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**GENERAL
INFORMATION 1**

**SPARROW III
AIM-7C,D,E,F 2**

**BULLPUP
AGM-12B 3**

**BULLPUP
AGM-12C 4**

**SIDEWINDER
AIM-9C,D 5**

**MISSILE TARGET
AQM-37A 6**

**PHOENIX
AIM-54A 7**

**SHRIKE
AGM-45A 8**

**CONDOR
AGM-53A 9**

**STANDARD ARM
AGM-78A 10**

HANDBOOK NAVAL AIR LAUNCHED GUIDED MISSILES (U)

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TABLE OF ABBREVIATIONS

AC	- ALTERNATING CURRENT
AGM	- AIR, SURFACE ATTACK, GUIDED MISSILE
AIM	- AIR, INTERCEPT-AERIAL, GUIDED MISSILE
AL	- ALUMINUM
AMR	- ADVANCE MATERIAL REQUEST
APPROX	- APPROXIMATE
AQM	- AIR LAUNCHED DRONE, GUIDED MISSILE
CAP	- CAPACITY
CFM	- CUBIC FEET PER MINUTE
CG	- CENTER OF GRAVITY
COMP	- COMPOSITION
CPS	- CYCLES PER SECOND
CVA	- ATTACK AIRCRAFT CARRIER
DC	- DIRECT CURRENT
ECH	- ELECTRONIC COUNTER MEASURES
ELECT	- ELECTRIC, ELECTRICAL
G & C	- GUIDANCE AND CONTROL
GR	- GEAR
HP	- HORSEPOWER
HV	- HIGH VOLTAGE
IR	- INFRARED
IRR	- IMPROVED REARMING RATES
LIQ	- LIQUID
MDI	- MISS DISTANCE INDICATOR
MGT	- MOUNTING
PRESS	- PRESSURE
PSI (G)	- POUNDS PER SQUARE INCH (GAGE)
RF	- RADIO FREQUENCY
RPM	- REVOLUTIONS PER MINUTE
S-A	- SAFETY ARMING
SECT	- SECTION
SPEC	- SPECIFICATION
STA	- STATION
TDD	- TARGET DETECTING DEVICE
TEMP	- TEMPERATURE
TMD	- TARGET MARKING DEVICE
VA	- VOLT AMPERE
WP	- WHITE PHOSPHORUS

TABLE OF CONTENTS

INTRODUCTION	i
TABLE OF ABBREVIATIONS	iii

SECTION 1 GENERAL INFORMATION

COMPARISON OF OVERALL DIMENSIONS	
SHEET 1 OF 2	1-1
SHEET 2 OF 2	1-2
COMPARISON OF COMPONENTS	
SHEET 1 OF 2	1-3
SHEET 2 OF 2	1-4

SECTION 2 SPARROW III AIM-7C/D/E/F GUIDED MISSILES

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AIM-7C PHASE "A" ANTENNA	2-1
CHART - MISSILE COMPONENTS, AIM-7C PHASE "A" ANTENNA	2-2
GENERAL ARRANGEMENT - AIM-7C PHASE "C" ANTENNA	2-3
CHART - MISSILE COMPONENTS, AIM-7C PHASE "C" ANTENNA	2-4
GENERAL ARRANGEMENT - AIM-7D PHASE "C" ANTENNA	2-5
CHART - MISSILE COMPONENTS, AIM-7D PHASE "C" ANTENNA	2-6
GENERAL ARRANGEMENT - AIM-7E PHASE "C" ANTENNA	2-7
CHART - MISSILE COMPONENTS, AIM-7E PHASE "C" ANTENNA	2-8
GENERAL ARRANGEMENT - XAIM-7F	2-9
HARD SPOT LOCATIONS - PHASE "A" AND "C" ANTENNAS	2-10
{BLANK}	2-11
{BLANK}	2-12
CHART - MISSILE COMPONENT INTERCHANGEABILITY	2-13
GUIDANCE AND CONTROL SECTION	2-14
WARHEADS MK 11, 18 & 38 MODS 0	2-15
MOTOR SECTION MK 6 MOD 3 - PHASE "A" ANTENNA	2-16
MOTOR SECTION MK 6 MOD 3 & MK 38 MOD 0 - PHASE "C" ANTENNAS	2-17
FORWARD FIN	2-18
AFT FIN	2-19
PHASE "A" ANTENNA TUNNEL, REAR ANTENNA AND BAND	2-20
PHASE "C" ANTENNA WAVEGUIDE	2-21
FLASH SIGNAL MK 37 MOD 0	2-22
IGNITER ASSEMBLY MK 258 MOD 0	2-23
IGNITER ASSEMBLY MK 265 MOD 0	2-24

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	2-25
GUIDANCE AND CONTROL CONTAINER	2-26
FIN CONTAINER	2-27
WARHEAD CONTAINER MK 224 MOD 0	2-28
MOTOR CONTAINER	2-29
IGNITER CONTAINER (MK 258 IGNITER)	2-30
PHASE "A" ANTENNA CONTAINER	2-31
PHASE "C" ANTENNA CONTAINER	2-32
GUIDED MISSILE CRADLE MK 12 MOD 0	2-33
GUIDED MISSILE CONTAINER MK 438 MOD 0	2-34
STORAGE CONTAINER CHU-166/E	2-34A

FLEET ISSUE UNIT LOADS

CHART - FLEET ISSUE UNIT LOADS	2-35
UNIT LOAD WR-54/107A; G & C GROUPS	2-36
UNIT LOAD WR-54/108A MOTOR SECTIONS	2-37
UNIT LOAD MK 78 MOD 0 (WR-54/109); WARHEADS	2-38
UNIT LOAD WR-54/171; AIM-7D/E/F SPARROWS	2-38A
UNIT LOAD WR-54/176; AIM-7D/E WINGS & FIRS	2-38B

HANDLING EQUIPMENT & TOOLS

TABLE - HANDLING EQUIPMENT AND TOOLS	
SHEET 1 OF 2	2-39
SHEET 2 OF 2	2-40

MISSILE TEST EQUIPMENT

CHART - MISSILE TEST EQUIPMENT AN/DPM-14	2-41
MISSILE CONTROL AND GUIDANCE TEST SET TS-2074/DPM-14	2-42
HYDRAULIC PUMPING UNIT ND-654/DPM-14	2-43
GUIDED MISSILE TEST SET GROUP OA-6621/DPM-14	2-44

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	2-45
---	------

SECTION 3 BULLPUP AGM-12B, 12B-2/3 GUIDED MISSILES

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AGM-12B	3-1
CHART - MISSILE COMPONENTS, AGM-12B	3-2
GENERAL ARRANGEMENT - AGM-12B-2/3	3-3
CHART - MISSILE COMPONENTS, AGM-12B-2/3	3-4
HARD SPOT LOCATIONS - AGM-12B, 12B-2/3	3-5
(BLANK)	3-6
CHART - MISSILE COMPONENT INTERCHANGEABILITY	3-7
NOSE SECTION (GUIDANCE & CONTROL) AGM-12B	3-8
NOSE SECTION (GUIDANCE & CONTROL) AGM-12B-2/3	3-9
TARGET DETECTING DEVICE MK 15 MODS (RF)	3-10
CENTER SECTION (WARHEAD)	3-11
AFT SECTION (SOLID MOTOR)	3-12
AFT SECTION (LIQUID ENGINE)	3-13
CONTROL VANE	3-14
WING ASSEMBLY	3-15
RECEIVER CRYSTAL	3-16
LIQUID ENGINE IGNITER	3-17
TRACKING FLARE MK 27 MODS	3-18
SOLID MOTOR TAIL CONE	3-19

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	3-20
GUIDED MISSILE CRADLE MK 15 MOD 0	3-21
MISSILE CONTAINER MK 441 MOD 0	3-22
NOSE SECTION CONTAINER - REUSABLE	3-23
NOSE SECTION CONTAINER - DISPOSABLE	3-24
TARGET DETECTION DEVICE CONTAINER MK 129 MOD 0	3-25
CENTER SECTION CONTAINER - REUSABLE	3-26
CENTER SECTION CONTAINER - DISPOSABLE	3-27
AFT SECTION CONTAINER - (SOLID MOTOR) REUSABLE	3-28
AFT SECTION CONTAINER - (SOLID MOTOR) DISPOSABLE	3-29
AFT SECTION CONTAINER - (LIQUID ENGINE) DISPOSABLE	3-30
WING & CONTROL VANE CONTAINER	3-31
RECEIVER CRYSTAL CONTAINER - DISPOSABLE	3-32
LIQUID ENGINE IGNITER CONTAINER	3-33
TRACKING FLARE CONTAINER	3-34

PALLETIZED UNIT LOADS

CHART - PALLETIZED UNIT LOADS	3-35
UNIT LOAD: NOSE SECTIONS	3-36
UNIT LOAD: CENTER SECTIONS	3-37
UNIT LOAD: AFT SECTIONS	3-38
UNIT LOAD: AGM-12B, 12B-2 3 BULLPUPS	3-38A

SUPPORT EQUIPMENT

TABLE - SHIPBOARD SUPPORT EQUIPMENT	3-39
SOLID MOTOR THRUST NEUTRALIZER	3-40
TORQUE WRENCH, 100 INCH POUND	3-41

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	3-42
---	------

SECTION 4 BULLPUP AGM-12C, 12C-2 GUIDED MISSILES

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AGM-12C	4-1
CHART - MISSILE COMPONENTS, AGM-12C	4-2
GENERAL ARRANGEMENT - AGM-12C-2	4-3
CHART - MISSILE COMPONENTS, AGM-12C-2	4-4
HARD SPOT LOCATIONS - AGM-12C, 12C-2	4-5
(BLANK).....	4-6
CHART - MISSILE COMPONENT INTERCHANGEABILITY	4-7
NOSE SECTION (GUIDANCE & CONTROL), AGM-12C	4-8
NOSE SECTION (GUIDANCE & CONTROL) AGM-12C-2	4-9
TARGET DETECTING DEVICE MK 15 MODS (RF).....	4-10
CENTER SECTION (WARHEAD)	4-11
AFT SECTION (LIQUID ENGINE)	4-12
CONTROL VANE	4-13
WING ASSEMBLY	4-14
RECEIVER CRYSTAL	4-15
ENGINE IGNITER	4-16
TRACKING FLARE MK 27 MODS	4-17

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	4-19
MISSILE CONTAINER MK 443 MOD 0	4-20
NOSE SECTION CONTAINER MK 407 MOD 0	4-21
TARGET DETECTION DEVICE CONTAINER MK 129 MOD 0	4-22
CENTER SECTION CONTAINER MK 408 MOD 0	4-23
AFT SECTION CONTAINER MK 409 MOD 0	4-24
WING & CONTROL VANE CONTAINER MK 406 MOD 0	4-25
RECEIVER CRYSTAL CONTAINER - DISPOSABLE	4-26
ENGINE IGNITER CONTAINER	4-27
TRACKING FLARE CONTAINER	4-28

PALLETIZED UNIT LOADS

CHART - PALLETIZED UNIT LOADS	4-29
UNIT LOAD MK 65 MOD 0; NOSE SECTIONS	4-30
UNIT LOAD MK 66 MOD 0; CENTER SECTIONS	4-31
UNIT LOAD MK 66 MOD 1; AFT SECTIONS	4-32
UNIT LOAD (WR-54 71); WINGS & CONTROL VANES	4-33

SUPPORT EQUIPMENT

TABLE - SHIPBOARD SUPPORT EQUIPMENT	4-34
TORQUE WRENCH, 100 INCH POUND	4-35

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	4-36
---	------

SECTION 5 SIDEWINDER AIM-9B/C/D GUIDED MISSILES

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT, AIM-9B	5-1
CHART - MISSILE COMPONENTS, AIM-9B	5-2
(BLANK)	5-3
GENERAL ARRANGEMENT, AIM-9C	5-4
CHART - MISSILE COMPONENTS, AIM-9C	5-5
GENERAL ARRANGEMENT, AIM-9D	5-6
CHART - MISSILE COMPONENTS, AIM-9D	5-7
ASSEMBLY SEQUENCE, AIM-9C 'D'	5-8
CHART - MISSILE COMPONENT INTERCHANGEABILITY	5-9
GUIDANCE & CONTROL GROUP MK 1 MODS	5-10
GUIDANCE & CONTROL GROUP MK 12 MODS	5-11
GUIDANCE & CONTROL GROUP MK 18 MOD 2	5-12
CONTACT FUZE MK 304 MODS	5-13
INFLUENCE FUZE MK 303 MODS	5-14
TARGET DETECTING DEVICE MK 15 MODS (RF)	5-15
TARGET DETECTING DEVICE MK 24 MODS (IR)	5-16
SAFETY - ARMING DEVICE MK 13 MOD 0	5-17
WARHEAD MK 8 MODS	5-18
WARHEAD MK 48 MOD 0	5-19
ROCKET MOTOR MK 17 MODS	5-20
ROCKET MOTOR MK 36 MODS	5-21
FIN ASSEMBLY, AIM-9C	5-22
FIN ASSEMBLY, AIM-9D	5-23
WING AND ROLLERON ASSEMBLY	5-24
WING ASSEMBLY MK 1 MOD 0	5-25
TRACKING FLARE MK 21 MOD 0	5-26

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	5-27
GUIDED MISSILE CRADLE MK 16 MOD 0	5-28
GUIDANCE & CONTROL CONTAINER MK 33 MOD 0	5-29
GUIDANCE & CONTROL CONTAINER MK 270 MOD 1	5-30
GUIDANCE & CONTROL CONTAINER MK 241 MOD 1	5-31
CONTACT FUZE CONTAINER MK 127 MOD 0 - INNER	5-32
CONTACT FUZE CONTAINER MK 131 MOD 0 - OUTER	5-33
INFLUENCE FUZE CONTAINER MK 389 MOD 0 - INNER	5-34
INFLUENCE FUZE CONTAINER MK 129 MOD 0 - OUTER	5-35
TDD CONTAINER MK 129 MOD 0 (MK 15/24 TDD)	5-36
S-A DEVICE CONTAINER MK 127 MOD 0 - INNER	5-37
S-A DEVICE CONTAINER MK 131 MOD 0 - OUTER	5-38
WARHEAD CONTAINER MK 34 MOD 0	5-39
WARHEAD CONTAINER MK 386 MOD 0	5-40
ROCKET MOTOR CONTAINER MK 37 MOD 0	5-41
ROCKET MOTOR CONTAINER MK 287 MOD 0	5-42
FIN CONTAINER MK 314 MOD 0	5-43
FIN CONTAINER MK 430 MOD 0	5-44

WING AND ROLLERON CONTAINER	5-45
WING CONTAINER MK 418 MOD 0	5-46
TRACKING FLARE CONTAINER	5-47

FLEET ISSUE UNIT LOADS

CHART - FLEET ISSUE UNIT LOADS	5-49
UNIT LOAD MK 19 MOD 0 (WR-54/19); MOTORS	5-50
UNIT LOAD MK 20 MOD 0 (WR-54/20); WARHEADS	5-51
UNIT LOAD MK 21 MOD 0 (WR-54/21); CONTACT FUZES	5-52
UNIT L34J MK 22 MOD 0 (WR-54/22); INFLUENCE FUZES	5-53
UNIT LOAD MK 23 MOD 0 (WR-54/23); WING & ROLLERON ASSYS	5-54
UNIT LOAD MK 24 MOD 0 (WR-54/24); G & C GROUPS	5-55
UNIT LOAD WR-54/38A; FINS	5-56
UNIT LOAD MK 45 MOD 0 (WR-54/39); WARHEADS	5-57
UNIT LOAD MK 49 MOD 0 (WR-54/42); G & C GROUPS	5-58
UNIT LOAD MK 73 MOD 0 (WR-54/106A); FIN ASSYS	5-59
UNIT LOAD WR-54/148; MOTORS	5-60
UNIT LOAD WR-54/156; AIM-9C/D TARGET DETECTING DEVICES	5-60A
UNIT LOAD WR-54/157; AIM-9C/D WING ASSEMBLIES	5-60B
UNIT LOAD WR-54/158; AIM-9C/D SAFETY ARMING DEVICES	5-60C
UNIT LOAD WR-54/40; WING & ROLLERON ASSYS	5-60D
UNIT LOAD WR-54/169A; AIM-9C OR 96 SIDEWINDER	5-60E

HANDLING EQUIPMENT & TOOLS

TABLE - HANDLING EQUIPMENT AND TOOLS	5-61
TOOL BOX	5-62
CHART - SHIPBOARD MAINTENANCE REFERENCE	5-63
DOME PROTECTOR, AIM-9B/C	5-64
DOME PROTECTOR, AIM-9D	5-65
PROTECTIVE RUBBER BOOT, AIM-9B	5-66
INFLUENCE FUZE COVER, AIM-9B	5-67
TARGET DETECTION DEVICE COVER, AIM-9C/D	5-68
SHORTING CLIP, AIM-9B	5-69
PROTECTOR COVER, AIM-9C/D	5-70
NON-PROPULSIVE ATTACHMENT, AIM-9B	5-71
MOTOR COVERS, AIM-9C/D	5-72
HANGER SCREW EXTRACTOR	5-72A

MISSILE TEST EQUIPMENT

CHART - MISSILE TEST EQUIPMENT	5-73
TEST SET MK 409 MOD 0	5-74
GENERAL ARRANGEMENT - MK 401 MOD 1 TEST SET	5-75
ANECHOIC CHAMBER - TEST SET MK 401 MOD 1	5-76
CONTROL SECTION - TEST SET MK 401 MOD 1	5-77
MECHANICAL ADAPTER - TEST SET MK 401 MOD 1	5-78

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	5-79
---	------

SECTION 6 MISSILE TARGET AQM-37A

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AQM-37A	6-1
HARD SPOT LOCATIONS	6-2
CHART - MISSILE COMPONENTS	6-3
(BLANK).....	6-4
RADOME	6-5
CANARD	6-6
WING & AILERON	6-7
VERTICAL STABILIZER	6-8
INFRARED FLARE MK 37	6-9

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	6-11
TARGET BODY CONTAINER MK 311 MOD 0	6-12
FLIGHT SURFACES & ANTENNA SPIKES CONTAINER MK 309 MOD 0	6-13
INFRARED FLARE CONTAINER MK 312 MOD 0	6-14
BATTERY CONTAINER MK 310 MOD 0.- REUSABLE	6-15
MISSILE TARGET BATTERY CONTAINER - DISPOSABLE	6-16
IMPULSE CARTRIDGES SHIPPING CONTAINER - INNER AND OUTER	6-16A

FLEET ISSUE UNIT LOADS

UNIT LOAD WR-54 110; FLIGHT SURFACES & COMPONENTS	6-16B
---	-------

HANDLING EQUIPMENT & TOOLS

TABLE - HANDLING EQUIPMENT & TOOLS	6-17
NITROGEN COUPLING ASSEMBLY	6-18

MISSILE TEST EQUIPMENT

GENERAL ARRANGEMENT - AN/USM-179 TEST SET	6-19
ELECTRICAL SQUIB TEST SET AN/USM-179	6-20

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	6-21
---	------

SECTION 7 PHOENIX AIM-54A GUIDED MISSILE

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AIM-54A	7-1
HARD SPOT LOCATIONS	7-2
CHART - MISSILES COMPONENTS.....	7-3
(BLANK)	7-4
GUIDANCE SECTION	7-5
ARMAMENT SECTION	7-6
MOTOR SECTION	7-7
CONTROL SECTION.....	7-8
WING	7-9
CONTROL SURFACE	7-10

CONTAINERIZATION

PHOENIX TWO - WEAPON CONTAINER	7-11
PHOENIX WING & CONTROL SURFACE CONTAINER	7-12

HANDLING EQUIPMENT & TOOLS

TABLE - HANDLING EQUIPMENT & TOOLS	
SHEET 1 OF 3	7-12A
SHEET 2 OF 3	7-12B
SHEET 3 OF 3	7-13

MISSILE TEST EQUIPMENT

CHART - MISSILE TEST EQUIPMENT AN DSM-73	
SHEET 1 OF 3	7-14
SHEET 2 OF 3	7-15
SHEET 3 OF 3	7-16
GENERAL ARRANGEMENT - AN DSM-73 (XN-1) TEST SET	7-17
FOUNDATION PLAN - AN DSM-73 (XN-1) TEST SET	7-18
CHECKOUT AND ASSEMBLY STAND AN DSM-73 (XN-1)	7-19
FREE SPACE RADAR ECHO SIMULATOR AN DSM-73 (XN-1)	7-20
TEST SET AN DSM-73 (XN-1)	7-21
TEMPERATURE CONTROL STAND AN DSM-73 (XN-1)	7-22

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	7-23
---	------

SECTION 8 SHRIKE AGM-45A GUIDED MISSILE

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AGM-45A	8-1
HARD SPOT LOCATIONS	8-2
CHART - MISSILE COMPONENTS	8-3
(BLANK)	8-4
CHART - MISSILE COMPONENT INTERCHANGEABILITY	8-5
GUIDANCE SECTION MK 21 MODS	8-6
ARMAMENT SECTIONS MK 52, 68 AND 69 MOD 0	8-7
CONTROL SECTION MK 1 MOD 2	8-8
PROPULSION SECTION MK 39 MODS	8-9
WING ASSEMBLY MK 2 MOD 1	8-10
TAIL FIN ASSEMBLY MK 21 MOD 1	8-11
(BLANK).....	8-12

CONTAINERIZATION

CHART - SHIPPING CONTAINERS	8-13
MISSILE CONTAINER MK 399 MOD 0	8-14
GUIDANCE SECTION CONTAINER MK 395 MOD 0	8-15
ARMAMENT SECTION CONTAINER MK 396 MOD 0	8-16
CONTROL SECTION CONTAINER MK 394 MOD 0	8-17
PROPULSION SECTION CONTAINER MK 397 MOD 0	8-18
WING CONTAINER MK 392 MOD 0	8-19
TAIL FIN CONTAINER MK 393 MOD 0	8-20
GUIDED MISSILE CONTAINER MK 14 MOD 9	8-21
MOTOR CONTAINER	8-22

FLEET ISSUE UNIT LOADS

CHART - FLEET ISSUE LOADS	8-23
UNIT LOAD MK 68 MOD 0 (WR-54/101); WINGS	8-24
UNIT LOAD MK 69 MOD 0 (WR-54/102); TAIL FINS	8-25
UNIT LOAD MK 70 MOD 0 (WR-54/103); CONTROL SECTIONS	8-26
UNIT LOAD MK 71 MOD 0 (WR-54/104); GUIDANCE SECTIONS	8-27
UNIT LOAD MK 72 MOD 0 (WR-54/105); ARMAMENT SECTIONS	8-28
UNIT LOAD (WR-54/108A); MOTOR SECTIONS	8-28A
UNIT LOAD (WR-54/172) AGM 45A LESS WINGS AND FINS	8-28B
UNIT LOAD (WR-54/179) AGM 45A LESS WINGS AND FINS	8-28C

HANDLING EQUIPMENT & TOOLS

TABLE - HANDLING EQUIPMENT AND TOOLS	8-29
CHART - SHIPBOARD MAINTENANCE REFERENCE	8-30

MISSILE TEST EQUIPMENT

CHART - MISSILE TEST EQUIPMENT AN/DSM-68	8-31
GENERAL ARRANGEMENT - AN/DSM-68 TEST SET	8-32
GUIDED MISSILE TEST SET AN/DSM-68	8-33

DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	8-34
---	------

SECTION 9 CONDOR AGM-53A GUIDED MISSILE

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AGM-53A	9-1
HARD SPOT LOCATIONS	9-2
GENERAL ARRANGEMENT - AIRCRAFT POD	9-3
WING	9-4
CONTROL SURFACE	9-5

CONTAINERIZATION

AIRCRAFT POD	9-6
WINGS AND CONTROL SURFACES	9-7

SECTION 10 STANDARD ARM AGM-78A GUIDED MISSILE

ASSEMBLED MISSILE & MAJOR COMPONENTS

GENERAL ARRANGEMENT - AGM-78A	10-1
HARD SPOT LOCATIONS	10-2

CONTAINERIZATION

MISSILE CONTAINER	10-3
RADOME CONTAINER	10-4

HANDLING EQUIPMENT & TOOLS

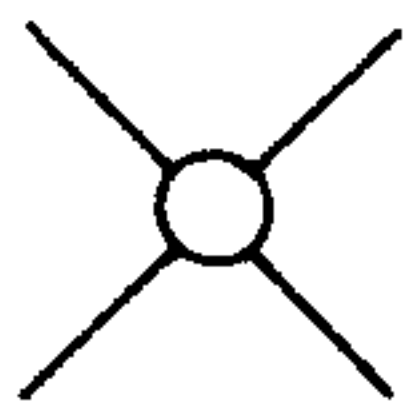
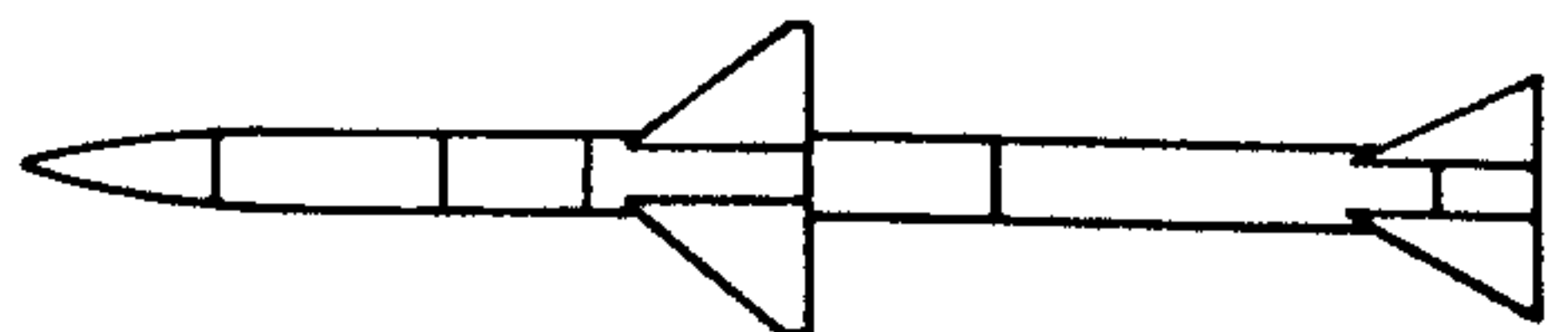

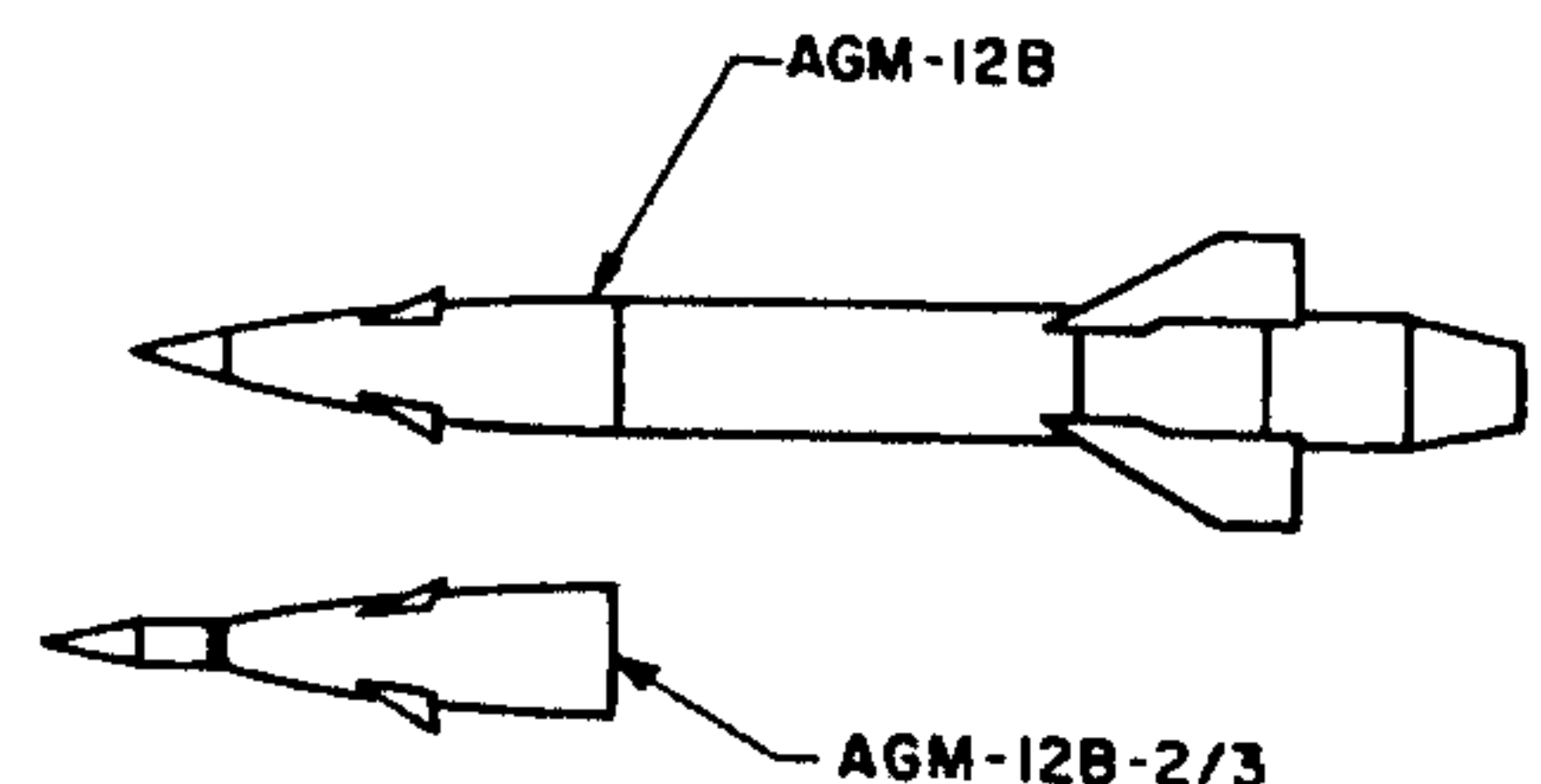
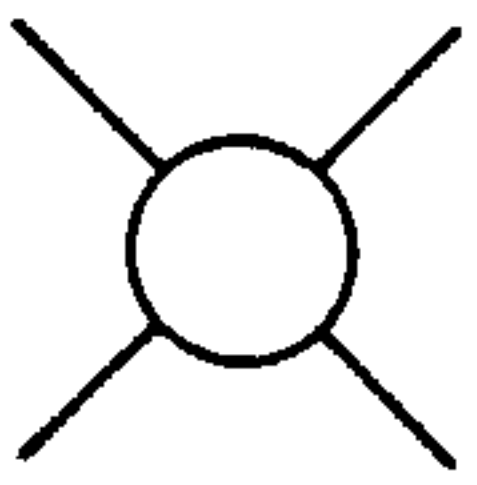
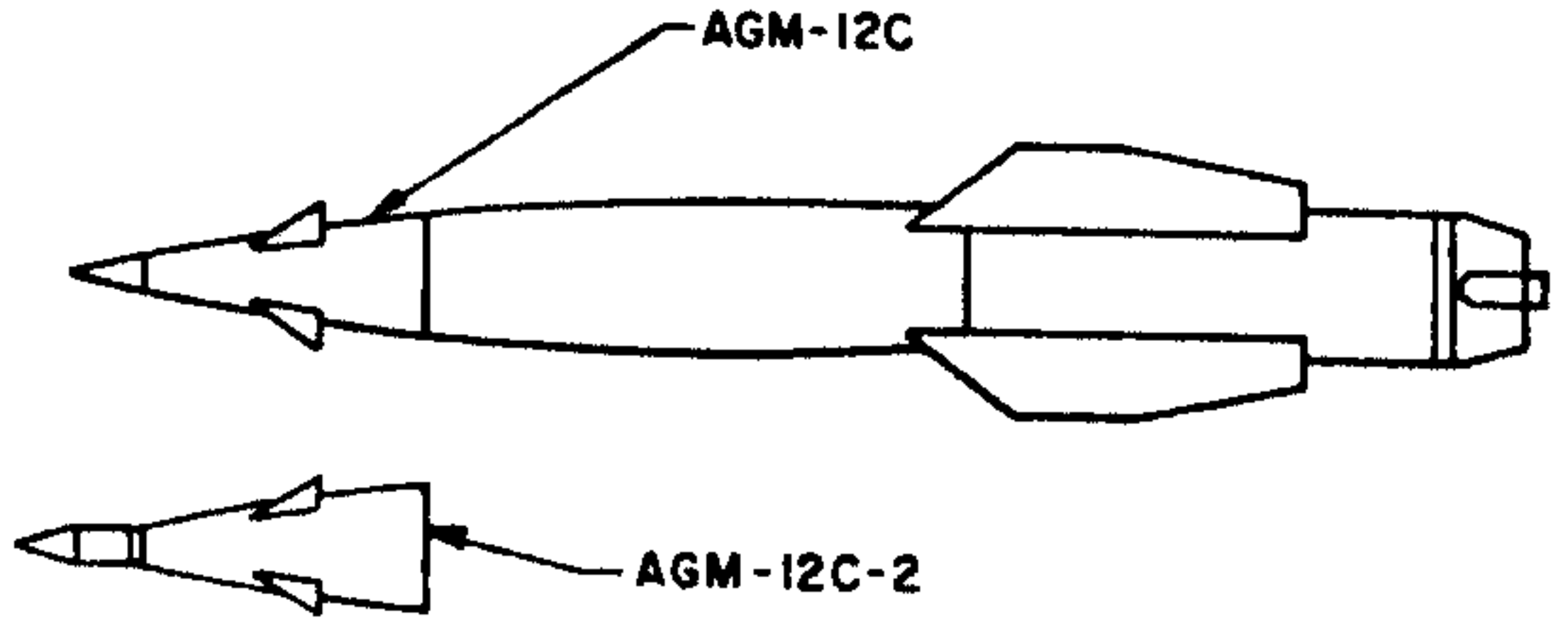

