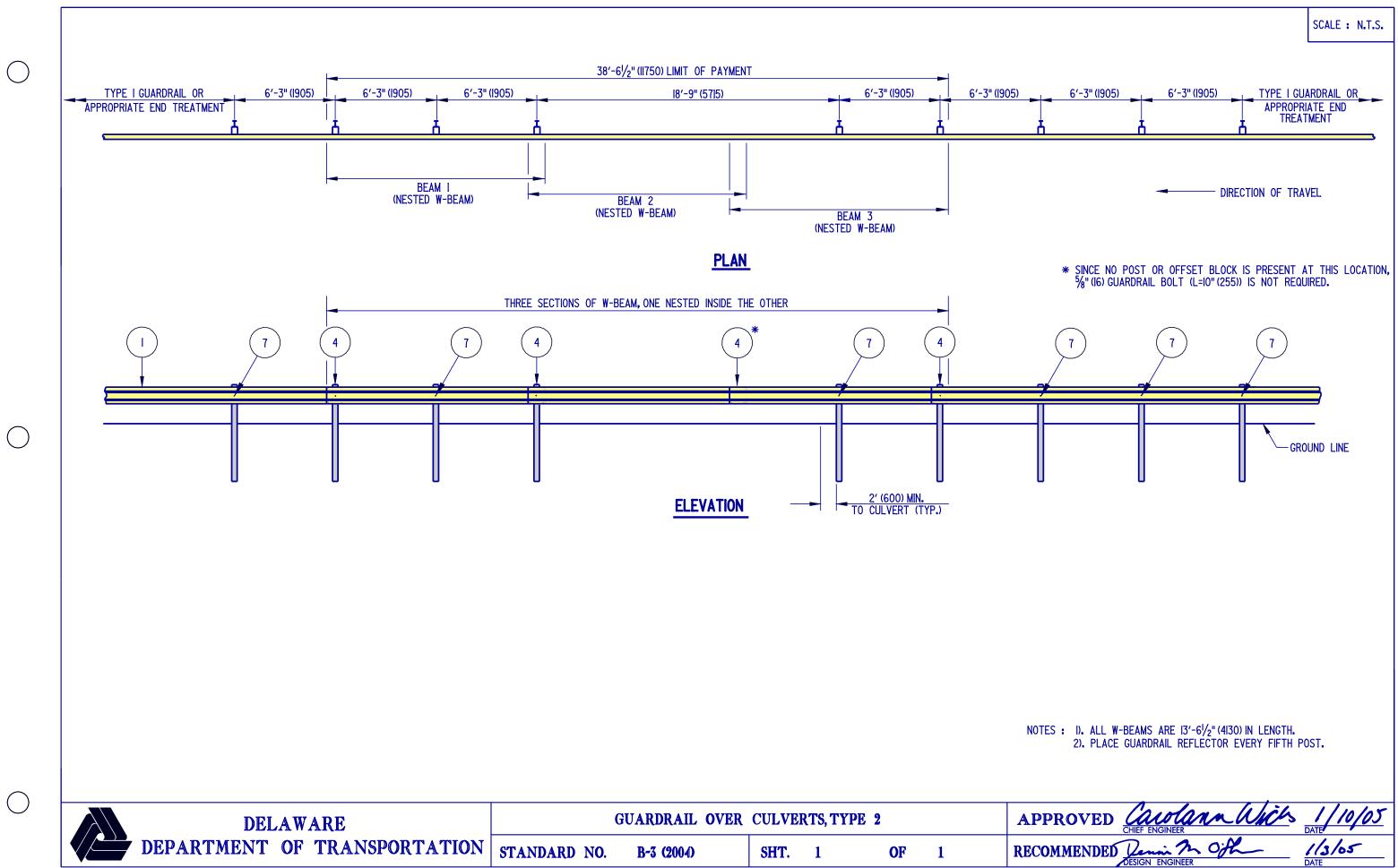
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	DELAWARE	GUARDRAIL OVER CULVERTS, TYPE 1						
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-2 (2004)	SHT.	1	OF	1	RECOMM

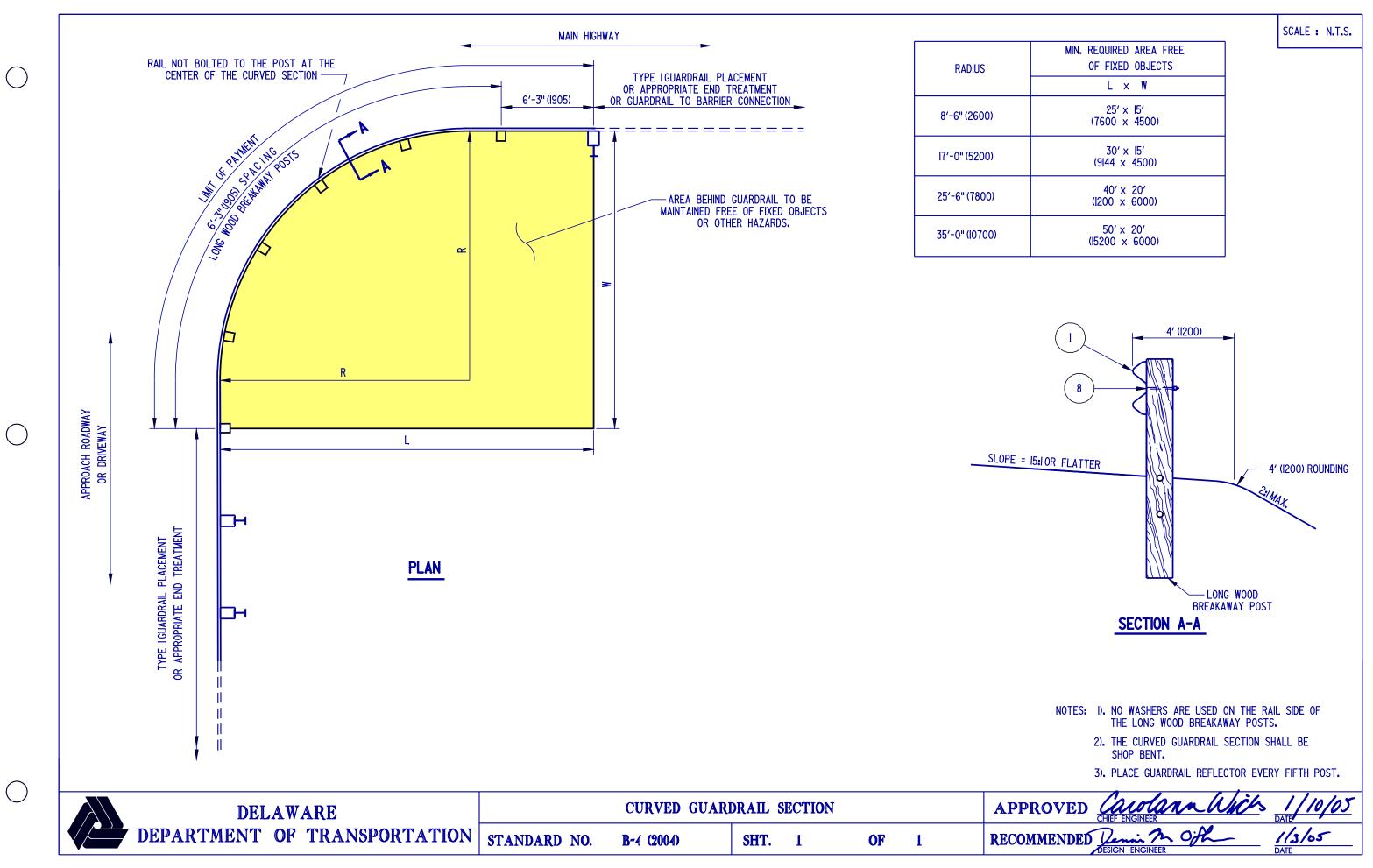


12/08/2004



	DEL	GUARDRAIL OVER CULVERTS, TYPE 2							
	DEPARTMENT	OF TRANSPORTATION	STANDARD	N <b>O</b> .	B-3 (2004)	SHT.	1	OF	1

12/08/2004



12/08/2004

	DELAWARE		END ANC	HORAGE				APPR
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-5 (2002)	SHT.	1	OF	1	RECOMM

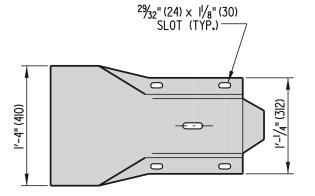
- 2. CONTRACTOR HAS THE OPTION OF USING A 6' (1830) STEEL TUBE WITHOUT A SOIL PLATE OR A 5' (1525) STEEL TUBE WITH A SOIL PLATE.

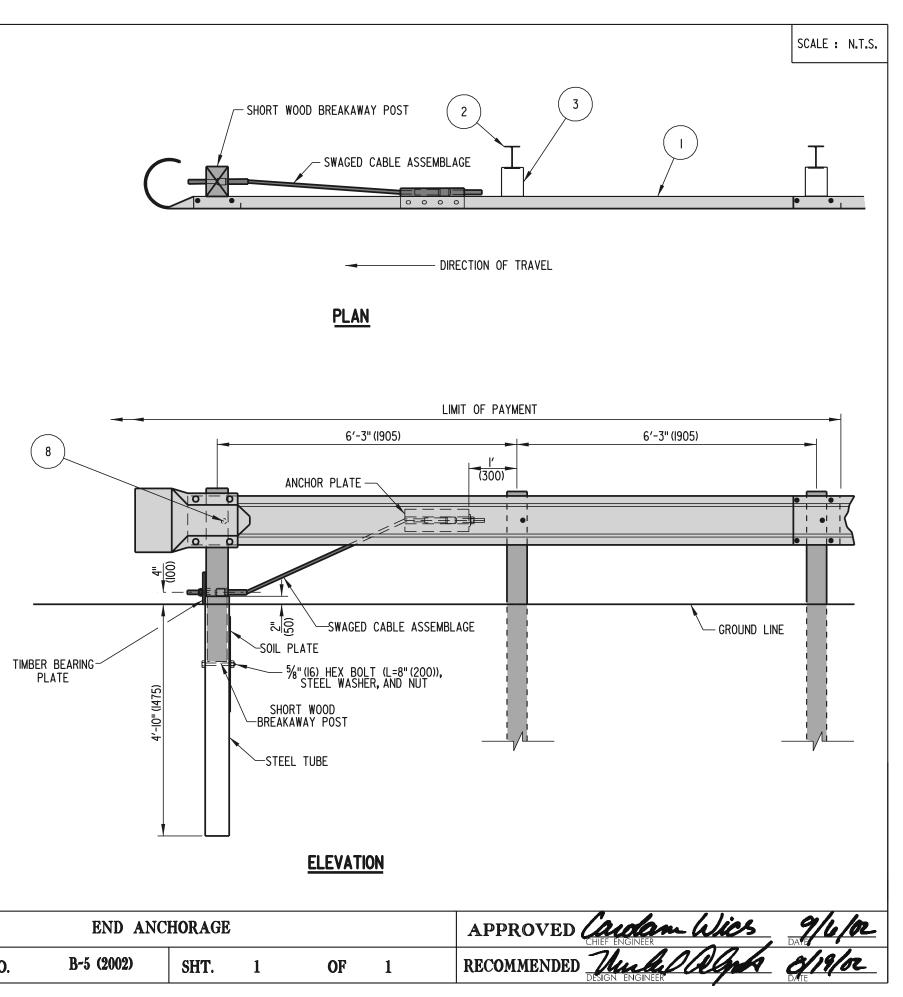
- SPACING INFORMATION).

