

ADDENDUM TWO, REVISED ATTACHMENT D

Date: November 3, 2015

To: All Bidders

From: Teresa Fleming/Connie Heinrichs, Buyers
AS Materiel State Purchasing

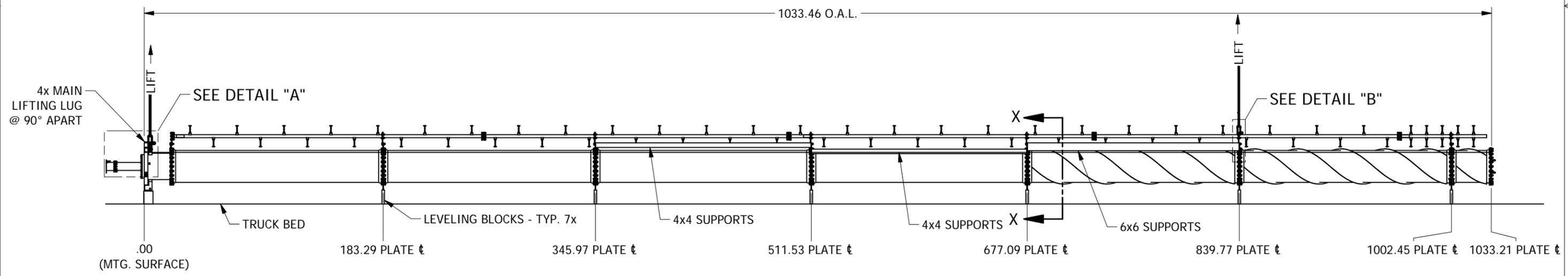
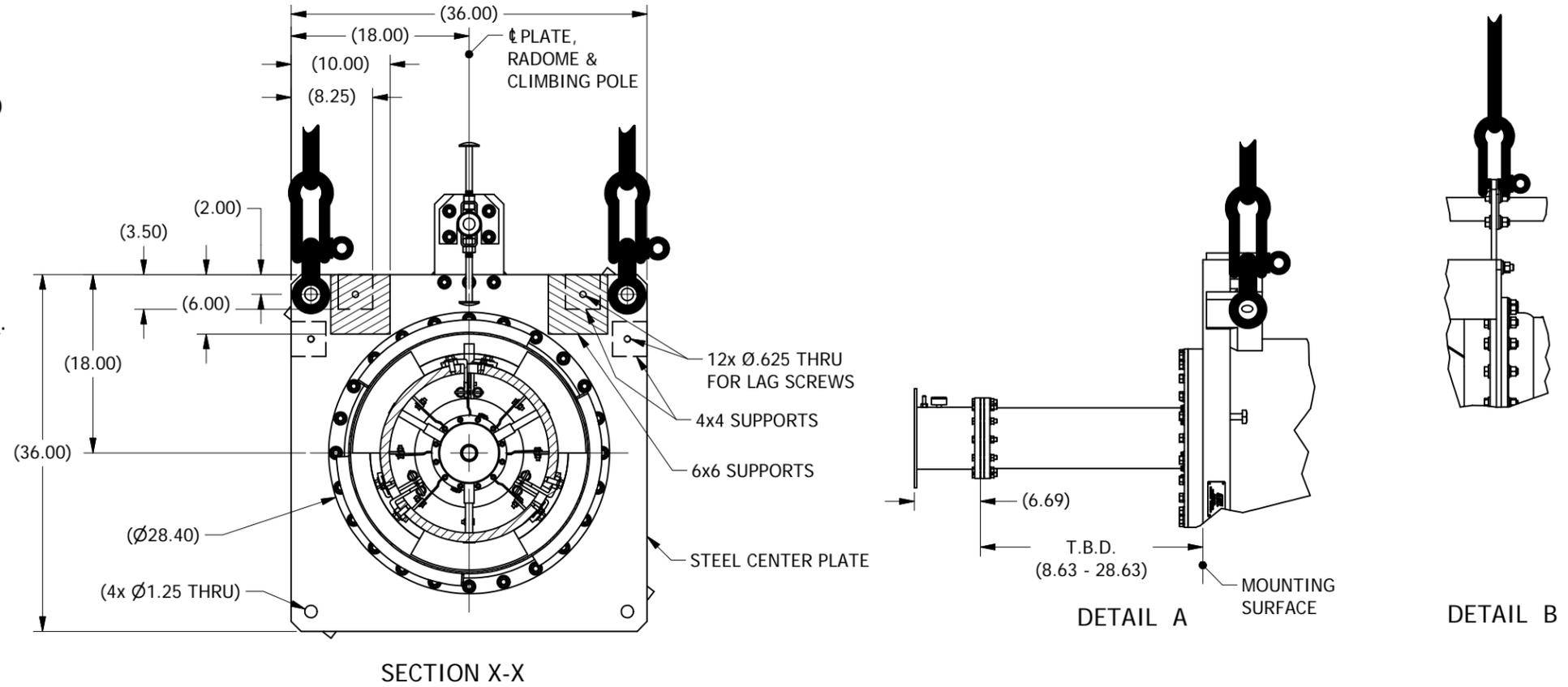
RE: Addendum for Request for Proposal Number RFP 5152Z1
to be opened Monday, December 14, 2015 at 2:00 p.m. Central Time

Attachment D is hereby replaced and superseded as follows.

