

ABT-1-9 AMBIENT BREEZE TUNNEL

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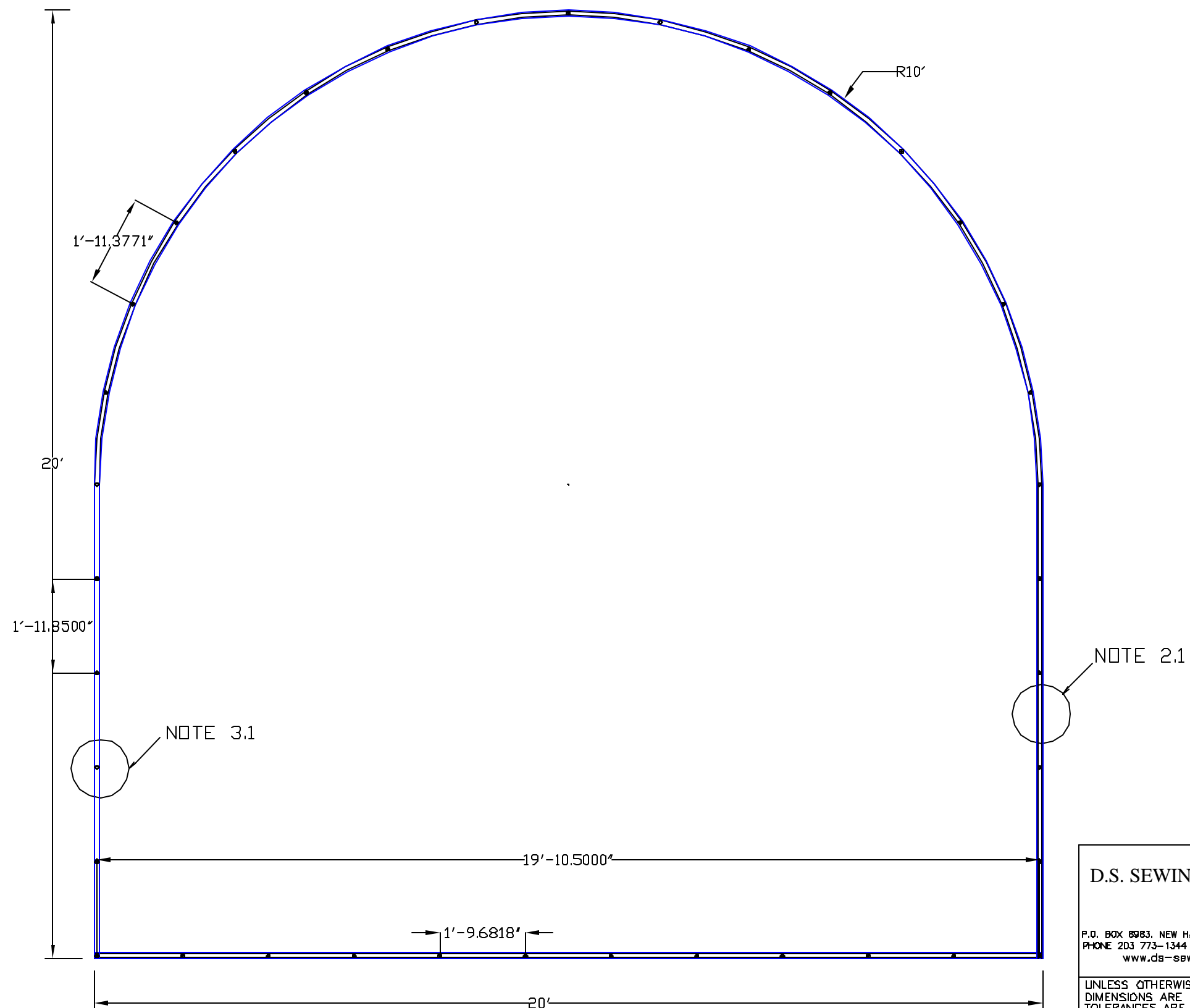
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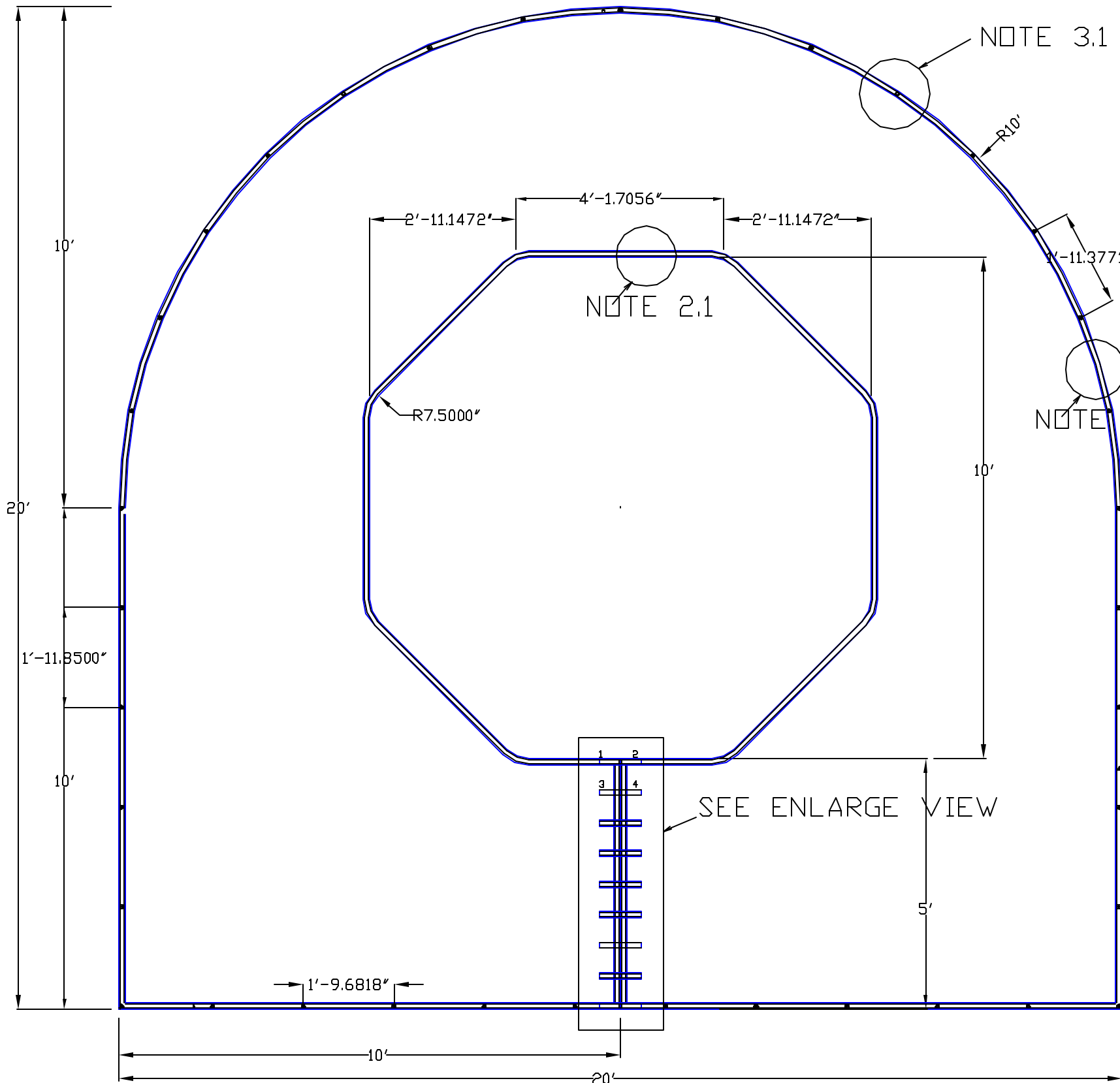
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ALL DRAWINGS ARE IN INCHES	
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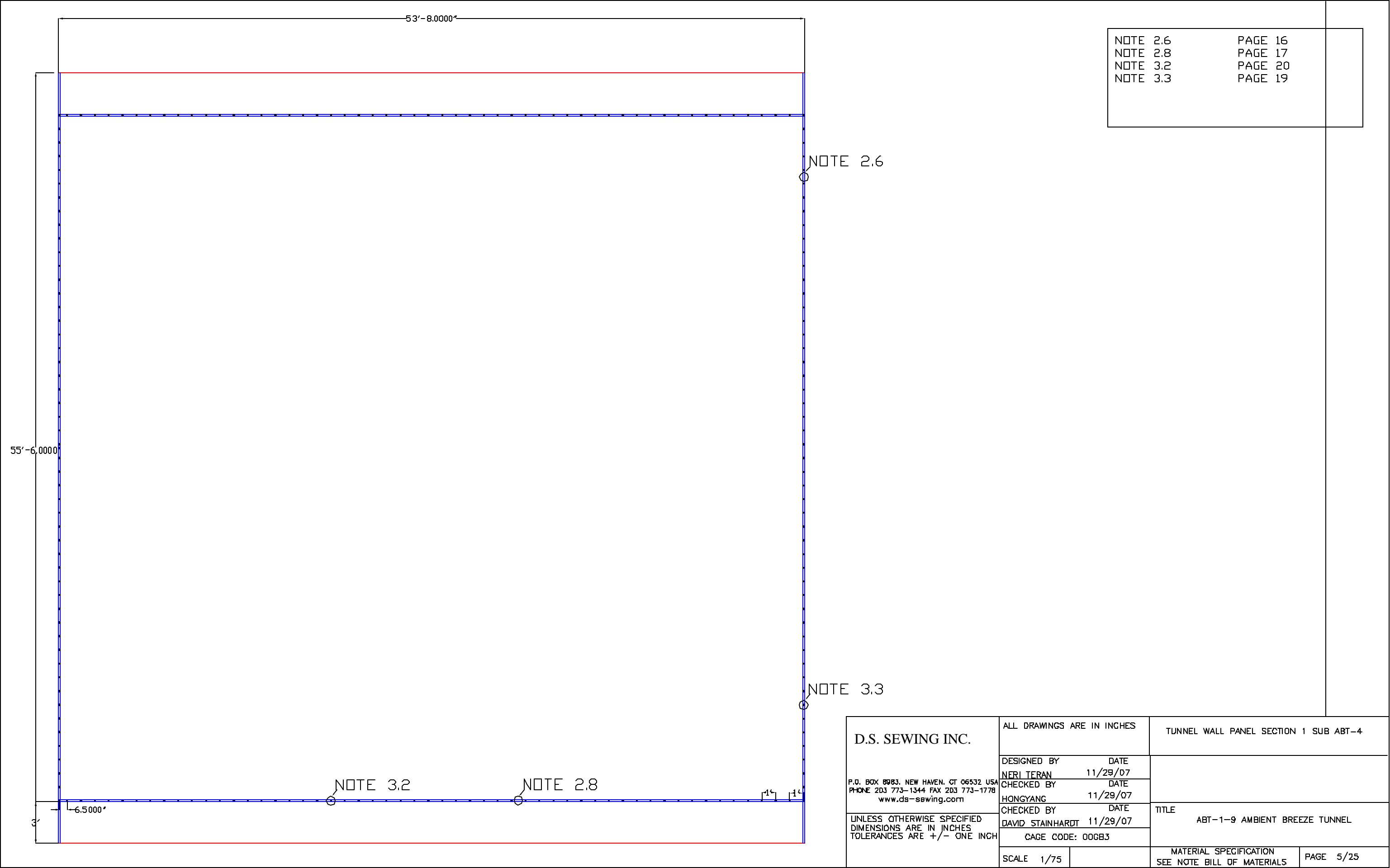
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ABT-1-9 AMBIENT BRE