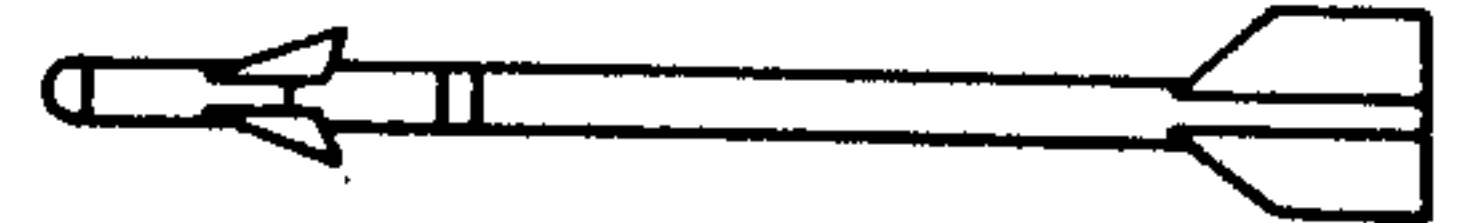

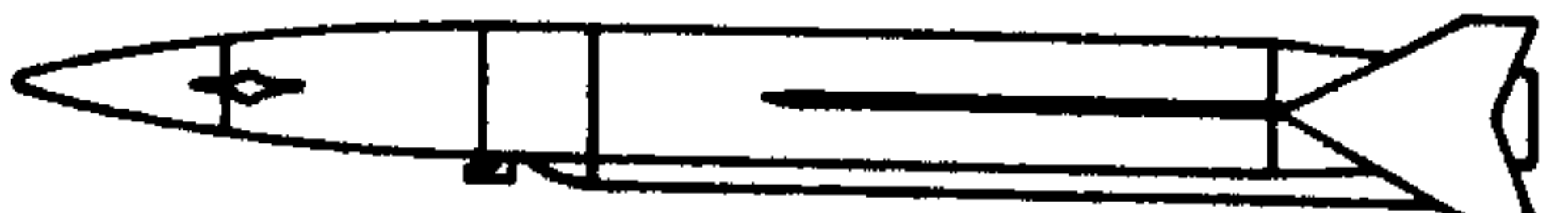
TABLE - HANDLE EQUIPMENT AND TOOLS	10-5
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DOCUMENTATION

TABLE - PUBLICATIONS AND SPECIFICATIONS	10-6
---	------

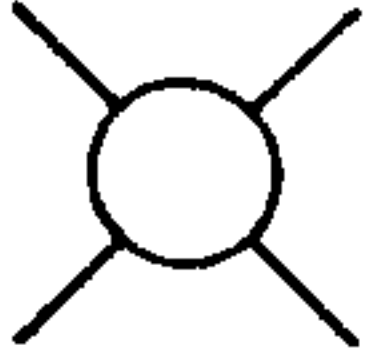
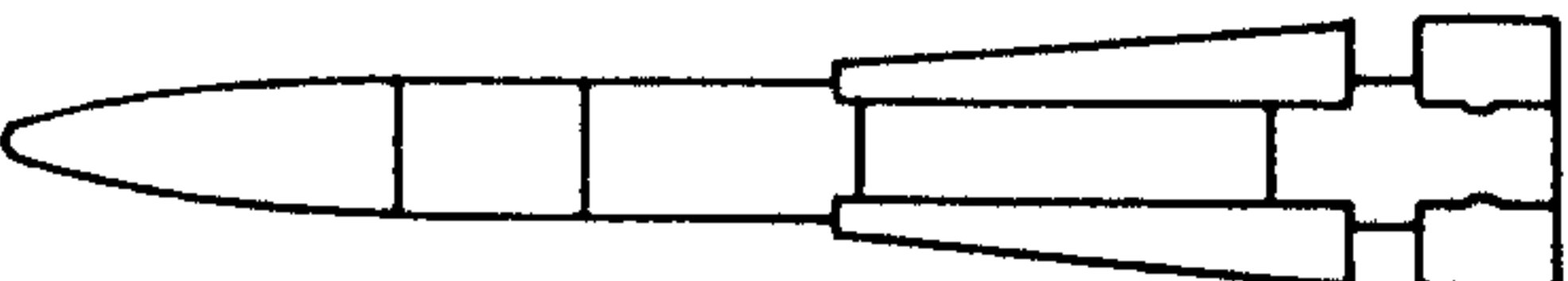
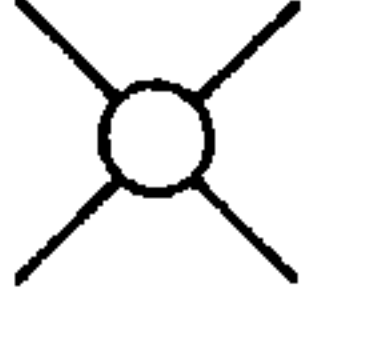
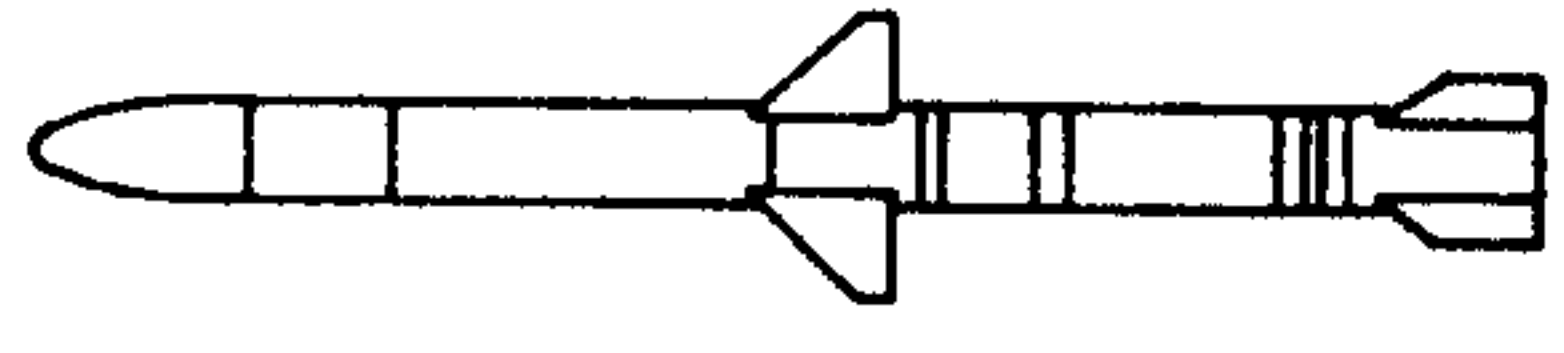
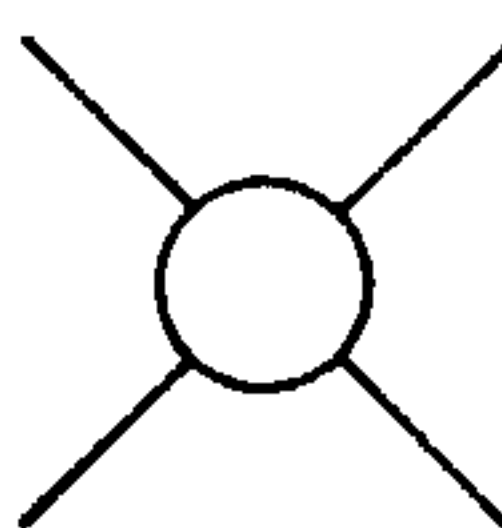
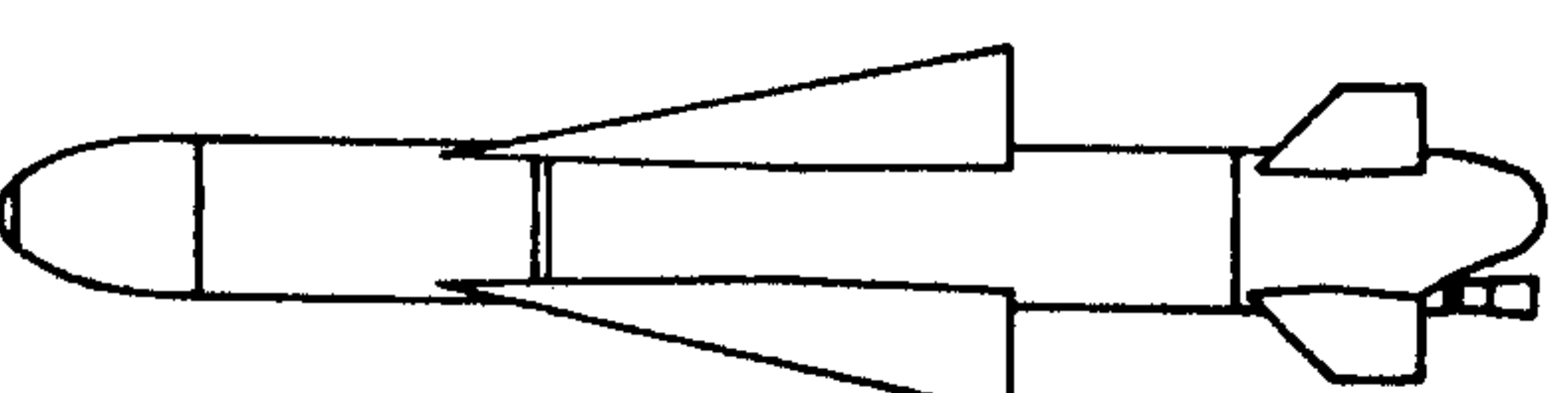
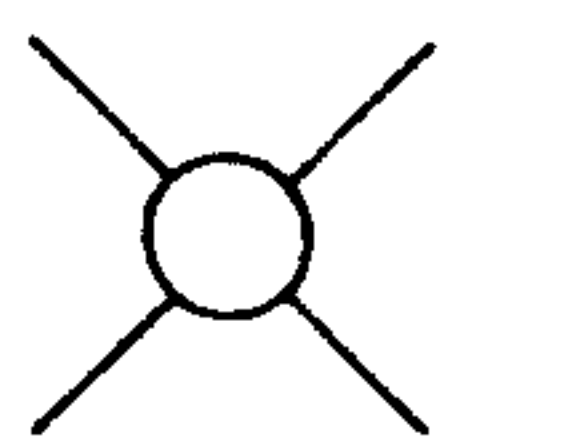
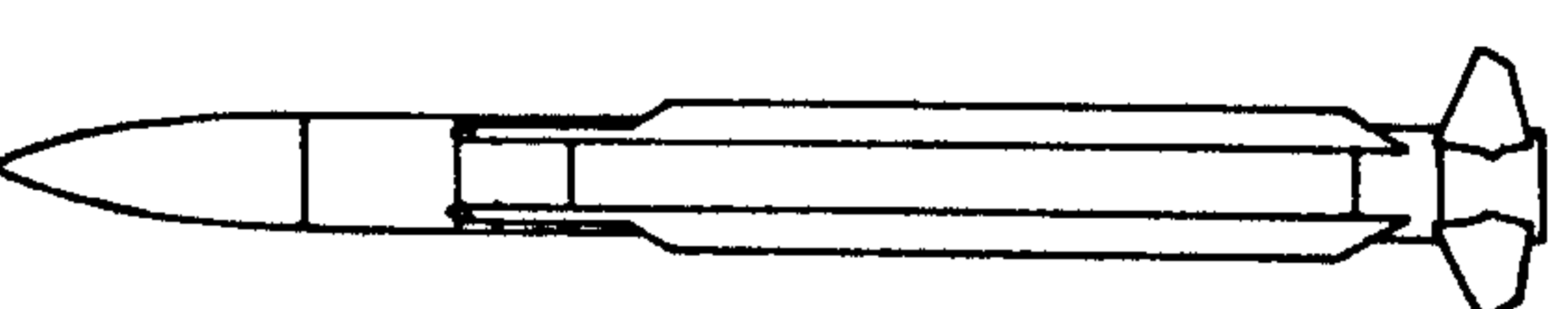
COMPARISON OF OVERALL DIMENSIONS

SHEET 1 OF 2

MISSILE	BODY	LENGTH (IN.)	WEIGHT (LBS.)	FRONT VIEW	ELEVATION
SPARROW III AIM-7C, 7D, 7E XAIM-7F	8. BODY DIA	144	378 TO 444		
	40.2 FWD FIN SPAN				
BULLPUP AGM-12B, 12B-2, 12B-3	12 BODY DIA	125 TO 134	564 TO 614		
	37.8 WING SPAN				
BULLPUP AGM-12C, 12C-2	17.3 BODY DIA	160 TO 169	1789 TO 1802		
	44 WING SPAN				
SIDEWINDER AIM-9B, 9C, 9D	5 BODY DIA	111 TO 118	160 TO 210		 (AIM-9B SHOWN)
	22 TO 24.8 WING SPAN				
MISSILE TARGET AQM-37A	13 BODY DIA	150	562		
	39.5 WING SPAN				

COMPARISON OF OVERALL DIMENSIONS

SHEET 2 OF 2

MISSILE	BODY	LENGTH (IN.)	WEIGHT (LBS.)	FRONT VIEW	ELEVATION
PHOENIX AIM-54A	15 BODY DIA	156	1010		
	36 WING SPAN				
SHRIKE AGM-45A	8 BODY DIA	120	402		
	36.2 WING SPAN				
CONDOR AGM-53A	17 BODY DIA	166	1885		
	53 WING SPAN				
STANDARD ARM AGM-78A	13.5 BODY DIA	180	1368		
	42.5 WING SPAN				

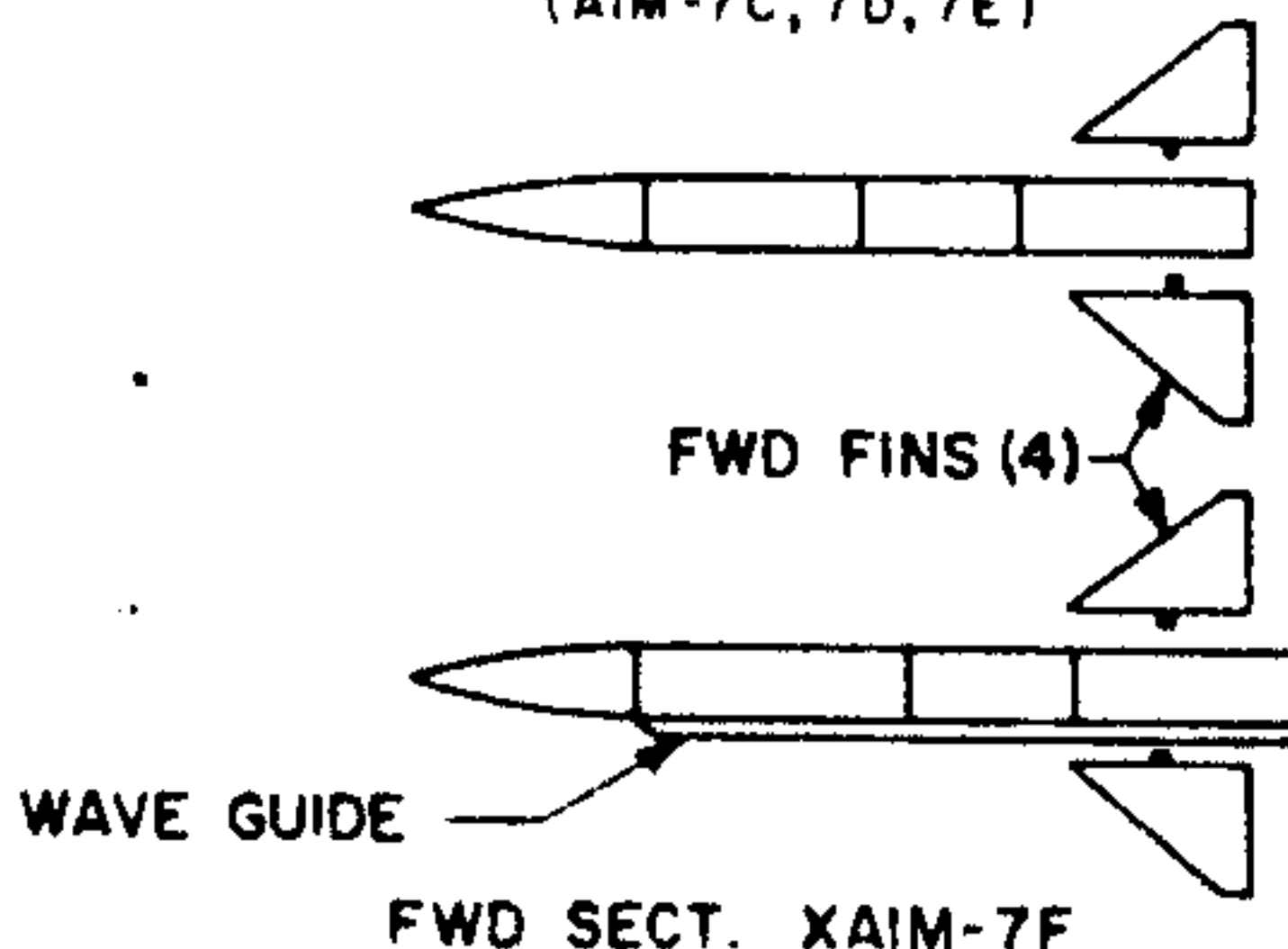

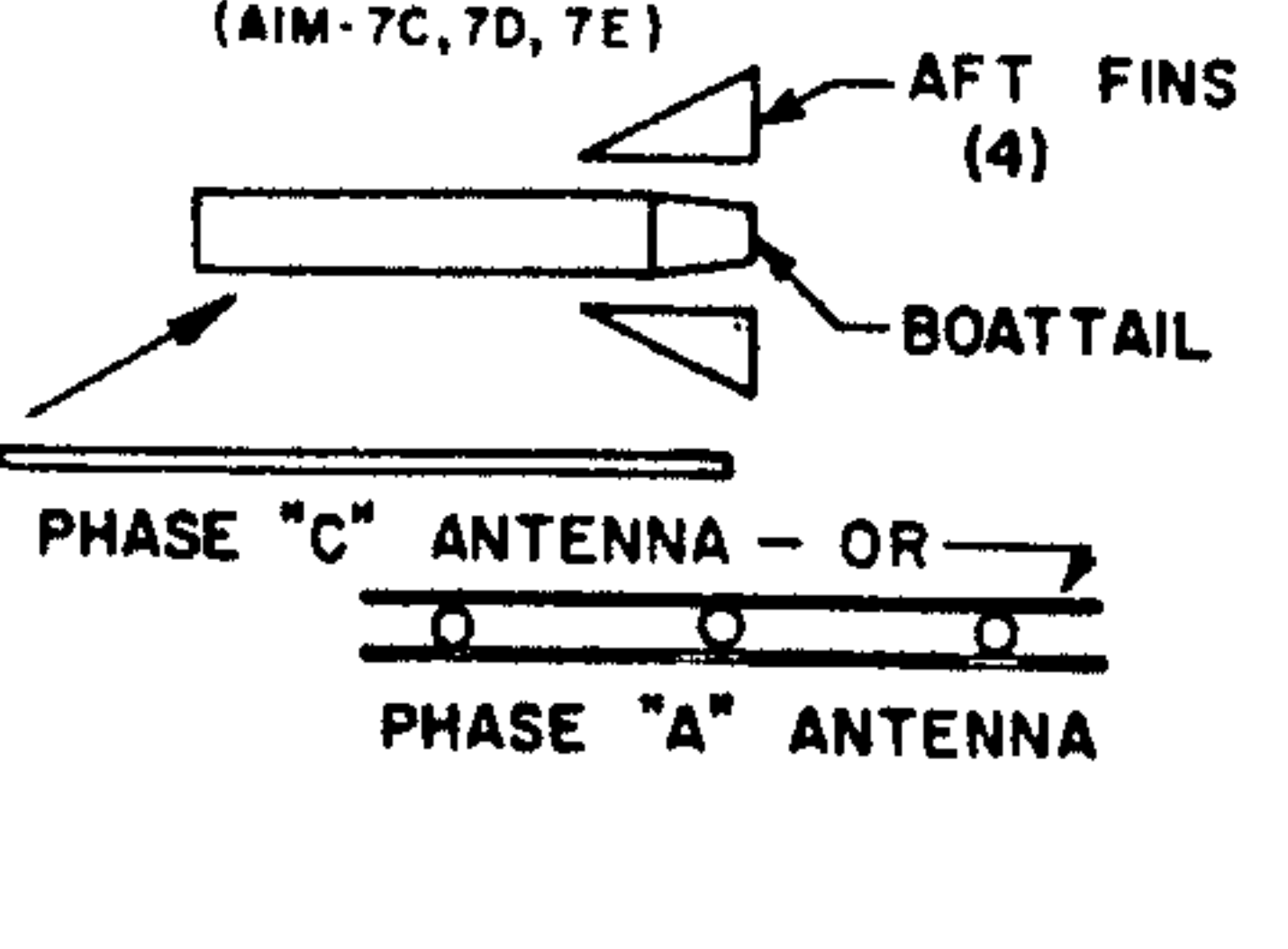
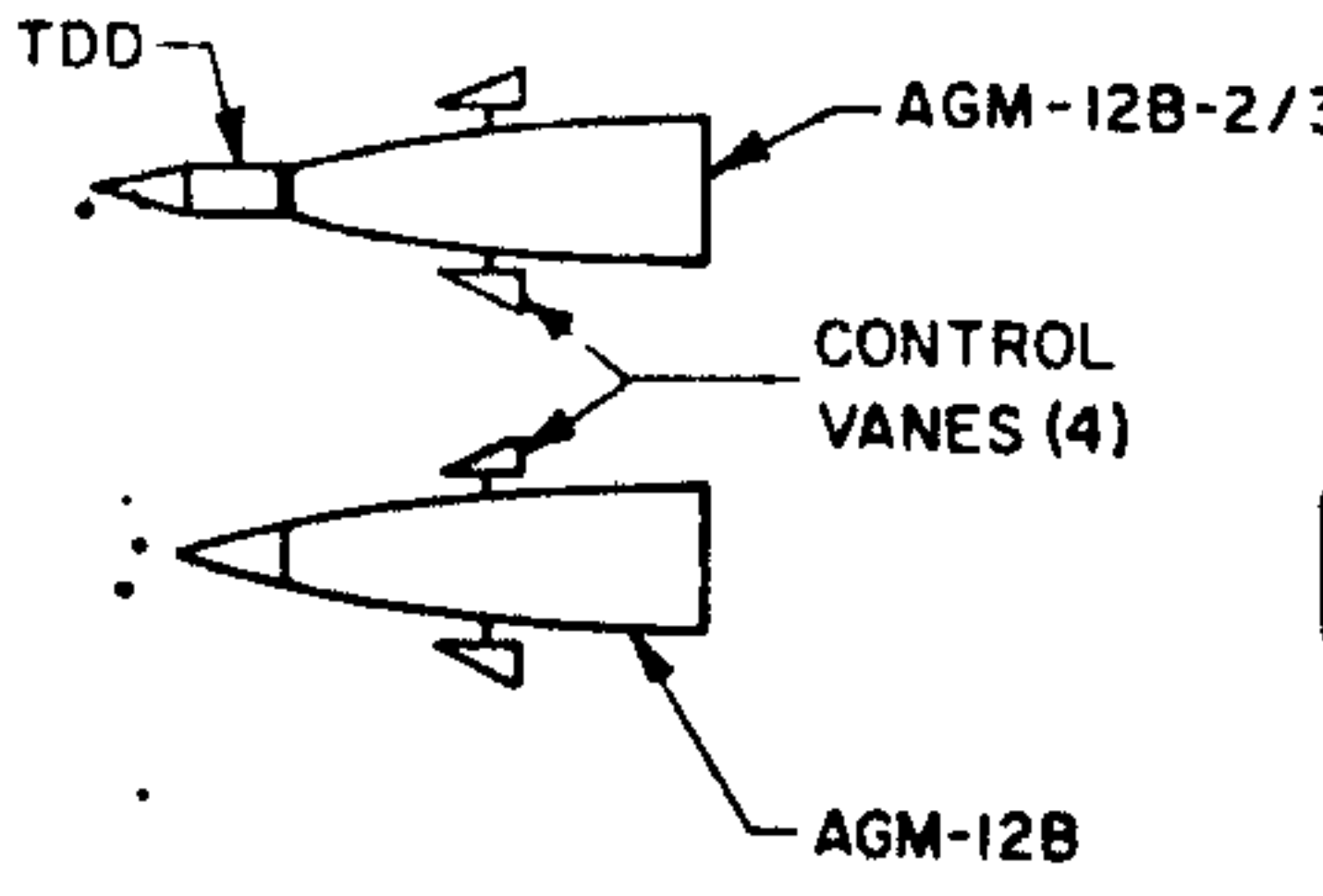

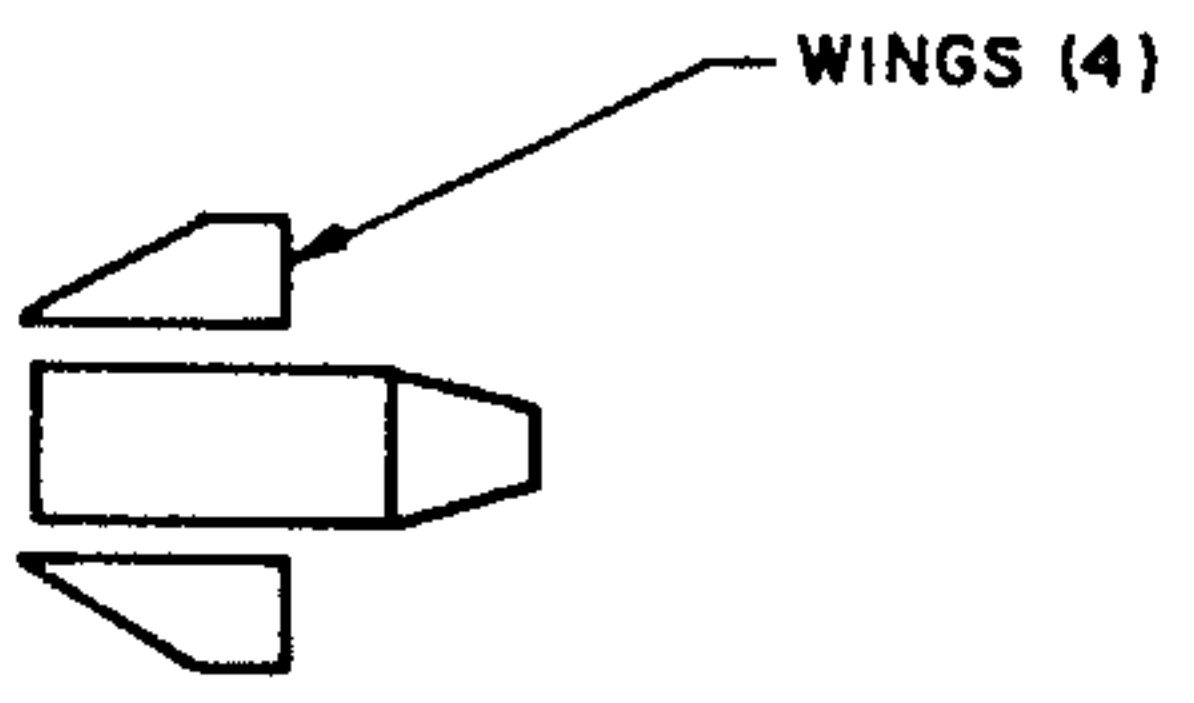
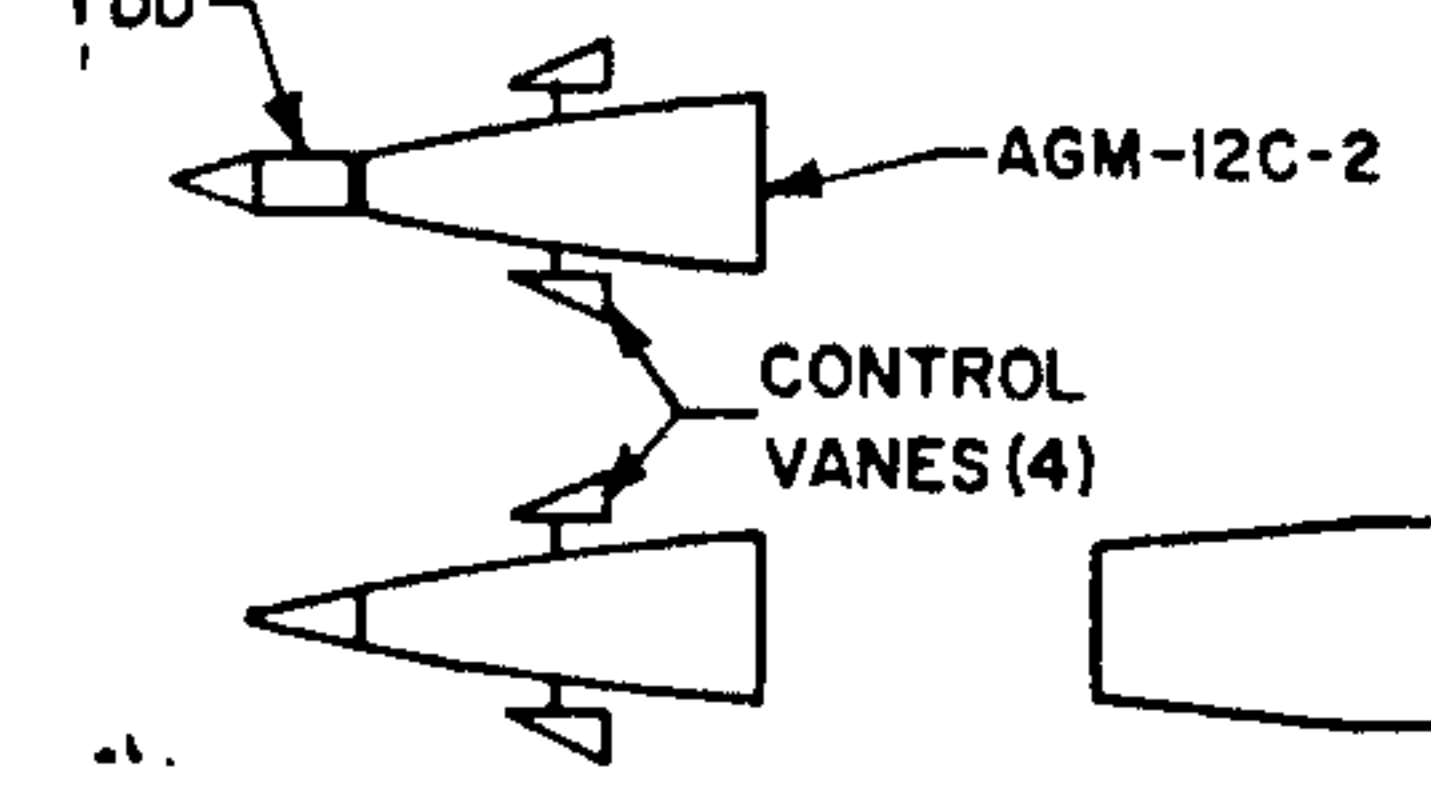