This addendum will become part of the proposal and should be acknowledged with the Request for Proposal.

FIGURE #1
REMOVAL FROM TRUCK

INSURE THAT THE 4 x 4 AND 6 X 6 LIFT SUPPORTS INSTALLED BY ERI INC., USING 1/2 LAG BOLTS, ARE SECURE. LIFT ANTENNA FROM THE TRUCK BED USING STEEL CENTER PLATE AND MAIN LIFTING LUGS AT BASE, NOT THE RADOMES, AT THE LOCATIONS INCIDCATED. TO PREVENT FROM ROLLING, LIFT FROM THE CENTER PLATE AS SHOWN IN VIEW "X-X". DO NOT LIFT ANTENNA BY FIBERGLASS RADOMES, **DAMAGE WILL OCCUR.**



PROJECT NO.	33981/1	
ERI APPROVAL	NAME	DATE
DRAWN BY	G.A.G.	11/2/2015
DRAFTING		
DESIGN MGR.	K. SCHARP	11/2/2015
ENG.		
MANUF.		
EXT. APPROVAL		
SUPERCEDES PART NO.		
FILE NAME:	LD33981-1.1.idw	

ERI ELECTRONICS RESEARCH INC. ESTABLISHED 1943

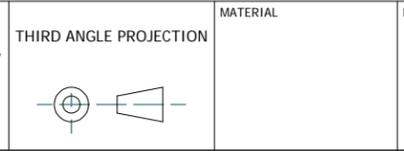
7777 GARDNER Rd.
CHANDLER, IN
47610-9219
PHONE: (812) 925-6000
FAX: (812) 925-4030

TITLE:
LIFTING DETAILS
33981 - ALLIANCE, NE - CH. 13

SIZE	CAGE CODE	DWG NO.	REV.
B	OZNS1	LD33981-1	
SCALE:	1:50	WEIGHT:	N/A
		SHEET:	1 OF 4



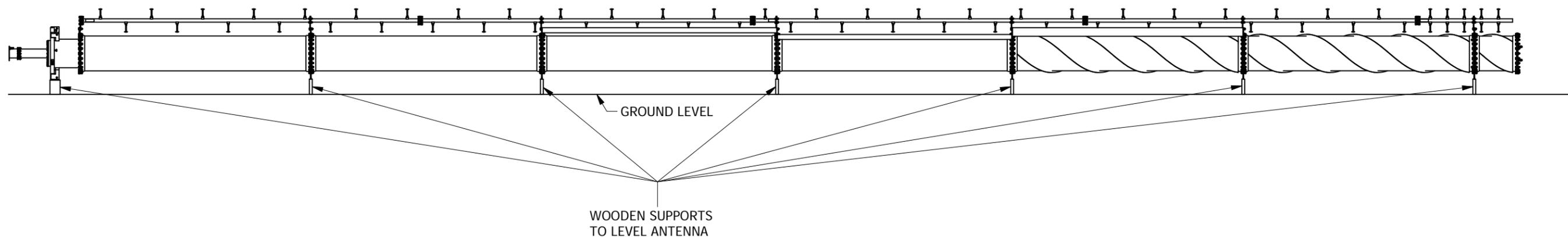
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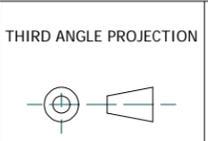
MATERIAL	FINISH
TOLERANCES OVERALL-NOT CUMULATIVE 1 PLACE DECIMAL ± .1 UNLESS OTHERWISE SPECIFIED, 2 PLACE DECIMAL ± .03 ALL DIMENSIONS ARE IN INCHES AND APPLICABLE AT 20°C (68°F) 3 PLACE DECIMAL ± .010 ANGULAR ± .5° FRACTIONAL ± 1/16"	
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994	

FIGURE #2

PLACE ALL ANTENNA RADOME JOINTS WITH THE STEEL CENTER PLATES ON WOODEN SUPPORTS AS SHOWN. ANTENNA SHOULD BE LEVEL TO PREVENT DAMAGE. USE SUPPORTS HIGH ENOUGH TO AVOID DAMAGING THE RADOMES AND TO ALLOW FOR ELECTRICAL GROUND TEST OF THE ANTENNA. PLATE RESTING 6.0 INCHES ABOVE THE GROUND IS SUFFICIENT.