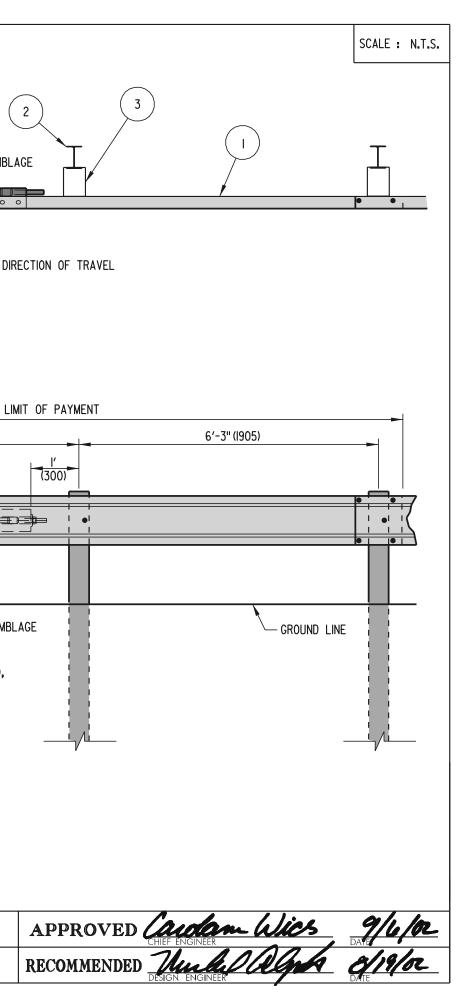
- I. ADDITIONAL HOLES FOR ANCHOR PLATE SHALL BE DRILLED PRIOR TO GALVANIZING. (SEE STANDARD HARDWARE SHEET FOR HOLE

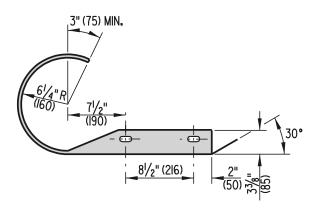


END SECTION ELEVATION





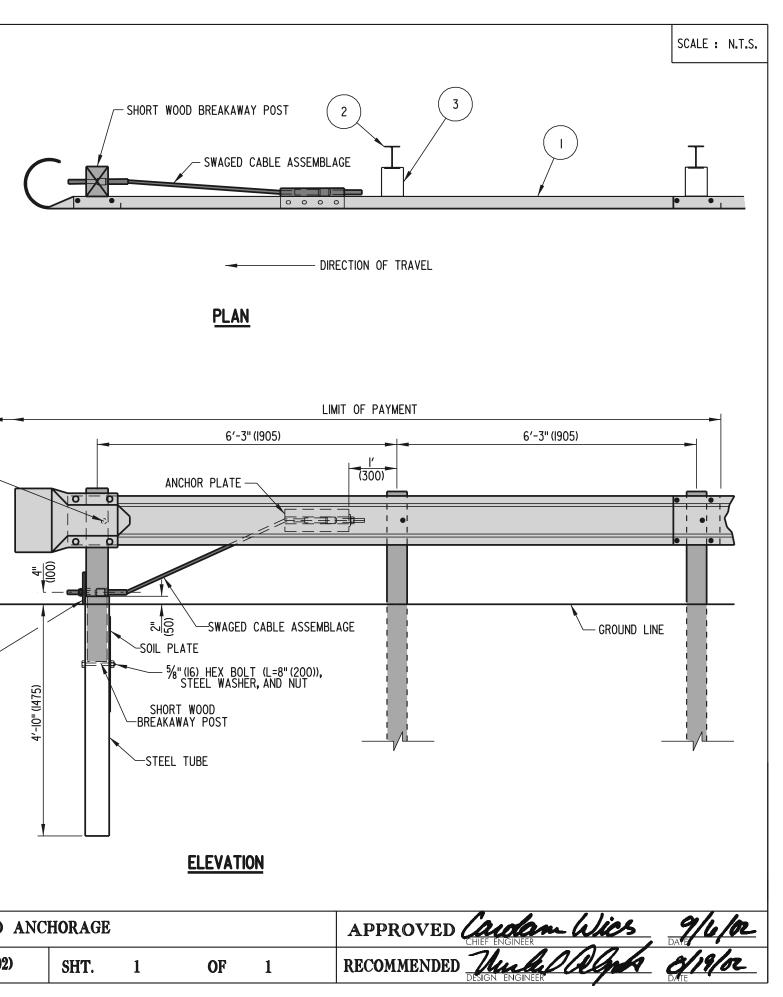




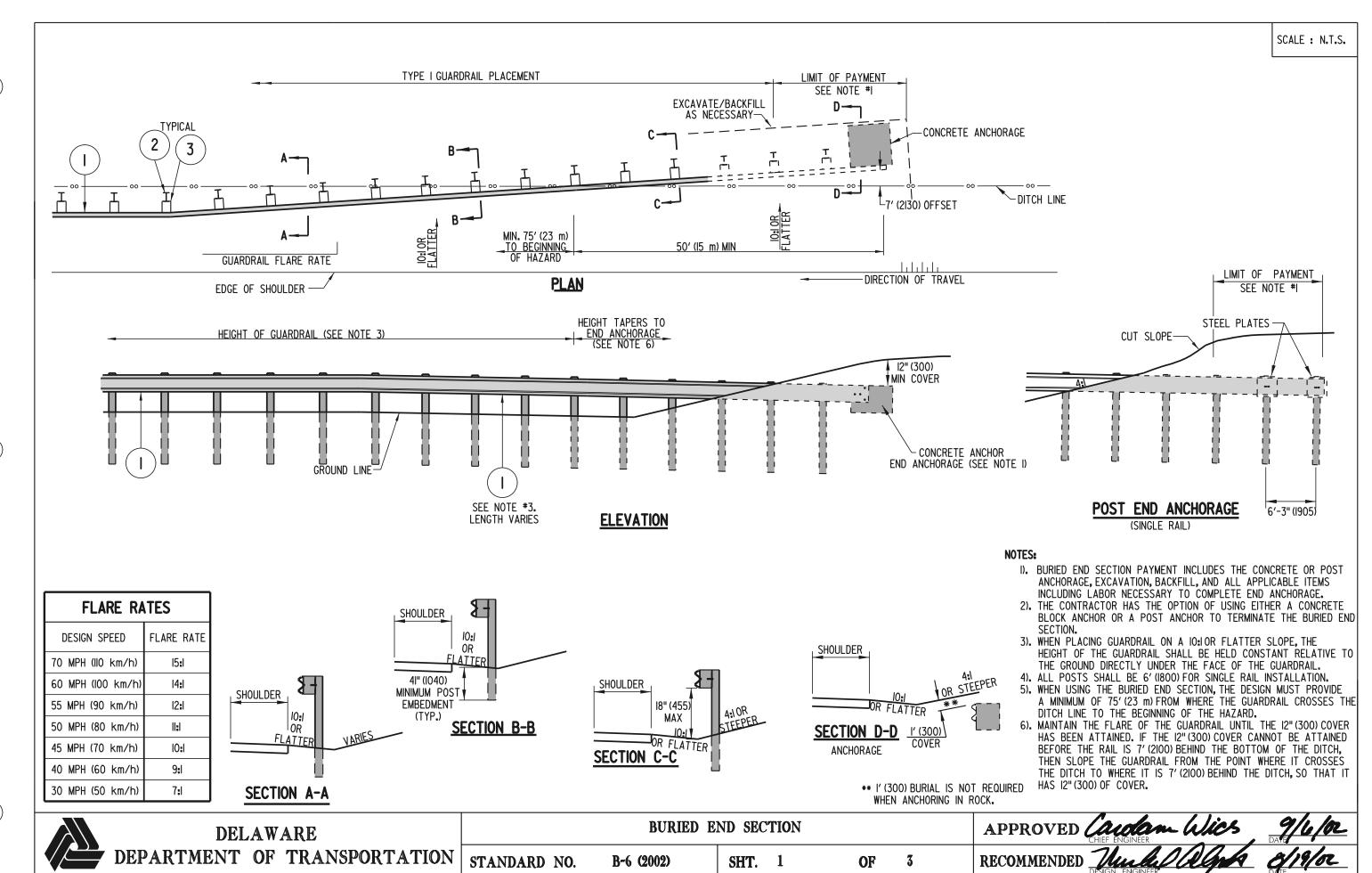
END SECTION PLAN

(

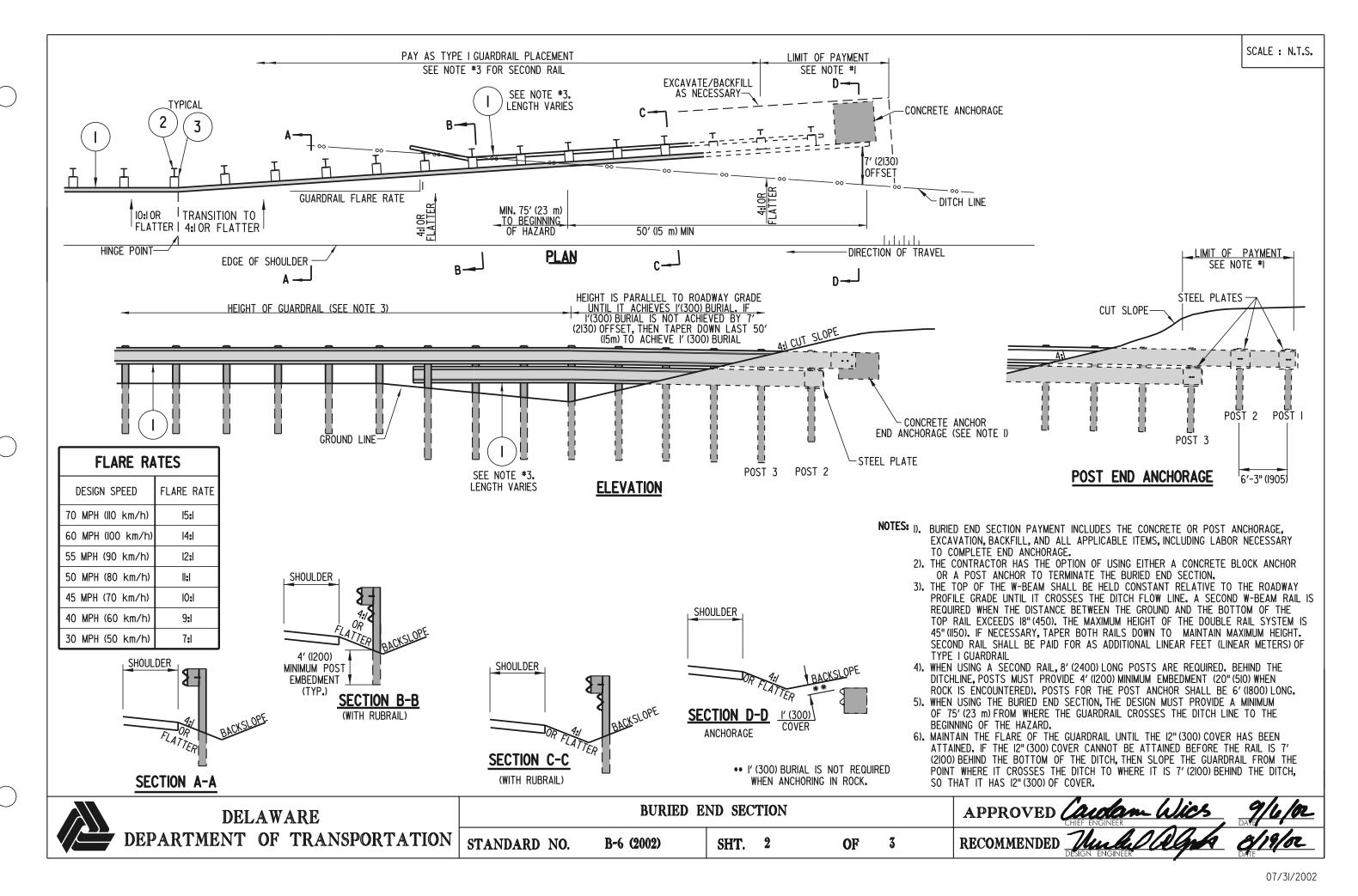
NOTES:



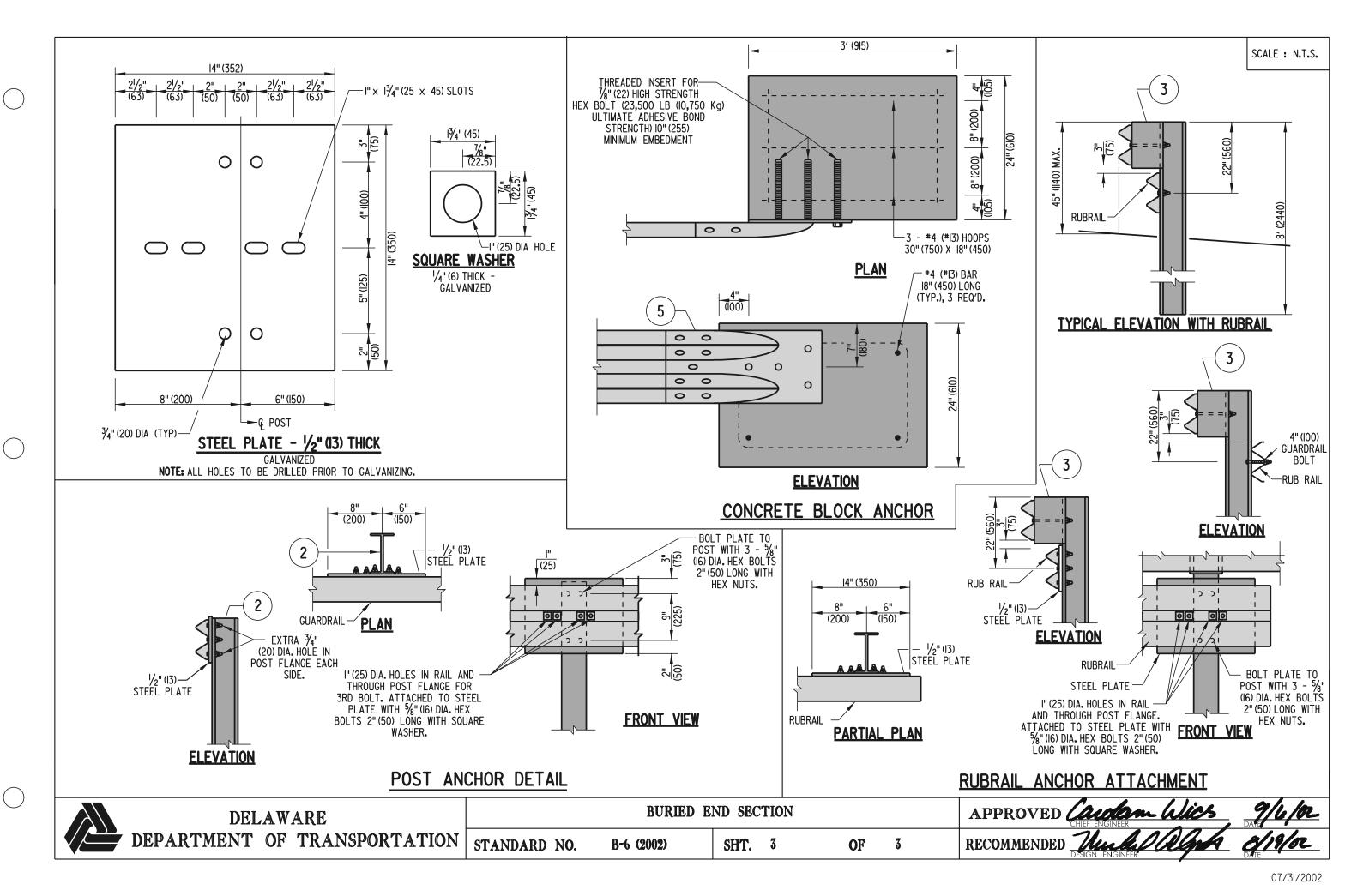
07/31/2002



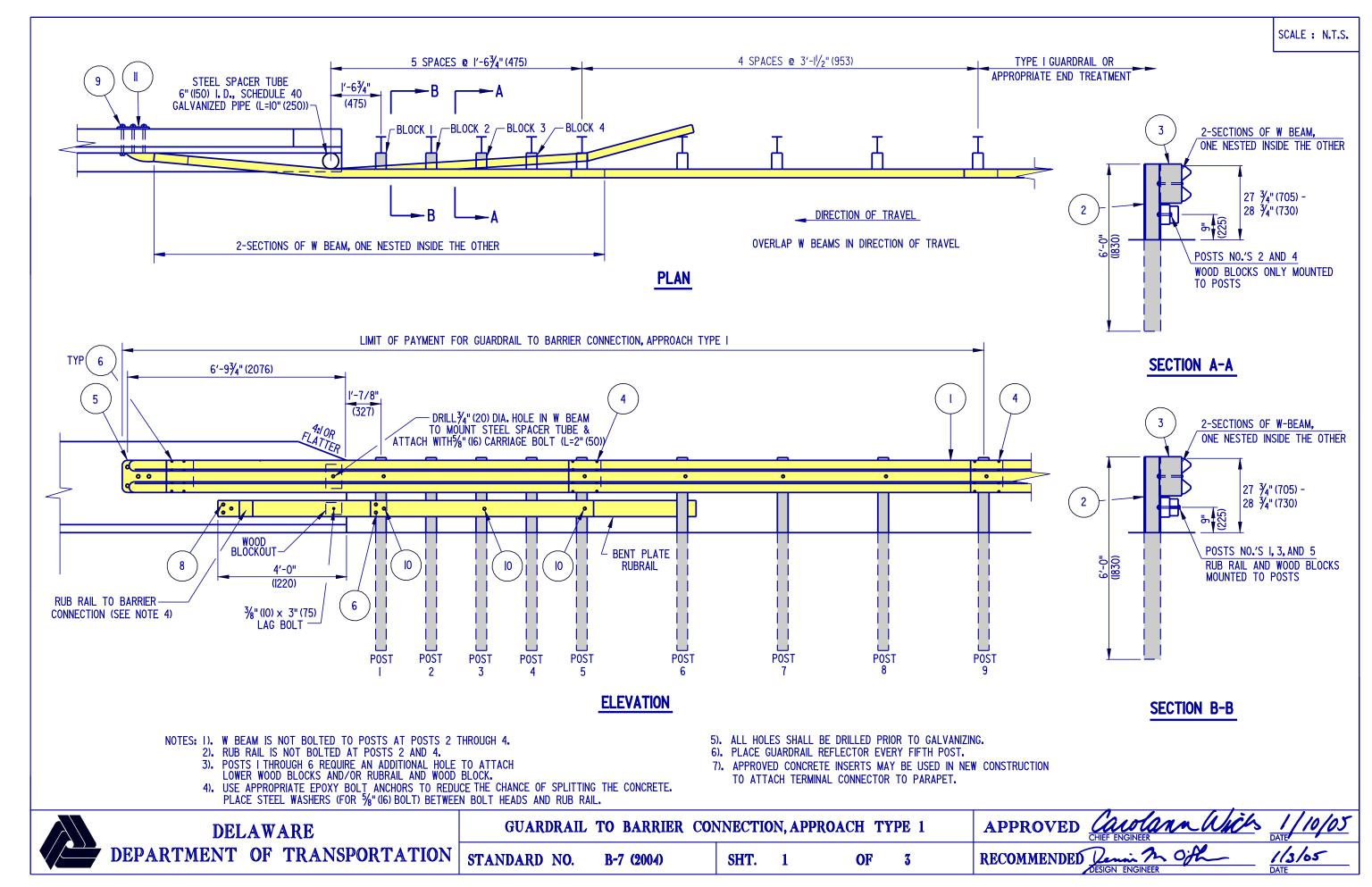
07/31/2002



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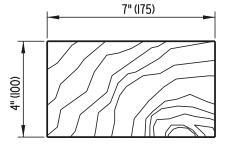
12/08/2004

DELAWARE	GUARDRAIL	TO BARRIER CON	NNECTIO	N, APPI	ROACH TYI	PE 1	APPR
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-7 (2001)	SHT.	2	OF	3	RECOM

RUB RAIL WOOD BLOCKS (7" (175) × 4" (100))									
POST NO.	WIDTH	BOLT LENGTH							
I	4 <sup>1</sup> /4" (108)	6" (150)							
2	3 <sup>1</sup> ⁄4" (83)	4" (100)							
3	2" (50)	4" (100)							
4	l" (25)	2" (50)							

# RUB RAIL WOOD BLOCKS





ELEVATION

7" (175)

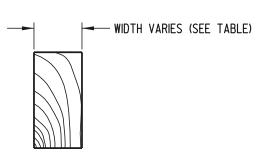
3<sup>|</sup>/2"

(87.5)

4<sup>1</sup>/2" (115)

 $\square$ 

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5<sup>|</sup>/2" (140)

2<sup>|</sup>/4"\_

(57)