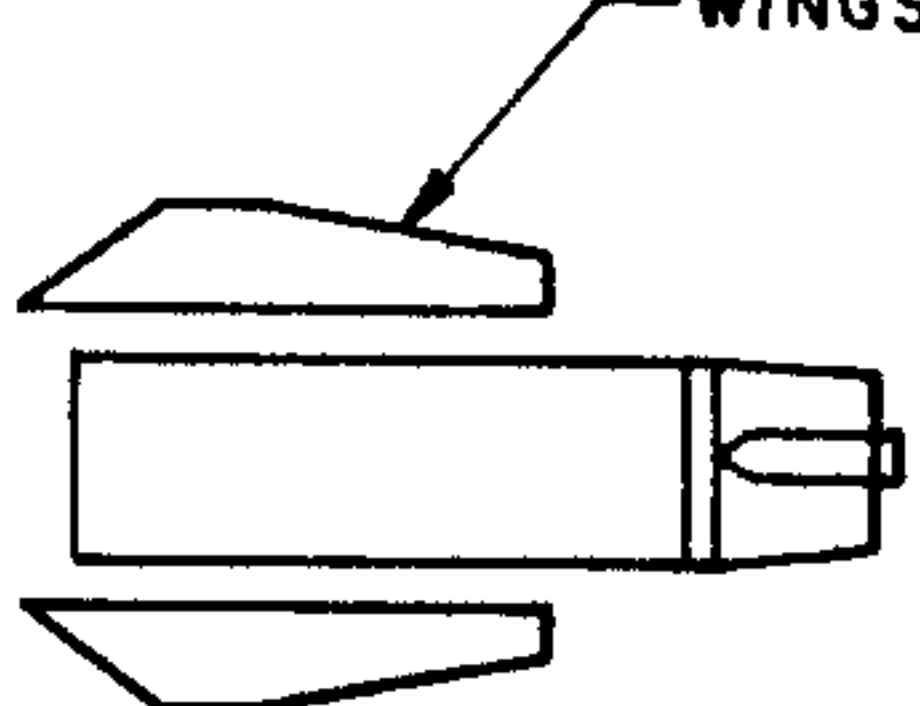
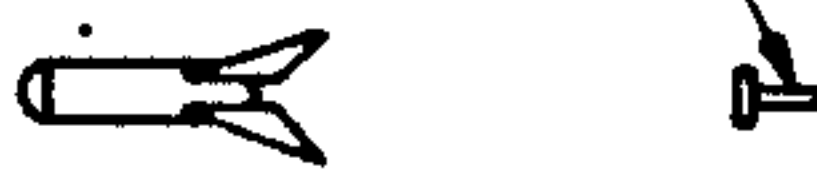

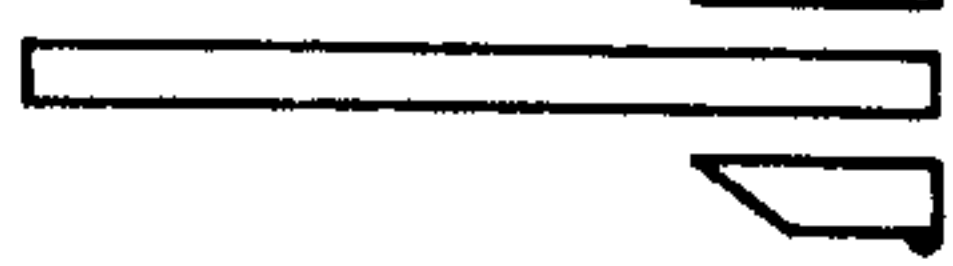
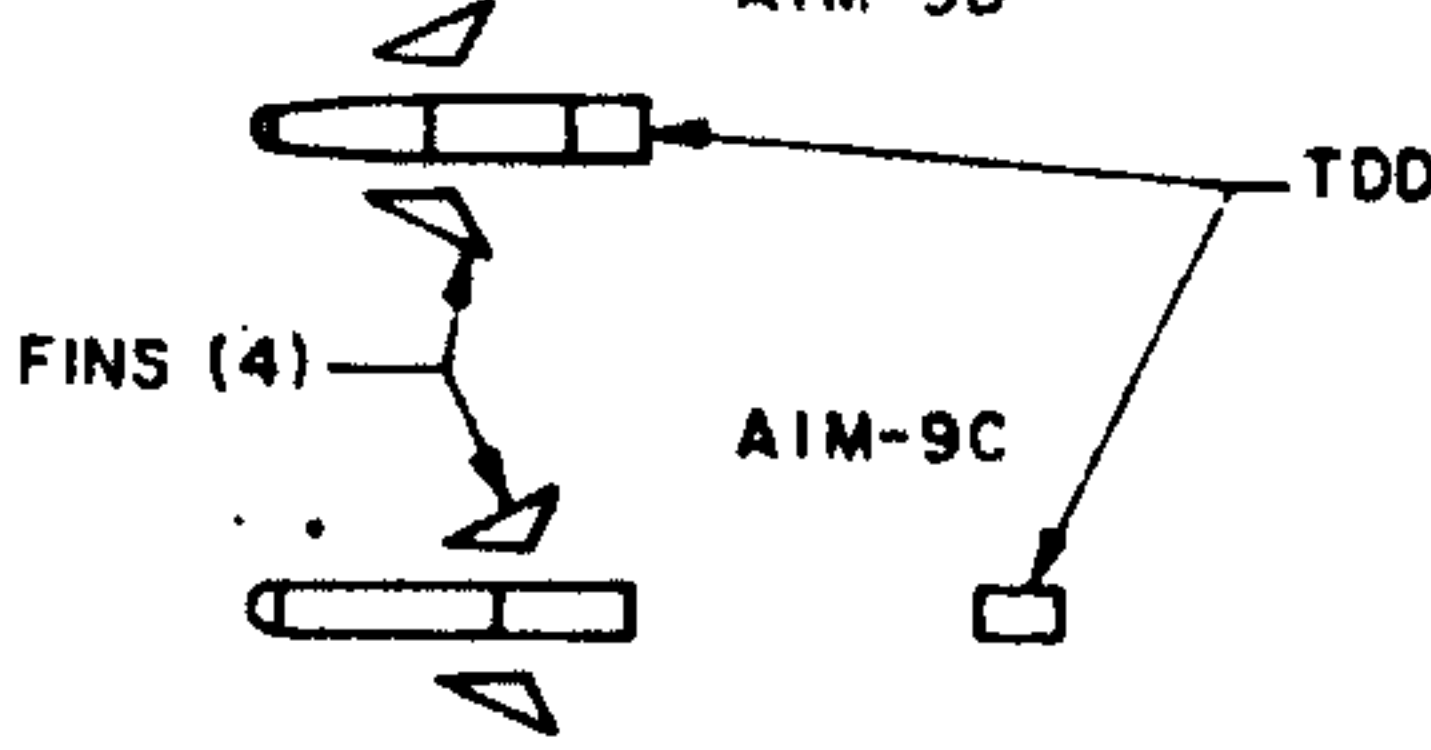
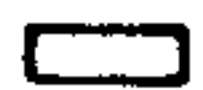
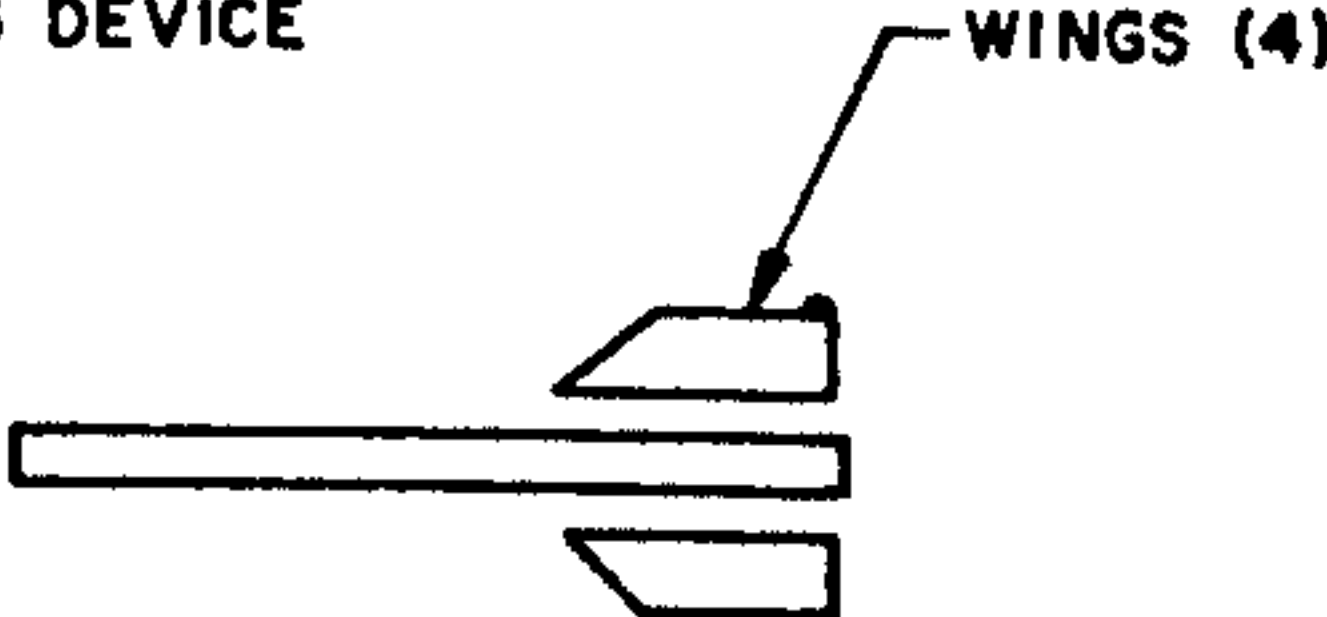
COMPARISON OF COMPONENTS

SHEET 2 OF 2

<p>MISSILE TARGET AQM-37A</p>	
<p>PHOENIX AIM-54A</p>	
<p>SHRIKE AGM-45A</p>	
<p>CONDOR AGM-53A</p>	
<p>STANDARD ARM AGM-78A</p>	

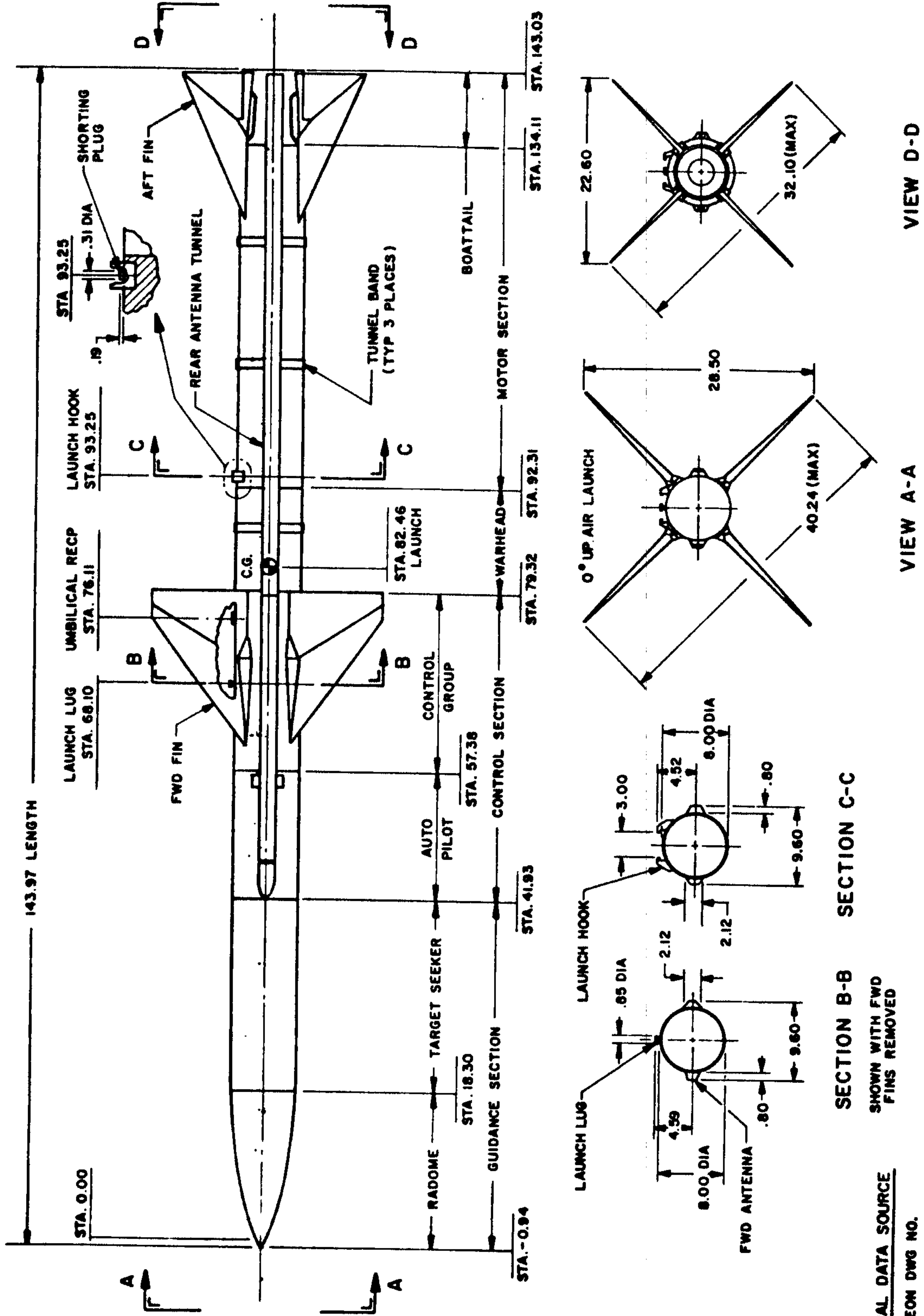
COMPARISON OF COMPONENTS

SHEET 1 OF 2

<p>SPARROW III AIM-7C, 7D, 7E XAIM-7F</p>	<p>GUIDANCE & CONTROL SECT. (AIM-7C, 7D, 7E)</p>  <p>FWD FINS (4)</p> <p>WAVE GUIDE</p> <p>FWD SECT. XAIM-7F (GUIDANCE, WARHEAD & CONTROL)</p>	<p>WARHEAD (AIM-7C, 7D, 7E)</p>  <p>AFT FINS (4)</p> <p>AFT SECT. XAIM-7F (MOTOR)</p>	<p>MOTOR SECT. (AIM-7C, 7D, 7E)</p>  <p>AFT FINS (4)</p> <p>BOATTAIL</p> <p>PHASE "C" ANTENNA - OR</p> <p>PHASE "A" ANTENNA</p>
<p>BULLPUP AGM-12B, 12B-2, 12B-3</p>	<p>TDD</p>  <p>AGM-12B-2/3</p> <p>CONTROL VANES (4)</p> <p>AGM-12B</p> <p>NOSE SECT.</p>	 <p>CENTER SECT.</p>	 <p>WINGS (4)</p> <p>AFT SECT.</p>
<p>BULLPUP AGM-12C, 12C-2</p>	<p>TDD</p>  <p>AGM-12C-2</p> <p>CONTROL VANES (4)</p> <p>NOSE SECT.</p>	 <p>CENTER SECT.</p>	 <p>WINGS (4)</p> <p>AFT SECT.</p>
<p>SIDEWINDER AIM-9B</p>	<p>CONTACT FUZE</p>  <p>GUIDANCE & CONTROL GROUP</p>	<p>WARHEAD</p>  <p>INFLUENCE FUZE</p>	 <p>WINGS (4)</p> <p>MOTOR</p>
<p>SIDEWINDER AIM-9C, 9D</p>	<p>AIM-9D</p>  <p>FINS (4)</p> <p>TDD</p> <p>AIM-9C</p> <p>GUIDANCE & CONTROL GROUP</p>	<p>SAFETY ARMING DEVICE</p>  <p>WARHEAD</p>	 <p>WINGS (4)</p> <p>MOTOR</p>

SPARROW III AIM-7C GENERAL ARRANGEMENT

PHASE "A" ANTENNA - MISSILES R-1 TO R-1375



ORIGINAL DATA SOURCE
 RAYTHEON DWG NO.
 138314 REV E
 DATED 21 FEB. 1966
 NAVWEP5 01-2656MAD-9
 DATED 1 MARCH 1967

SECTION B-B SECTION C-C

SHOWN WITH FWD
 FINS REMOVED

NOTES:

1. APPROXIMATE WEIGHT - 377.5 LBS.
2. MISSILE LAUNCHED FROM TYPE AERO 4A LAUNCHER.

SPARROW III AIM-7C MISSILE COMPONENTS

PHASE "A" ANTENNA - MISSILES R-1 TO R-1375

COMPONENT	CONTRACTORS NAME & PART NO. OR TYPE	PART SIZE L X W X H	PART WT.	QTY MSL	REMARKS
GUIDANCE & CONTROL SECT.	RAYTHEON SX101-8009	8.0 DIA X 80.3	138.9	1	NITROGEN CHARGED HPU INTEGRAL BATTERY / INVERTER
WARHEAD MK 18 MOD 0 MK 11 MOD 0	BUORD DWG 1519431	8.0 DIA X 14.0	69.6 65.0	1	
WARHEAD MK 38 MOD 0	BUORD DWG 1519431	8.0 DIA X 14.0	69.4	1	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
MOTOR SECT. MK 6 MOD 3	RAYTHEON HJ-SX101-8009	8.0 DIA X 51.9	127.4	1	BOATTAIL ASSEMBLED TO MOTOR
IGNITER MK 258 MOD 0	BUWEPS DWG 2313631	2.9 HEX X 3.7	—	1	FOR MOTOR SECTION
FORWARD FIN	RAYTHEON 2063-5035	18.6 X 2.5 X 17.9	7.9 EA	4	
FORWARD FIN	RAYTHEON 5504-5076	18.6 X 2.5 X 17.9	8.5 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
AFT FIN	RAYTHEON 2070-1021	18.5 X .9 X 12.7	2.8 EA.	4	
AFT FIN	RAYTHEON 2070-5018	18.5 X .9 X 12.7	3.0 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
REAR ANTENNA TUNNEL	RAYTHEON VC-7150575-2491	64.8 X 2.6 X 1.6	1.1 EA	2	
REAR ANTENNA	RAYTHEON HJ-2146-1051	65.2 X 1.8 X .8	1.0	1	
TUNNEL BAND	RAYTHEON HC-2146-1064	8.0 DIA X .9	.3 EA	3	

SPARROW III AIM-7C OPERATIONAL CHARACTERISTICS

- | | |
|---|--|
| 1. TYPE DETECTION - SEMI-ACTIVE CW RADAR HOMING | 7. TYPE FUZING - INFLUENCE |
| 2. TYPE GUIDANCE - PROPORTIONAL NAVIGATION | 8. TYPE PROPULSION - SOLID PROPELLANT |
| 3. GUIDANCE TIME DURATION - | 9. NOMINAL MOTOR BURN TIME - |
| 4. TYPE CONTROL - HYDRAULICALLY OPERATED | 10. SPEED - SUPERSONIC |
| 5. TYPE WARHEAD - CONTINUOUS ROD | 11. RANGE - 9 MILES |
| 6. WARHEAD KILL RADIUS - | 12. MAX OPERATING ALTITUDE - 60,000 FEET |

NOTE:

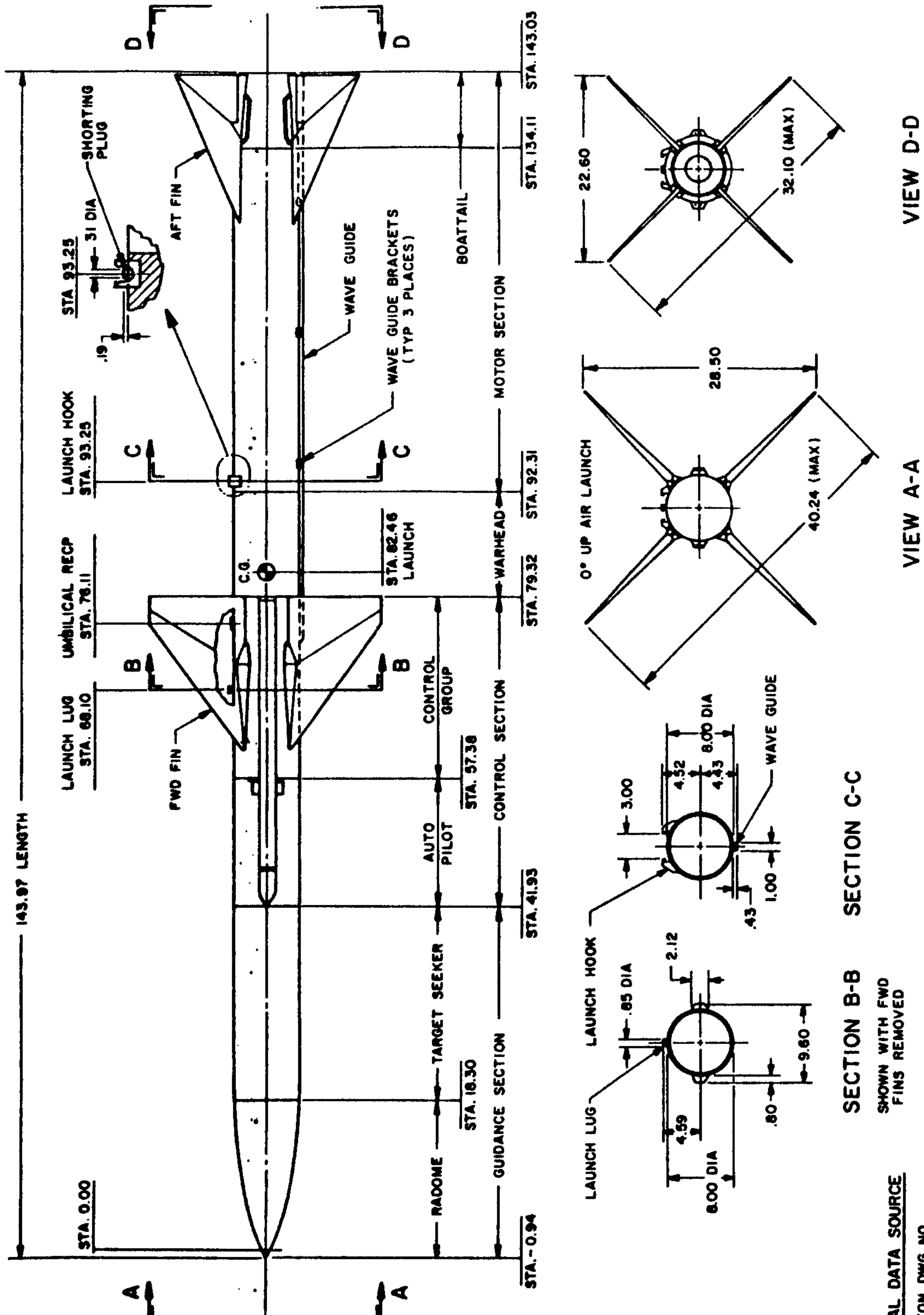
1. WEAPON IS RECEIVED ABOARD SHIP IN COMPONENT FORM AND IS STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE WEAPONS.

ORIGINAL DATA SOURCE

NAVWEPS 01-265GMAD-9
DATED 1 MARCH 1967

SPARROW III AIM-7C GENERAL ARRANGEMENT

PHASE "C" ANTENNA - MISSILES R-1376 TO R-3454



ORIGINAL DATA SOURCE
 RAYTHEON DWG NO. 138314 REV E
 DATED 21 FEB. 1966
 NAVWEPS 01-265GMAD-9
 DATED 1 MARCH 1967

SECTION B-B
 SHOWN WITH FWD
 FINS REMOVED

SECTION C-C

VIEW A-A

VIEW D-D

NOTES:

1. APPROXIMATE WEIGHT - 377.5 LBS.
2. MISSILE IS LAUNCHED FROM TYPE AERO 4A AND LAU-17A LAUNCHERS.

SPARROW III AIM-7C MISSILE COMPONENTS

PHASE "C" ANTENNA-MISSILES R-1376 TO R-3454

COMPONENT	CONTRACTORS NAME & PART NO. OR TYPE	PART SIZE L X W X H	PART WT.	QTY MSL	REMARKS
GUIDANCE & CONTROL SECT.	RAYTHEON SX-110-8009	8.0 DIA X 80.3	138.9	1	NITROGEN CHARGED HPU POWDER GRAIN EPU FOR MISSILES R-1376 TO R-1804 ONLY
GUIDANCE & CONTROL SECT.	RAYTHEON SX-110-8009	8.0 DIA X 80.3	138.9	1	NITROGEN CHARGED HPU; POWDER GRAIN EPU; ROLL COMMAND ENGLISH BIAS FOR MISSILES R-1805 TO R-3454 ONLY
WARHEAD MK 18 MOD 0 MK 11 MOD 0	BUORD DWG. 1519431	8.0 DIA X 14.0	69.6 65.0	1	
WARHEAD MK 38 MOD 0	BUORD DWG. 1519431	8.0 DIA X 14.0	69.4	1	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
MOTOR SECT. MK 6 MOD 3	RAYTHEON HJ-SX101 - 8009	8.0 DIA X 51.9	127.4	1	BOATTAIL ASSEMBLED TO MOTOR
IGNITER MK 258 MOD 0	BUWEPS DWG. 2313631	2.9 HEX X 3.7	-	1	FOR MOTOR SECTION
FORWARD FIN	RAYTHEON 2063-5035	18.6 X 2.5 X 17.9	7.9 EA.	4	
FORWARD FIN	RAYTHEON 5504-5076	18.6 X 2.5 X 17.9	8.5 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
AFT FIN	RAYTHEON 2070-1021	18.5 X 9 X 12.7	2.8 EA.	4	
AFT FIN	RAYTHEON 2070-5018	18.5 X 9 X 12.7	3.0 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
WAVEGUIDE	RAYTHEON VO-7108707-900	69.2 X 1.5 X 1.0	1.5	1	

SPARROW III AIM-7C OPERATIONAL CHARACTERISTICS

- | | |
|---|--|
| 1. TYPE DETECTION - SEMI ACTIVE CW RADAR HOMING | 7. TYPE FUZING - INFLUENCE |
| 2. TYPE GUIDANCE - PROPORTIONAL NAVIGATION | 8. TYPE PROPULSION - SOLID PROPELLANT |
| 3. GUIDANCE TIME DURATION - | 9. NOMINAL MOTOR BURN TIME - |
| 4. TYPE CONTROL - HYDRAULICALLY OPERATED | 10. SPEED - SUPERSONIC |
| 5. TYPE WARHEAD - CONTINUOUS ROD | 11. RANGE - 9 MILES |
| 6. WARHEAD KILL RADIUS - | 12. MAX OPERATING ALTITUDE - 60,000 FEET |

NOTE:

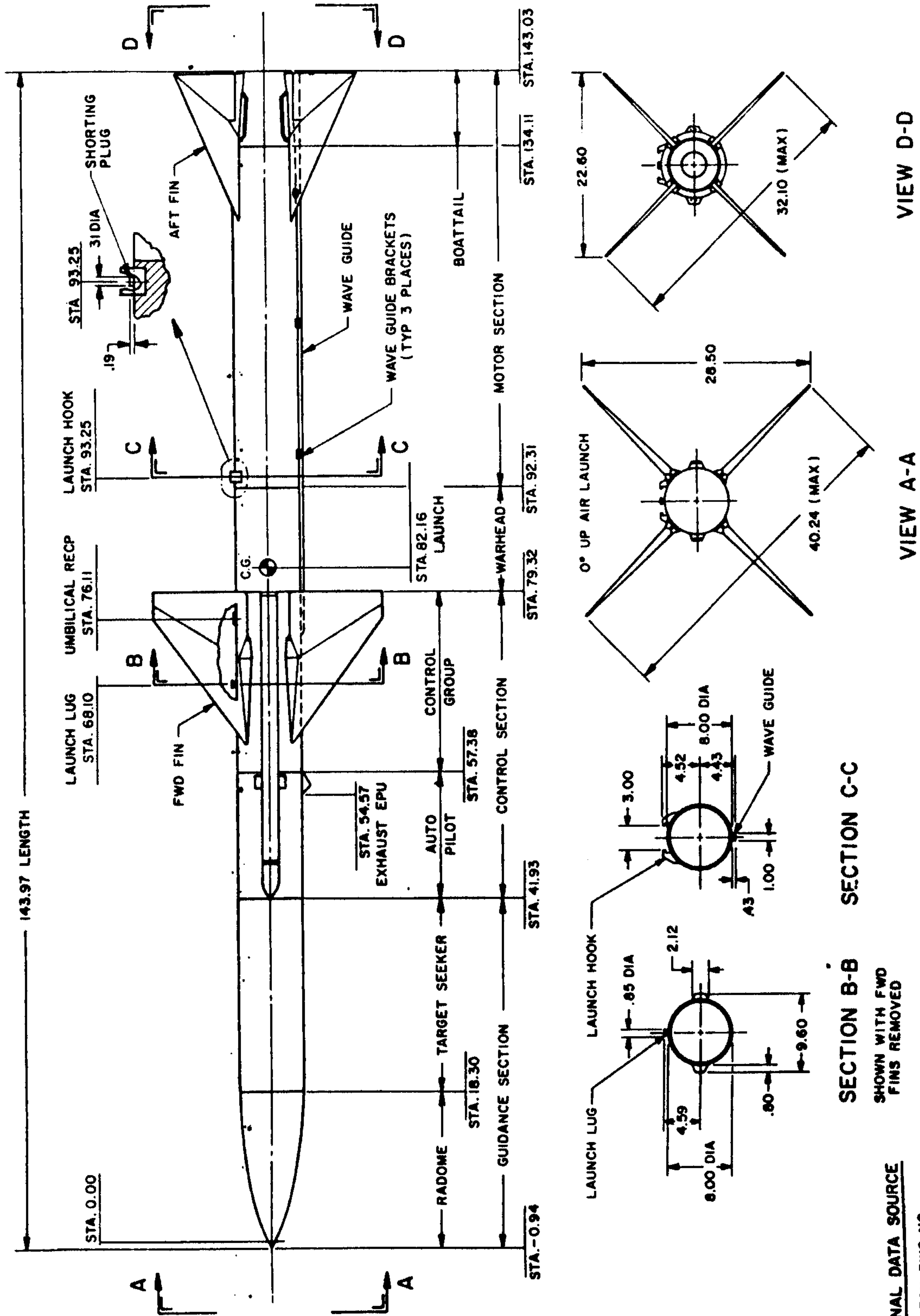
1. WEAPON IS RECEIVED ABOARD SHIP IN COMPONENT FORM AND IS STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE WEAPONS.