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 AND APPLICABLE AT 20°C (68°F) ANGULAR ± .5°
 FRACTIONAL ± 1/16"
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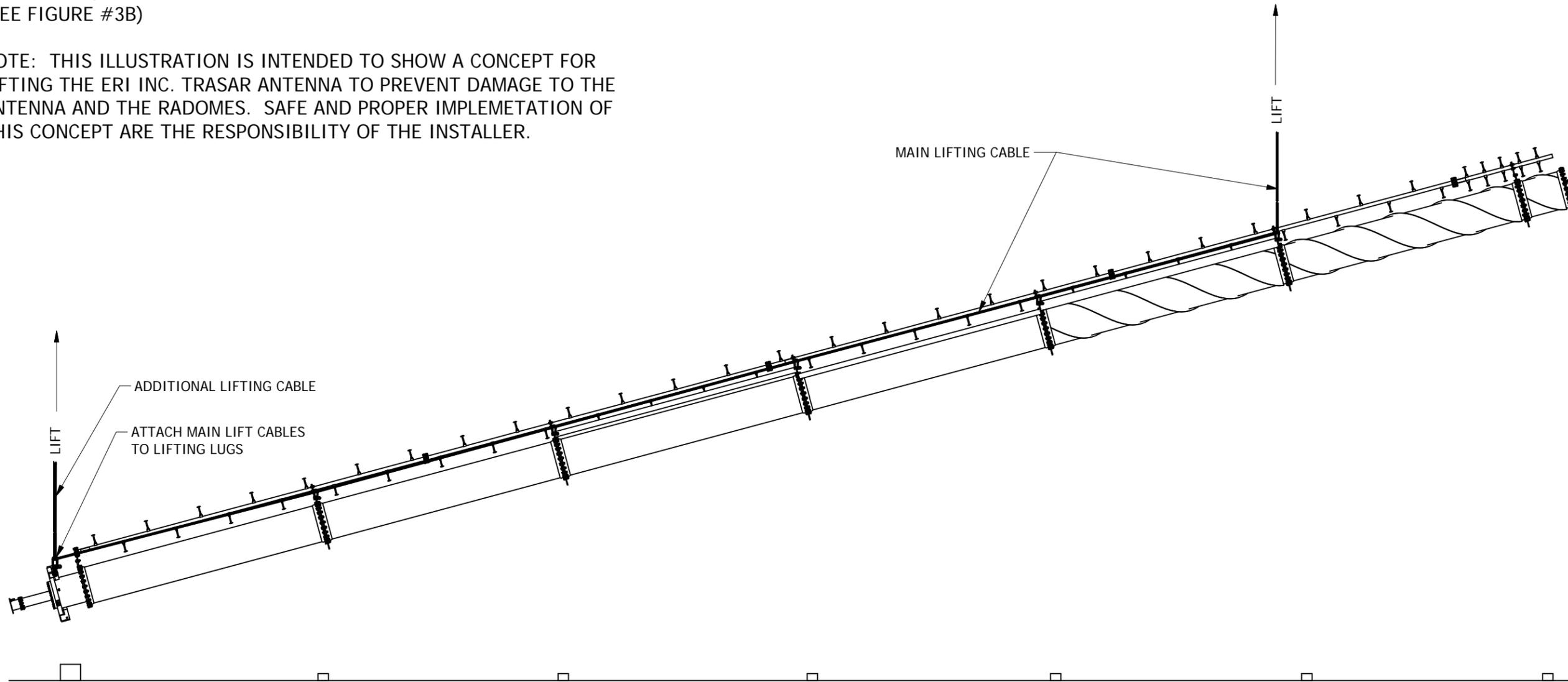
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DRAFTING		
DESIGN MGR.	K. SCHARP	11/2/2015
ENG.		
MANUF.		
EXT. APPROVAL		
SUPERCEDES PART NO.		
FILE NAME: LD33981-1.2.idw		

		ELECTRONICS RESEARCH INC. ESTABLISHED 1943		7777 GARDNER Rd. CHANDLER, IN 47610-9219 PHONE: (812) 925-6000 FAX: (812) 925-4030
TITLE: LIFTING DETAILS 33981 - ALLIANCE, NE - CH. 13				
SIZE B	CAGE CODE OZNS1	DWG NO. LD33981-1	REV.	
SCALE: 1:50	WEIGHT: N/A	SHEET: 2 OF 4		