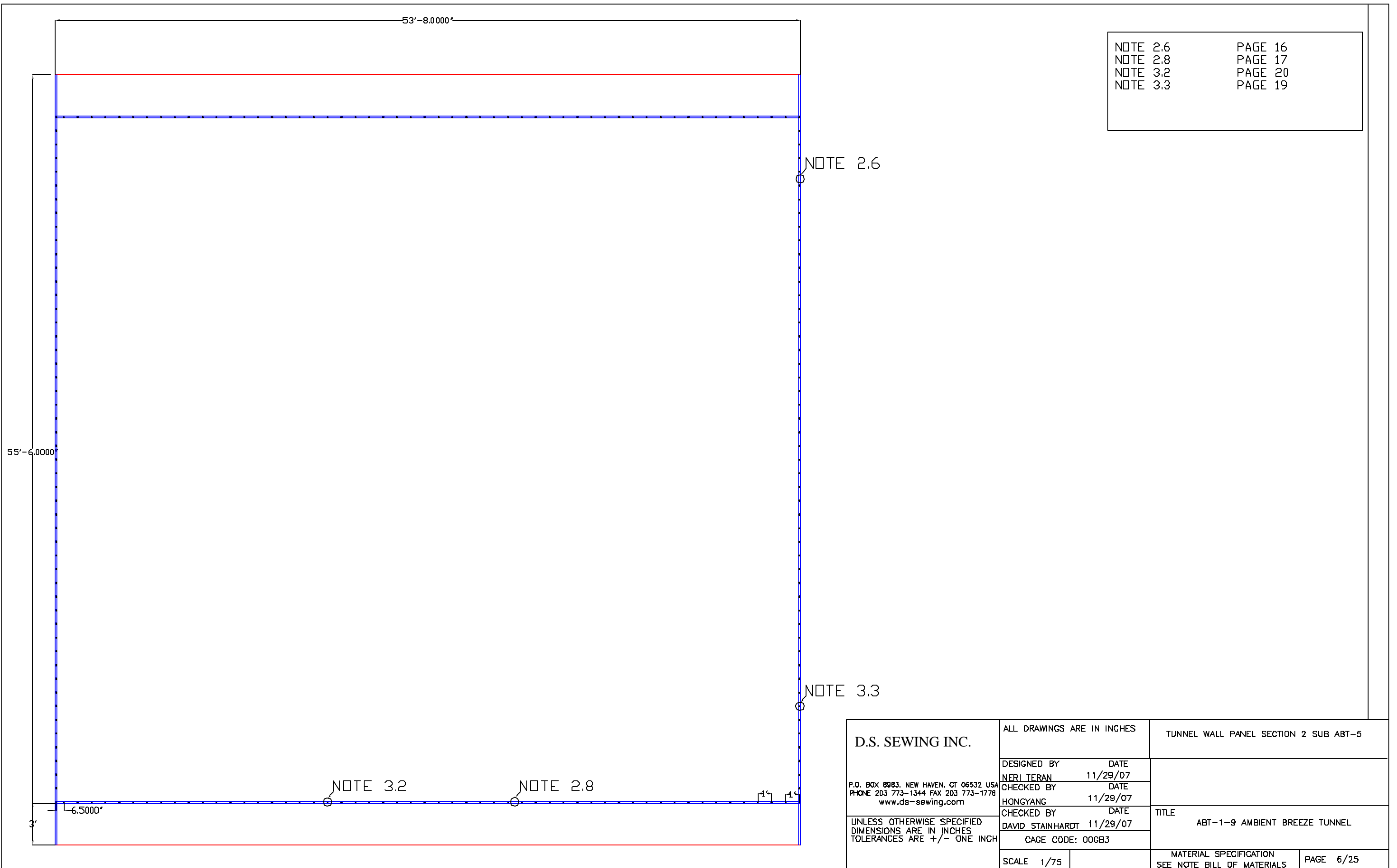
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SEE NOTE BILL OF MATERIALS