ORIGINAL DATA SOURCE

NAVWEPS 01-265 GMAD-9
DATED 1 MARCH 1967

SPARROW III AIM-7D GENERAL ARRANGEMENT

PHASE "C" ANTENNA - MISSILES R-3455 TO R-11083



ORIGINAL DATA SOURCE
 RAYTHEON DWG NO. 138314 REV E
 DATED 21 FEB. 1966
 NAVWEPS 01-265GMAD-9
 DATED 1 MARCH 1967

NOTES:
 1. APPROXIMATE WEIGHT - 397.9 LBS.
 2. MISSILE LAUNCHED FROM TYPE AERO 4A, AERO 7A OR LAU-17/A LAUNCHERS.

SECTION B-B SECTION C-C
 SHOWN WITH FWD
 FINS REMOVED

SPARROW III AIM-7D MISSILE COMPONENTS

PHASE "C" ANTENNA - MISSILES R-3455 TO R-11083

COMPONENT	CONTRACTORS NAME & PART NO. OR TYPE	PART SIZE L X W X H	PART WT.	QTY MSL	REMARKS
GUIDANCE & CONTROL SECT	RAYTHEON SX-101-8009	8.0 DIA X 80.3	150.1	1	NITROGEN CHARGED HPU; POWDER GRAIN EPU, ROLL COMMAND ENGLISH BIAS
GUIDANCE & CONTROL SECT.	RAYTHEON SX-101-8009	8.0 DIA X 80.3	150.1	1	HYDRAULIC POWER UNIT MIDSECTION; POWDER GRAIN EPU; ROLL COMMAND ENGLISH BIAS FOR MISSILES R-3455 TO R-8125 MUST BE MODIFIED AS PER ALMC #5
GUIDANCE & CONTROL SECT.	RAYTHEON SX 101-8009	8.0 DIA X 80.3	150.1	1	HYDRAULIC POWER UNIT MIDSECTION, POWDER GRAIN EPU; ROLL COMMAND ENGLISH BIAS FOR MISSILES R-8126 TO 11083
WARHEAD MK 18 MOD 0	BUORD DWG 1519431	8.0 DIA X 14.0	69.6	1	
WARHEAD MK 38 MOD 0	BUORD DWG 1519431	8.0 DIA X 14.0	69.4	1	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
MOTOR SECT. MK 6 MOD 3	RAYTHEON HU-SX 101-8009	8.0 DIA X 51.9	127.4	1	BOATTAIL ASSEMBLED TO MOTOR
IGNITER MK 258 MOD 0	BUWEPS DWG 2313631	2.9 HEX X 3.7	—	1	FOR MOTOR SECTION
FORWARD FIN	RAYTHEON 5504-5076	18.6 X 2.5 X 17.9	8.5 EA.	4	
FORWARD FIN	RAYTHEON 2063-5147	18.6 X 2.5 X 17.9	9.4 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
AFT FIN	RAYTHEON 2070-1021	18.5 X .9 X 12.7	2.8 EA.	4	
AFT FIN	RAYTHEON 2070-5018	18.5 X .9 X 12.7	3.0 EA.	4	SEE NAVWEPS 01-265 GMAD-9 PARA. 2-41 FOR USAGE
WAVEGUIDE	RAYTHEON VD-7108707-900	69.2 X 1.5 X 1.0	1.5	1	

SPARROW III AIM-7D OPERATIONAL CHARACTERISTICS

- | | |
|---|--|
| 1. TYPE DETECTION - SEMI-ACTIVE CW RADAR HOMING | 7. TYPE FUZING - INFLUENCE |
| 2. TYPE GUIDANCE - PROPORTIONAL NAVIGATION | 8. TYPE PROPULSION - SOLID PROPELLANT |
| 3. GUIDANCE TIME DURATION - | 9. NOMINAL MOTOR BURN TIME - |
| 4. TYPE CONTROL - HYDRAULICALLY OPERATED | 10. SPEED - SUPERSONIC |
| 5. TYPE WARHEAD - CONTINUOUS ROD | 11. RANGE - 10 MILES |
| 6. WARHEAD KILL RADIUS - | 12. MAX OPERATING ALTITUDE - 70,000 FEET |

NOTES:

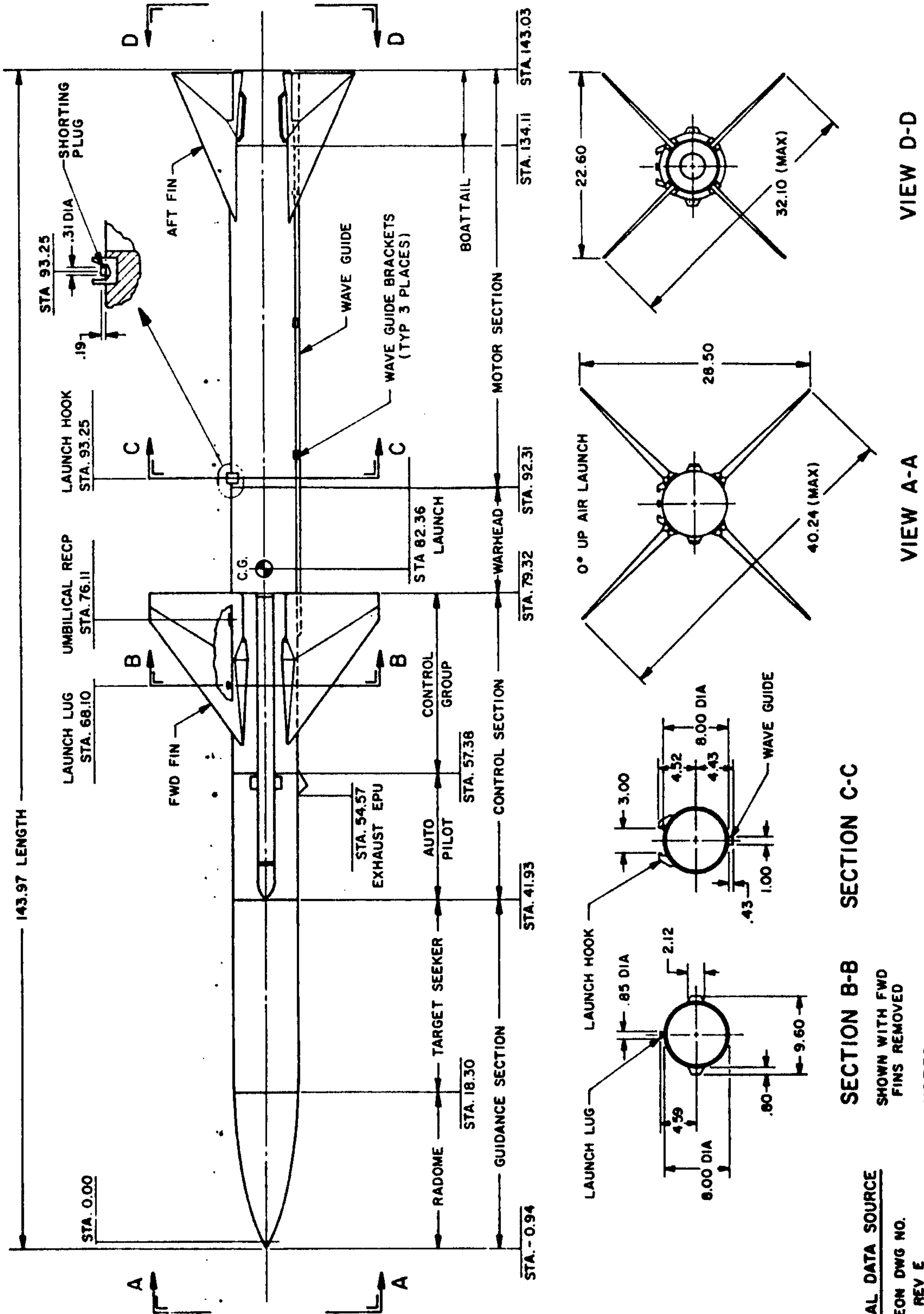
- WEAPONS ARE PRESENTLY RECEIVED ABOARD SHIP IN COMPONENT FORM AND STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE WEAPONS.
- UPON IMPLEMENTATION OF THE IRR PROGRAM, WEAPONS WILL BE RECEIVED ABOARD SHIP ASSEMBLED (LESS FINS), THREE PER MK 12 MOD 2 CRADLE. WEAPONS WILL BE STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE.

ORIGINAL DATA SOURCE

NAVWEPS 01-265GMAD-9
DATED 1 MARCH 1967

SPARROW III AIM-7E GENERAL ARRANGEMENT

PHASE "C" ANTENNA- MISSILES R-1-B AND SUBSEQUENT



ORIGINAL DATA SOURCE
 RAYTHEON DWG NO. 138314 REV E
 DATED 21 FEB. 1966
 NAVWEPS 01-265GMAD-9
 DATED 1 MARCH 1967

SECTION B-B SECTION C-C

SHOWN WITH FWD
 FINS REMOVED

NOTES:

1. APPROXIMATE WEIGHT - 435.1 LBS.
2. MISSILE IS LAUNCHED FROM TYPE AERO 7A AND LAU-17/A LAUNCHERS.

SPARROW III AIM-7E MISSILE COMPONENTS

PHASE "C" ANTENNA - MISSILES R-I-B AND SUBSEQUENT

COMPONENT	CONTRACTORS NAME & PART NO. OR TYPE	PART SIZE L X W X H	PART WT.	QTY MSL	REMARKS
GUIDANCE & CONTROL SECT.	RAYTHEON SX-101-8009	8.0 DIA X 80.3	155.7	1	HYDRAULIC POWER UNIT MIDSECTION; POWDER GRAIN EPU; ROLL COMMAND ENGLISH BIAS
WARHEAD MK 38 MOD 0	BUORD DWG 1519431	8.0 DIA X 14.0	69.4	1	
MOTOR SECT. MK 38 MOD 0	RAYTHEON VD-7150575-2681	8.0 DIA X 51.9	155.5	1	BOATTAIL INTEGRAL PART OF MOTOR SECTION
IGNITER MK 265 MOD 0	NAA DWG 801308	1.8 HEX X 8.9	1.4	1	FOR MOTOR SECTION
FORWARD FIN	RAYTHEON 2063-5147	18.6 X 2.6 X 17.9	9.4 EA.	4	
AFT FIN	RAYTHEON 2070-5018	18.5 X 9 X 12.7	3.0 EA.	4	
WAVEGUIDE	RAYTHEON VD-7108707-900	69.2 X 1.5 X 1.0	1.5	1	

SPARROW III AIM-7E OPERATIONAL CHARACTERISTICS

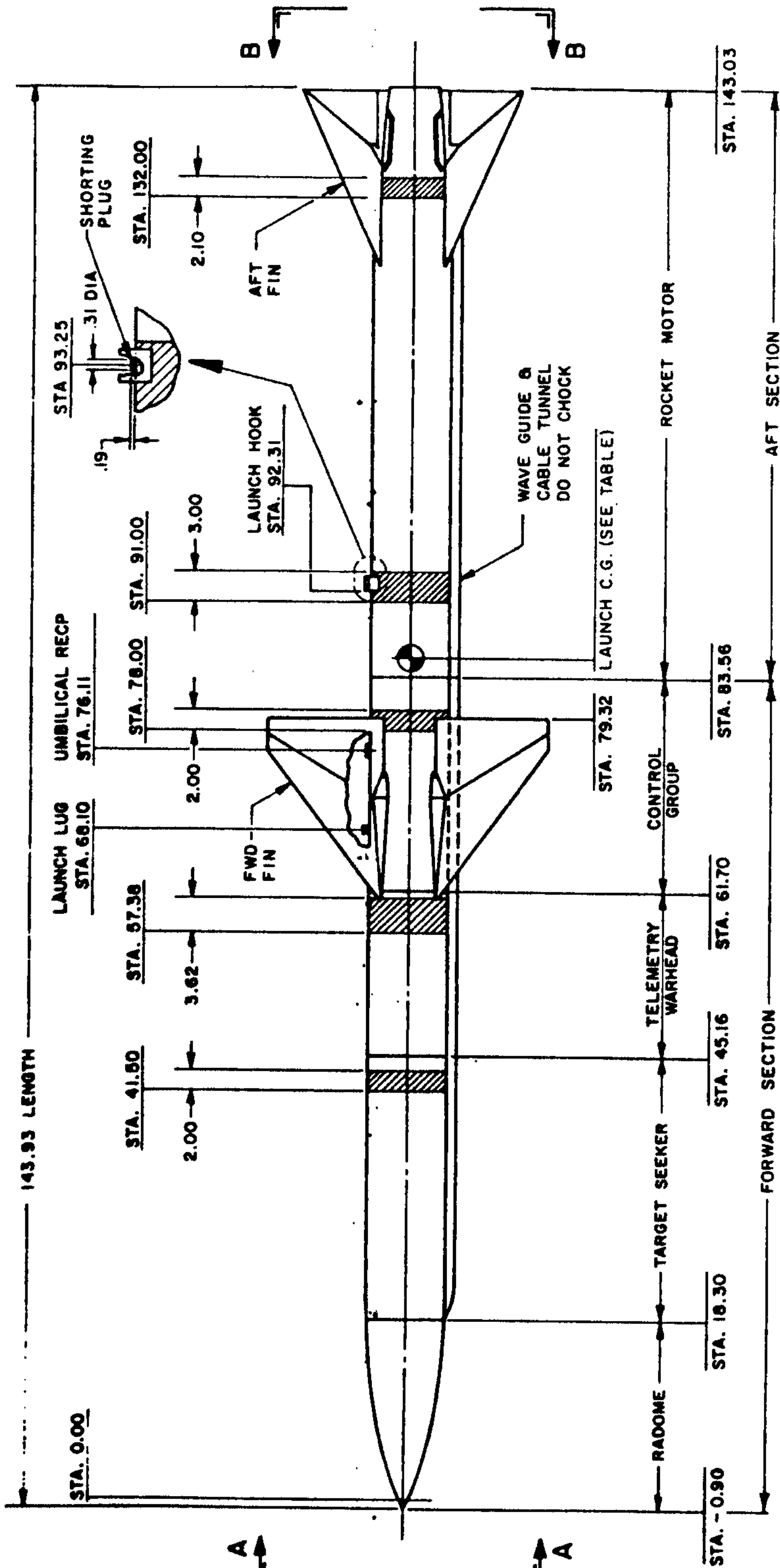
- | | |
|---|--|
| 1. TYPE DETECTION - SEMI-ACTIVE CW RADAR HOMING | 7. TYPE FUZING - INFLUENCE AND CONTACT |
| 2. TYPE GUIDANCE - PROPORTIONAL NAVIGATION | 8. TYPE PROPULSION - SOLID PROPELLANT |
| 3. GUIDANCE TIME DURATION - | 9. NOMINAL MOTOR BURN TIME - |
| 4. TYPE CONTROL - HYDRAULICALLY OPERATED | 10. SPEED - SUPERSONIC |
| 5. TYPE WARHEAD - CONTINUOUS ROD | 11. RANGE - 13 MILES |
| 6. WARHEAD KILL RADIUS - | 12. MAX OPERATING ALTITUDE - 90,000 FEET |

NOTES:

- WEAPONS ARE PRESENTLY RECEIVED ABOARD SHIP IN COMPONENT FORM AND STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE WEAPONS.
- UPON IMPLEMENTATION OF THE IRR PROGRAM, WEAPONS WILL BE RECEIVED ABOARD SHIP ASSEMBLED (LESS FINS), THREE PER MK 12 MOD 2 CRADLE. WEAPONS WILL BE STOWED IN THIS CONDITION EXCEPT FOR A NUMBER OF READY SERVICE.

ORIGINAL DATA SOURCE
 NAVWEPS 01-265GMAD-9
 DATED 1 MARCH 1967

SPARROW III XAIM-7F GENERAL ARRANGEMENT



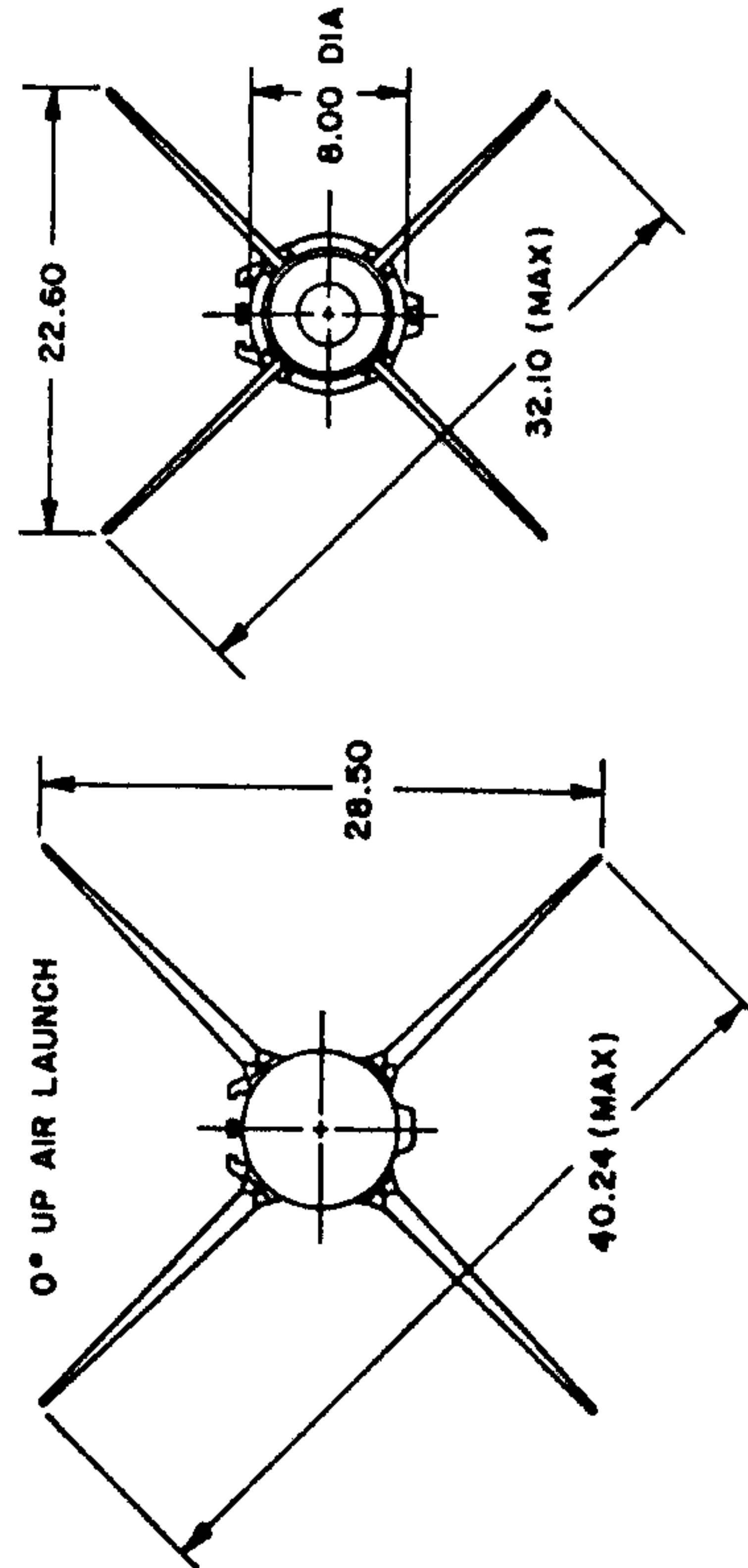
MISSILE ASSY	C.G. AT LAUNCH	LAUNCH WEIGHT	C.G. AT BURNOUT	BURNOUT WEIGHT
XAIM 7F-1	STA 82.2	455.6 LBS	↑	358.3 LBS
XAIM 7F-2	STA 81.8	472.8 LBS	STA 73.0	375.5 LBS
XAIM 7F-3	STA 83.7	499.6 LBS	↓	365.1 LBS
XAIM 7F-4	STA 83.4	516.9 LBS	↓	382.4 LBS

NOTES:

1. FINS SIMILAR TO THOSE USED ON AIM-7E.
2. [Hatched Area Symbol] DENOTES HARD AREA.
3. APPROXIMATE WEIGHT (LESS FINS) - 453.1 LBS (MAX)

ORIGINAL DATA SOURCE

RAYTHEON REPORT BR 4311
DATED JUNE 1967



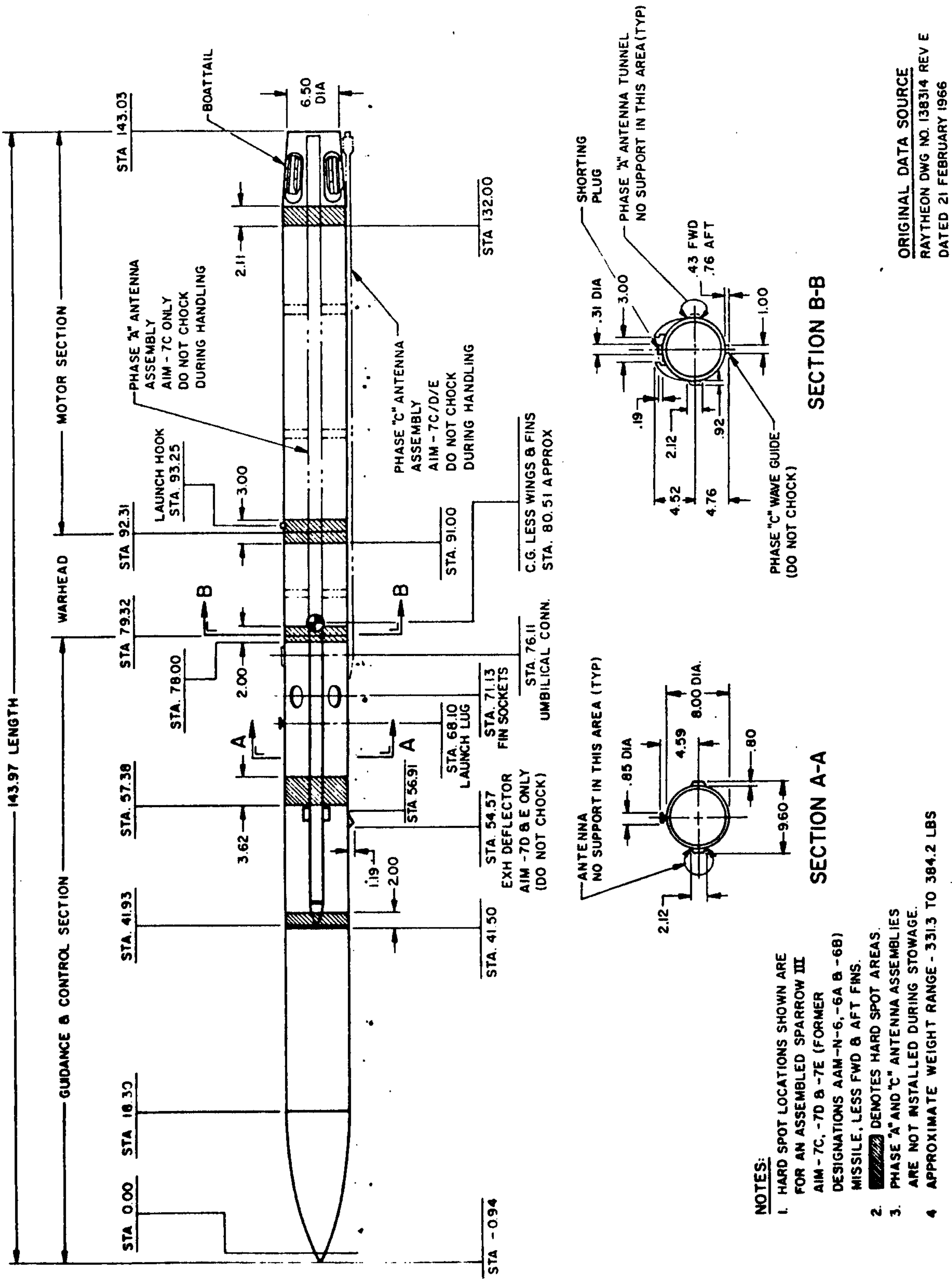
VIEW A-A

VIEW B-B

PRELIMINARY

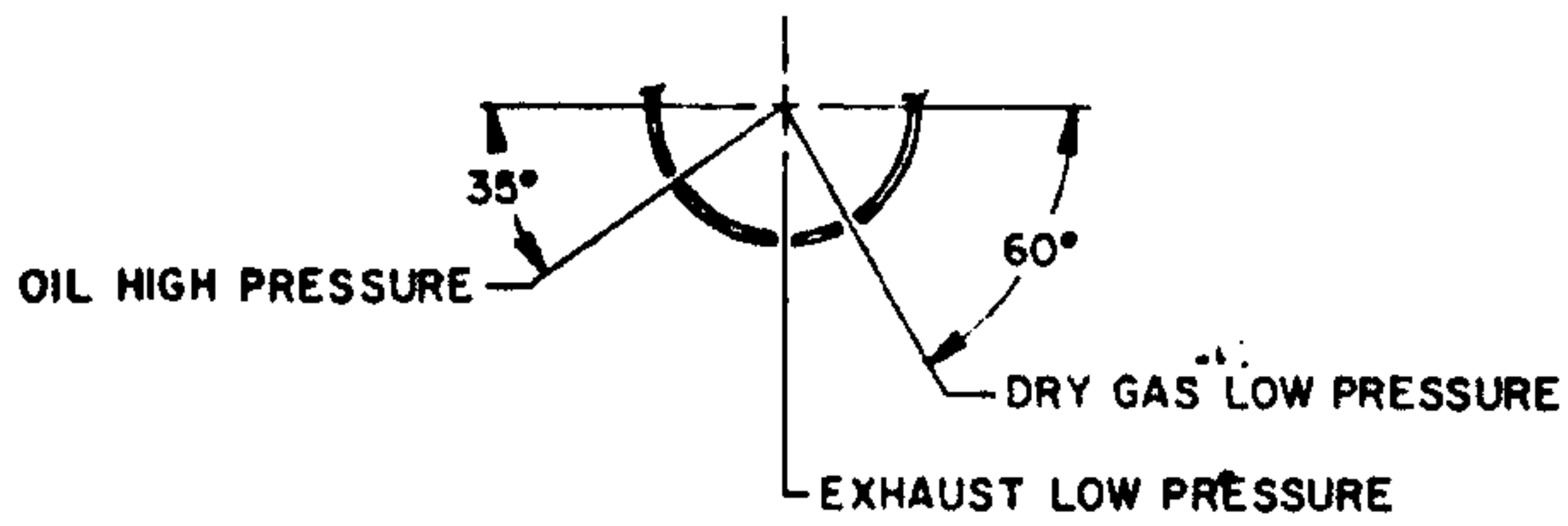
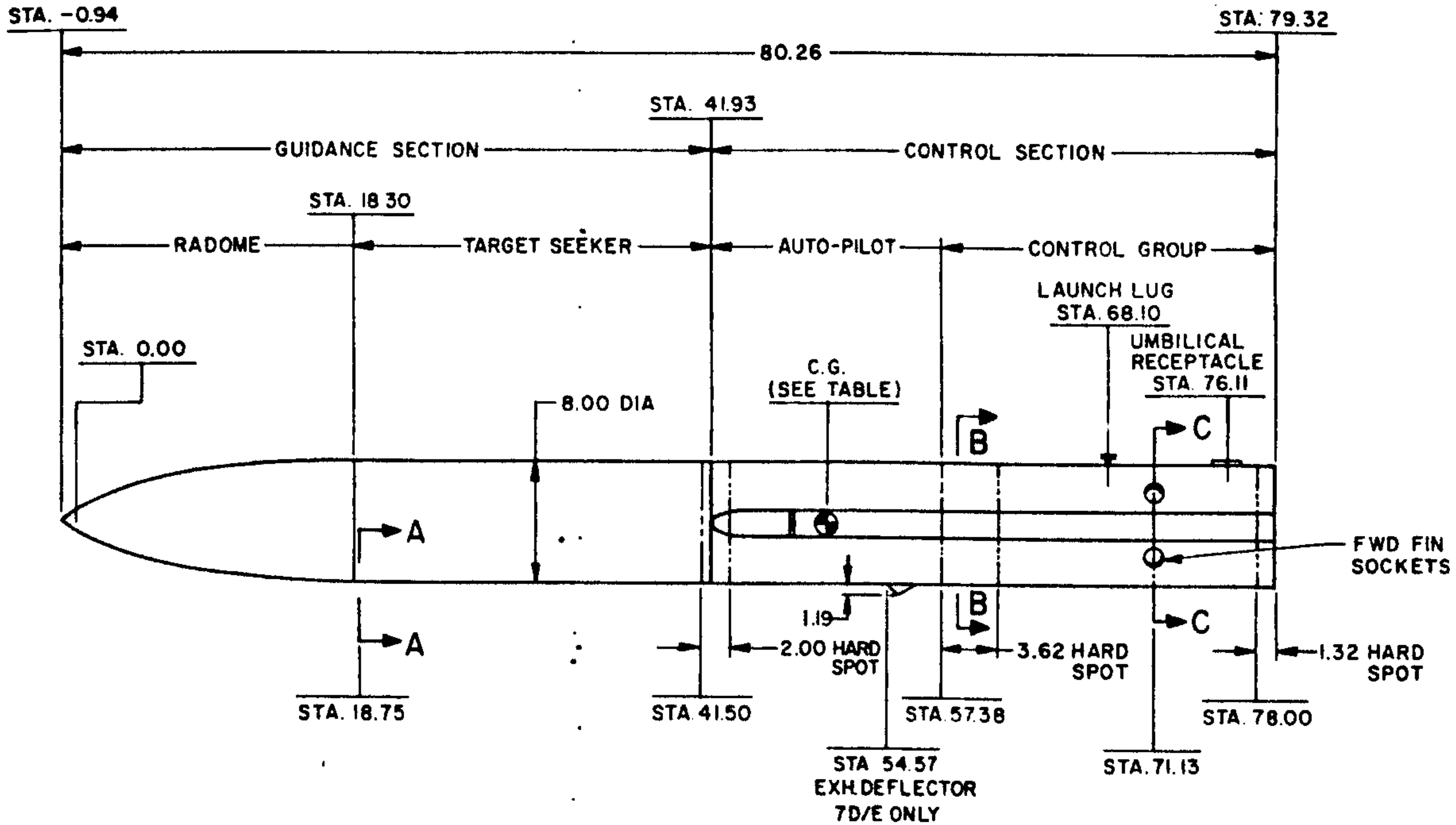
SPARROW III AIM-7 HARD SPOT LOCATIONS