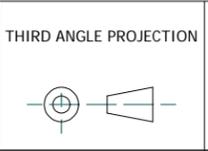
FIGURE #3A

WHEN LIFTING THE ANTENNA FOR INSTALLATION, LIFT AS SHOWN TO PREVENT DAMAGE TO THE BASE OF THE ANTENNA. WHEN THE ANTENNA IS VERTICAL, THE ADDITIONAL BASE LIFTING CABLE CAN BE REMOVED. (SEE FIGURE #3B)

NOTE: THIS ILLUSTRATION IS INTENDED TO SHOW A CONCEPT FOR LIFTING THE ERI INC. TRASAR ANTENNA TO PREVENT DAMAGE TO THE ANTENNA AND THE RADOMES. SAFE AND PROPER IMPLEMENTATION OF THIS CONCEPT ARE THE RESPONSIBILITY OF THE INSTALLER.



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 INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994

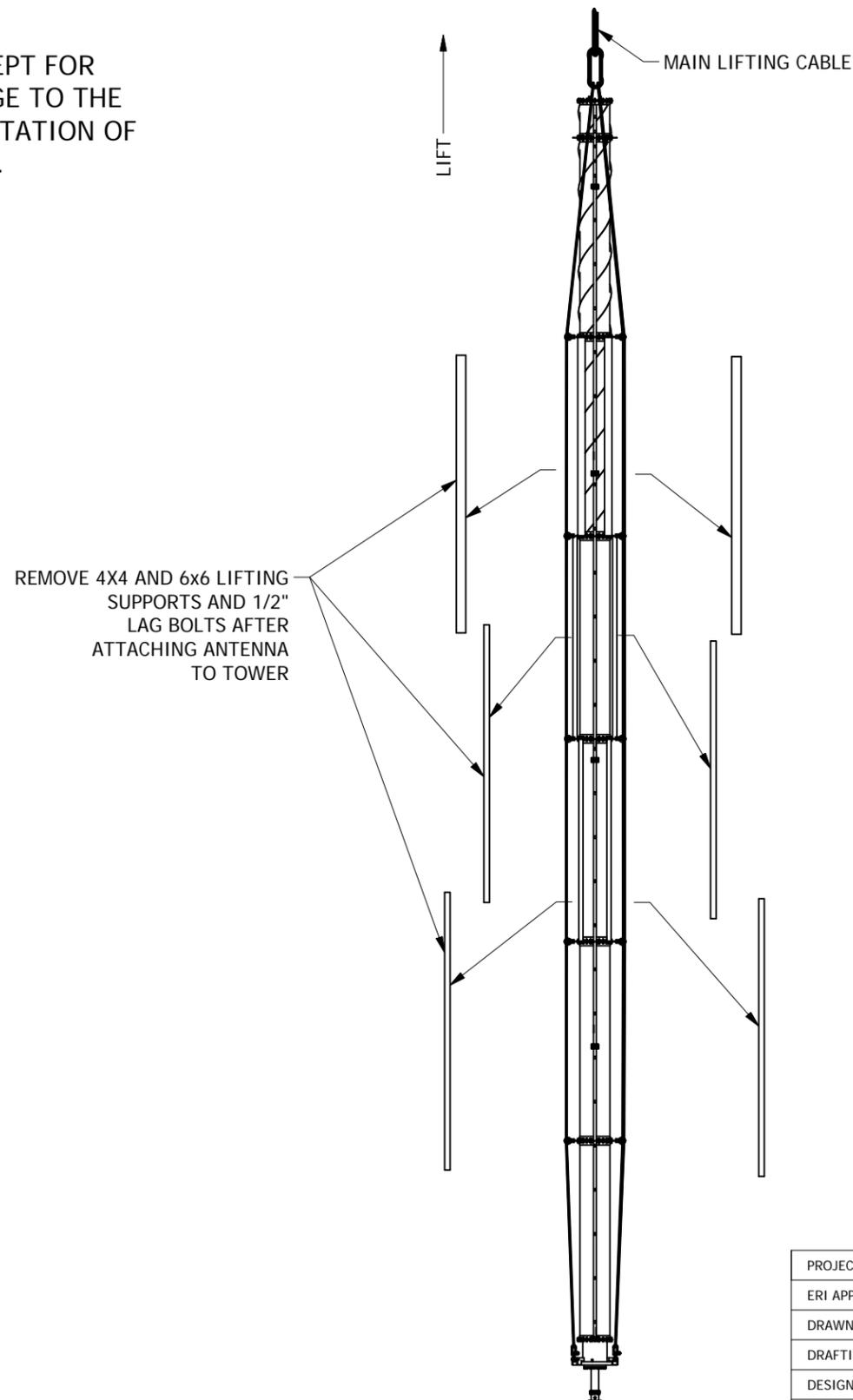
PROJECT NO. 33981/1		
ERI APPROVAL	NAME	DATE
DRAWN BY	G.A.G.	11/2/2015
DRAFTING		
DESIGN MGR.	K. SCHARP	11/2/2015
ENG.		
MANUF.		
EXT. APPROVAL		
SUPERCEDES PART NO.		
FILE NAME: LD33981-1.3.idw		