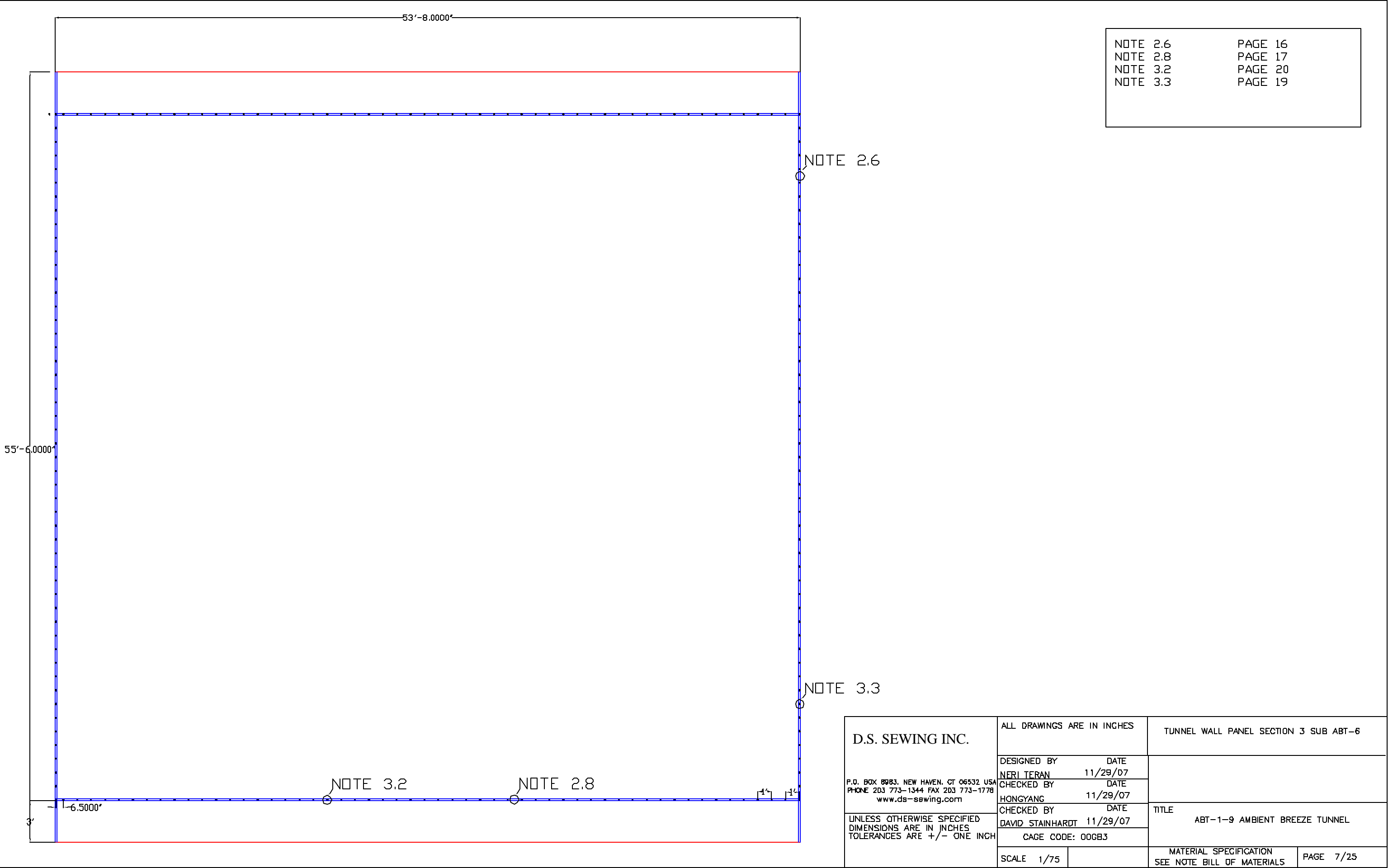
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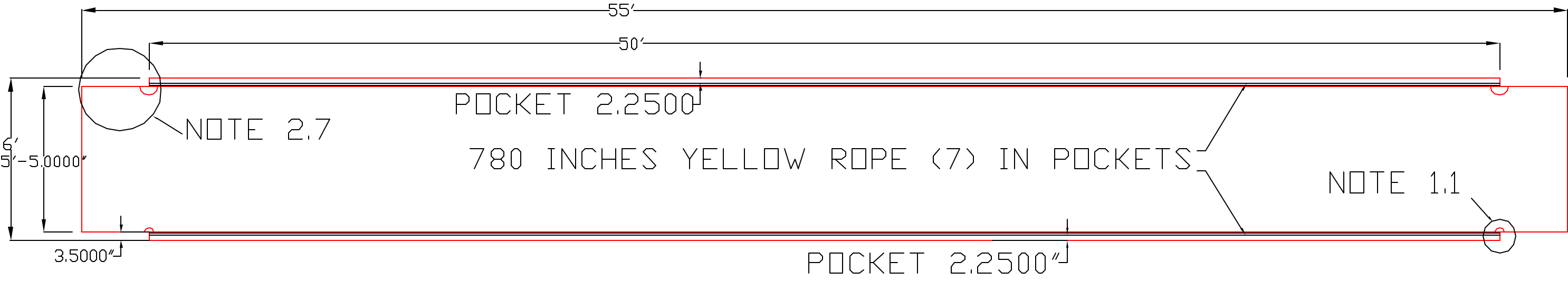




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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
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TUNNEL PATCH KIT SUB ABT-9

VINYL CEMENT (6) PAGE 25
FABRIC (1) PAGE 25

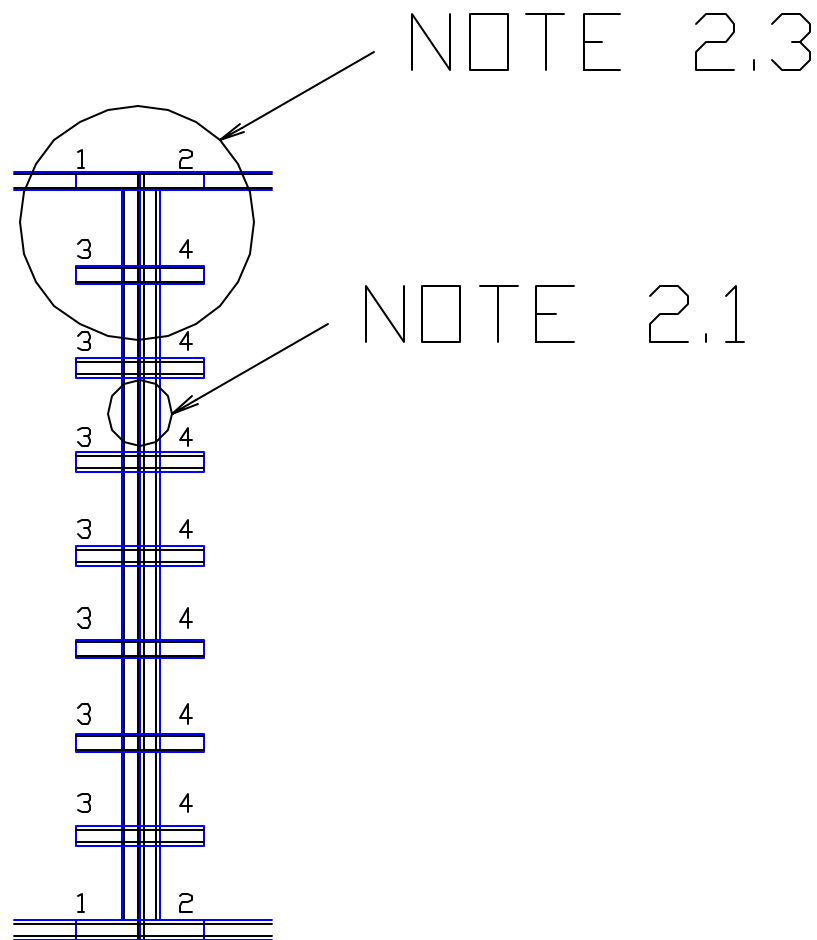
CONSISTS OF:

- (A) 32 OZ CAN OF VINYL CEMENT (6) INCLUDING A BRUSH IN TOP.
- (B) 30 PATCHES (1) OF 3" IN DIAMETER, 15 PATCHES (1) OF 6" IN DIAMETERS, AND 5 PATCHES (1) OF 9" IN DIAMETERS.
- (C) 1 STRIPS OF FABRIC (1) 36" X 72".