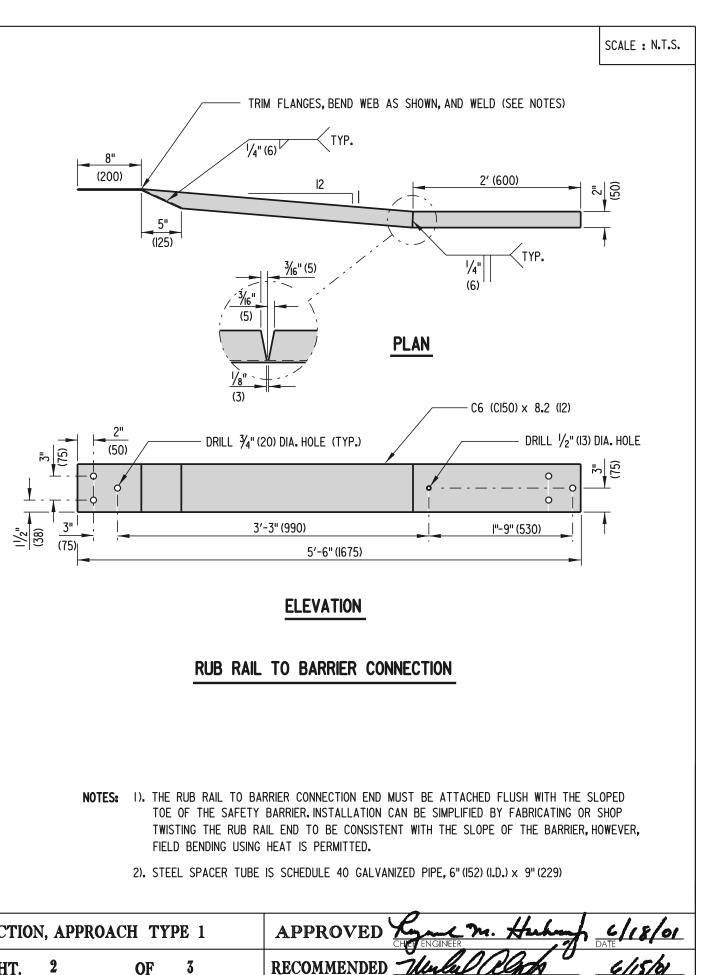
**RIGHT SIDE** 

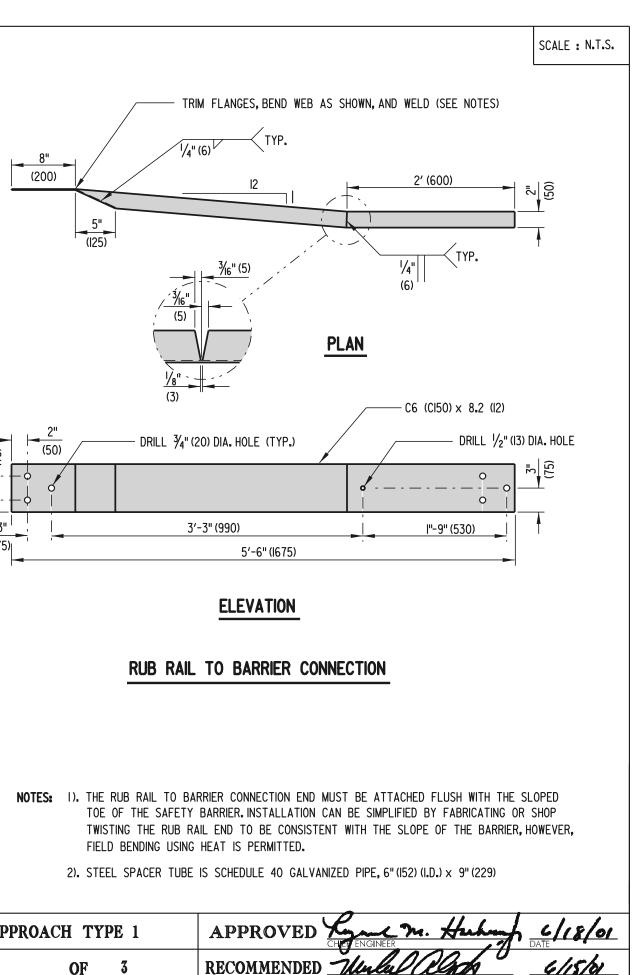
**RIGHT SIDE** 

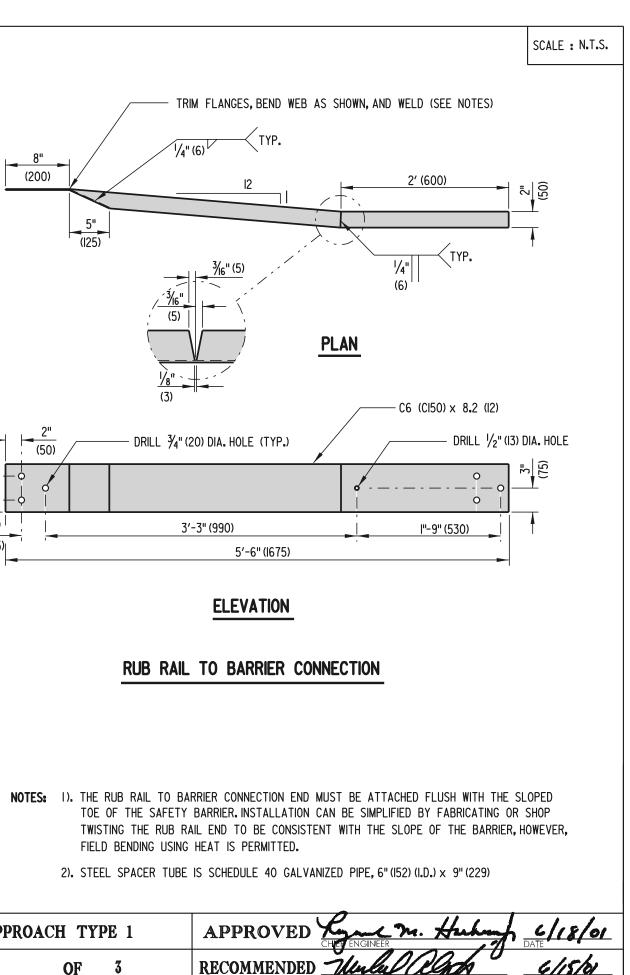
2<mark>//4</mark>" (57.5)