ERI ELECTRONICS RESEARCH INC. ESTABLISHED 1943
 7777 GARDNER Rd.
 CHANDLER, IN
 47610-9219
 PHONE: (812) 925-6000
 FAX: (812) 925-4030

TITLE: LIFTING DETAILS 33981 - ALLIANCE, NE - CH. 13			
SIZE B	CAGE CODE OZNS1	DWG NO. LD33981-1	REV.
SCALE: 1:50	WEIGHT: N/A	SHEET: 3 OF 4	

FIGURE #3B

NOTE: THIS ILLUSTRATION IS INTENDED TO SHOW A CONCEPT FOR LIFTING THE ERI INC. TRASAR ANTENNA TO PREVENT DAMAGE TO THE ANTENNA AND THE RADOMES. SAFE AND PROPER IMPLEMENTATION OF THIS CONCEPT ARE THE RESPONSIBILITY OF THE INSTALLER.

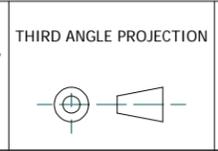


PROJECT NO.	33981/1	
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DRAFTING		
DESIGN MGR.	K. SCHARP	11/2/2015
ENG.		
MANUF.		
EXT. APPROVAL		
SUPERCEDES PART NO.		
FILE NAME:	LD33981-1.4.idw	

		ELECTRONICS RESEARCH INC. ESTABLISHED 1943		7777 GARDNER Rd. CHANDLER, IN 47610-9219 PHONE: (812) 925-6000 FAX: (812) 925-4030
TITLE: LIFTING DETAILS 33981 - ALLIANCE, NE - CH. 13				
SIZE	CAGE CODE	DWG NO.	REV.	
B	OZNS1	LD33981-1		
SCALE:	1:100	WEIGHT:	N/A	SHEET: 4 OF 4



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MATERIAL

FINISH

TOLERANCES
OVERALL-NOT CUMULATIVE
UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS ARE IN INCHES
AND APPLICABLE AT 20°C (68°F)

1 PLACE DECIMAL ± .1
2 PLACE DECIMAL ± .03
3 PLACE DECIMAL ± .010
ANGULAR ± .5°
FRACTIONAL ± 1/16"

INTERPRET DIMENSIONS AND TOLERANCES
PER ASME Y14.5M-1994

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. LOC-TITE ALL THREADS PER BOP 2.02.01.
3. TORQUE ALL 5/8" HARDWARE TO 60-65 FT/LBS - SST.
4. TORQUE ALL 1/2" HARDWARE TO 50-55 FT/LBS - SST.
5. TORQUE ALL 3/8" HARDWARE TO 28 FT/LBS - SST.
6. ALL EXTERIOR HARDWARE TO BE ASSEMBLED WITH THE HEAD OF BOLT TOWARDS THE BOTTOM OF THE ANTENNA.

7. USE SMALL ERI SHIPPING LABEL AND PLACE WHERE NOTED.
8. USING BLACK PAINT, STENCIL AS SHOWN. USING MIN. 1/2" HIGH CHARACTERS.
9. APPLY TEFLON TAPE TO THREADS ON ITEM #10.
10. CUT ITEM #13 (1" FLEXTIGHT) INTO 2 PIECES. ONE 8 FEET LONG FOR THE BOTTOM AND ONE 4 FEET LONG FOR THE TOP.

CONNECTION NOTES:

1. FOR PROPER PERFORMANCE AFTER INSTALLATION, PLUMB THE ANTENNA TO WITHIN 0.5° FROM VERTICAL (5/8 INCH IN 30 FEET). A KIT OF SHIMS IS INCLUDED WITH THE ANTENNA. AS REQUIRED FOR PROPER PLUMB, GAPS BETWEEN ANTENNA MOUNTING FLANGE AND TOWER TOP PLATE MUST BE FILLED USING THE SUPPLIED SHIM KIT OR SUITABLE STEEL SHIM STOCK.
2. ANTENNA MOUNTING FLANGE BOLTED CONNECTION SHALL BE BROUGHT TO A SNUG-TIGHT CONDITION WHERE JOINT TIGHTNESS IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PILES INTO "FIRM" CONTACT, AND THEN AN ADDITIONAL 1/2 TURN (180° ± 30°) APPLIED TO THE NUT OR BOLT HEAD FOR FINAL BOLT TIGHTING. A SYSTEMATIC APPROACH SHALL BE USED WHEN TIGHTENING THE BOLTS STARTING WITH THE MOST RIGID PART OF THE JOINT. THE PART NOT TURNED BY THE WRENCH SHALL BE PREVENTED FROM ROTATING DURING THIS OPERATION.
3. IT IS ERI'S INTENTION THAT AN ANCO LOCKNUT BE PROVIDED FOR ALL HIGH STRENGTH ASTM A325 BOLTED CONNECTIONS, UNLESS OTHERWISE NOTED. FLAT WASHERS ARE REQUIRED ON MOUNTING FLANGE CONNECTIONS.
4. UNLESS OTHERWISE NOTED, ALL ANTENNA MOUNTING FLANGE HARDWARE GRADES ARE AS FOLLOWS:

TABLE	
COMPENENT	DESCRIPTION
STRUCTURAL BOLT	ASTM A325 GALVANIZED
ANCO LOCKNUT	ASTM A563 GRADE DH GALVVANIZED HEAVY HEX NUT WITH STAINLESS PIN
FLAT WASHER	ASTM F436 TYPE 1 GALVANIZED

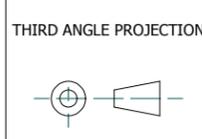
20	1	MACX450-5	4" VARIABLE LENGTH LINE SECTION (UP TO 60" LG)
19	1	69039	CLIMBING POLE GROUNDING KIT
18	24	NLA2406GA	1 1/2-6 GALV. ANCO LOCK NUT
17	48	WF24GA	1-1/2" FLAT WASHER F436 HDG STRUCTURAL
16	24	SC2406H0825GA	1-1/2-6 UNC-2A x 8.25 LG. 2.25" MIN THREADS A325 BOLT
15	1	167423-20	SHIM KIT
14	4	67325-37	1" FLEXTIGHT CONNECTOR
13	12 FT	67325-40	1" FLEX CONDUIT
12	1	43094	CABLE GRIP / HOISTING GRIP
11	1	165701	CABLE GRIP SUPPORT
10	1	9886-518	PIPE CAP REDUCER 2" TO 1"
9	4	LR0062-4800GA-N001	5/8"-11 X 48" 30 DEG BENT GALV W/2 NUT
8	4	LRK0007-KIT	LIGHTNING SPUR HARDWARE KIT
7	12	LR0075-N003	LIGHTNING ROD ARRESTOR TIP
6	1	38296-61	TRASAR LABEL
5	1	66593	PRESSURE LABEL
4	1	RLA650-450	6 1/8" to 4 1/16" REDUCER (50 OHM)
3	2	69372	HARDWARE KIT, INPUT ADAPATOR TO SHORT INPUT ADAPTOR
2	1	IN33981-1	Ø6.25 FHF STRAIGHT INPUT ADAPTER
1	1	TA33981-1	TOP LEVEL ASSEMBLY
ITEM	QTY	PART NUMBER	DESCRIPTION

BILL OF MATERIAL

PROJECT NO.	33981/1		 ELECTRONICS RESEARCH INC. <small>ESTABLISHED 1943</small> 7777 GARDNER Rd. CHANDLER, IN 47610-9219 PHONE: (812) 925-6000 FAX: (812) 925-4030
ERI APPROVAL	NAME	DATE	
DRAWN BY	G.A.G.	10/21/2015	
DRAFTING			
DESIGN MGR.	K. SCHARP	10/26/2015	TITLE: MECH. PARMETER / INSTALLATION ASS'Y 33981 - ALLIANCE, NE - CH. 13
ENG.			
MANUF.			
EXT. APPROVAL			
SUPERSEDES PART NO.	SIZE	CAGE CODE	DWG NO.
	B	OZNS1	PM33981-1
FILE NAME: PM33981-1.idw	SCALE:	AS NOTED	WEIGHT: N/A
			SHEET: 1 OF 3