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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
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ENLARGED VIEW INLET TARP SUB ABT-2

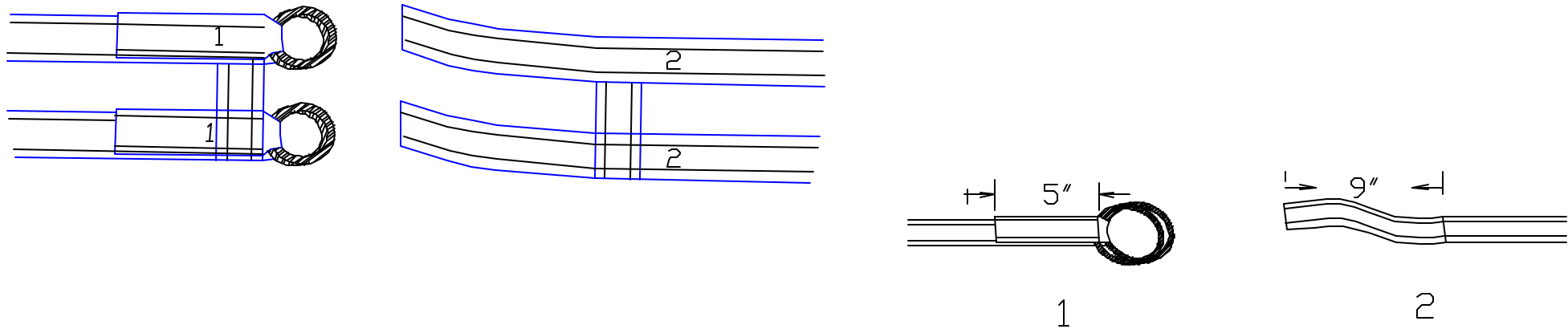
NOTE 2.3 PAGE 14
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NOTE 2.5 STRAP CONSTRUCTION

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O-RING (5)	PAGE 25
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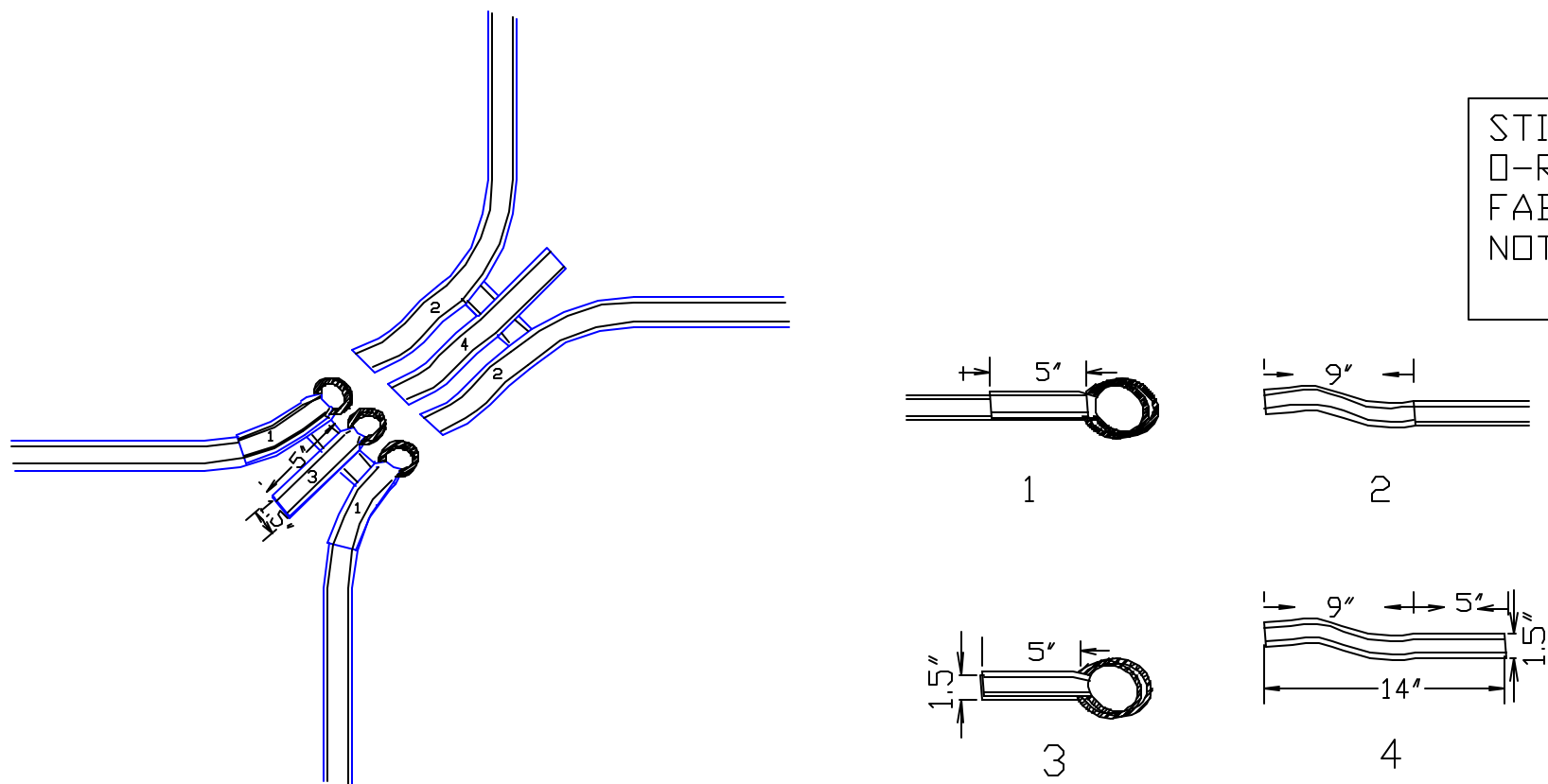


PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTEND 5" AND STICHES (ST1) BACK TO ITSELF AND FORM A LOOP THAT HOLD TWO O-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR O-RINGS (5) TIGHTING.

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	HONGYANG	11/29/07		
	CHECKED BY	DATE	TITLE	
	DAVID STAINHARDT	11/29/07	ABT-1-9 AMBIENT BREEZE TUNNEL	
	CAGE CODE: 00GB3			
	SCALE		MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 12/25