DRILL 1/4" (6) DIA. HOLE

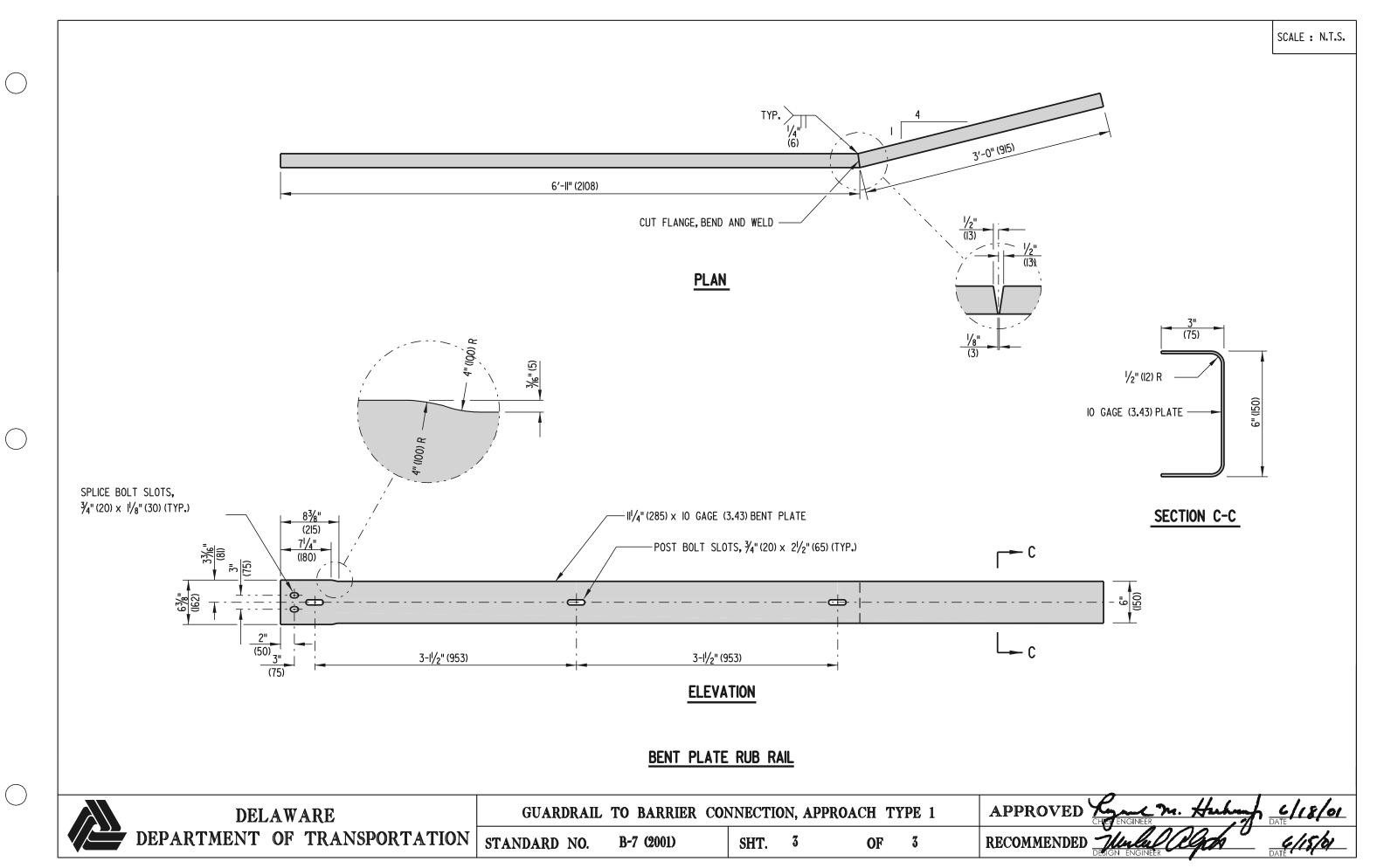
WOOD BLOCKOUT DETAIL





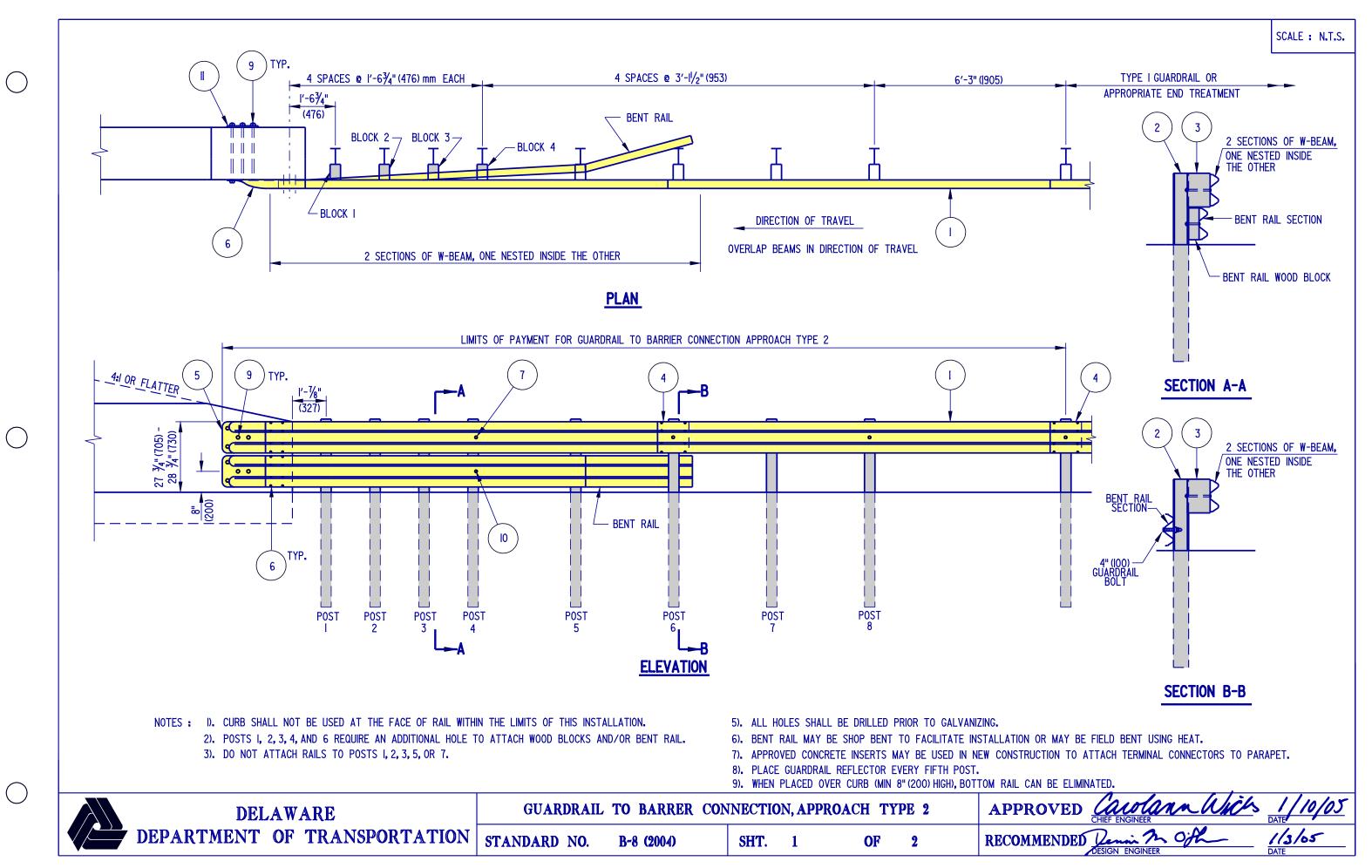


04/05/2001

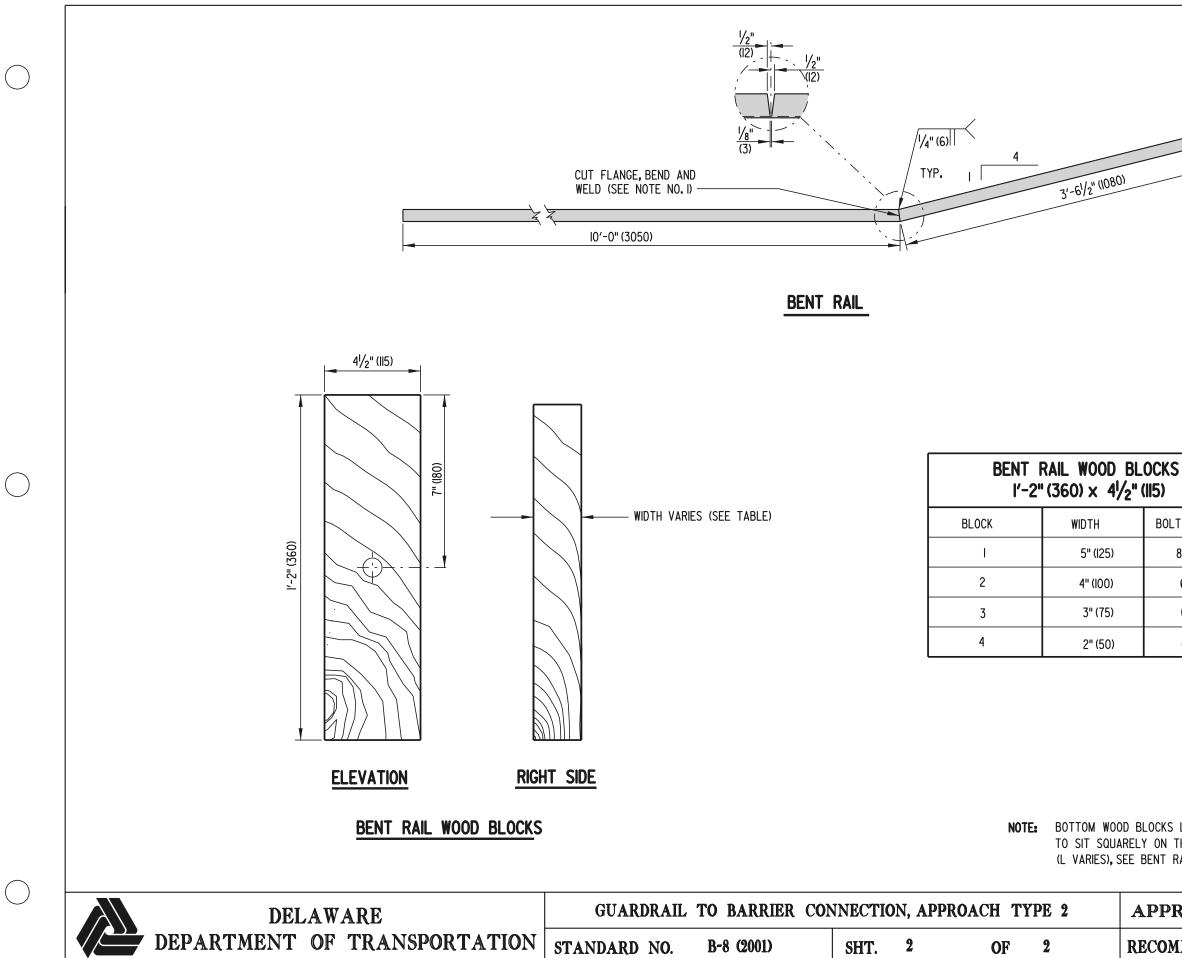


04/05/2001

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12/08/2004



6/18/01 APPROVED RECOMMENDED 04/05/2001

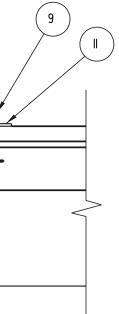
BOTTOM WOOD BLOCKS LOCATED ON POSTS I-4 ARE OFFSET DRILLED TO SIT SQUARELY ON THE POST FLANGE AND SECURED WITH  $\frac{5}{8}$ " (IG) CARRIAGE BOLTS (L VARIES), SEE BENT RAIL WOOD BLOCKS TABLE.

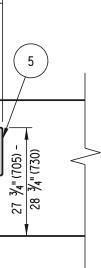
KS )
OLT LENGTH
8" (200)
6" (150)
6" (150)
4" (IOO)

SCALE : N.T.S.

$\supset$						o. o.1/##	
			I N			2'-8¾" ({	
			DIRECTION OF TRAV	<u>EL</u>			
			<u>PLAN</u>				
$\supset$	OR APPROPRIATE END TREATMENT	LIMIT OF PAY 6'-3" (1905)	MENT FOR GUARDRAIL TO E	BARRIER CONNECTION, E 5'-3" (I600)			9
	→   <u> /8</u> " (28) TYP.					Ati OR FLATTE	
							27 34" (7
	4						NOTES:
			<u>ELEVATION</u>	<u>N</u>			
$\supset$	DELAWARE		AIL TO BARRIER	CONNECTION,	EXIT TYP	E	APPRO
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-9 (2002)	SHT. 1	OF	1	RECOMM

SCALE : N.T.S.

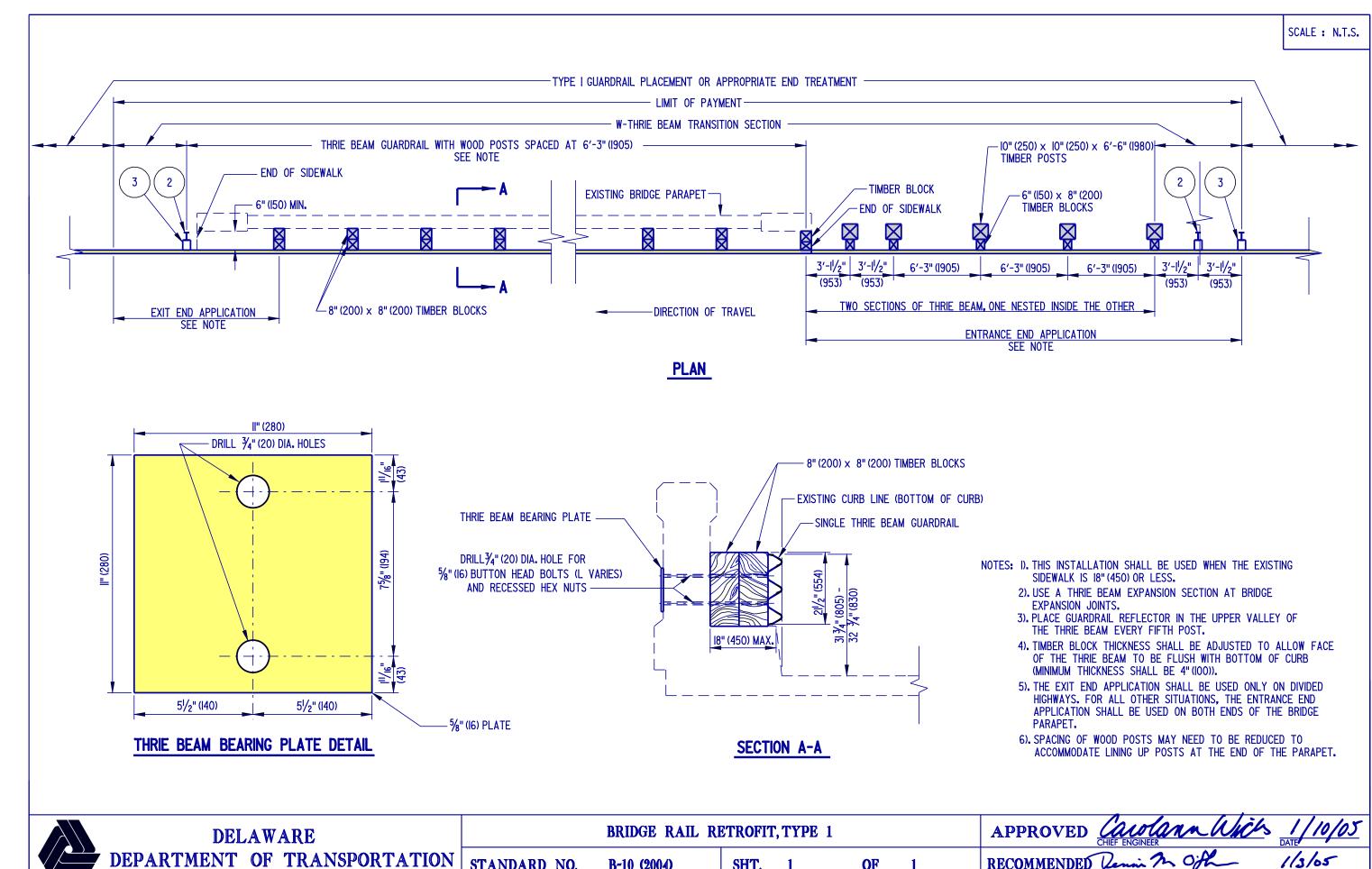




- TES: 1). CONCRETE INSERTS MAY BE USED IN NEW CONSTRUCTION TO ATTACH TERMINAL CONNECTOR TO PARAPET,
  - 2). GUARDRAIL SECTION AND TERMINAL CONNECTORS SHALL BE OVERLAPPED IN THE DIRECTION OF TRAVEL.
- 3). INSTALLATION SHOWN ABOVE WITH AN 'F-TYPE' BARRIER FACE. GUARDRAIL SECTION OF BARRIER CONNECTION SHALL BE ADJUSTED HORIZONTALLY IN ORDER TO MEET FLUSH AGAINST VARIOUS TYPES OF WALLS AND BARRIERS.