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MATERIAL

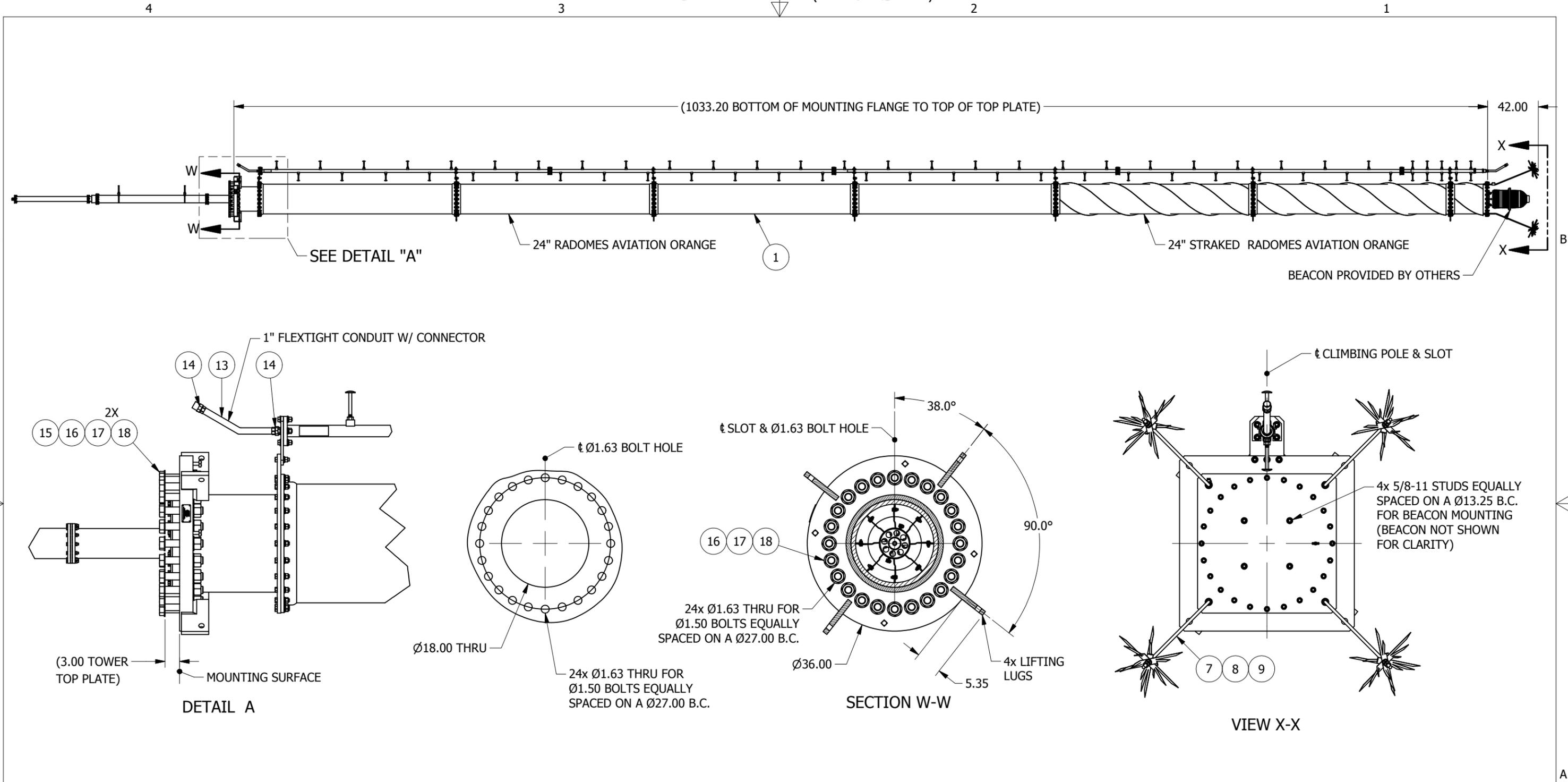
FINISH

TOLERANCES
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1 PLACE DECIMAL ± .1
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 3 PLACE DECIMAL ± .010
 ANGULAR ± .5°
 FRACTIONAL ± 1/16"

INTERPRET DIMENSIONS AND TOLERANCES
 PER ASME Y14.5M-1994

ATTACHMENT D (REVISED)