NOTE 2.4 STRAP CONSTRUCTION



STICH (ST1)	PAGE 23
Ø-RING (5)	PAGE 25
FABRIC (1)	PAGE 25
NOTE 2.1	PAGE 15

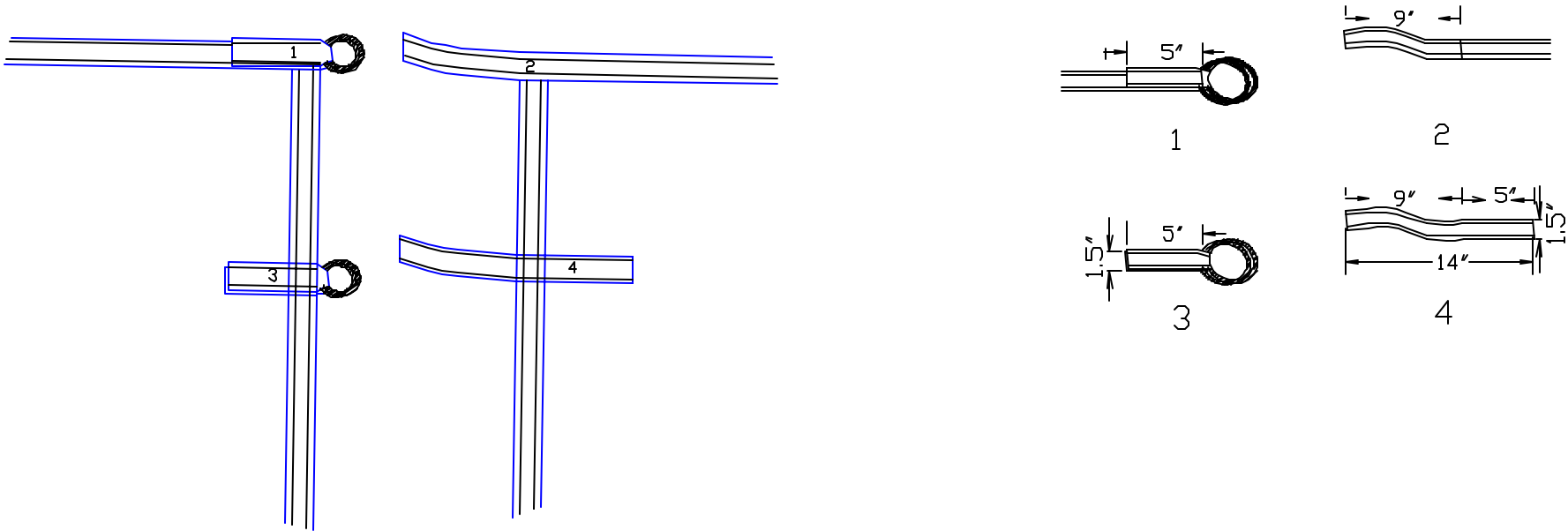
PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO NUMBERS IN THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTEND 5" AND STICHES (ST1) BACK TO ITSELF TO FORM A LOOP THAT HOLD TWO Ø-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR Ø-RING TIGHTING.
#3:	ATTACH TWO Ø-RINGS (5) TO 5" IN LENGTH OF FOLDED BINDING (NOTE 2.1) STICHED (ST1) ON THE FABRIC (1).
#4:	USING 14" IN LENGTH OF BINDING (NOTE 2.1), SEW 5" TO THE FABRIC (1) AND LEAVE A 9" BINDING (NOTE 2.1) BELT FOR Ø-RING (5) TIGHTING.

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	DAVID STAINHARDT 11/29/07			
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NOTE 2.3 STRAP CONSTRUCTION

STICH (ST1)	PAGE 23
O-RING (5)	PAGE 25
FABRIC (1)	PAGE 25
NOTE 2.1	PAGE 15



PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO NUMBERS IN THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTEND 5" AND STICHES (ST1) BACK TO ITSELF TO FORM A LOOP THAT HOLD TWO O-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR O-RING (5) TIGHTING.
#3:	ATTACH TWO O-RINGS (5) TO 5" IN LENGTH OF FOLDED BINDING (NOTE 2.1) STICHD (ST1) ON THE FABRIC (1).
#4:	USING 14" IN LENGTH OF BINDING (NOTE 2.1), SEW 5" TO THE FABRIC (1) AND LEAVE A 9" BINDING (NOTE 2.1) BELT FOR O-RING (5) TIGHTING.

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NOTE 2.1 BINDING EDGE CONSTRUCTION

SEAM (SE2)	PAGE 23
FABRIC (1)	PAGE 25
WEBBING (2.2)	PAGE 25
STITCH (ST1)	PAGE 23

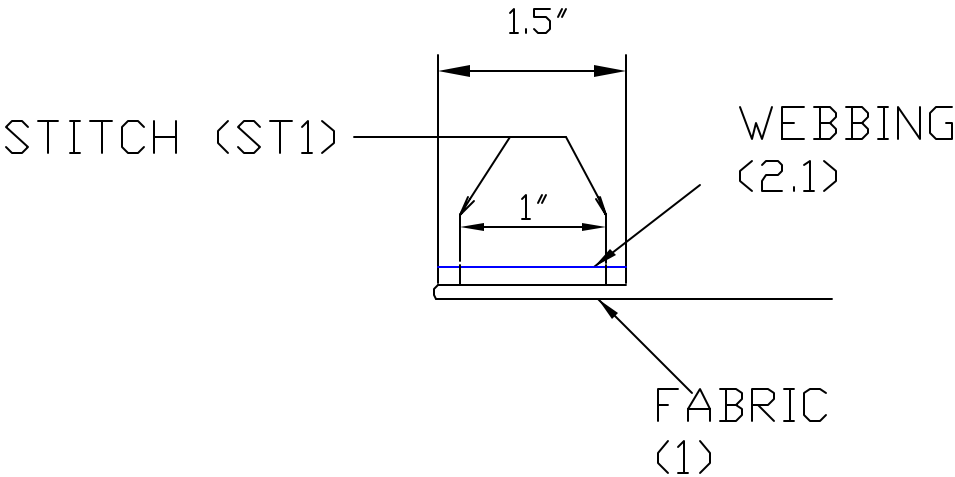
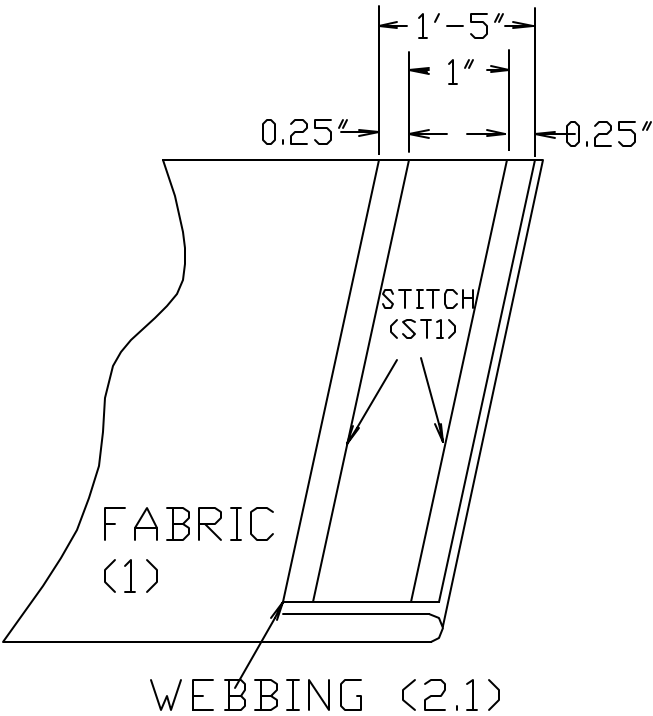


ALL THE EDGES ARE REINFORCED BY BINDING.
THE BINDING CONSTRUCTION SEAM (SE2) SHALL BE FORMED BY FOLDING A BINDING STRIP OVER THE EDGE OF THE FABRIC (1) AND SEAMING THE BINDING WEBBING (2.2) AND FABRIC (1) WITH TWO ROWS OF STICHES (ST1).