PHASE "A" AND "C" ANTENNAS

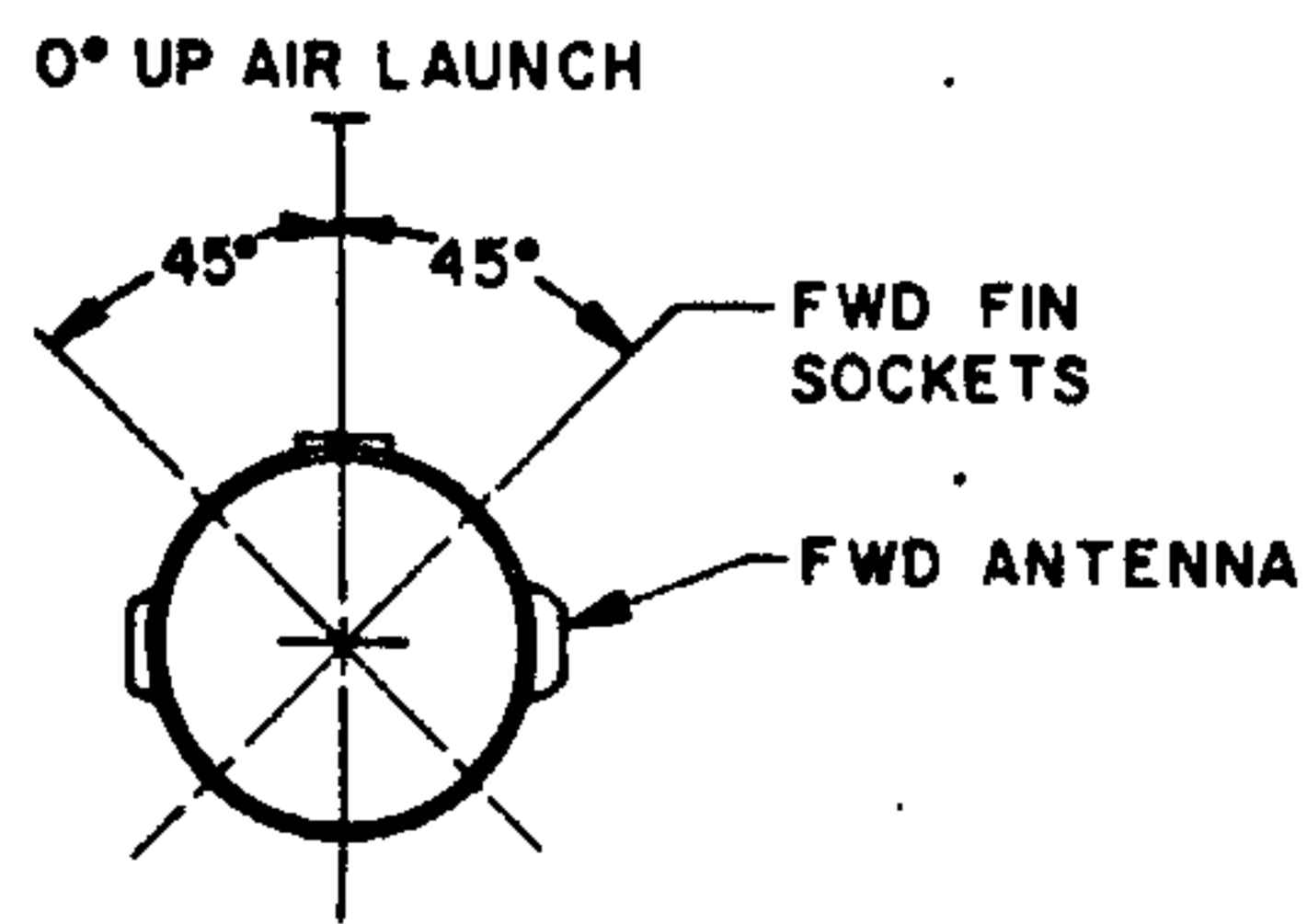


ORIGINAL DATA SOURCE
RAYTHEON DWG NO. 138314 REV E
DATED 21 FEBRUARY 1966

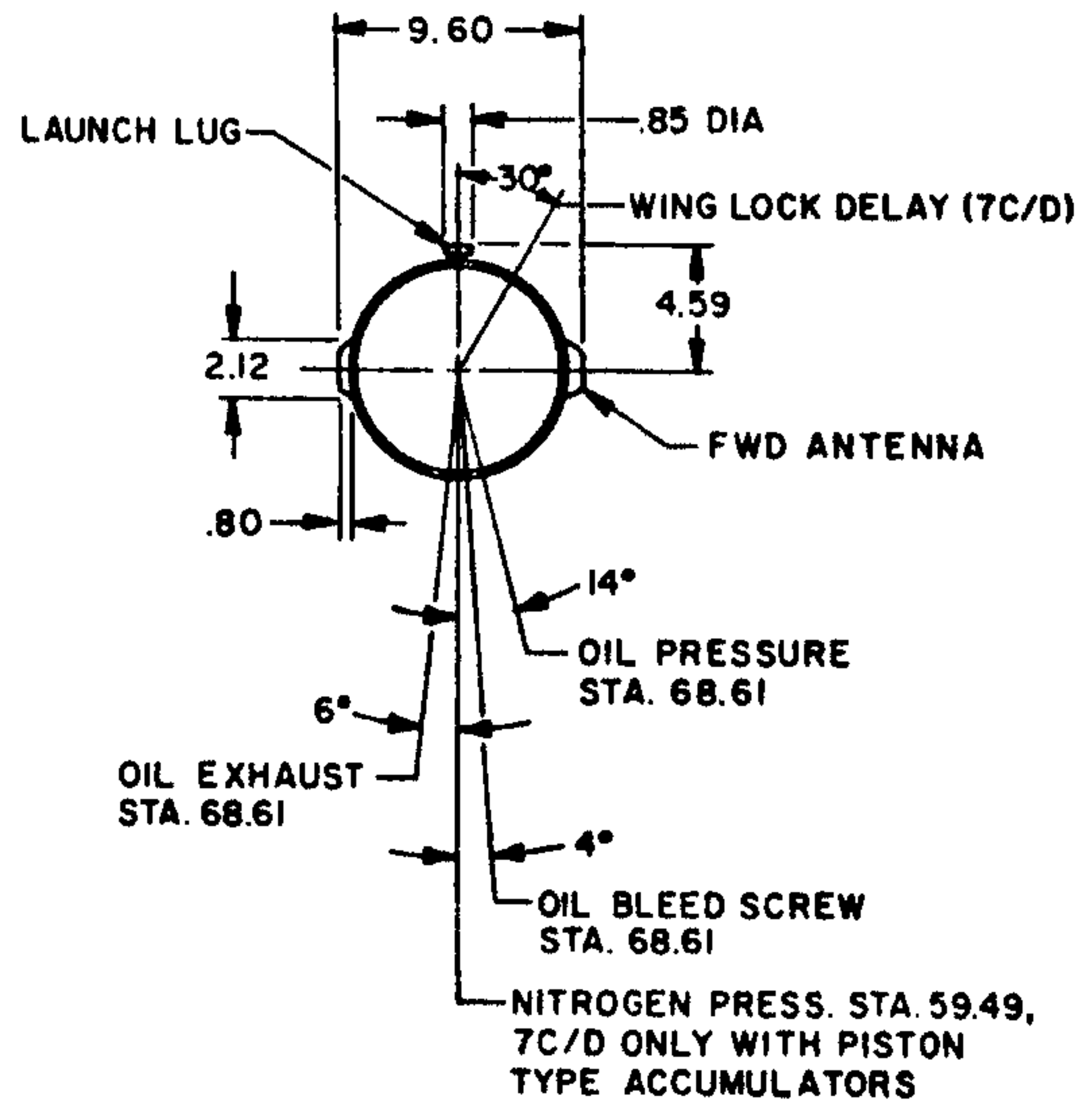
GUIDANCE AND CONTROL SECTION SPARROW III AIM-7C/D/E



SECTION A-A



SECTION C-C



SECTION B-B

G & C	WEIGHT (LBS)	C.G. STA.
AIM-7C	138.9	49.30
AIM-7D	150.1	47.90
AIM-7E	155.7	48.80

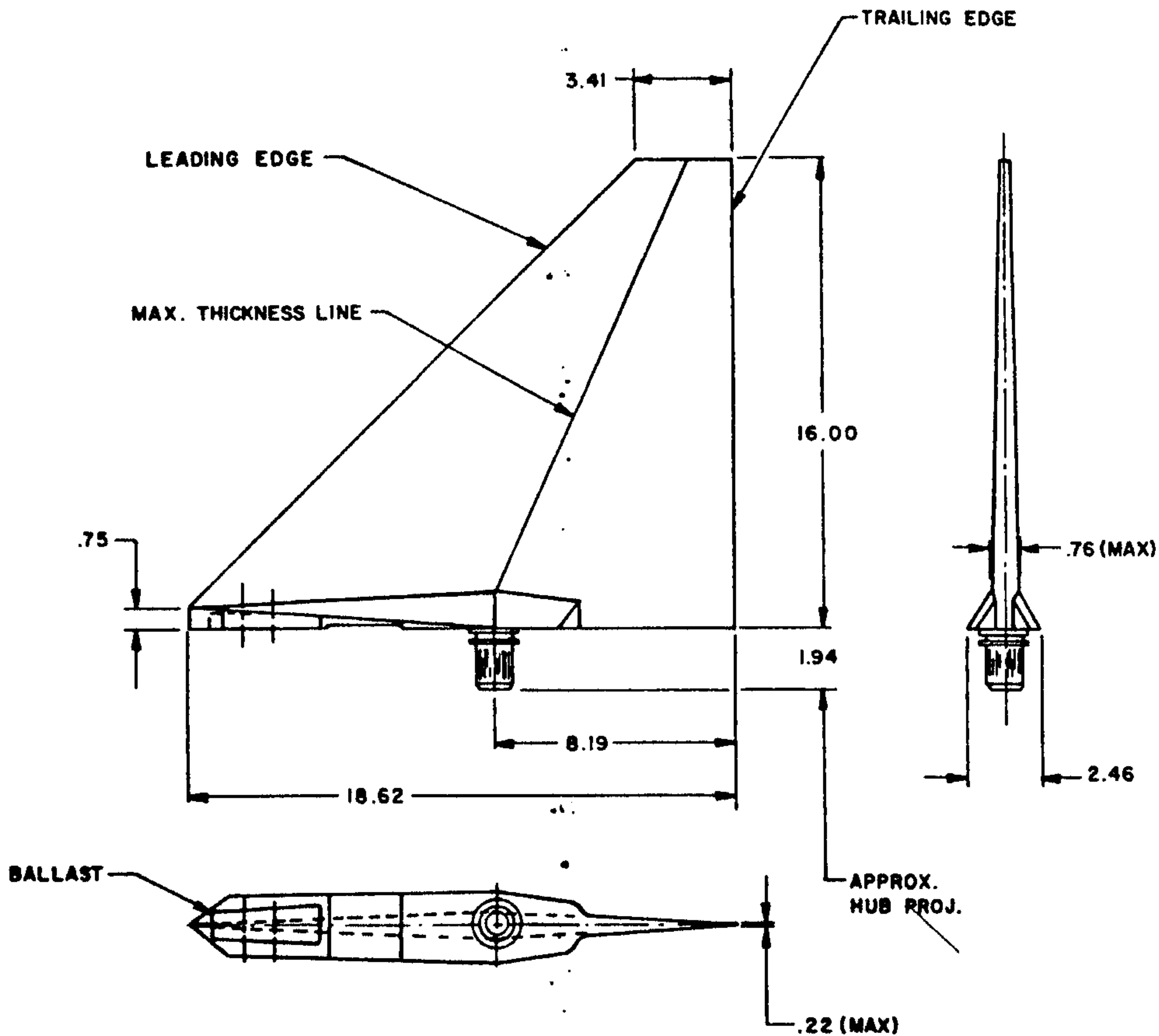
NOTE:

- THE SECTIONS FOR PHASE "A" ANTENNA ARE NOT INTERCHANGEABLE WITH PHASE "C" ANTENNA SECTIONS. THE DIFFERENCES DO NOT AFFECT STOWAGE.

ORIGINAL DATA SOURCE
RAYTHEON DWG NO. 138314 REV E
DATED 21 FEBRUARY 1966
NAVWEPS OI-265GMAD-9
DATED 1 MARCH 1967

FORWARD FIN

SPARROW III AIM-7C/D/E



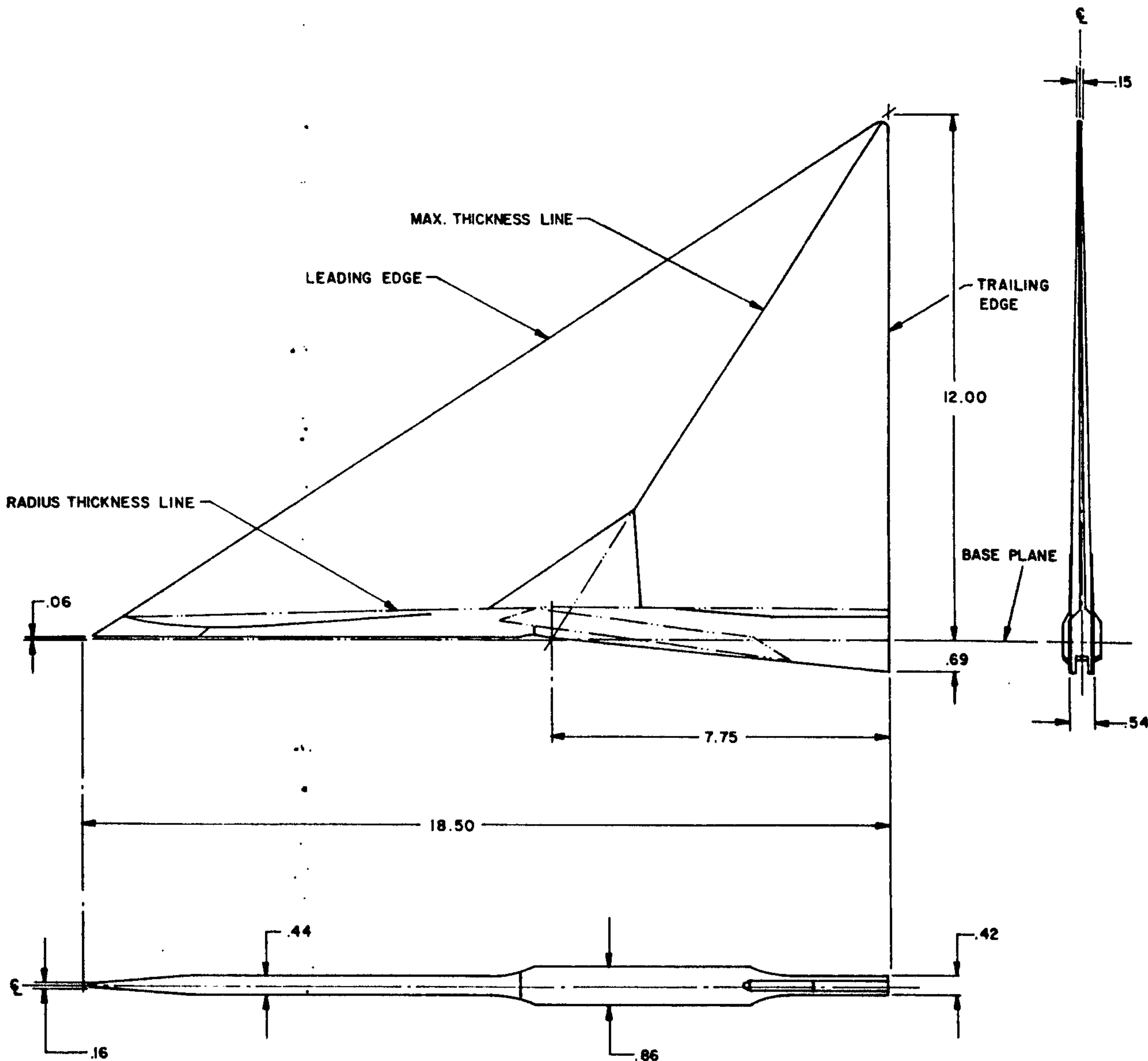
NOTES:

1. FOUR FORWARD FINS SHOWN ARE REQUIRED PER MISSILE.
2. DIMENSIONS SHOWN ARE BASIC, AND APPLY TO ALL SPARROW III FORWARD FINS.
3. APPROXIMATE WEIGHTS (SET OF 4):
 - AIM-7C FINS - 31.5 LBS
 - AIM-7D FINS - 33.8 LBS.
 - AIM-7E FINS - 37.4 LBS.

ORIGINAL DATA SOURCE
RAYTHEON DWG NO.
2063-1717 REV D
DATED 27 FEBRUARY 1964
138314 REV E
DATED 21 FEBRUARY 1966
NAVWEPS 01-265GMAD-9
DATED 1 MARCH 1967

AFT FIN

SPARROW III AIM-7C/D/E

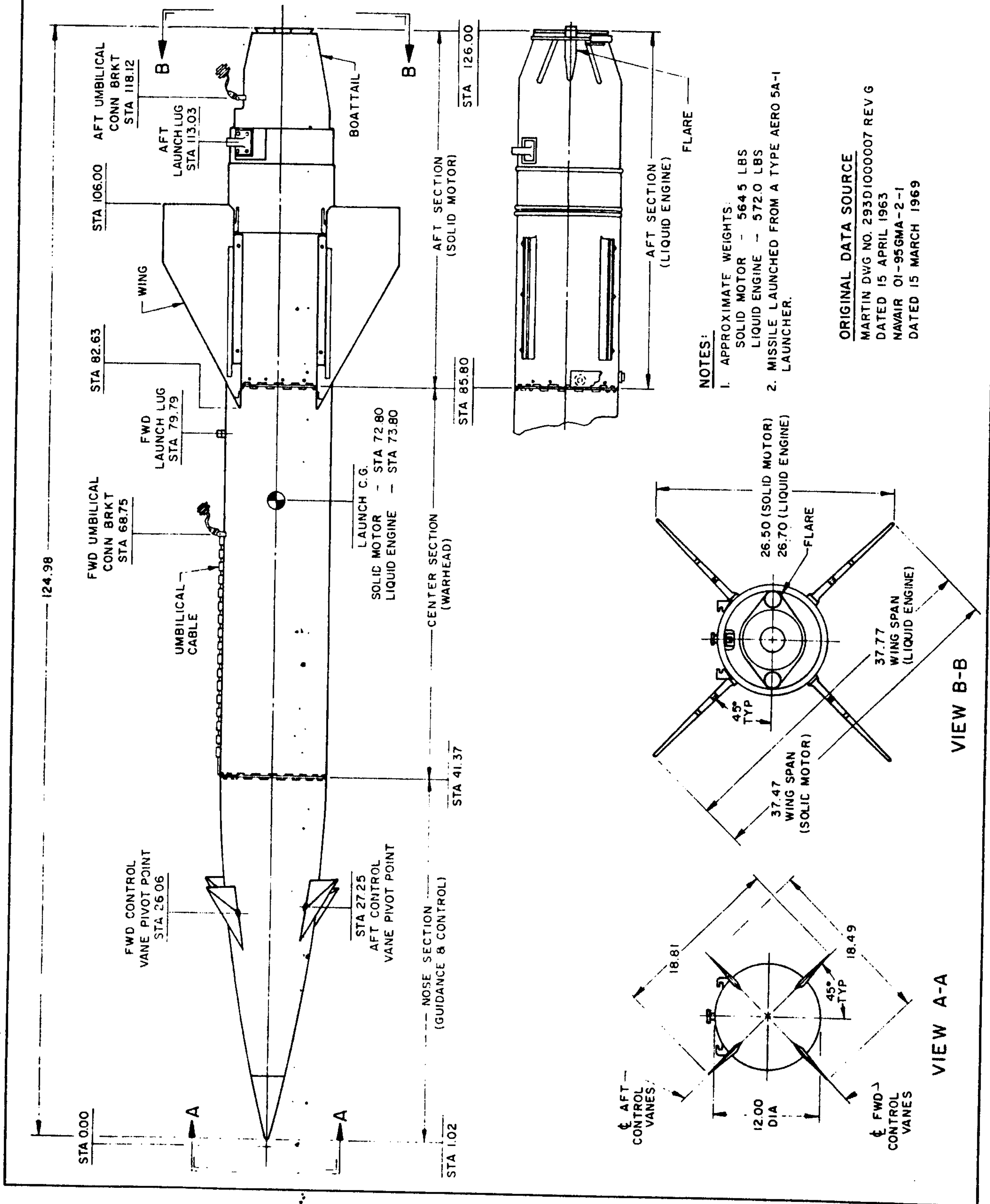


NOTES:

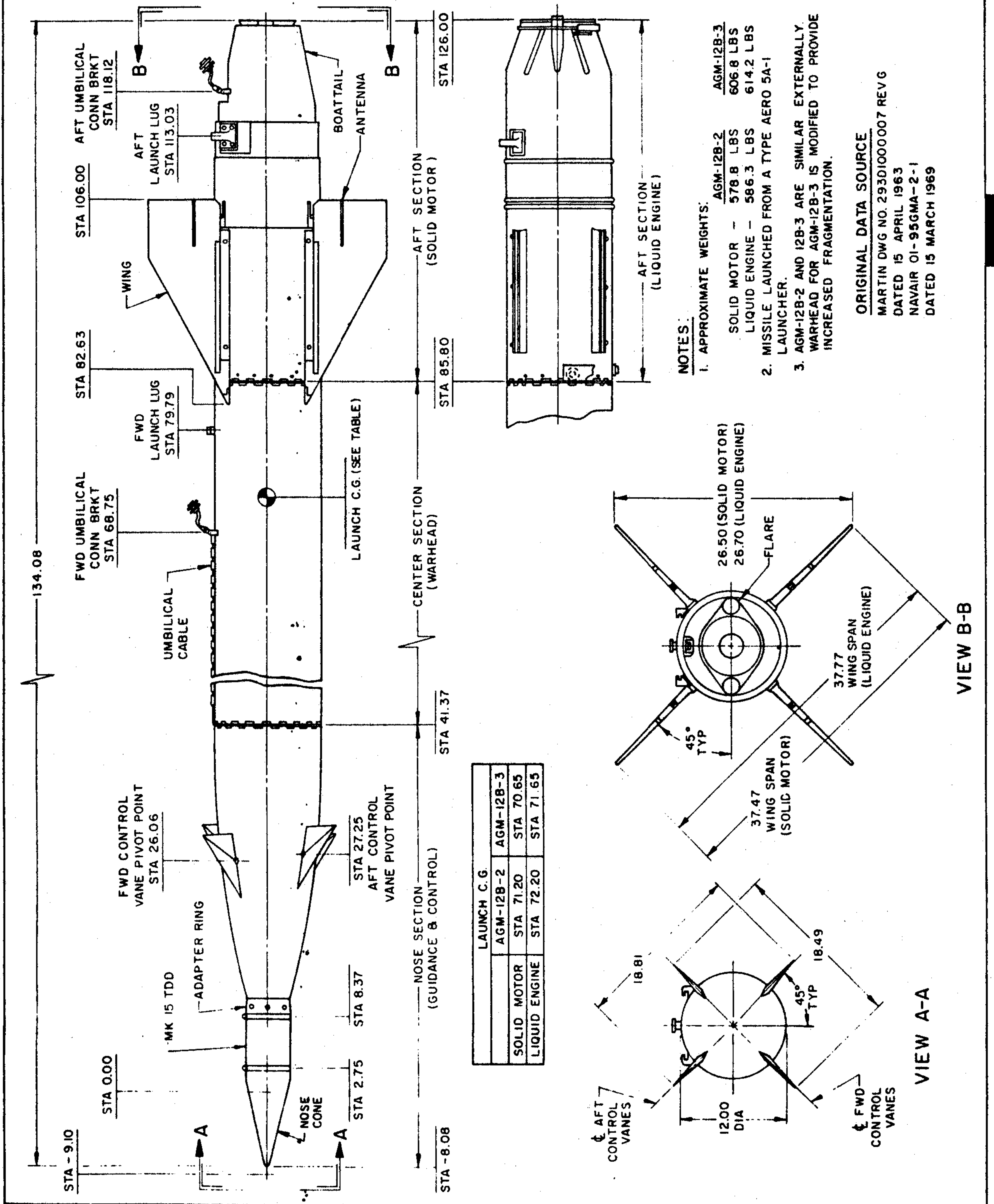
1. FOUR AFT FINS SHOWN ARE REQUIRED PER MISSILE.
2. DIMENSIONS SHOWN ARE BASIC, AND APPLY TO ALL SPARROW III AFT FINS.
3. APPROXIMATE WEIGHTS (SET OF FOUR):
 - AIM-7C FINS - 11.3 LBS
 - AIM-7D FINS - 11.3 LBS
 - AIM-7E FINS - 12.0 LBS

ORIGINAL DATA SOURCE
RAYTHEON DWG NO.
2070-1045 REV D
DATED 7 MARCH 1963
138314 REV E
DATED 21 FEBRUARY 1966
NAVWEP5 01-265GMAD-9
DATED 1 MARCH 1967

BULLPUP AGM-12B GENERAL ARRANGEMENT



BULLPUP AGM-12B-2/3 GENERAL ARRANGEMENT

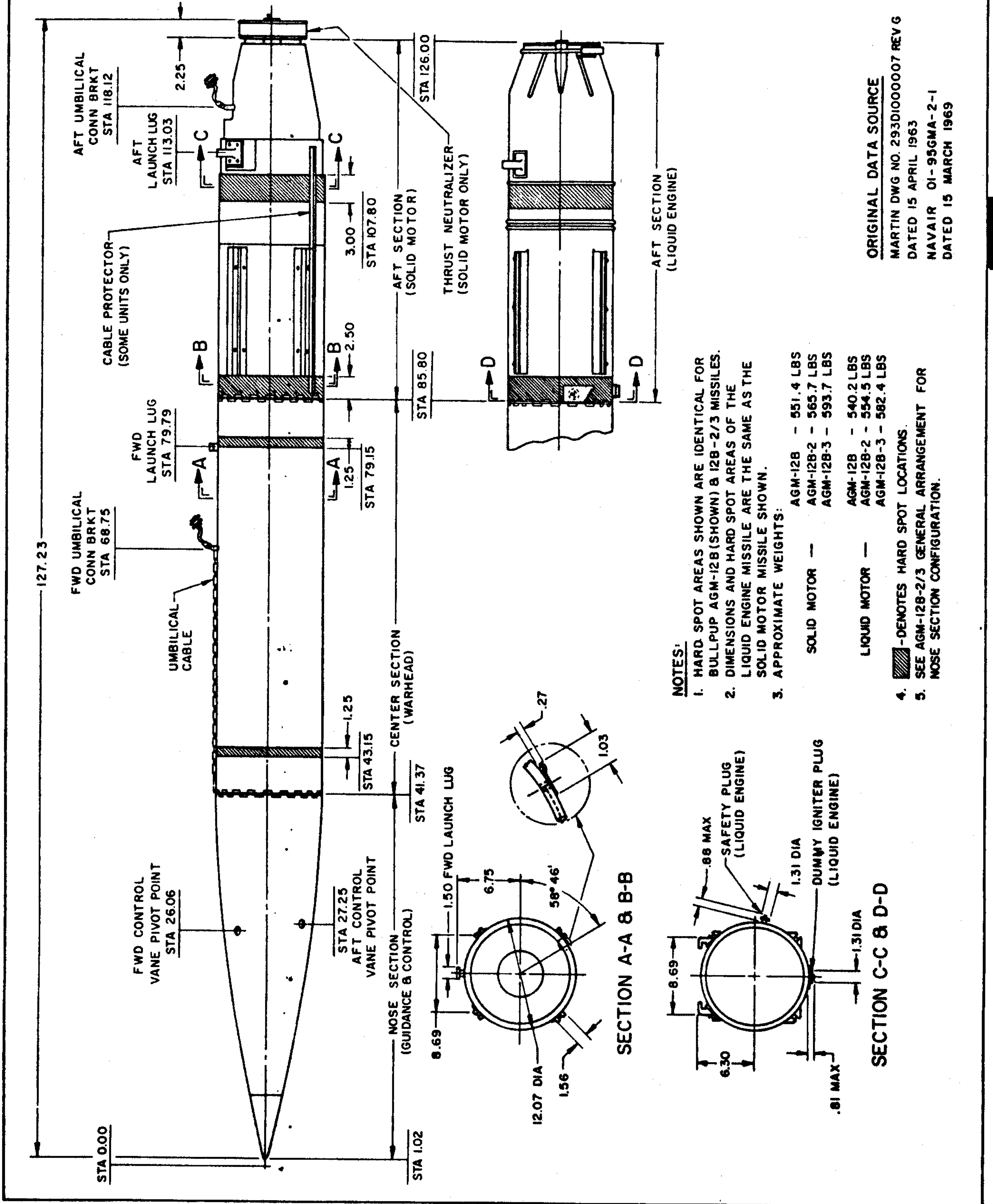


- NOTES:**
- APPROXIMATE WEIGHTS:

AGM-12B-2	AGM-12B-3
SOLID MOTOR - 578.8 LBS	606.8 LBS
LIQUID ENGINE - 586.3 LBS	614.2 LBS
 - MISSILE LAUNCHED FROM A TYPE AERO 5A-1 LAUNCHER.
 - AGM-12B-2 AND 12B-3 ARE SIMILAR EXTERNALLY. WARHEAD FOR AGM-12B-3 IS MODIFIED TO PROVIDE INCREASED FRAGMENTATION.