ROVED Landa IMENDED Multip ġ 102

04/23/2002



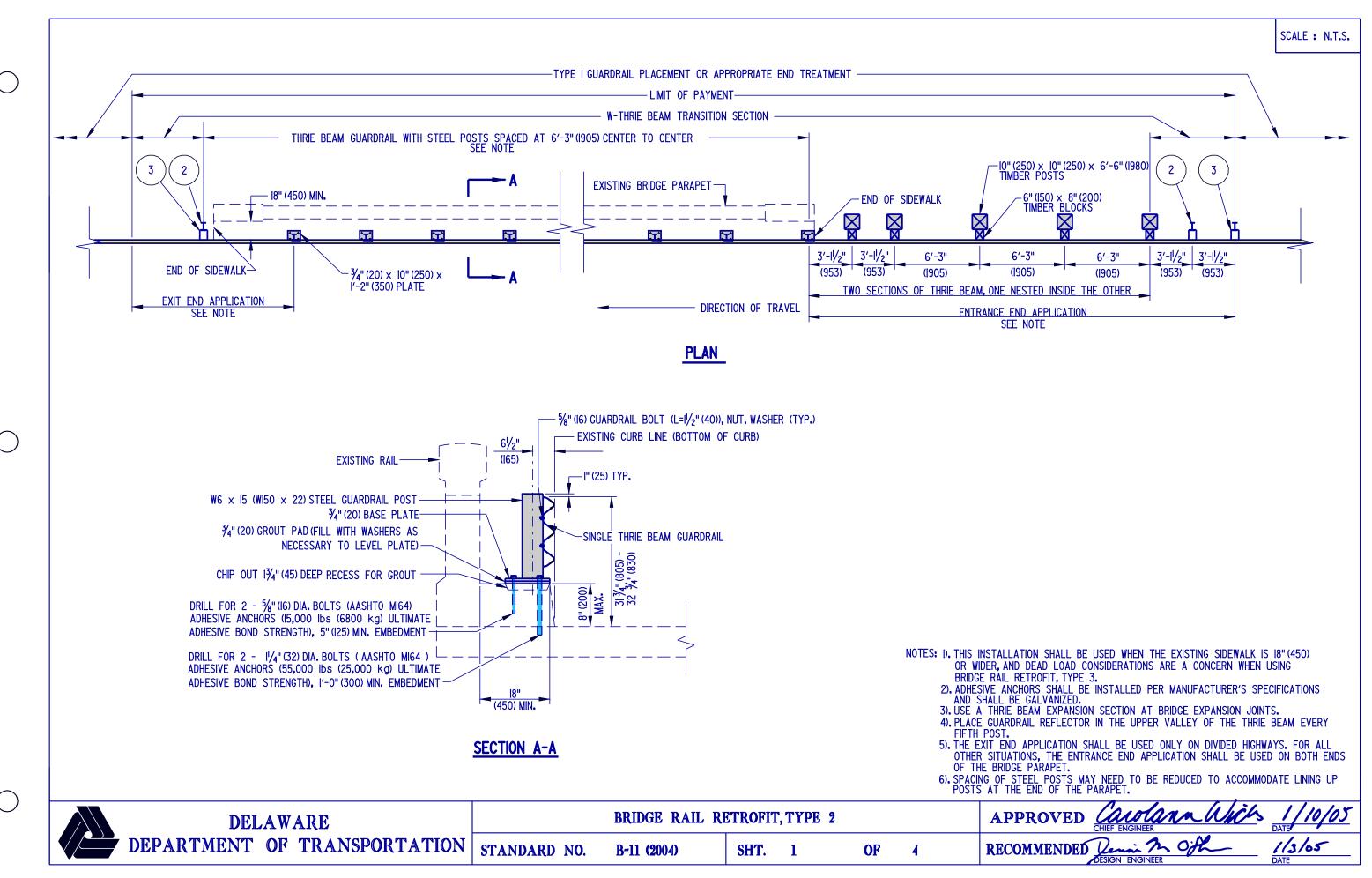
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DELAWARE	BRIDGE RAIL RETROFIT, TYPE 1						
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-10 (2004)	SHT.	1	OF	1	RECOMMEN

12/08/2004

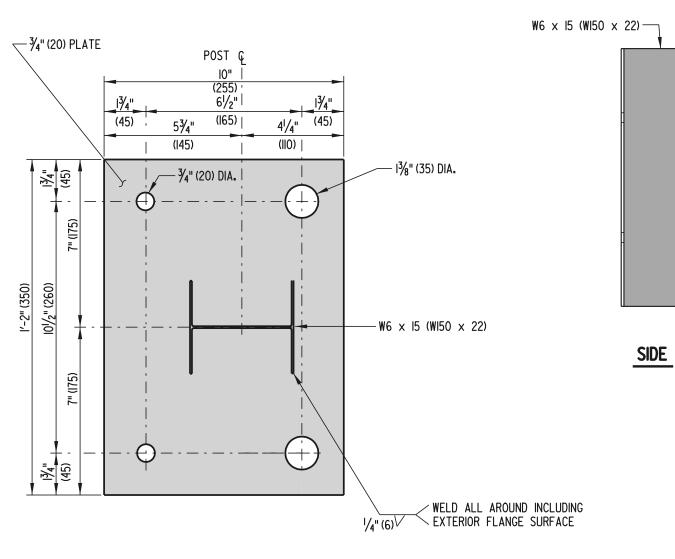
DATE

GN ENGINEER



12/08/2004

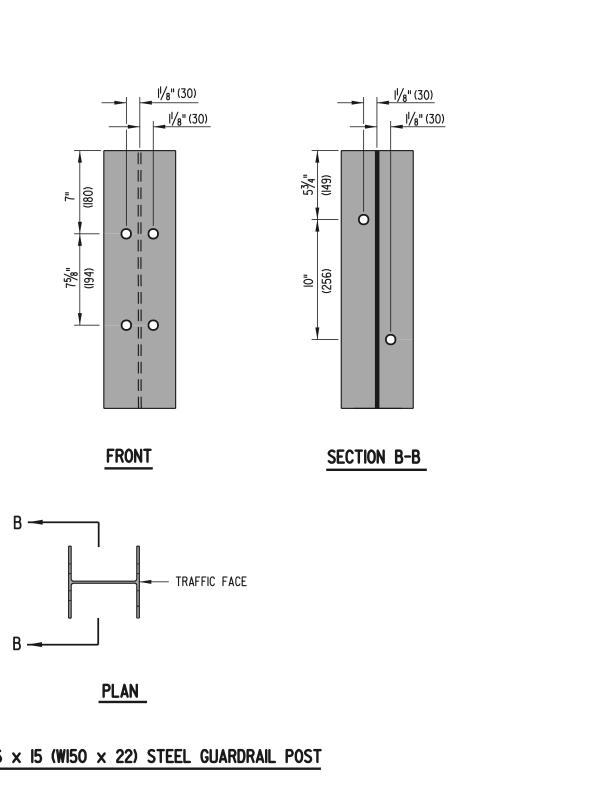
	· 전망···································							TR	AFFIC FACE
BASE PLATE DETAIL							PLAN	<u> </u>	
				<u>W6</u>	5 x 15 (	<b>WI50</b>	x 22)	STEEL	GUARDR
DELAWARE		BRIDGE RAIL R	ETROFI	T, TYI	PE 2				APPR
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-11 (2001)	SHT.	2		OF	2		RECOM

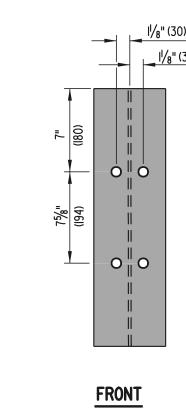


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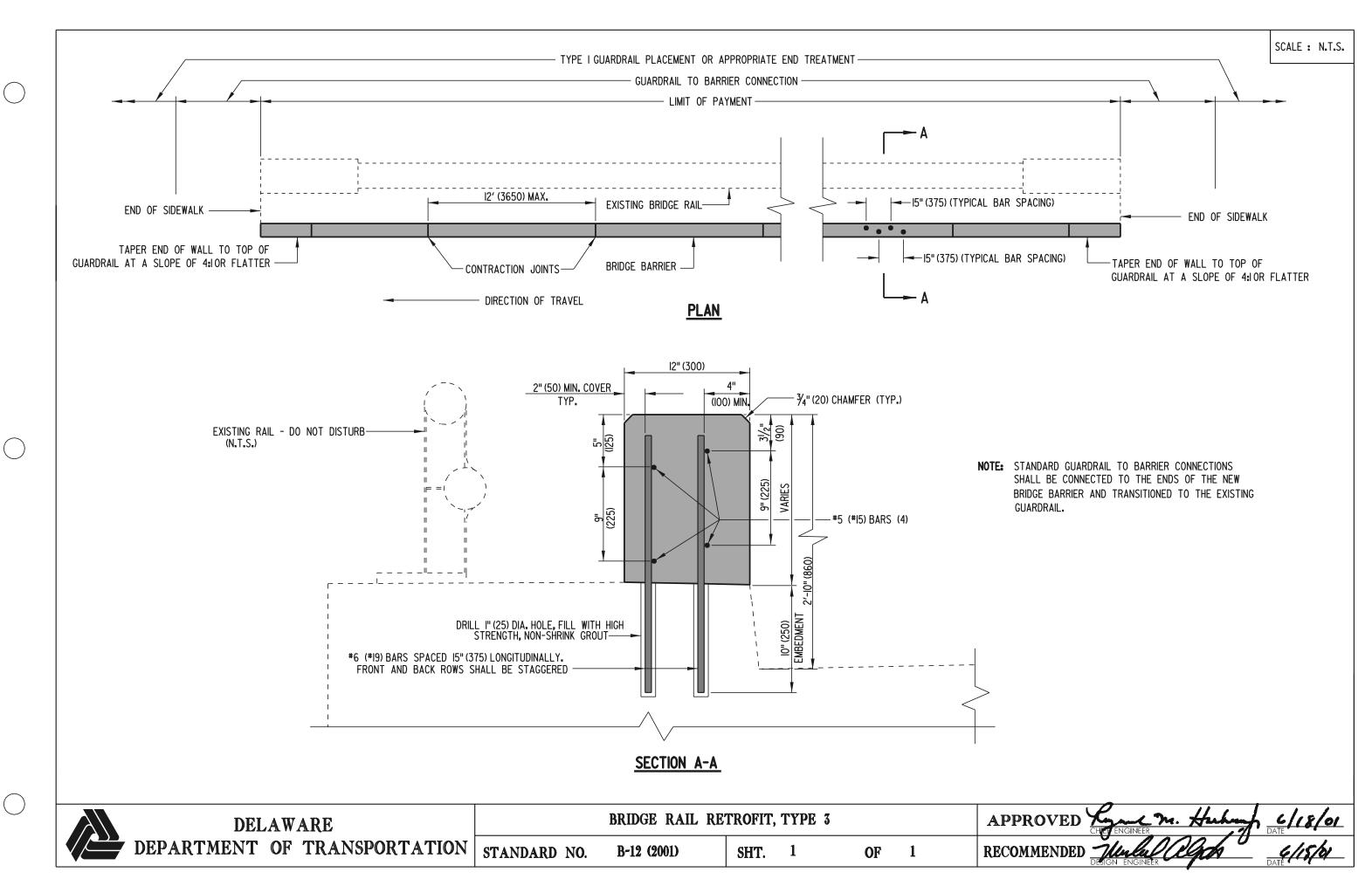


VARIES

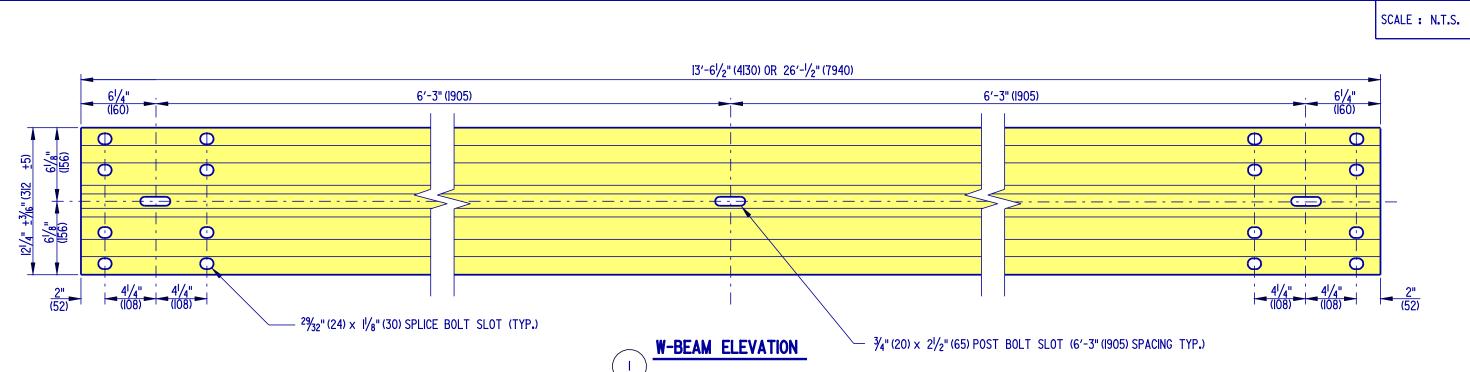
c/18/01 ROVED MMENDED 7/4 \_\_\_\_\_\_\_ DATE

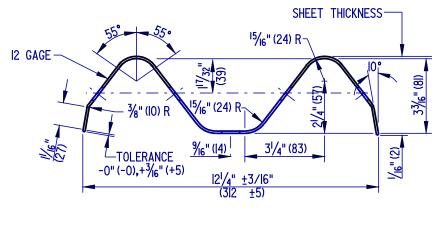
04/05/2001

SCALE : N.T.S.