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2.6 HEM CONSTRUCTION

SEAM (SE1)	PAGE 23
FABRIC (1)	PAGE 25
WEBBING (2.1)	PAGE 25
STITCH (ST1)	PAGE 23

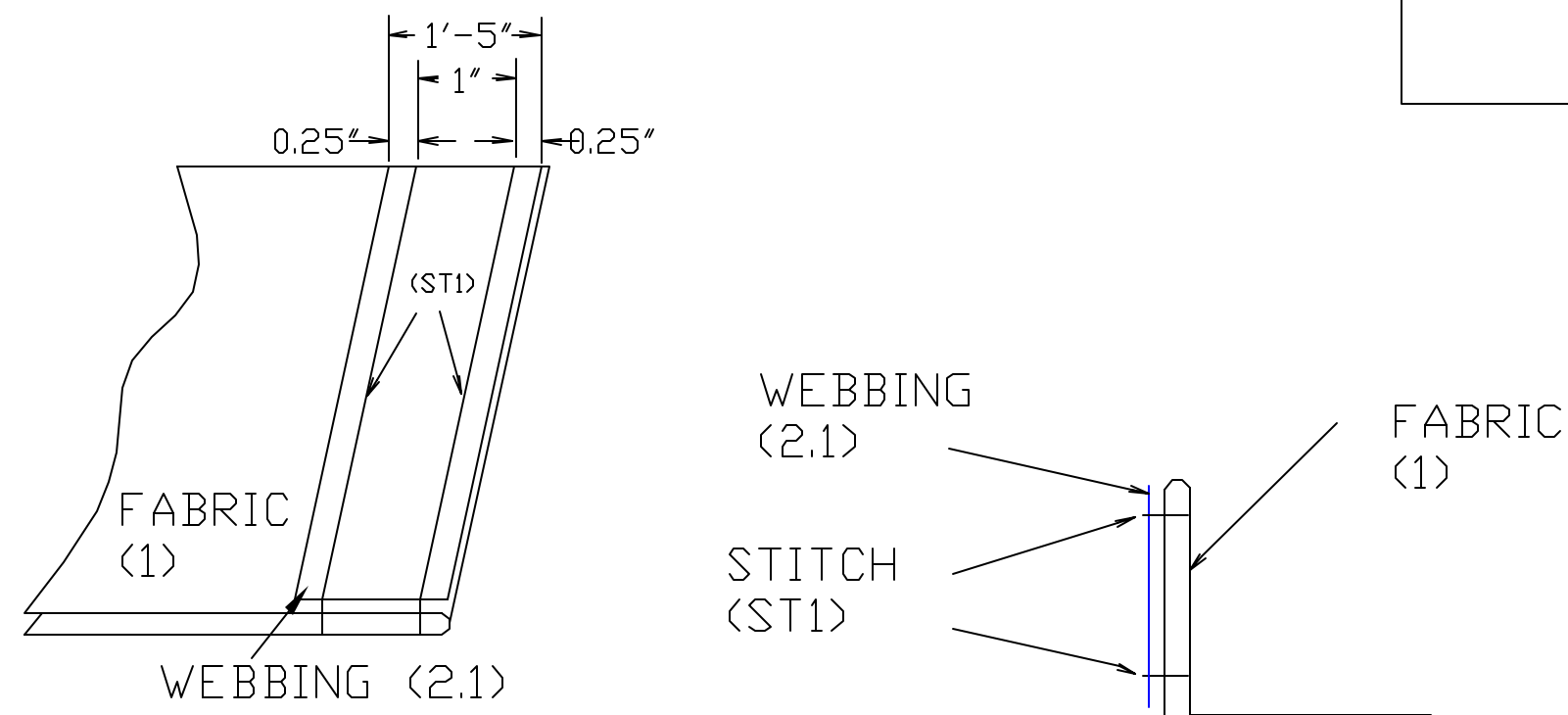


THIS SEAM (SE1) SHALL BE FORMED BY SUPERIMPOSING WEBBING (2.1) OVER THE FOLDED 1.5" EDGE OF THE FABRIC (1) WITH STICH (ST1).

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NOTE 2.8 PINCH PLEAT CONSTRUCTION

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FABRIC (1)	PAGE 25
WEBBING (2.1)	PAGE 25
STITCH (ST1)	PAGE 23

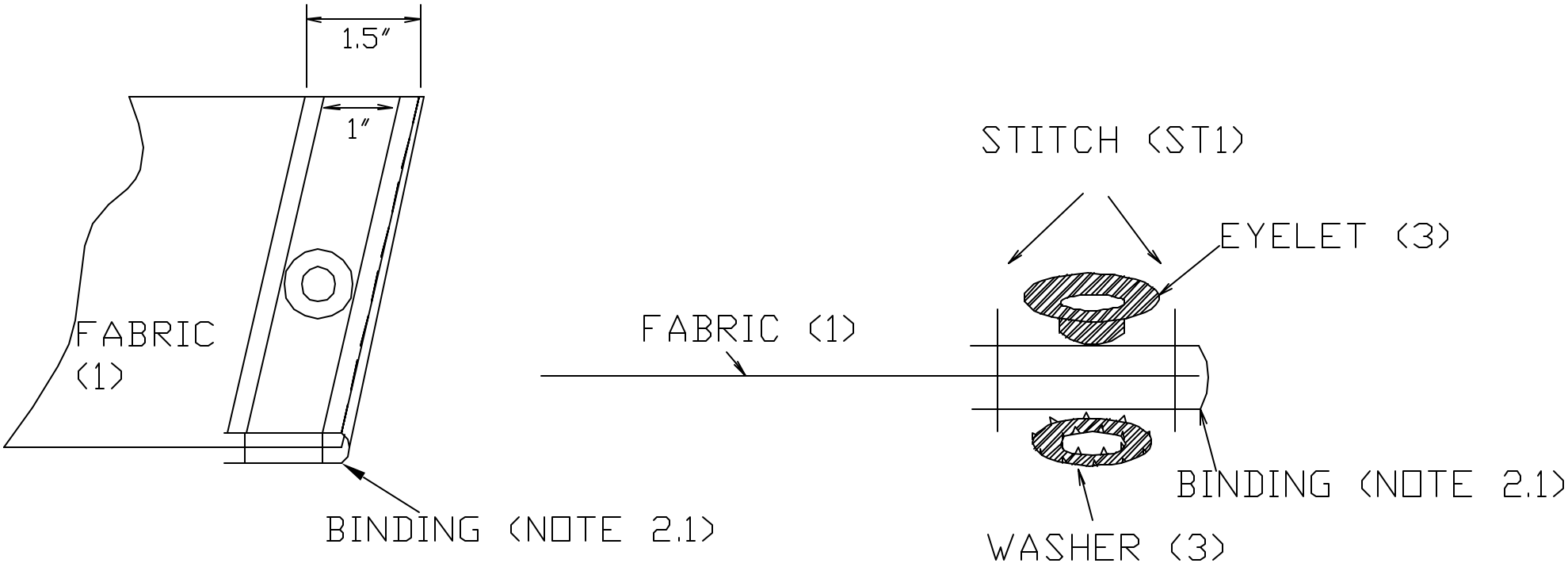


THIS TYPE OF SEAMING (SE1) SHALL BE PRODUCED BY FOLDING FABRIC (1) AND REINFORCED WITH WEBBING (2.1) STICHED (ST1).