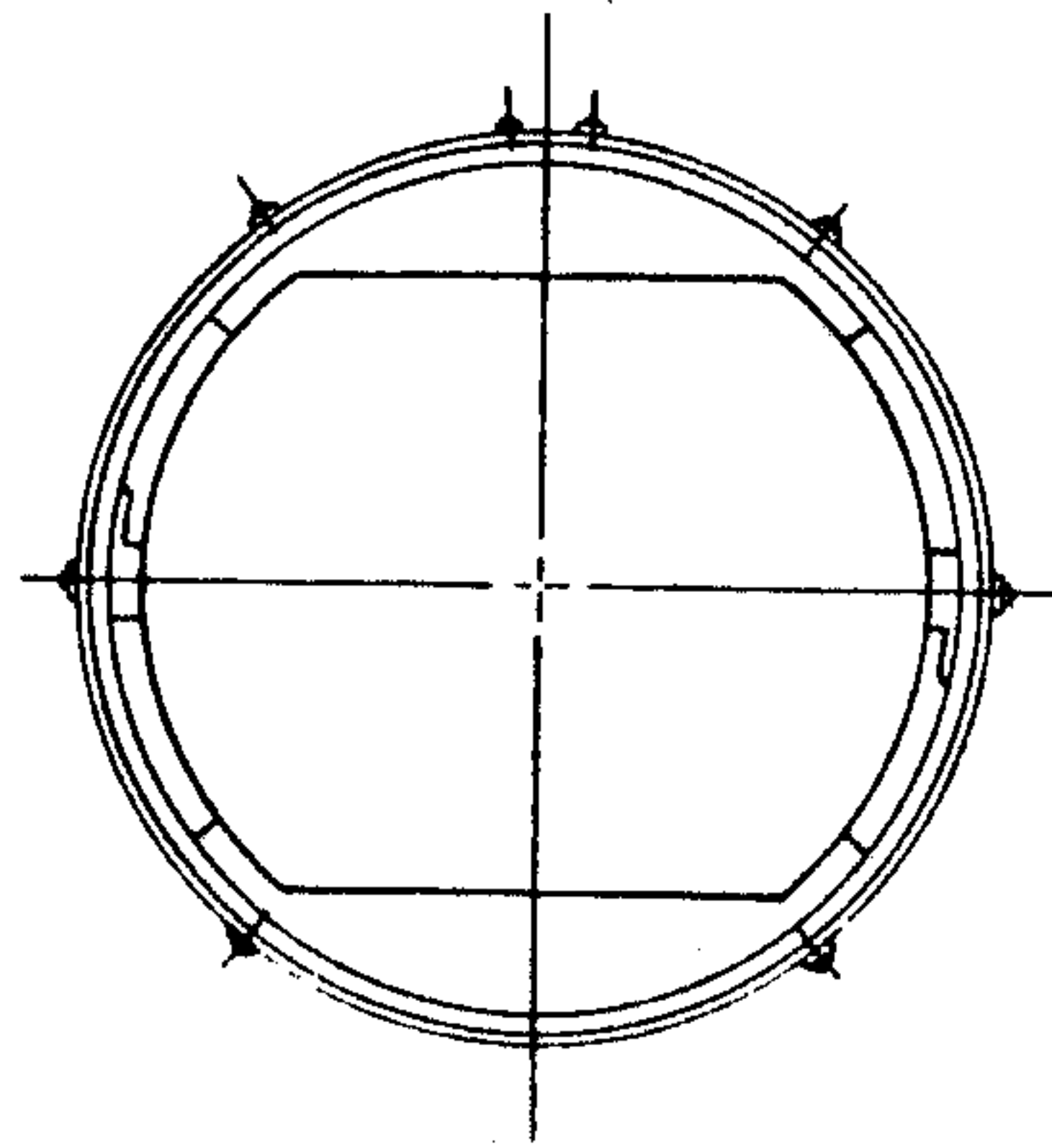
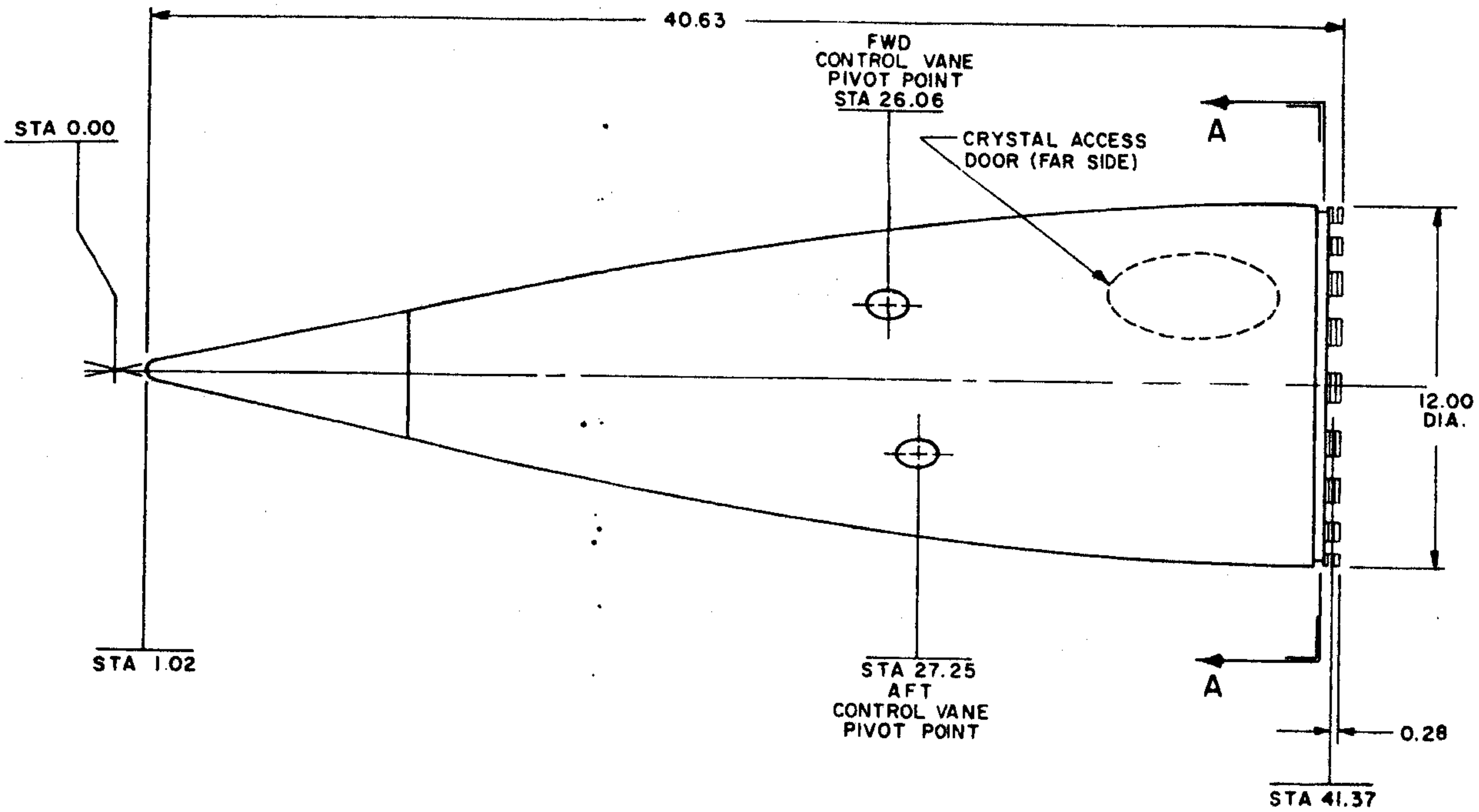
ORIGINAL DATA SOURCE
 MARTIN DWG NO. 293D1000007 REV G
 DATED 15 APRIL 1963
 NAVAIR 01-95GMA-2-1
 DATED 15 MARCH 1969

BULLPUP AGM-12B, 12B-2/3 HARD SPOT LOCATIONS



NOSE SECTION (GUIDANCE & CONTROL)

BULLPUP AGM-12B



VIEW A-A

NOTES:

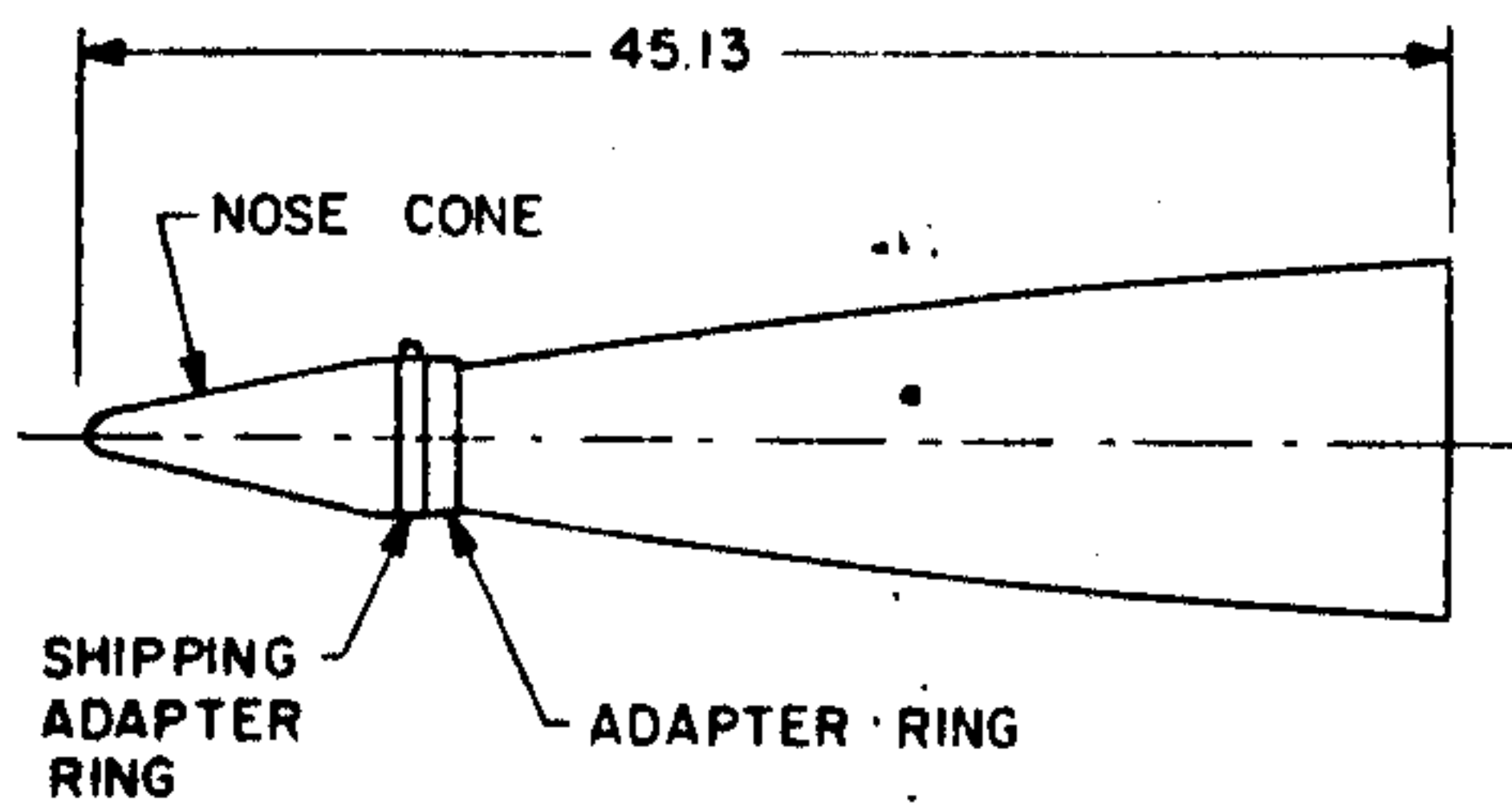
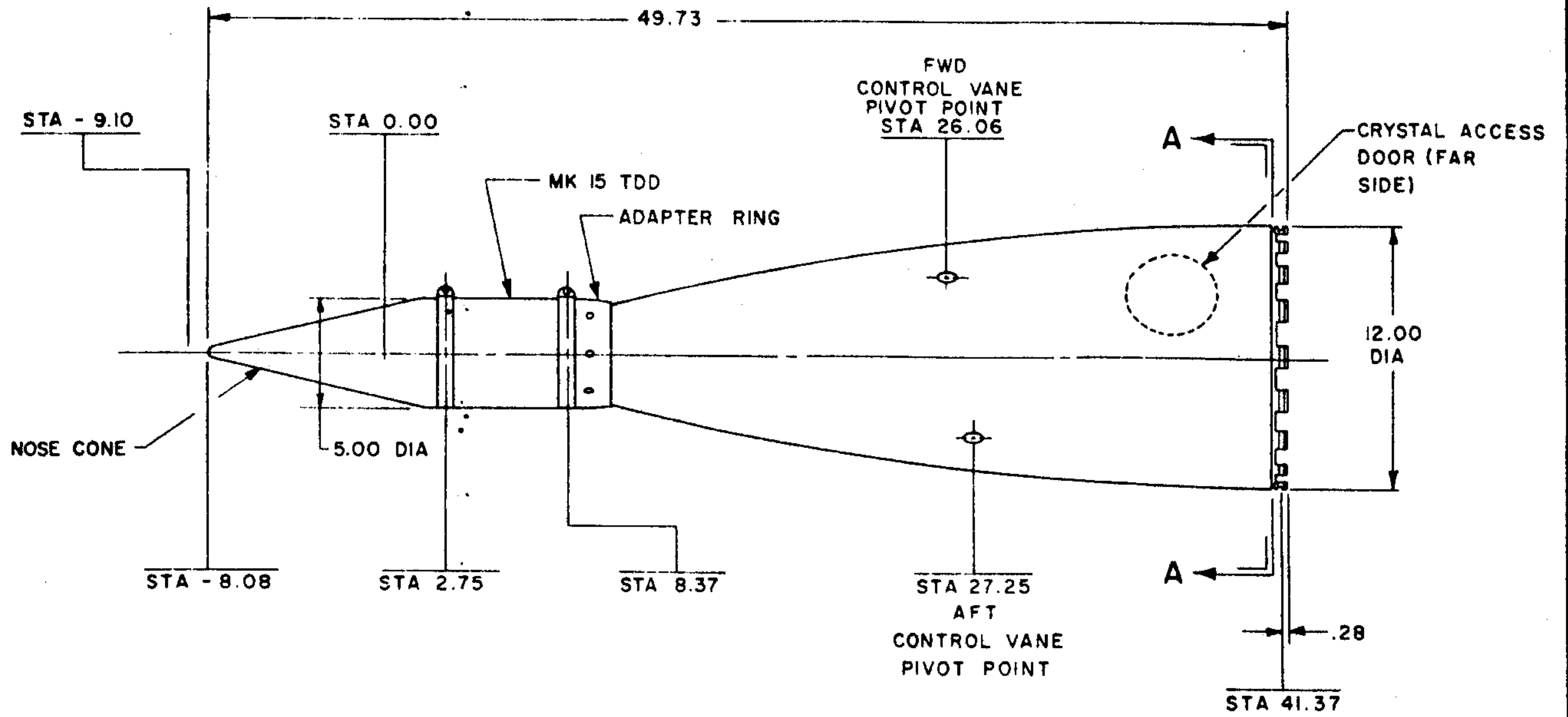
1. NOSE SECTION SHOW IS "UNIVERSAL" APPLICABLE TO AGM-12B AND AGM-12C.
2. APPROXIMATE WEIGHT—58.1 LBS.
3. REF FSN 1420-858-4296(X459)

ORIGINAL DATA SOURCE

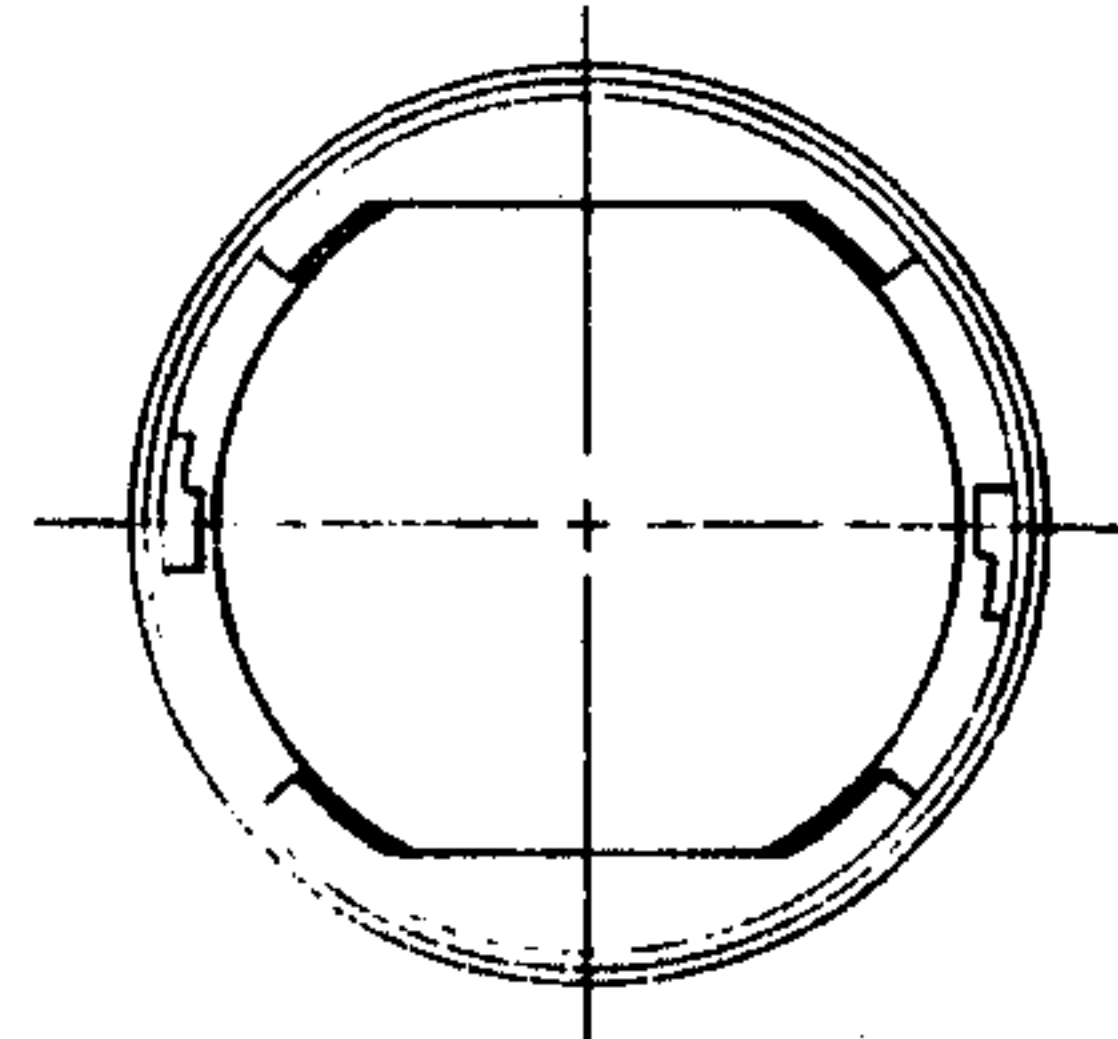
MARTIN DWG NO
293E6000000 REV N
DATED 4 MAY 1964
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

NOSE SECTION (GUIDANCE & CONTROL)

BULLPUP AGM-12B-2/3



SHOWN AS SHIPPED
LESS MK 15 TDD



NOTES:

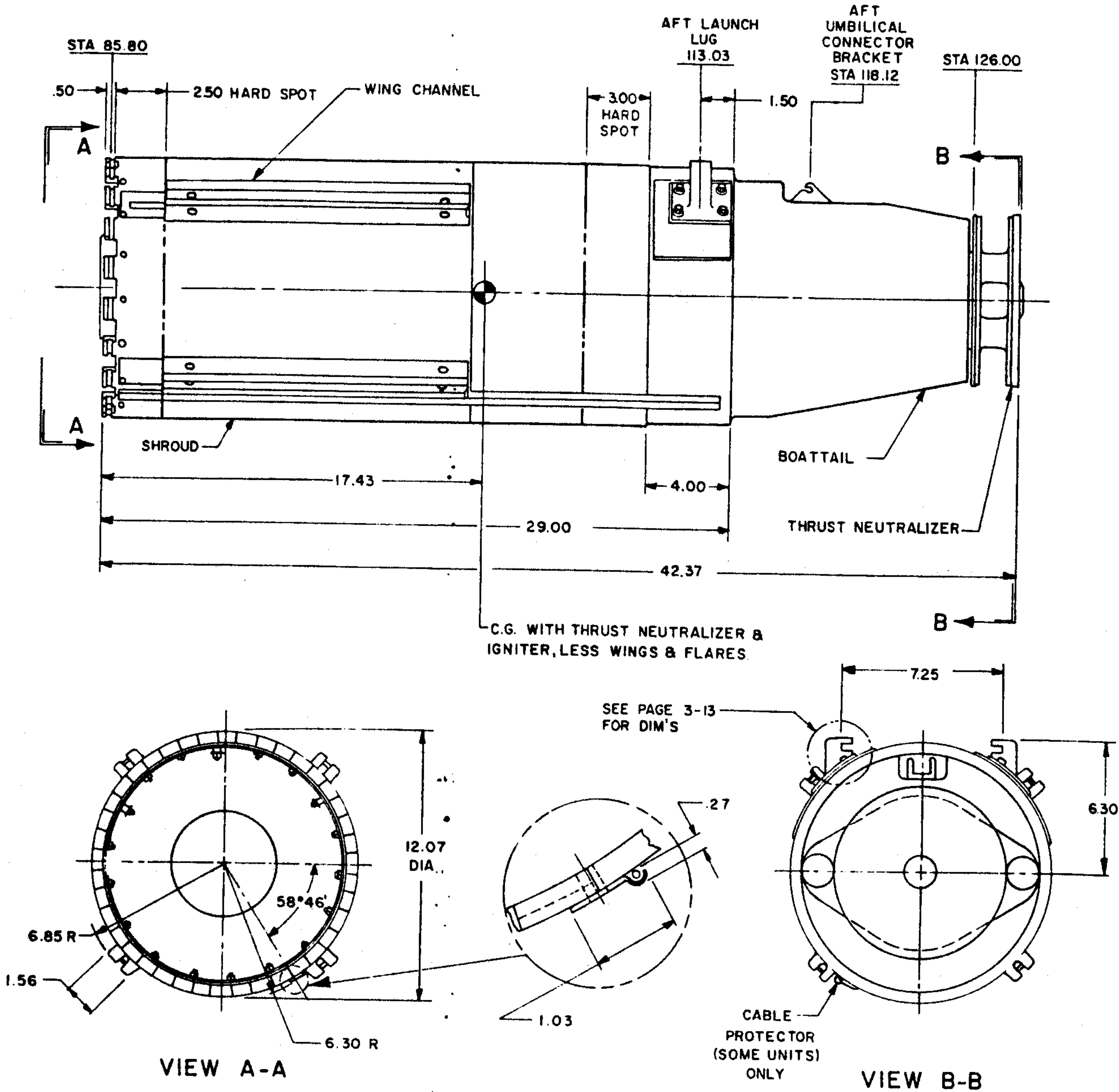
1. APPROXIMATE WEIGHTS:
AS SHIPPED — 62.9 LBS
TDD INSTALLED — 72.4 LBS
2. MODIFIED NOSE, LESS TDD, MAY BE USED ON AGM-12B MISSILE.
3. REF FSN 1420-999-1146(X486)

ORIGINAL DATA SOURCE

NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

AFT SECTION (SOLID MOTOR)

BULLPUP AGM-12B, 12B-2/3



NOTES

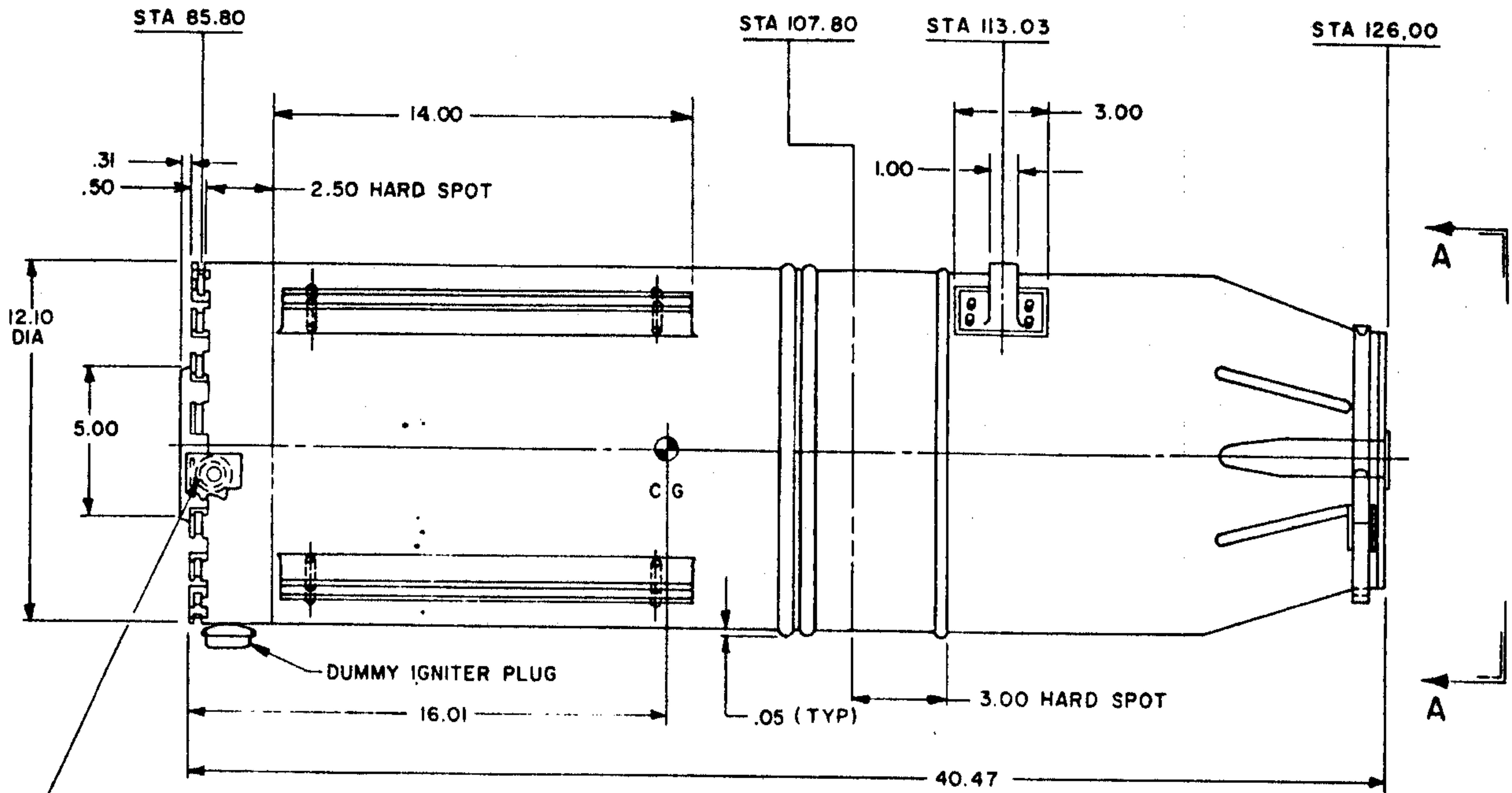
1. APPROXIMATE WEIGHT - 221.5 LBS (WITH THRUST NEUTRALIZER)
197.0 LBS (LESS THRUST NEUTRALIZER)
2. AFT SECTION SHOWN WILL BE SHIPPED & STOWED WITH
IGNITER & THRUST NEUTRALIZER INSTALLED,
3. REF FSN 1337-770-6370(V294)

ORIGINAL DATA SOURCE

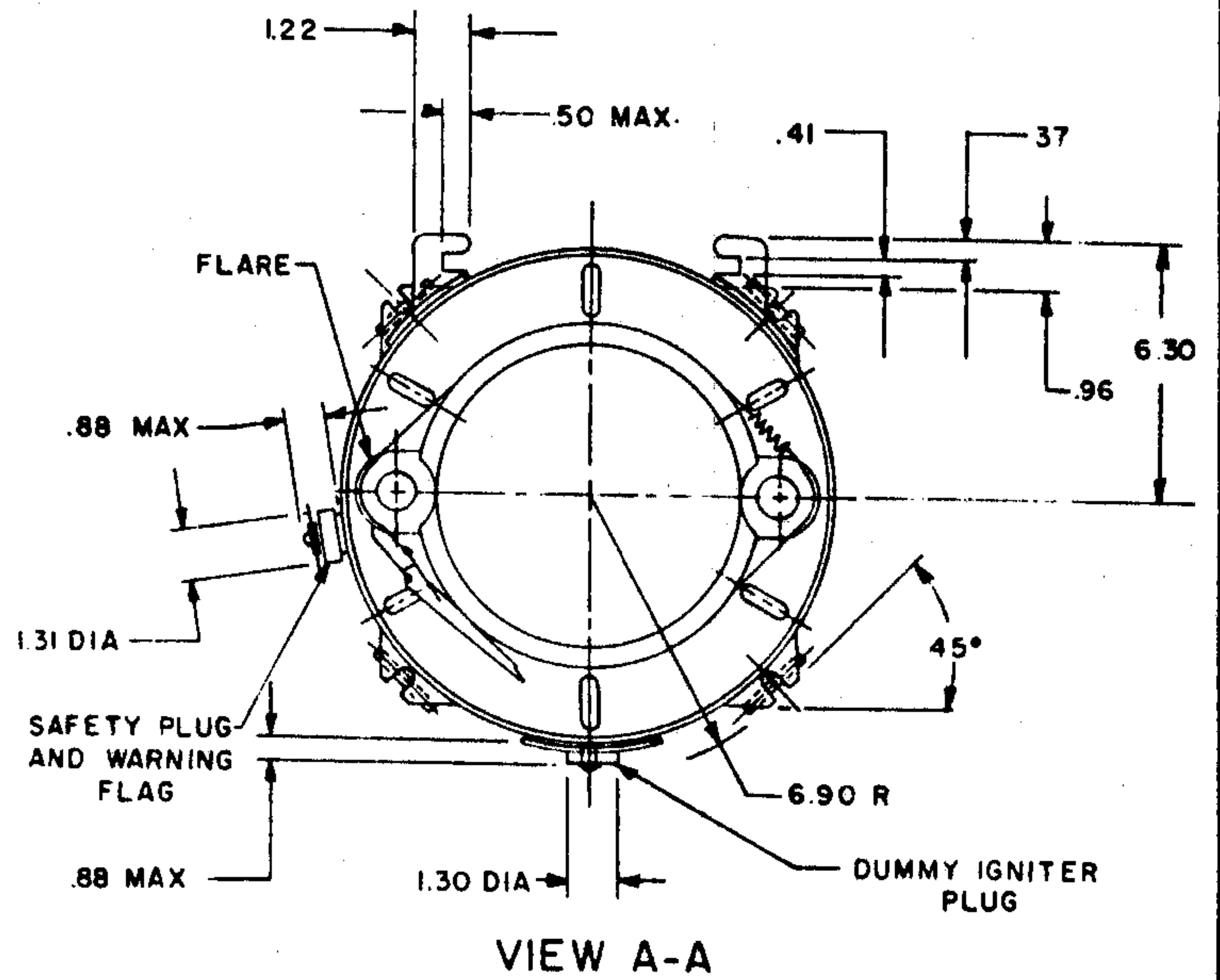
MARTIN DWG NO
293C8000000 REV. M
DATED 29 JUNE 1963
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

AFT SECTION (LIQUID ENGINE)