05/21/2001





**W-BEAM SECTION** 

DELAWARE		HARDWARE							APPRO	
DEPARTMENT	OF	TRANSPORTATION	STANDARD	N <b>O</b> .	B-13 (2004)	SHT.	1	OF	13	RECOMM

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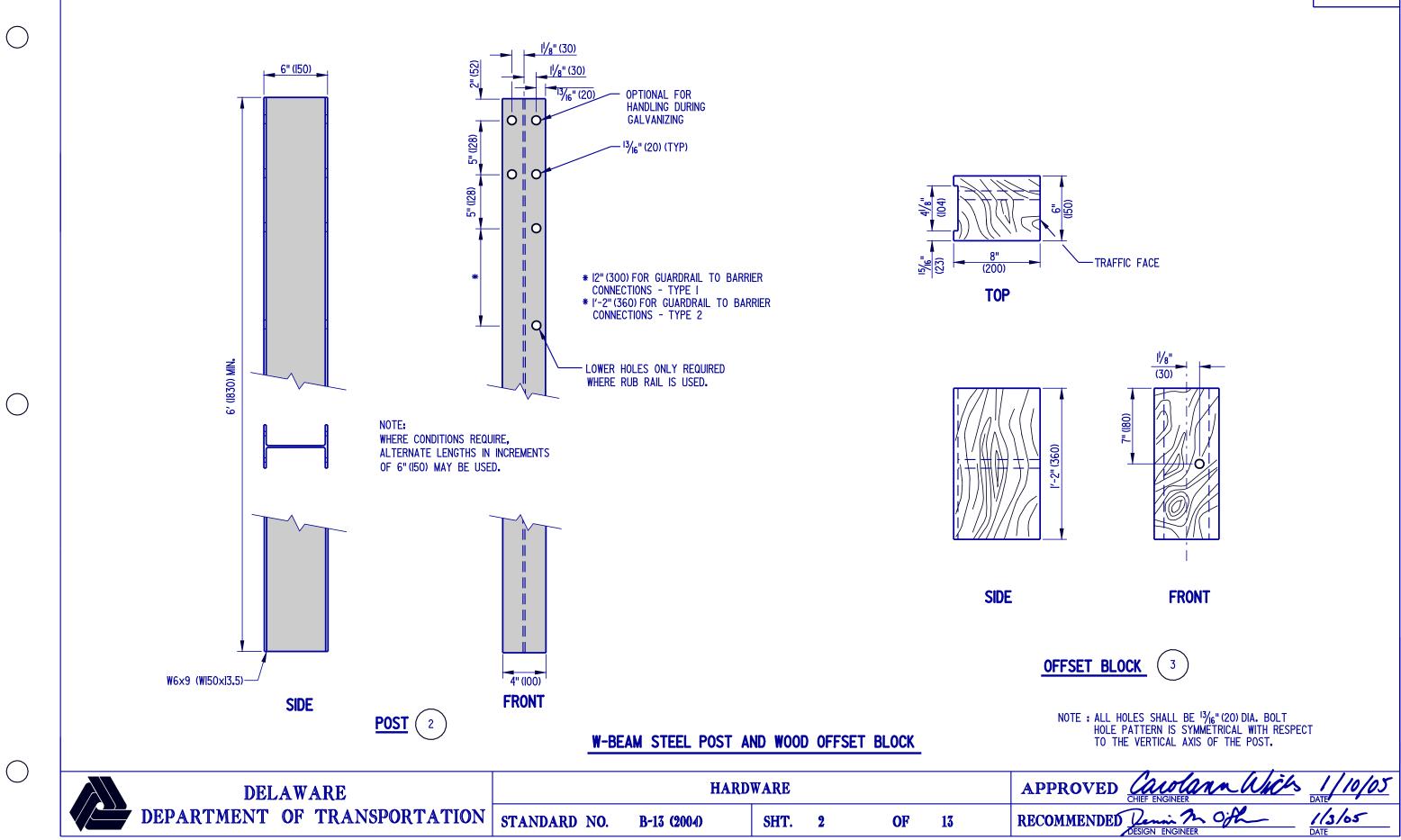
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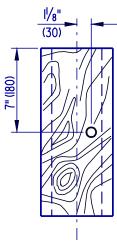
**NOTES:** I). TWO ADDITIONAL  $\frac{3}{4}$ " (20) x  $2\frac{1}{2}$ " (65) SLOTS SHALL BE PROVIDED AT 6'-3" (1905) SPACING FOR BEAM LENGTH OF 26'- $\frac{1}{2}$ " (7940).



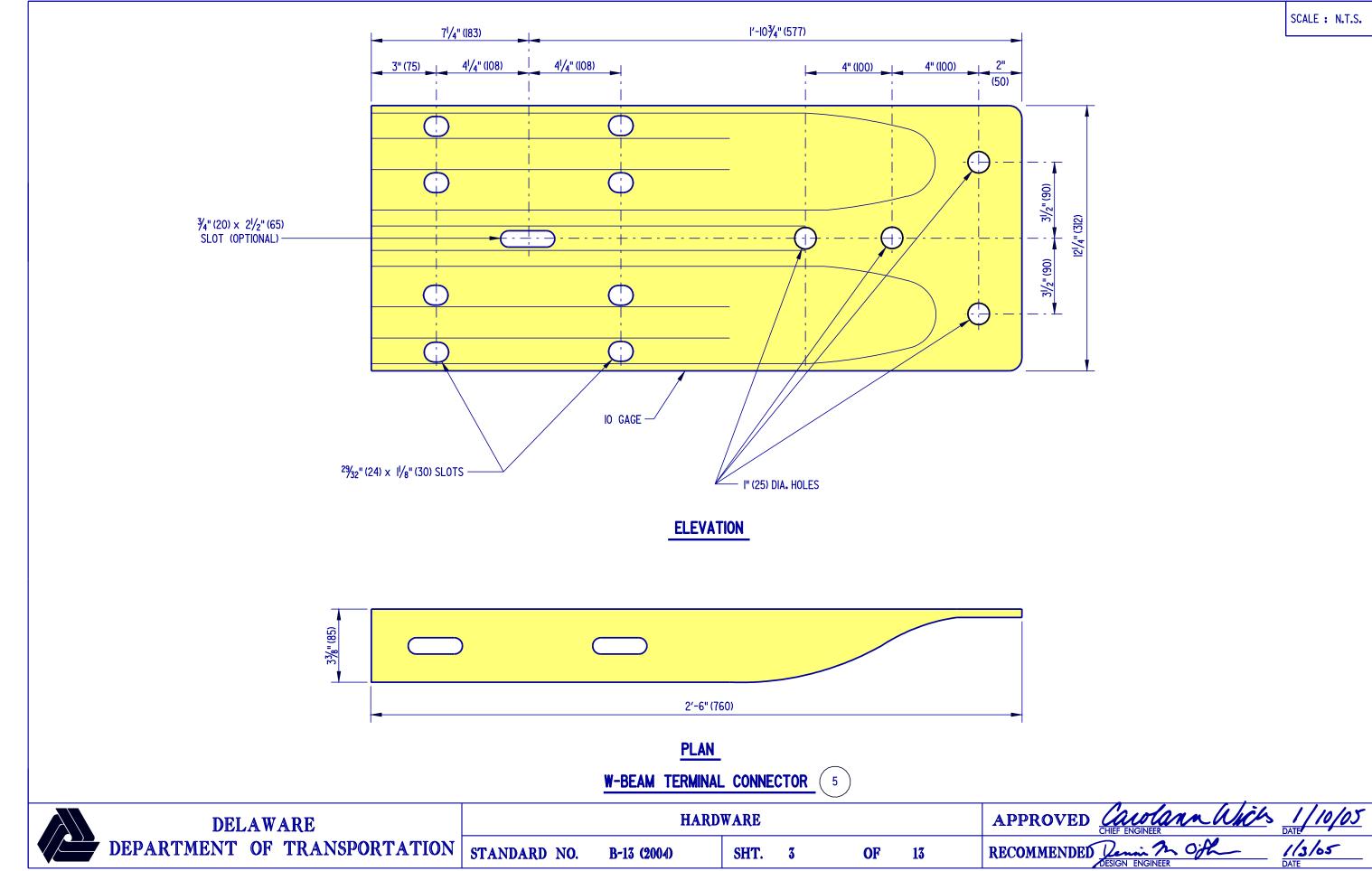
09/21/2004



SCALE : N.T.S.