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NOTE 3.1 GROMMET INSTALATION ON BINDING

FABRIC (1)	PAGE 25
STITCH (ST1)	PAGE 23
NOTE 2.1	PAGE 15
WASHER (3)	PAGE 25
EYELET (3)	PAGE 25



GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 23.85" AND 23.3771" (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	DESIGNED BY	DATE	TITLE	
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	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
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	CAGE CODE: 00GB3			
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NOTE 3.3 GROMMET INSTALATION ON HEM



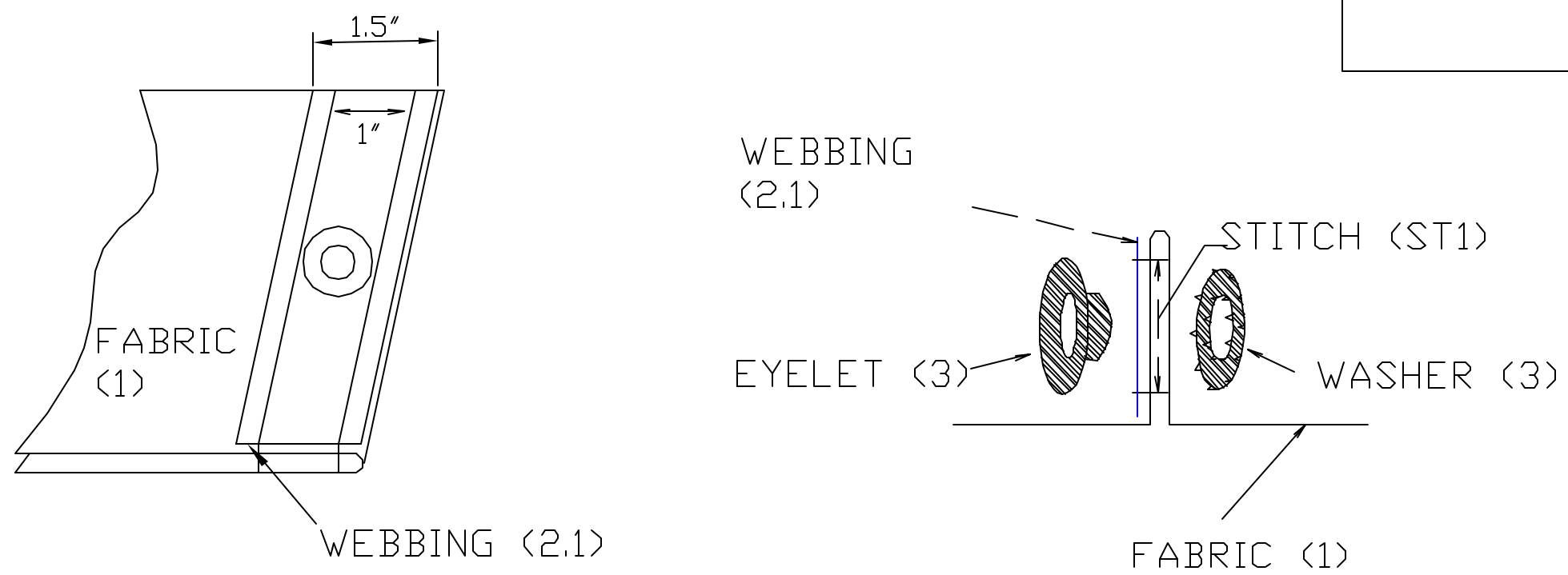
FABRIC (1)	PAGE 25
WEBBING (2.1)	PAGE 25
STITCH (ST1)	PAGE 23
WASHER (3)	PAGE 25
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GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 12" INTERVALS (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	CHECKED BY	DATE	TITLE	
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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
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NOTE 3.2 GROMMET INSTALATION ON PINCH PLEAT

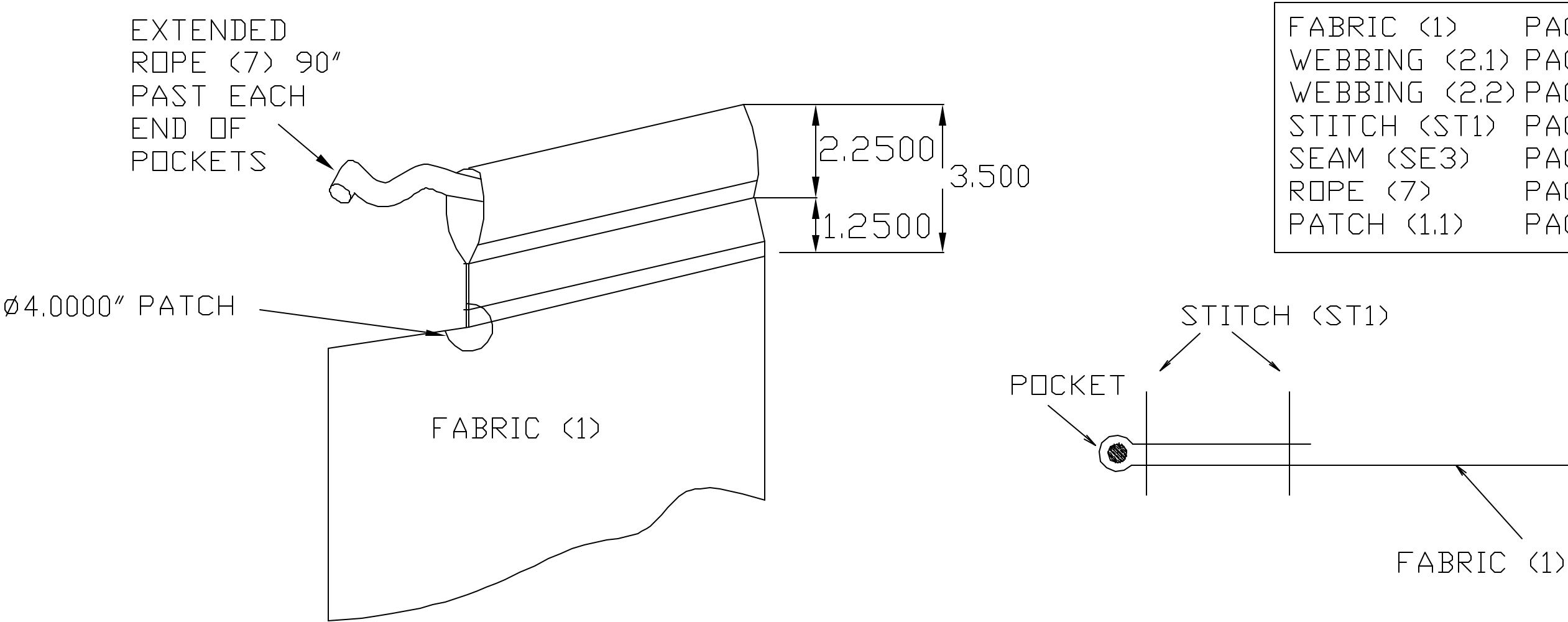
FABRIC (1)	PAGE	25
WEBBING (2.1)	PAGE	25
STITCH (ST1)	PAGE	23
WASHER (3)	PAGE	25
EYELET (3)	PAGE	25



GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 12" INTERVALS (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	DESIGNED BY	DATE	TITLE	
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
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2.7 POCKET & ROPE CONSTRUCTION



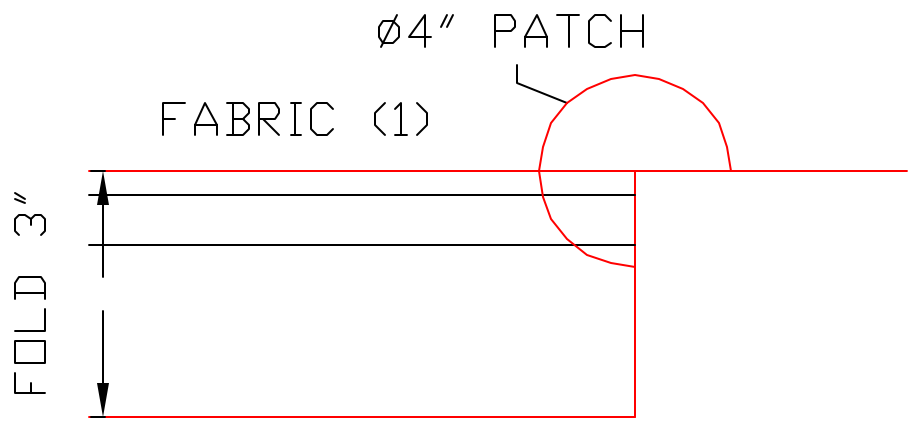
FABRIC (1)	PAGE 25
WEBBING (2.1)	PAGE 25
WEBBING (2.2)	PAGE 25
STITCH (ST1)	PAGE 23
SEAM (SE3)	PAGE 23
ROPE (7)	PAGE 25
PATCH (1.1)	PAGE 22

THIS TYPE OF SEAM (SE3) SHALL BE MADE BY FOLDING 3.5" OF THE FABRIC (1) AND REINFORCED WITH WEBBING (2.1) AT 2" FROM THE EDGE AND STICHED (ST1).