BULLPUP AGM-12B, 12B-2/3



ORDNANCE SAFETY SWITCH
SHORTING PLUG



VIEW A-A

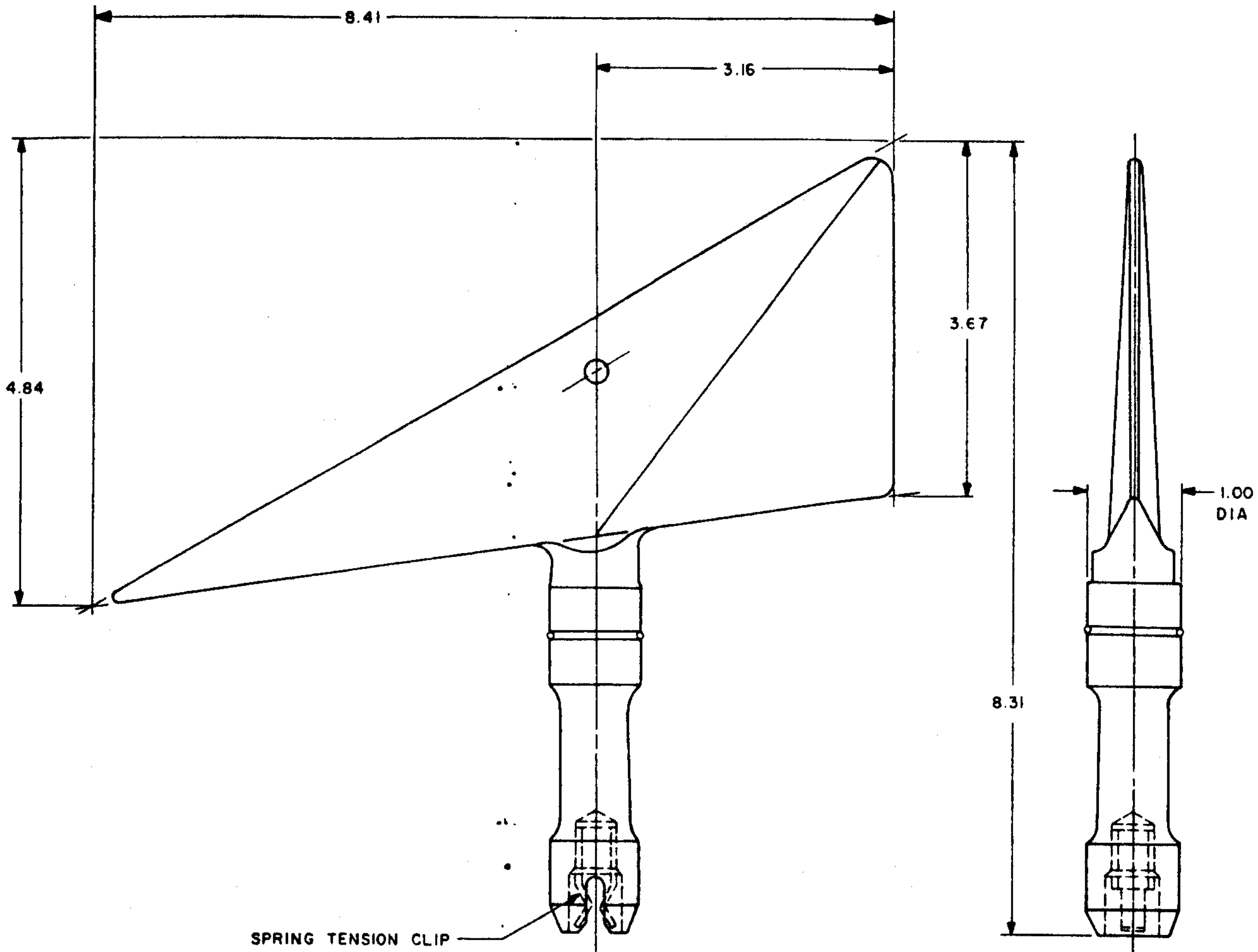
NOTES:

- 1 ASSEMBLY SHOWN IS A PREPACKAGED LIQUID FUEL AND OXIDIZER UNIT FOR THE BULLPUP AGM-12B, 12B-2/3 MISSILE.
- 2 APPROXIMATE WEIGHT -198.8 LBS (LR-58-RM-4 ENGINE)
3. REF FSN 2485-801-7532(X455)

ORIGINAL DATA SOURCE
THIokol CHEMICAL CORP.
DWG NO 313207 REV J
DATED 22 APRIL 1960
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

CONTROL VANE

BULLPUP AGM-12B, 12B-2/3



NOTES:

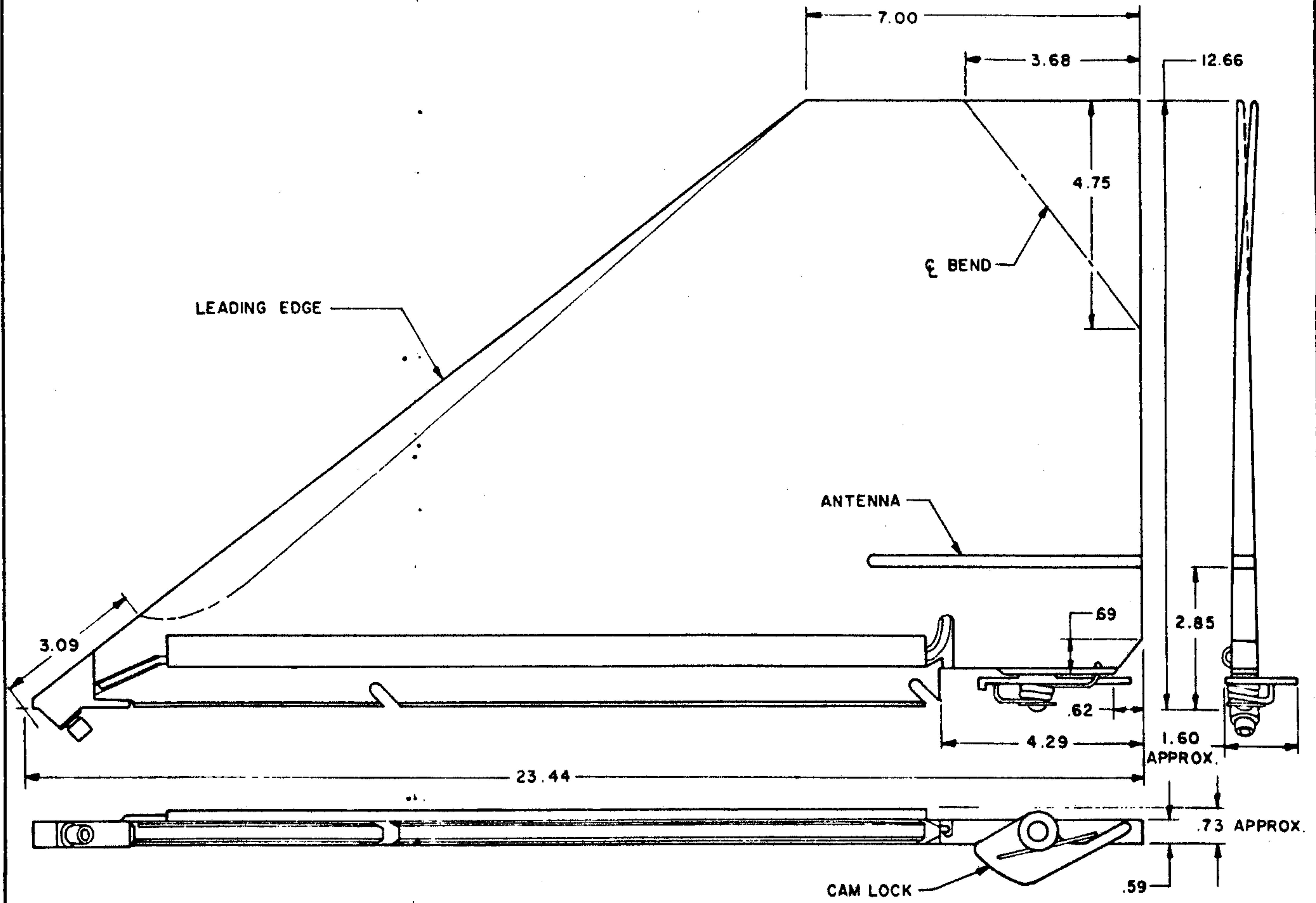
1. FOUR CONTROL VANES REQUIRED PER MISSILE.
2. APPROXIMATE WEIGHT — .7 LBS EACH
3. REF FSN 1420-770-6371(X919)

ORIGINAL DATA SOURCE

MARTIN DWG NO
293B6000006 REV G
DATED 1 APRIL 1964
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

WING ASSEMBLY

BULLPUP AGM-12B, 12B-2/3



NOTES:

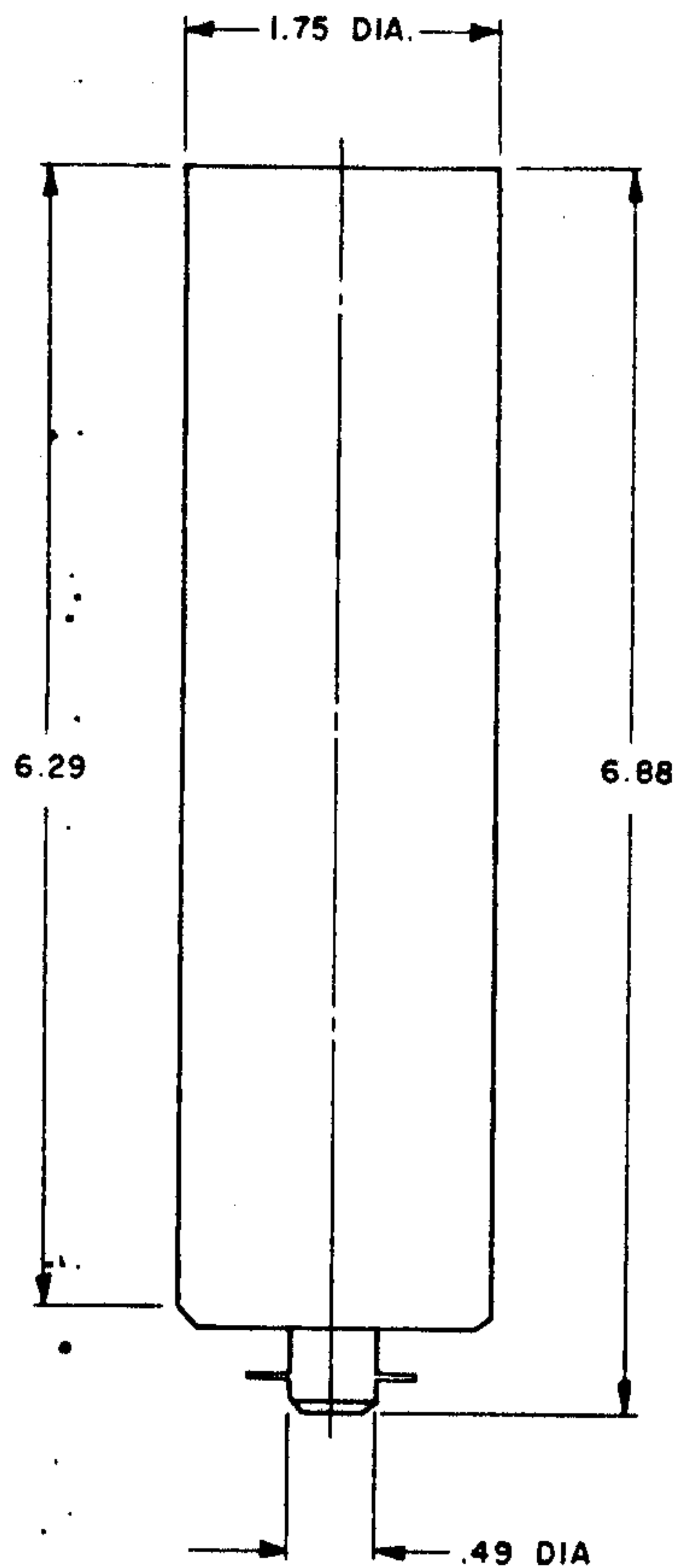
1. FOUR WINGS SHOWN ARE REQUIRED PER MISSILE.
2. APPROXIMATE WEIGHT — 6.2 LBS EACH
3. REF FSN 1420-770-6371 (X919)

ORIGINAL DATA SOURCE

MARTIN DWG NO
293D3000000 - 9 REV L
DATED 26 JUNE 1964
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

TRACKING FLARE MK 27 MODS

BULLPUP AGM-12B, 12B-2/3



NOTES:

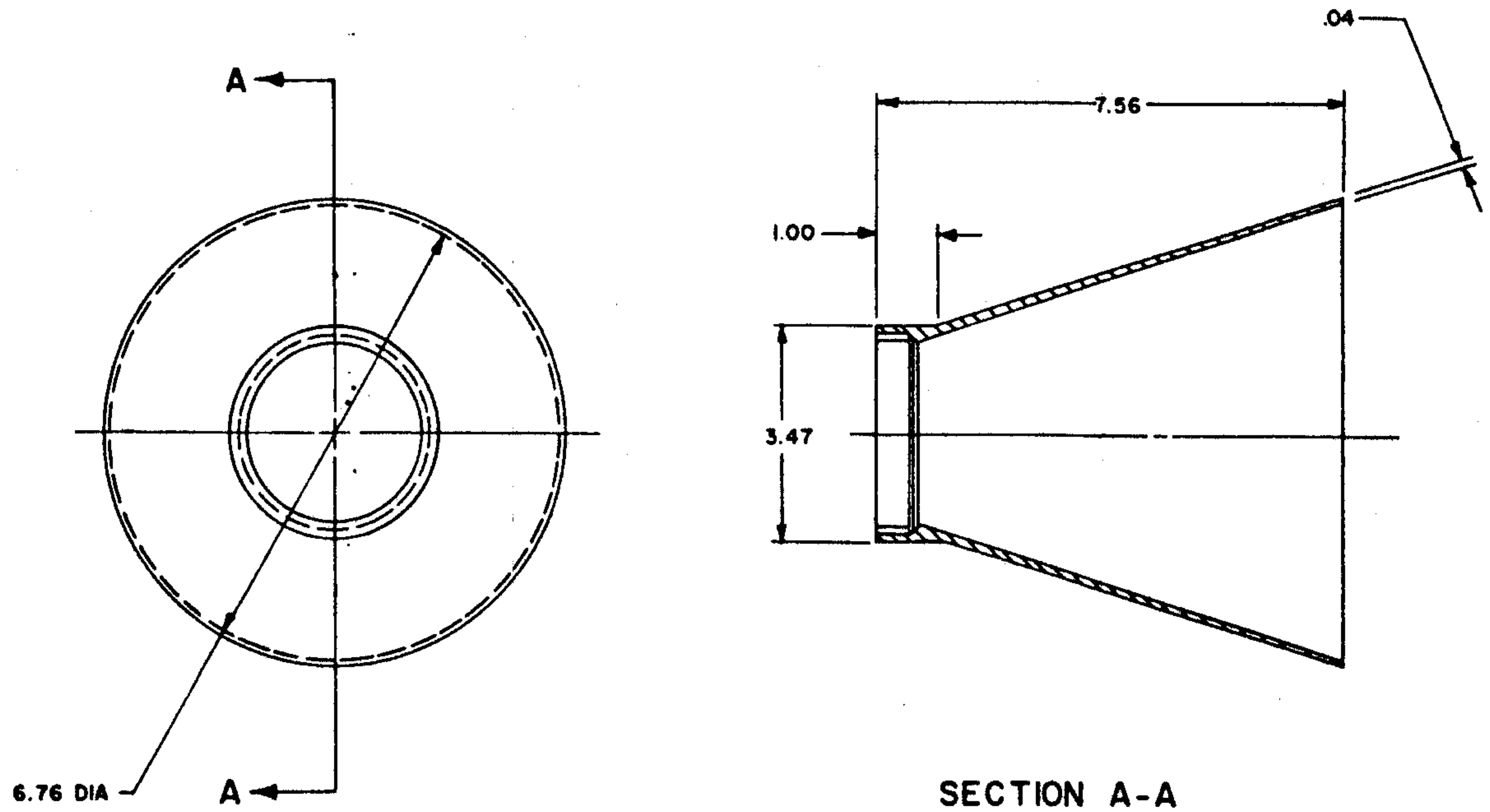
1. FLARE IS INSTALLED IN THE AFT END OF THE MISSILE AFT SECTION.
2. APPROXIMATE WEIGHT - 1.4 LBS
3.2 LBS (WITH EXTENSION)
3. TWO FLARES REQUIRED PER MISSILE.
4. FLARE EXTENSIONS (NOT SHOWN) ARE REQUIRED WHEN INSTALLING FLARES ON SOLID MOTOR.
5. REF FSN 1370-787-2788 (L 49)

ORIGINAL DATA SOURCE

MARTIN CO. REPORT NO.
OR 1207-2
DATED 15 NOVEMBER 1961
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

SOLID MOTOR TAIL CONE

BULLPUP AGM-12B,12B-2/3



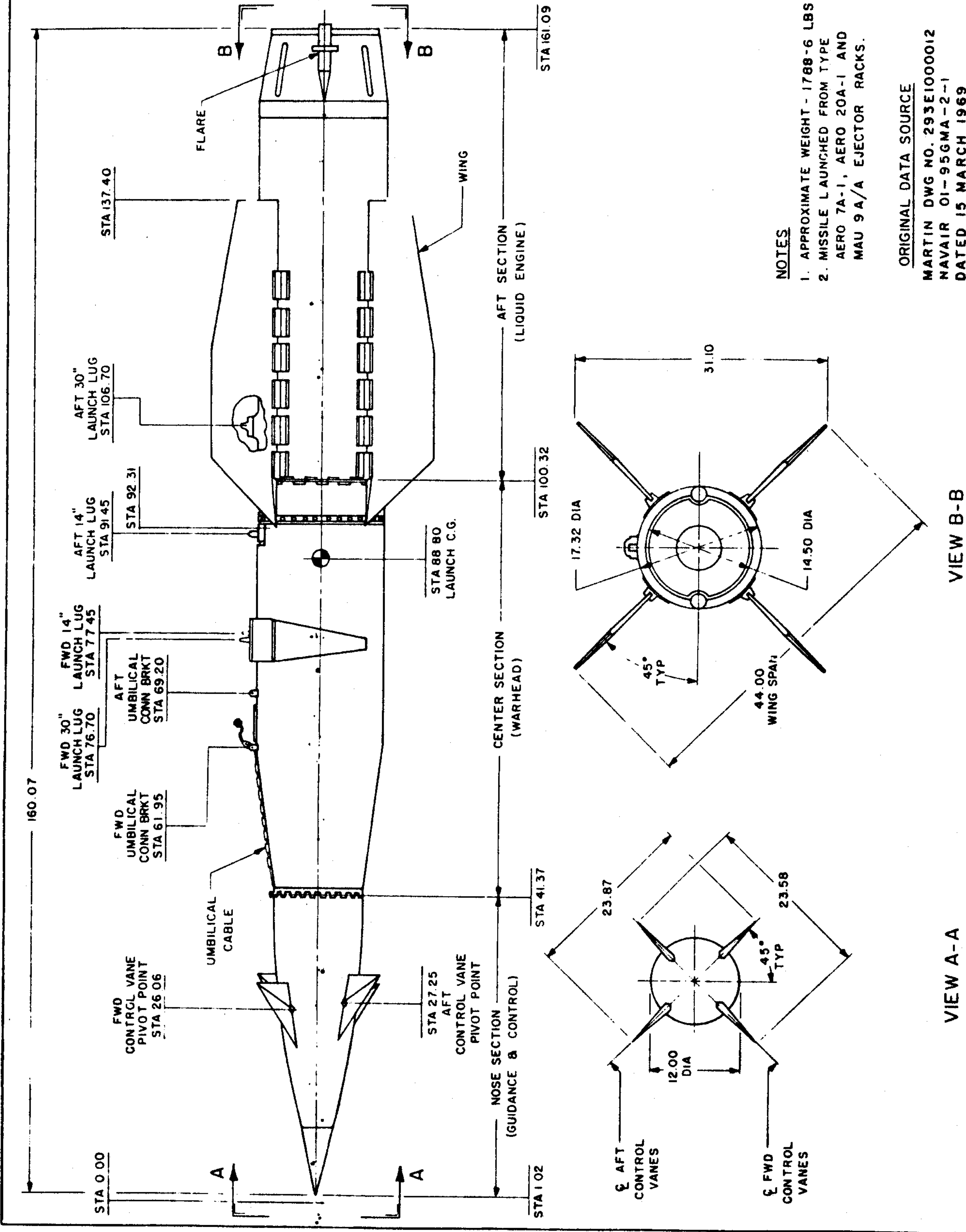
NOTES:

1. TAIL CONE IS INSTALLED ON THE SOLID MOTOR AFTER REMOVING THRUST NEUTRALIZER.
2. APPROXIMATE WEIGHT - 2.5 LBS

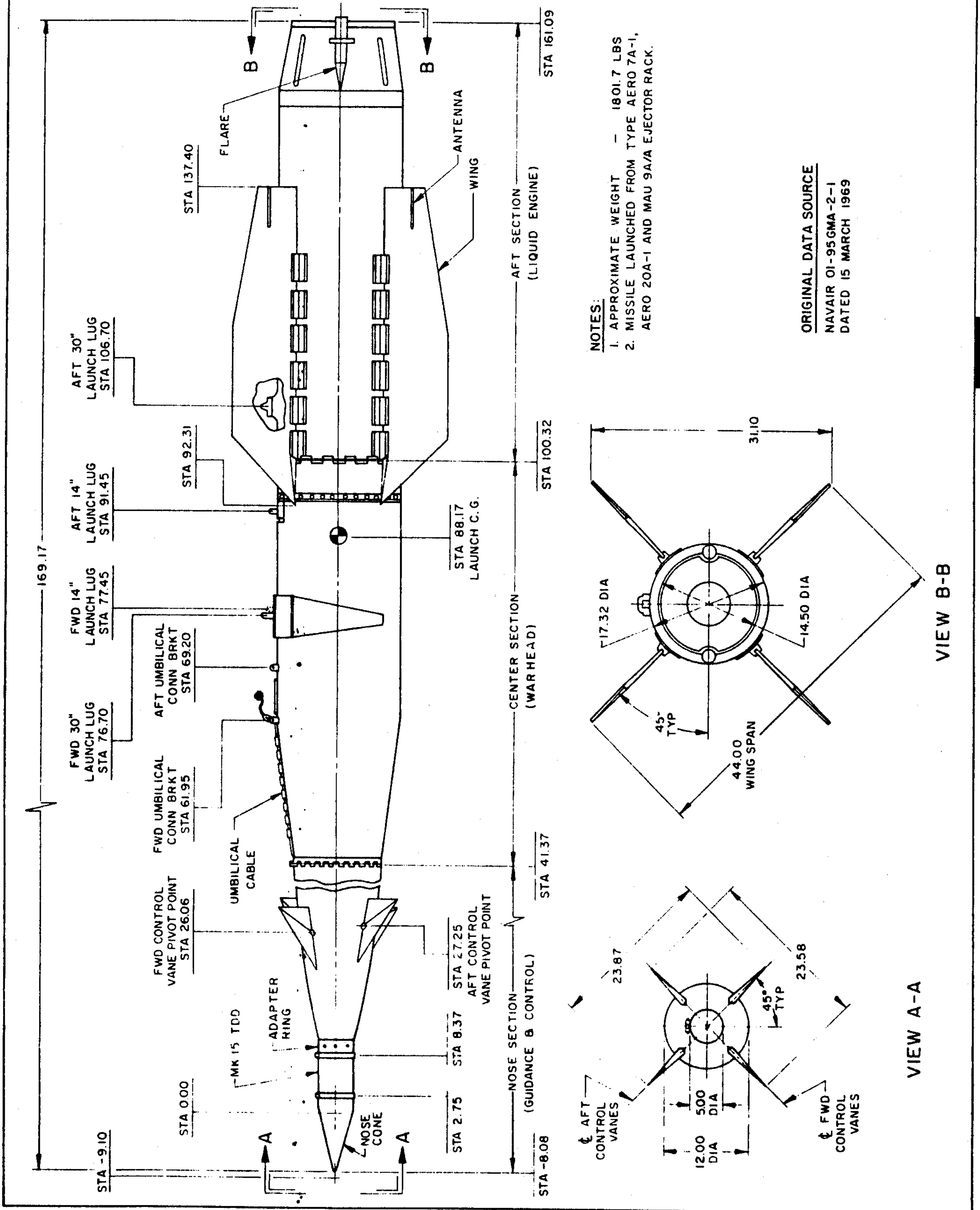
ORIGINAL DATA SOURCE

BUWEPS DWG NO 1274063
DATED 15 APRIL 1958
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

BULLPUP AGM-12C GENERAL ARRANGEMENT



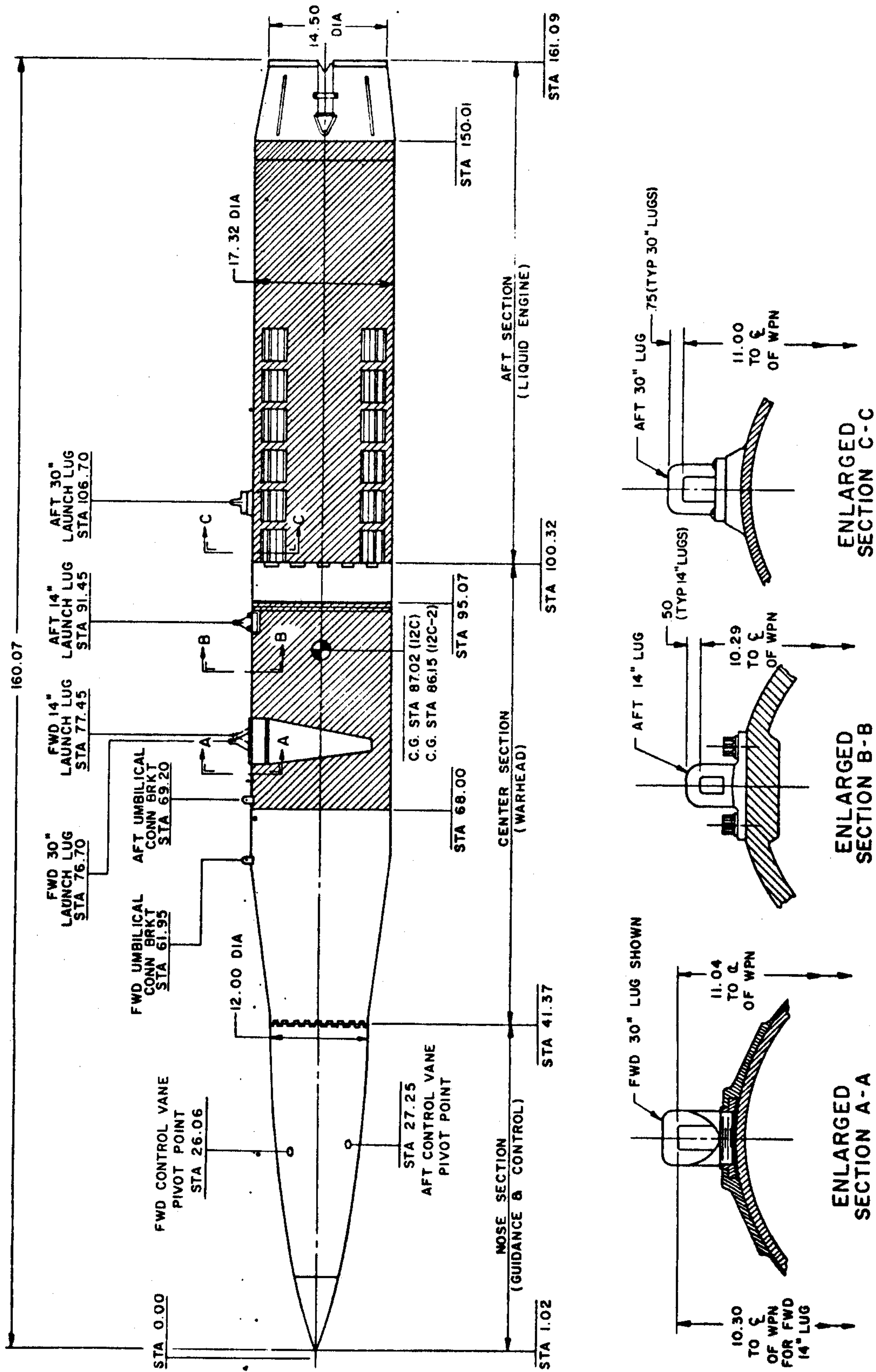
BULLPUP AGM-12C-2 GENERAL ARRANGEMENT



- NOTES:**
1. APPROXIMATE WEIGHT - 1801.7 LBS
 2. MISSILE LAUNCHED FROM TYPE AERO 7A-1, AERO 20A-1 AND MAU 9A/A EJECTOR RACK.