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THIRD ANGLE PROJECTION

MATERIAL

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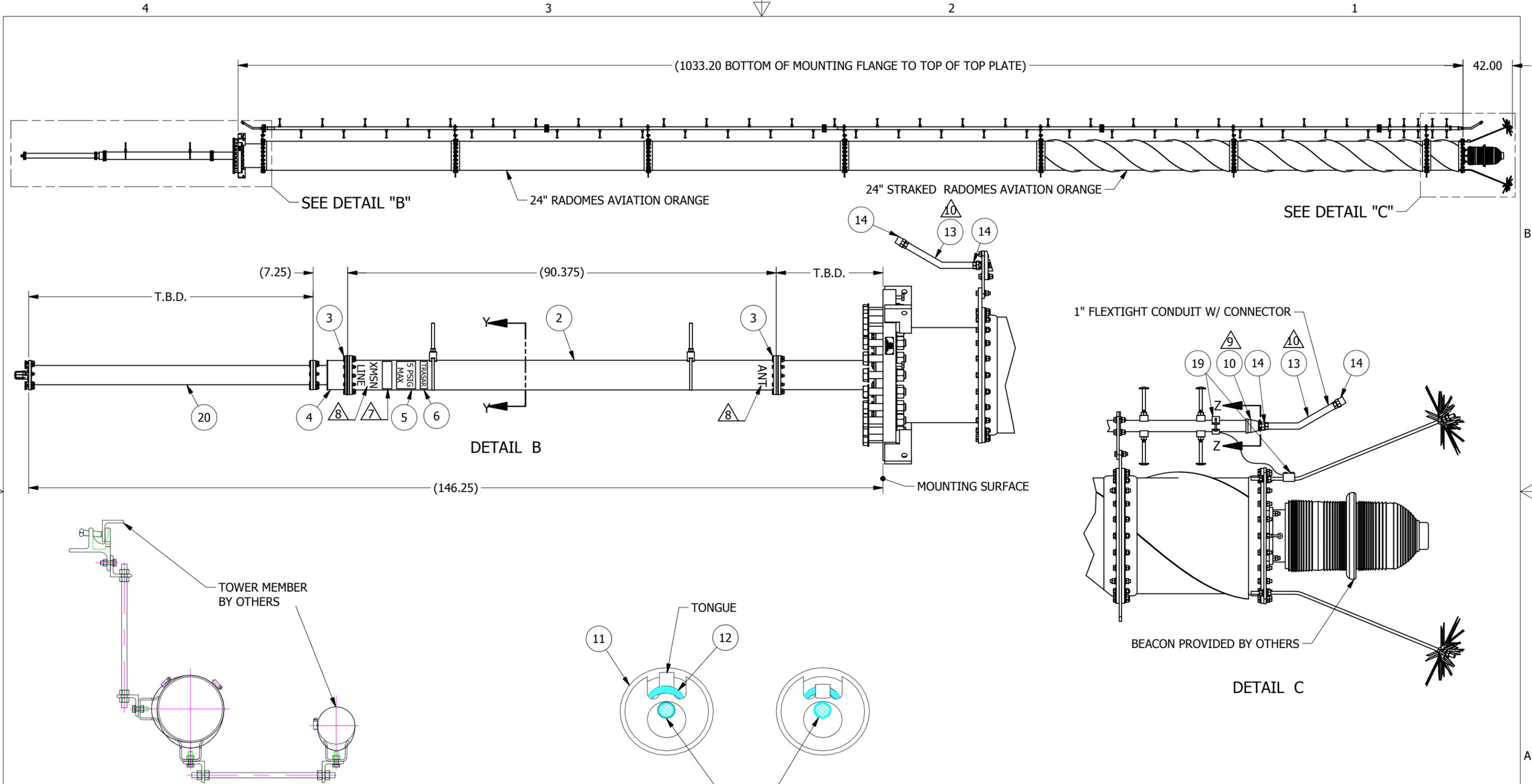
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PROJECT NO.	33981/1	
ERI APPROVAL	NAME	DATE
DRAWN BY	G.A.G.	10/21/2015
DRAFTING		
DESIGN MGR.	K. SCHARP	10/26/2015
ENG.		
MANUF.		
EXT. APPROVAL		
SUPERSEDES PART NO.		
FILE NAME:	PM33981-1.2.idw	

		ELECTRONICS RESEARCH INC. ESTABLISHED 1943		7777 GARDNER Rd. CHANDLER, IN 47610-9219 PHONE: (812) 925-6000 FAX: (812) 925-4030
TITLE: MECH. PARAMETER / INTALLATION ASS'Y 33981 - ALLIANCE, NE - CH. 13				
SIZE	CAGE CODE	DWG NO.	REV.	
B	OZNS1	PM33981-1		
SCALE:	AS NOTED	WEIGHT:	18578.25 lbmass	SHEET: 2 OF 3

ATTACHMENT D (REVISED)



SEE DETAIL "B"

24" RADOMES AVIATION ORANGE

24" STRAKED RADOMES AVIATION ORANGE

SEE DETAIL "C"

(7.25)

(90.375)

T.B.D.

(146.25)

MOUNTING SURFACE

1" FLEXTIGHT CONDUIT W/ CONNECTOR

BEACON PROVIDED BY OTHERS

TOWER MEMBER BY OTHERS

TONGUE

CUSTOMER SUPPLIED CABLE

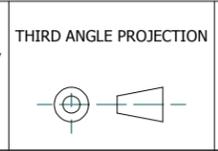
SECTION Y-Y

BOTH SUPPORTS MUST BE INSTALLED
THE COMPONENTS SUPPLIED ALLOW FOR
EASY ATTACHMENT TO AN ANGLE/FLAT
PIECE OF STEEL OR TO A ROUND AS SHOWN

SECTION Z-Z



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				3 OF 3