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	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	TITLE	
	DAVID STAINHARDT	11/29/07		
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NOTE 1.1 PATCH REINFORCEMENT CONSTRUCTION

FABRIC (1) PAGE 25



PATCH REINFORCEMENT SHALL BE MADE BY HEAT-SEAL A 4" DIAMETER FABRIC (1), PLACING THE CENTER OF THE FABRIC (1) RIGHT IN THE INSIDE CORNER WHERE THE TWO EDGES OF THE FABRIC (1) MEET.

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	CHECKED BY	DATE	TITLE	
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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
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STITCH

<ST1> TYPE: ASTM 301-2
LOCKED STITCHED
FIVE STITCHES PER INCH
NEEDLE SET 1"

SEAM

<SE1> TYPE: ASTM SS_s-2
PINCH PLEAT CONSTRUCTION
HEM CONSTRUCTION

<SE2> TYPE: ASTM BS_a-2
BINDING CONSTRUCTION

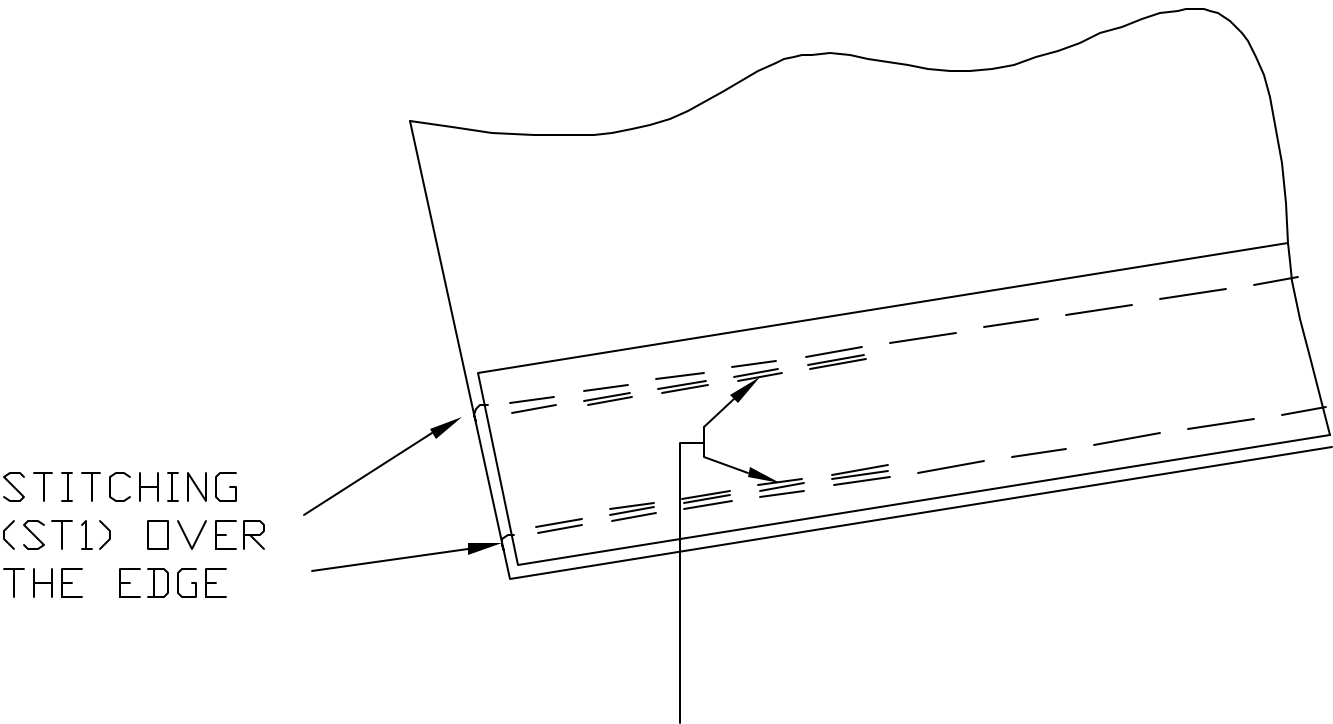
<SE3> TYPE: ASTM SS_a_u-2 AND FOLD ASTM EF_a-2
POCKET CONSTRUCTION

ASTM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS

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TACK

IN GENERAL, ALL THE END OF WEBBING (2.1, 2.2) AND BINDING (NOTE 2.1) SHOULD BE TACKED BY STITCHING (ST1) OVER THE EDGE OF THE MATERIALS AND THEN REVERSING 5 STICHES (ST1) AND FORWARDING 4 STICHES (ST1).



KEY:
DASH LINE REPRESENTS
STICHES ONLY FOR TACK

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BILL OF MATERIALS

FABRIC (1)

BASE TYPE FABRIC WEIGHT	7.5 oz./yd2	ASTM D751
FINISHED COATED WEIGHT	28 +2/-1 oz./YD2	ASTM D751
TONGUE TEAR	275/275 lbf	ASTM D751
TRAPEZOID TEAR	85/85 lbf	ASTM D751
GRAB TENSILE	700/700lbf	ASTM D751
STRIP TENSILE	515/515 lbf/in.	ASTM D751 Procedure B
ADHESION (minimum)	10 lbf/in.	ASTM D751 Dielectric Weld
HIDROSTATIC RESISTANCE	500psi	ASTM D751 Procedure A
LOW TEMPERATURE	LTC Pass @ -40°F	ASTM D2136
FLAME RESISTANCE		UL214, NFPA 701, FTMS 191 Method 5903 -2 second Flameout ASTME84 - flame spread Index < 25, smoke development rating < 450

WEBBING (2)

	1	2	METHOD
TOTAL WIDTH	1.5"	3"	5020
THICKNESS	.04	.04	5030
WEIGHT OZ/YD	1.892	1.892	5040
GROUND WARP COUNT	294	294	5050
BINDER WARP COUNT	70	70	5050
YARN FILLING/WEFT	96	96	5050
BREAKING STRENGTH	4900	4900	4108
NON-FIBROUS MATERIAL	.94	.94	2611
COLORFAST TO DRY CRACKING	4.5	4.5	5651.1
COLORFAST TO WET CRACKING	3.5	3.5	5651.1
CURVATURE	.0781	.0781	4.5.1
FLAME RESISTANSE			NFPA 701 FLAME TEST CHAR LENGTH -1/16", 1/32", 0 FLAME DRIPPINGS -0, 0, 0

VINYL CEMENT (6)

METHYL ETHYL KETONE:	46%
ACETONE:	21.5%
TOLUENE:	19%
OTHERS:	13.5%

ROPE (7)

#8 3/8 DIAMOND HOLLOW BRAID MONOFILAMENT POLYPROPYLENE
UV STABALIZED
MILDEW AND ROT RESISTANT

GROMMETS (3)

#2 ROLLED RIM	
EYELET	
FLANGE OD	22.4 mm
BARREL LENGHT	6.1 mm
BARREL OD	12.2 mm
ID WHEN SET	11.4 mm

WASHER	
OD	22.2 mm
ID	12.9 mm
OVERALL HEIGHT	4.6 mm

THREAD (4)

A HIGH TENACITY PLIED AND TWISTED BONDED
FILAMENT POLYESTER SEWING THERAD

PLY 3		
TICKET SIZE	DB 207	
TEX SIZE	210	
SIZE	2644	STEX
WITH LUBE	2380	DENIER
STRENGTH	31.9	LBS
(AVERAGE)	14.470	GRAMS
ELONGATION	15%	

O-RING (5)

SIZE OD	1.354"
SIZE ID	1"
WIRE DIA	0.177"
MATERIAL	WELDED STEEL
FINISH	NICHEL
WEIGHT/100	2.8 LBS

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