09/28/2004



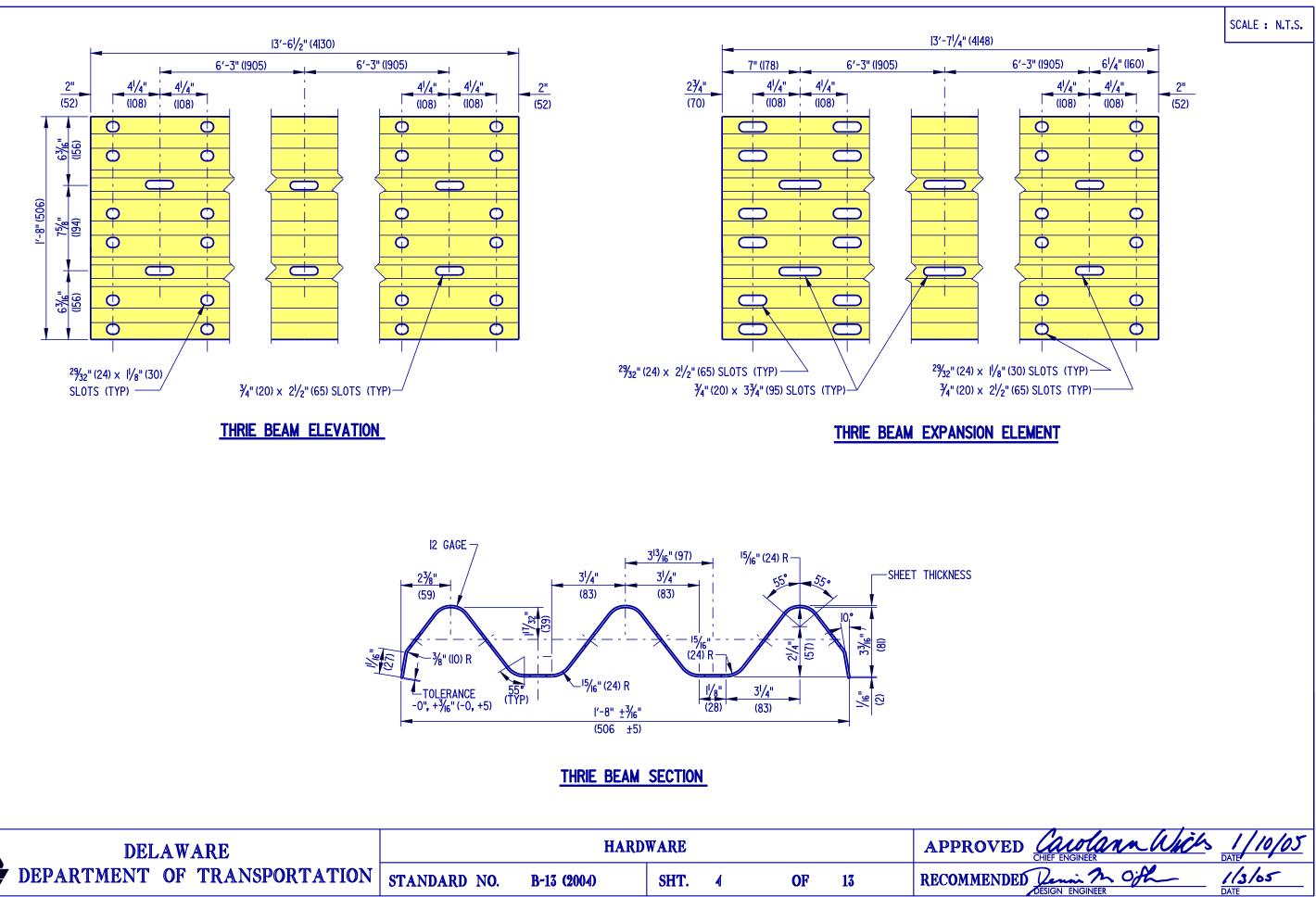
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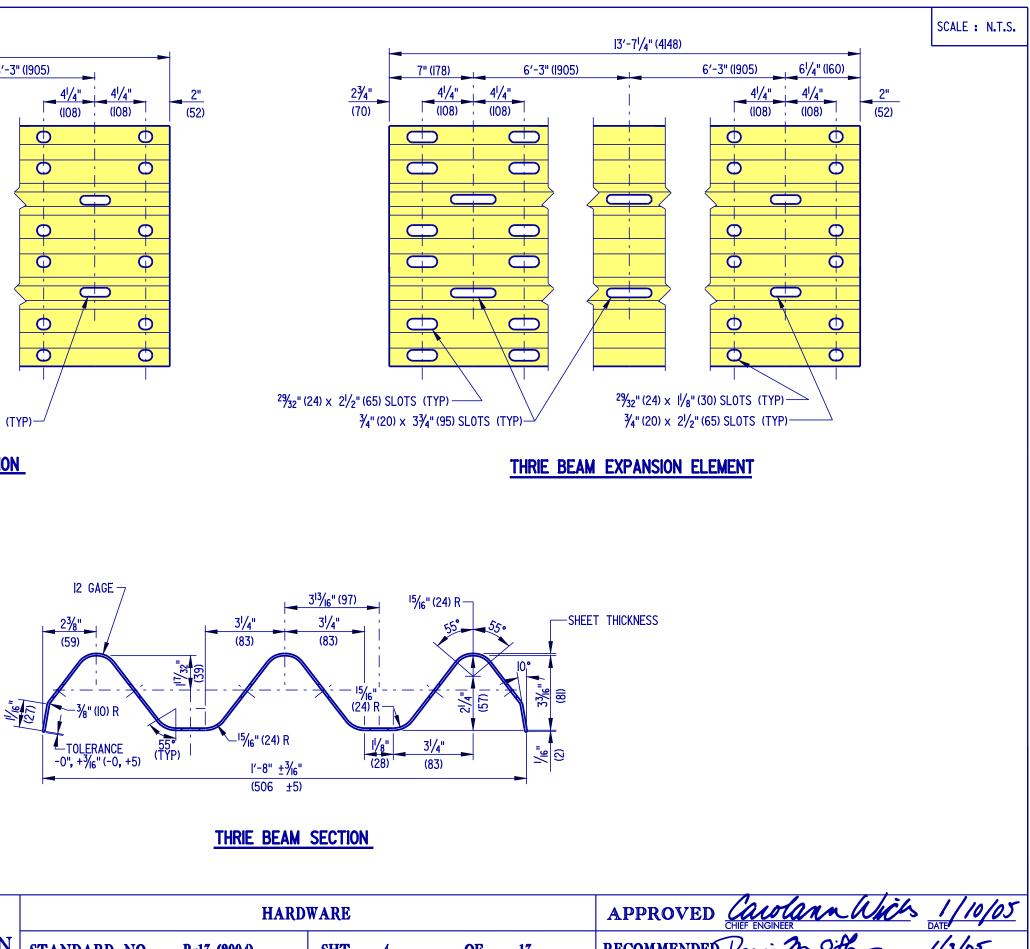
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09/27/2004





DELAWARE		HARD	WARE				APPRO
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	4	OF	13	RECOMME

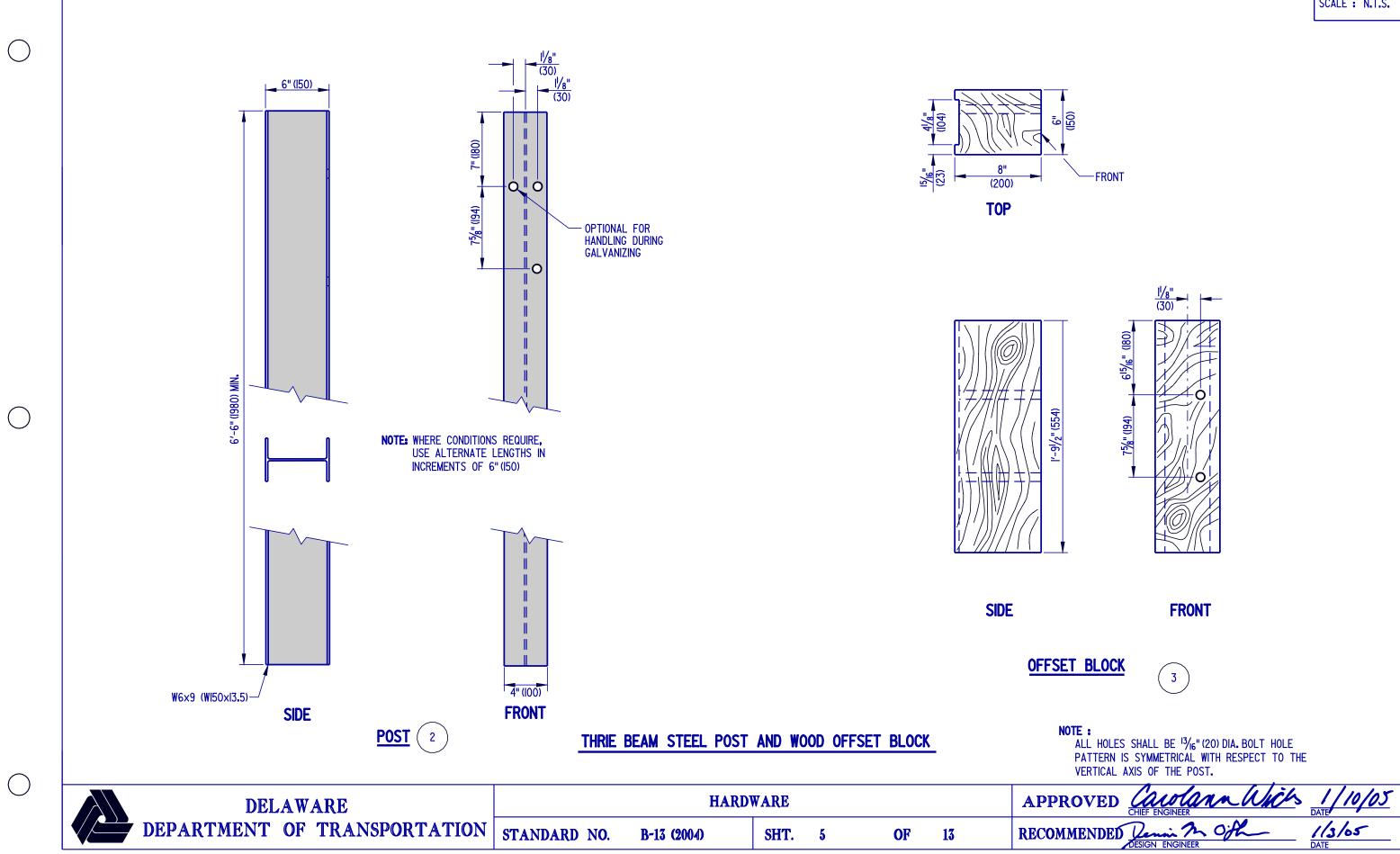
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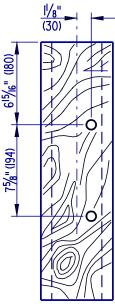
09/28/2004

SIGN ENGINEER



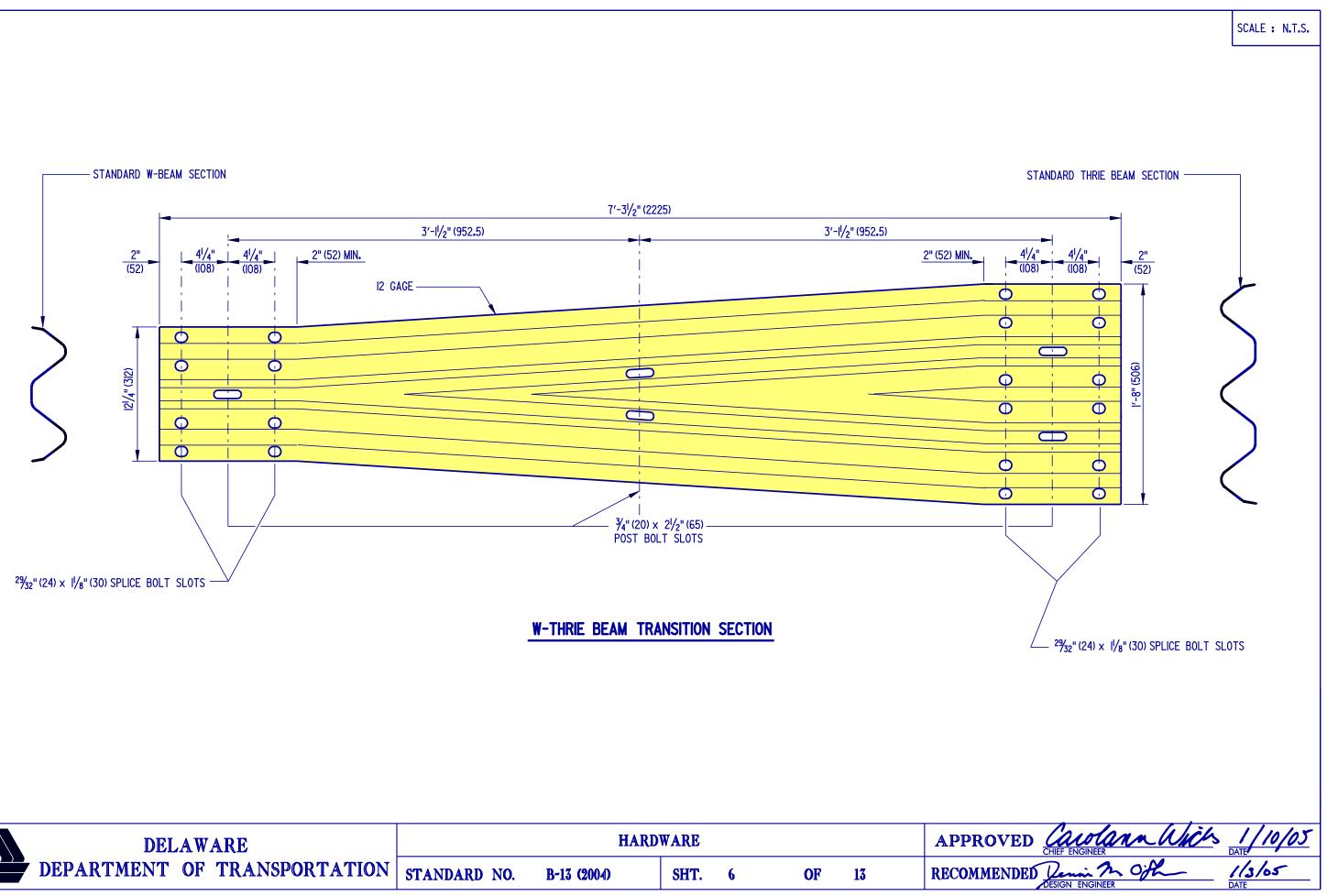
SCALE : N.T.S.







09/28/2004



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DELAWARE		HARDWARE						APPRO
DEPARTMENT (	NT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	6	OF	13	RECOMME

09/10/2004