ORIGINAL DATA SOURCE
 NAVAIR 01-95GMA-2-1
 DATED 15 MARCH 1969

BULLPUP AGM-12C, 12C-2 HARD SPOT LOCATIONS



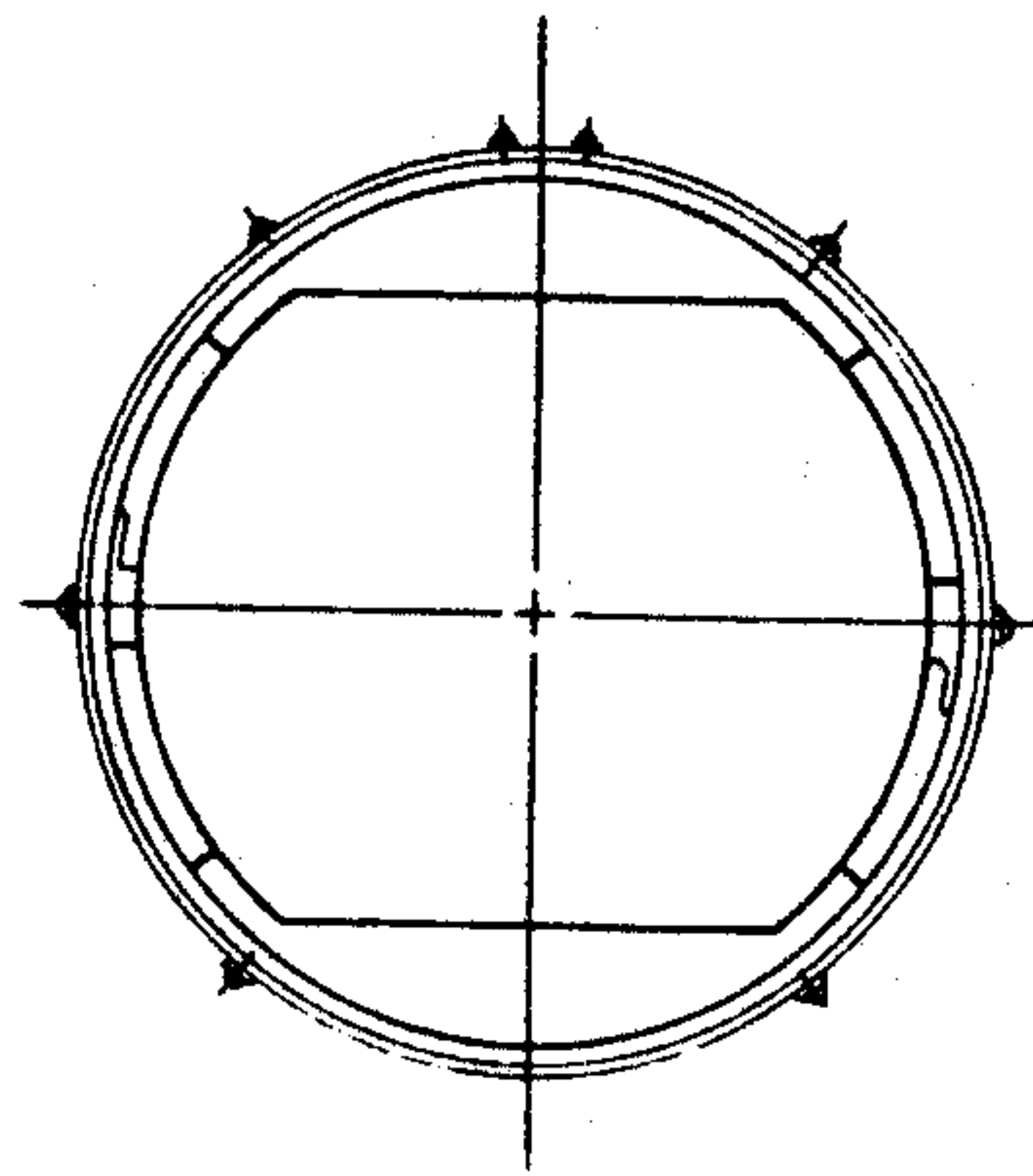
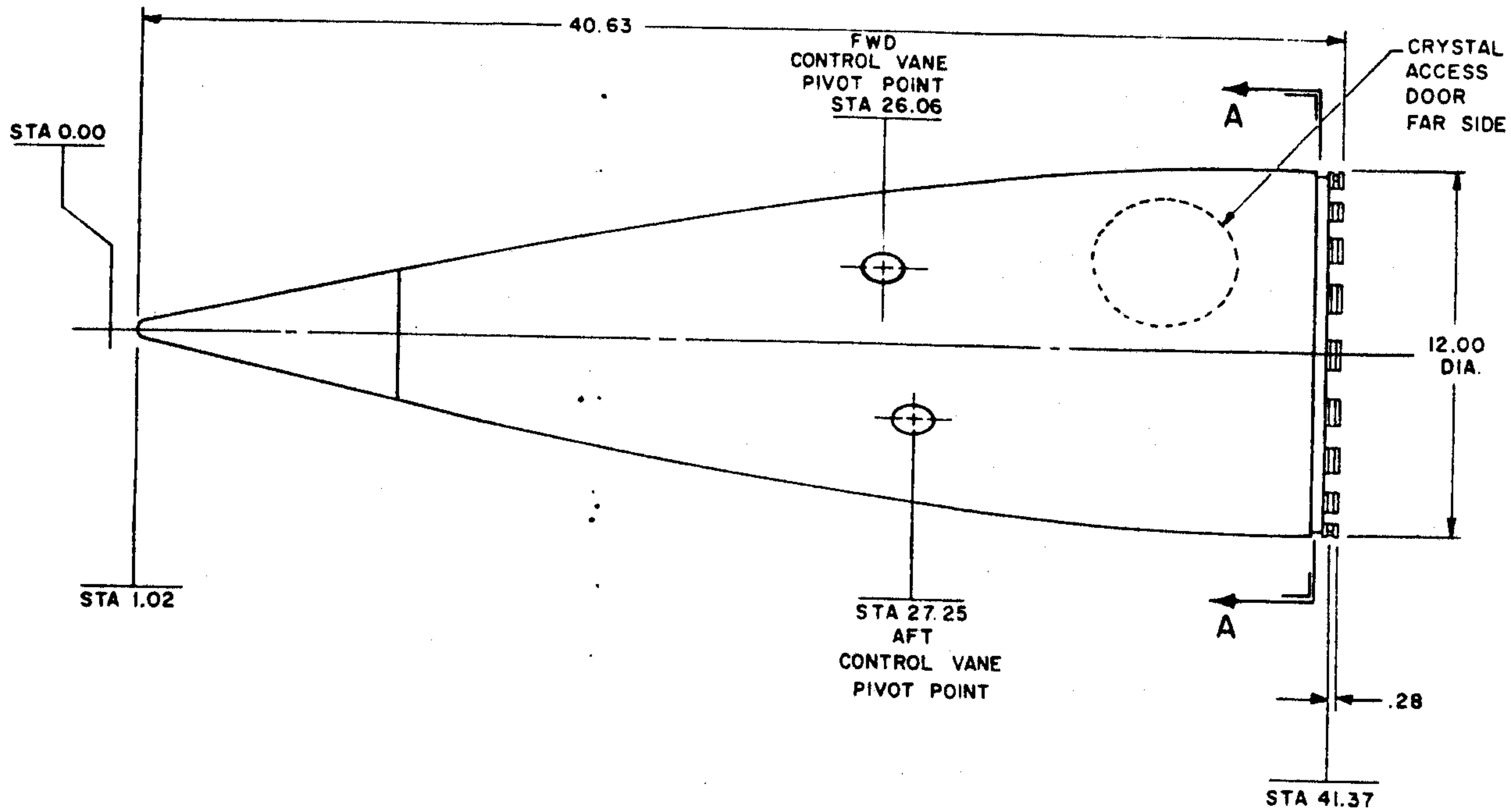
NOTES:

1. HARD SPOT AREAS SHOWN ARE IDENTICAL FOR BULLPUP AGM 12C (SHOWN) & 12C-2 MISSILES.
2. APPROXIMATE WEIGHTS:
AGM 12C - 1722.2 LBS
AGM 12C-2 - 1735.3 LBS
3. [Hatched Area Symbol] DENOTES HARD SPOT LOCATIONS.
4. SEE AGM-12C-2 GENERAL ARRANGEMENT FOR NOSE SECTION CONFIGURATION.

ORIGINAL DATA SOURCE
MARTIN DWG NO. 293E1000012
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

NOSE SECTION (GUIDANCE & CONTROL)

BULLPUP AGM-12C



SECTION A-A

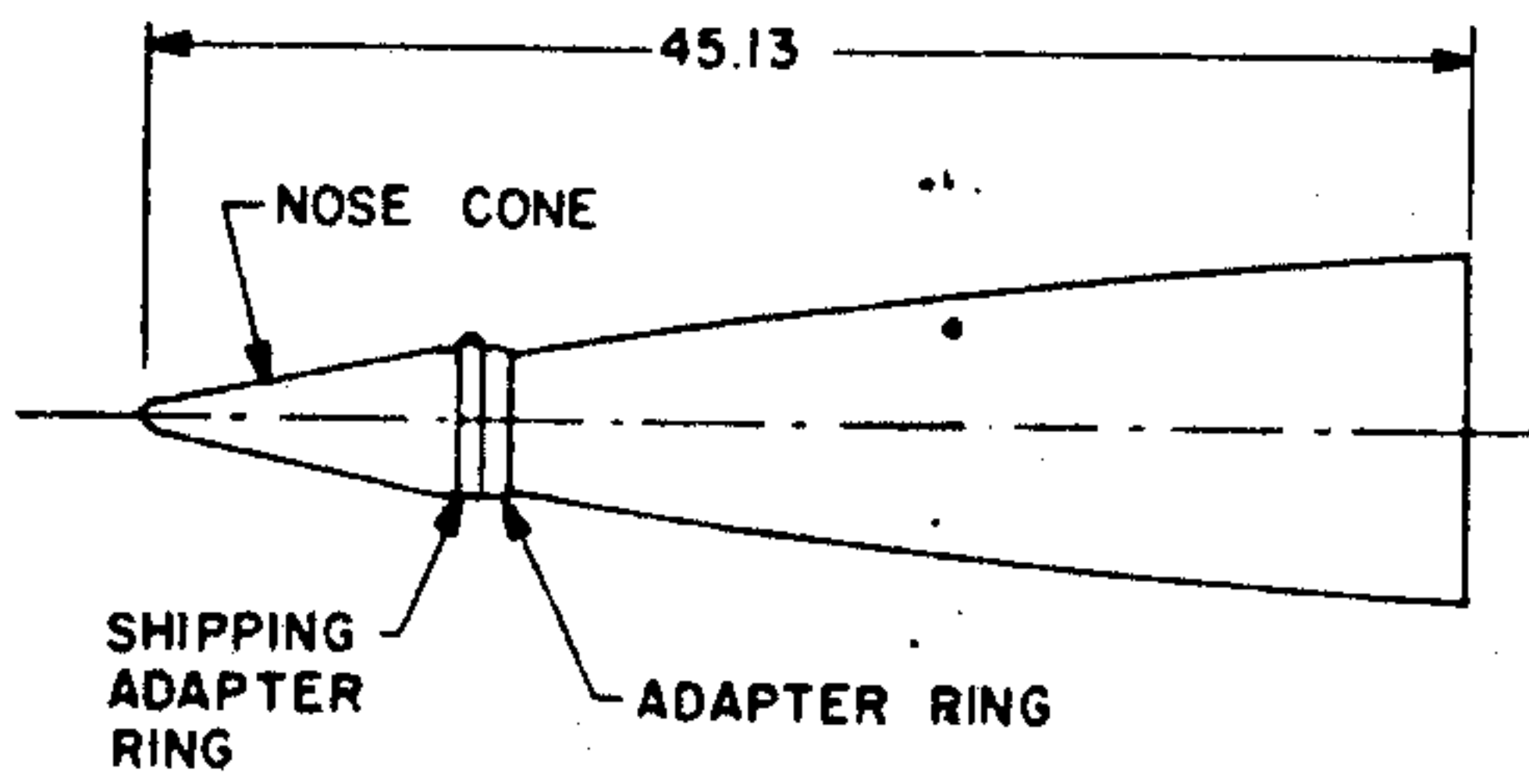
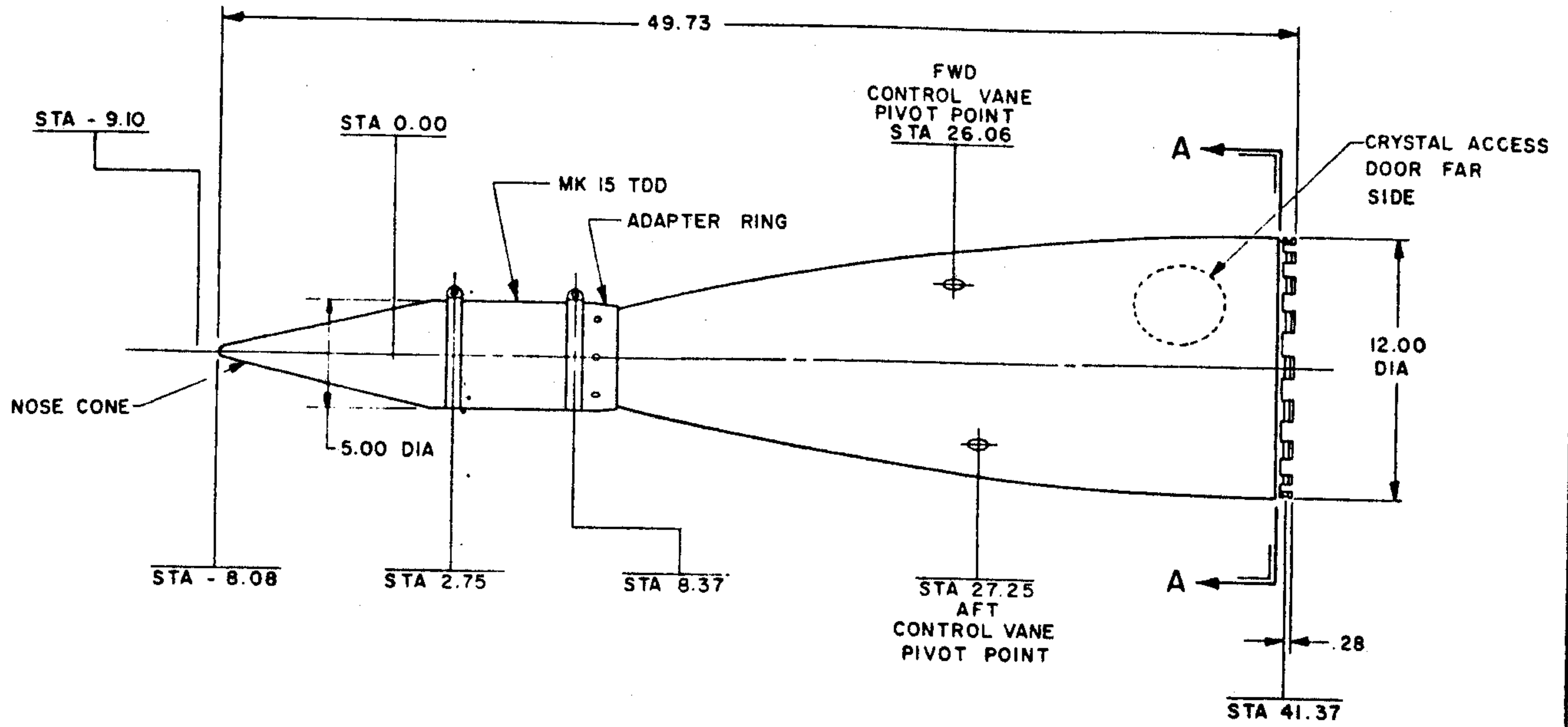
NOTES:

1. NOSE SECTION SHOWN IS "UNIVERSAL" TYPE APPLICABLE TO AGM-12C AND AGM-12B.
2. APPROXIMATE WEIGHT — 58.1 LBS
3. REF FSN 1420-858-4296(X459)

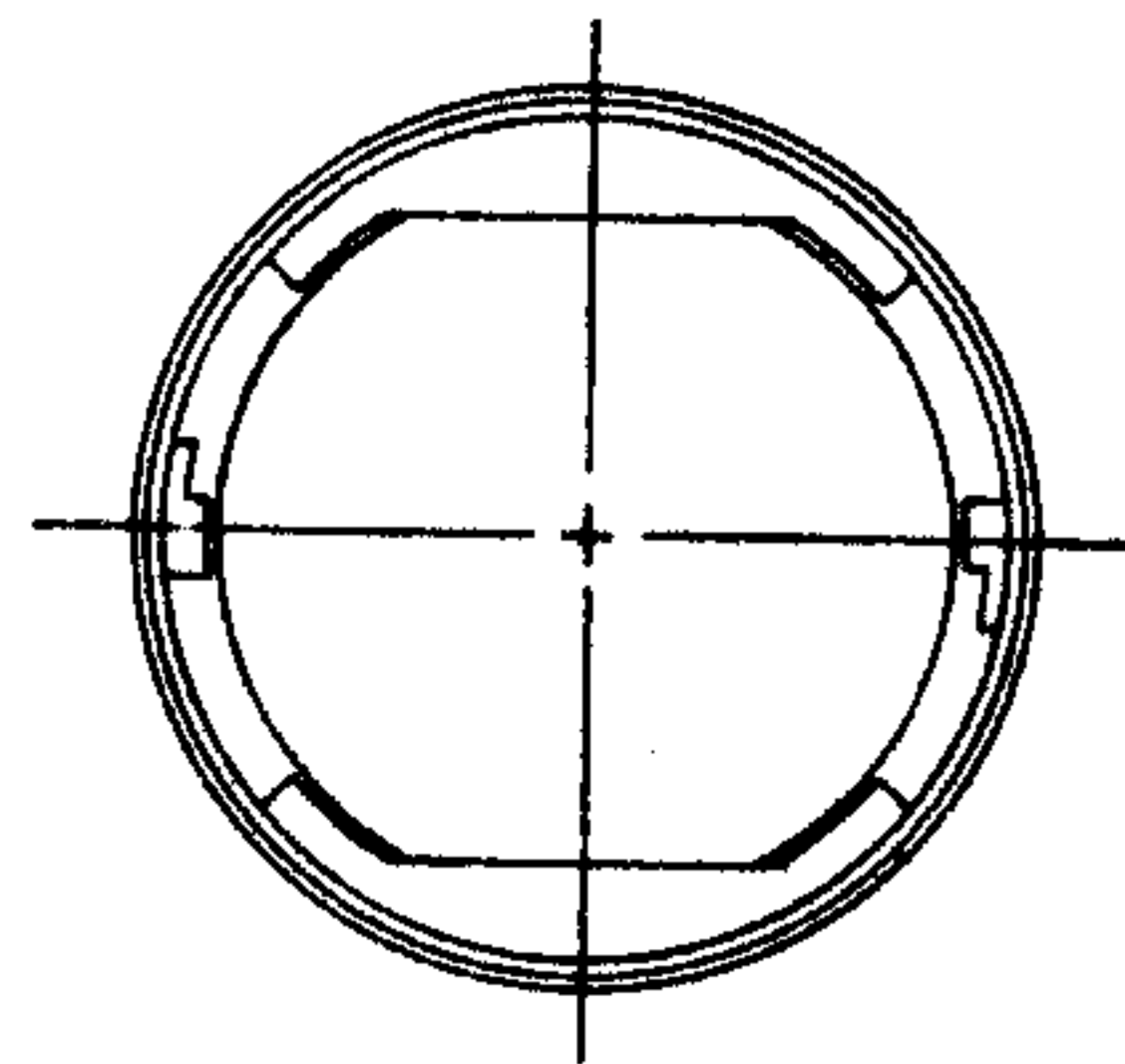
ORIGINAL DATA SOURCE
MARTIN DWG NO 293E6000000
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

NOSE SECTION (GUIDANCE & CONTROL)

BULLPUP AGM-12C-2



SHOWN AS SHIPPED
LESS MK 15 TOD



NOTES:

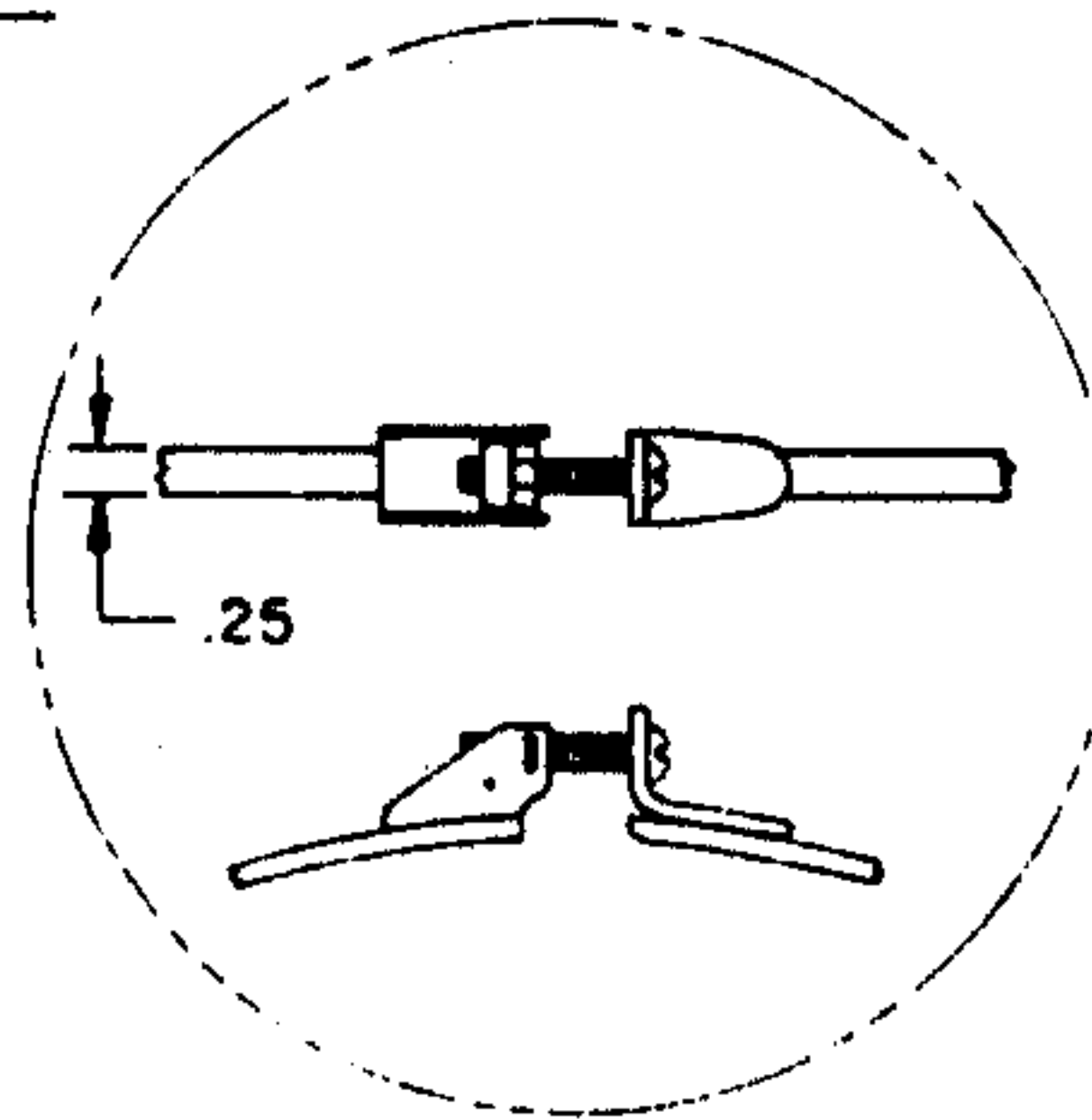
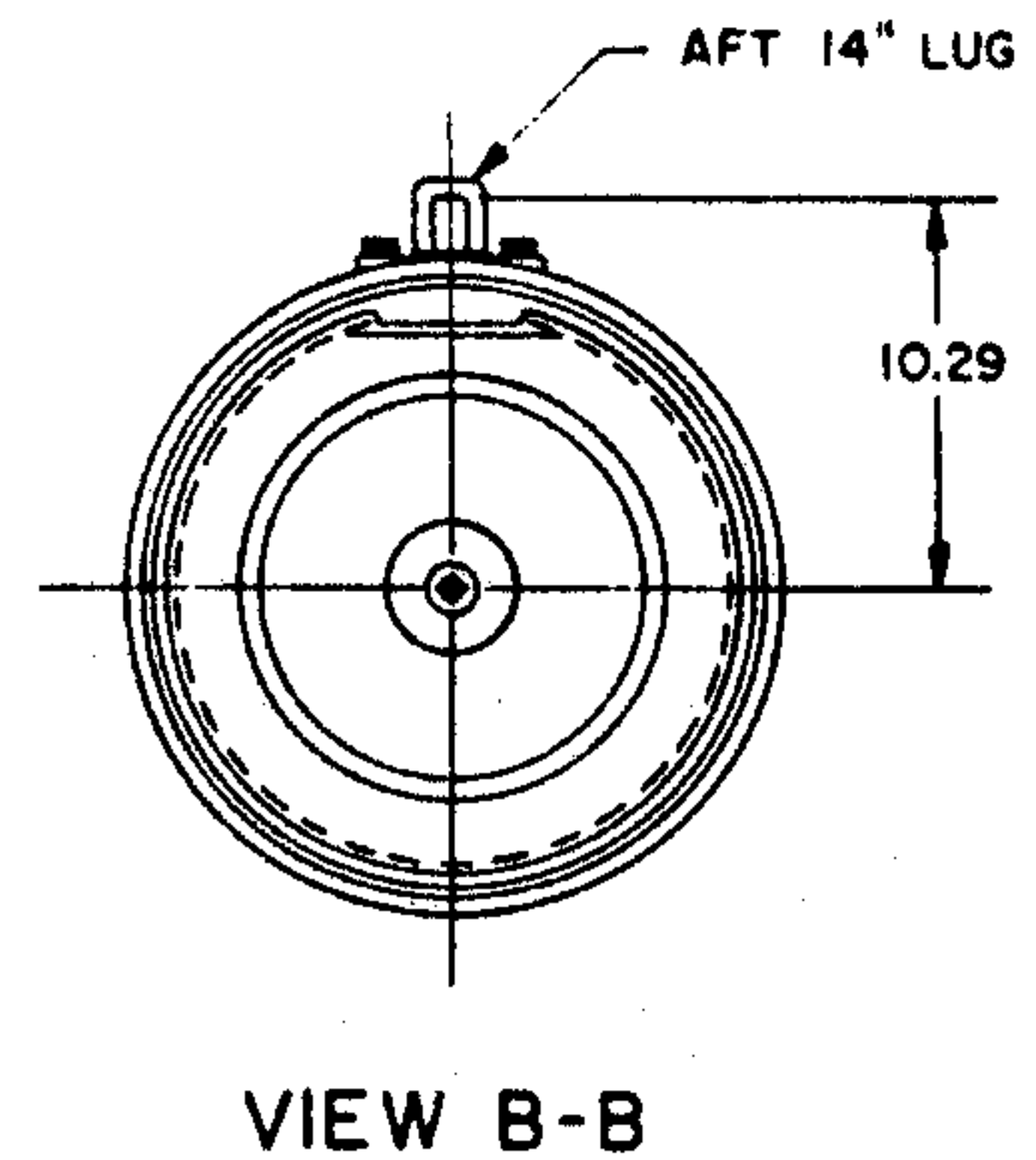
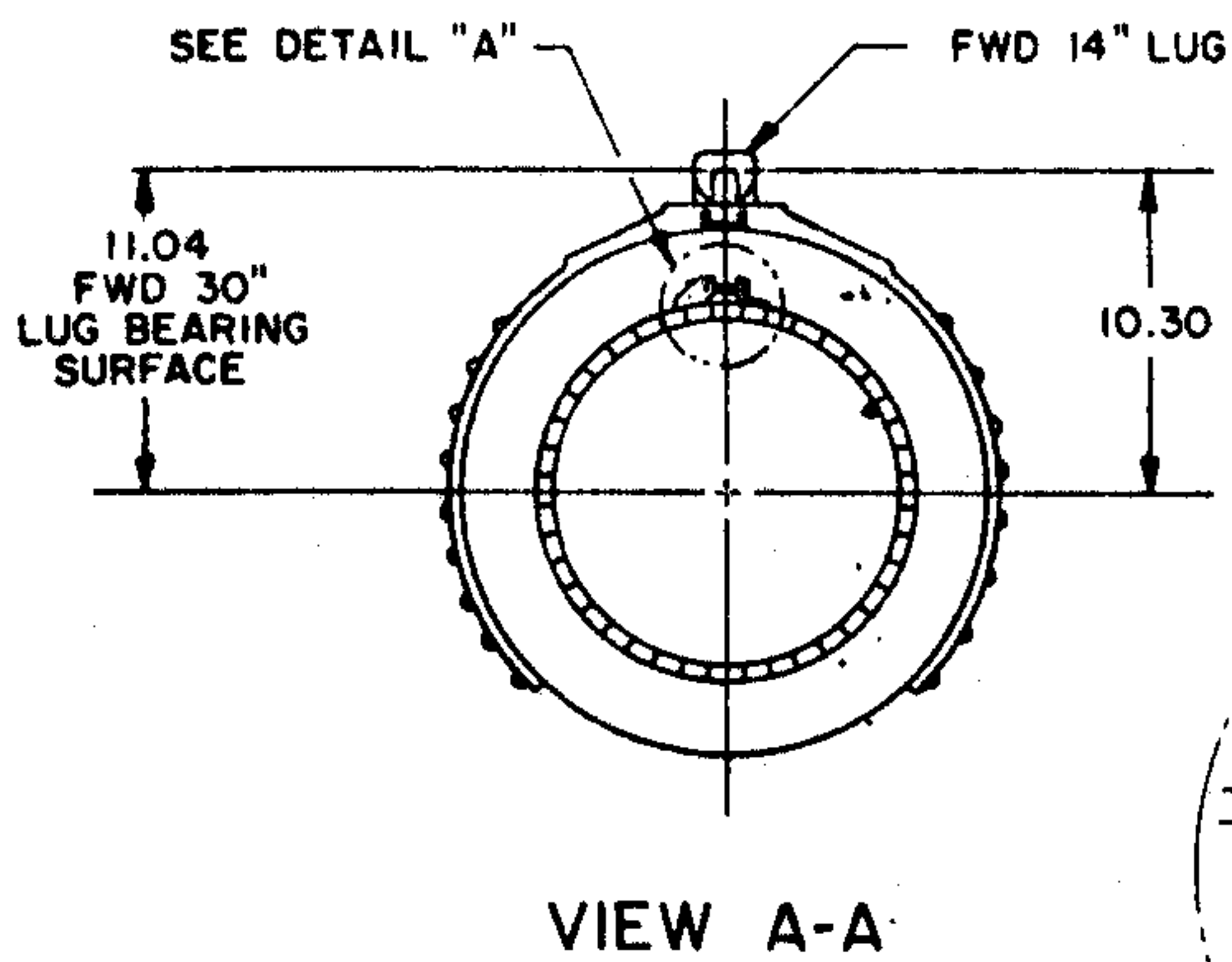
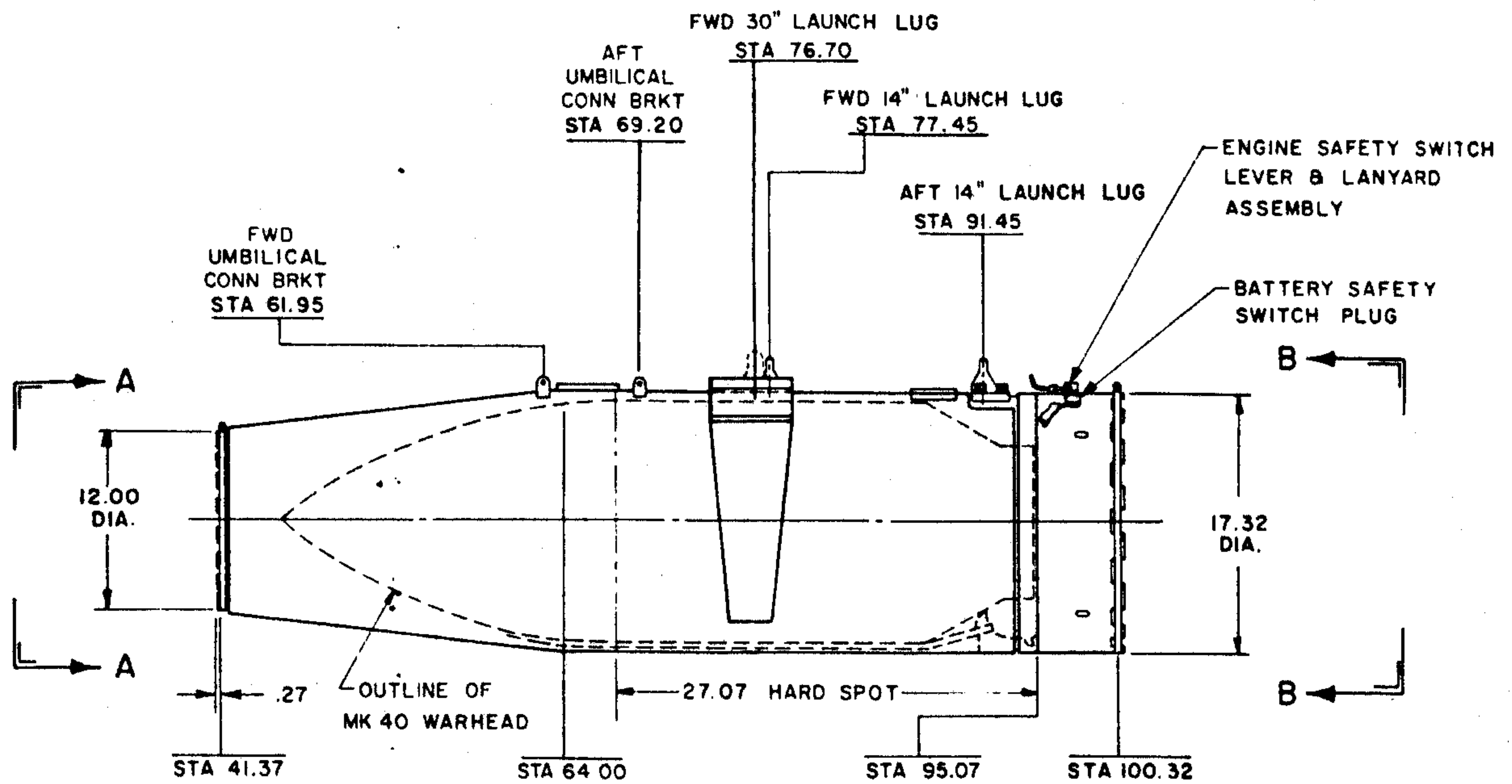
1. APPROXIMATE WEIGHTS:
AS SHIPPED - 62.9 LBS
TDD INSTALLED - 72.4 LBS
2. MODIFIED NOSE, LESS TOD, MAY BE USED ON AGM-12C MISSILE.
3. REF FSN 1420-999-1146(X486)

ORIGINAL DATA SOURCE

NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

CENTER SECTION (WARHEAD)

BULLPUP AGM-12C,12C-2



NOTES:

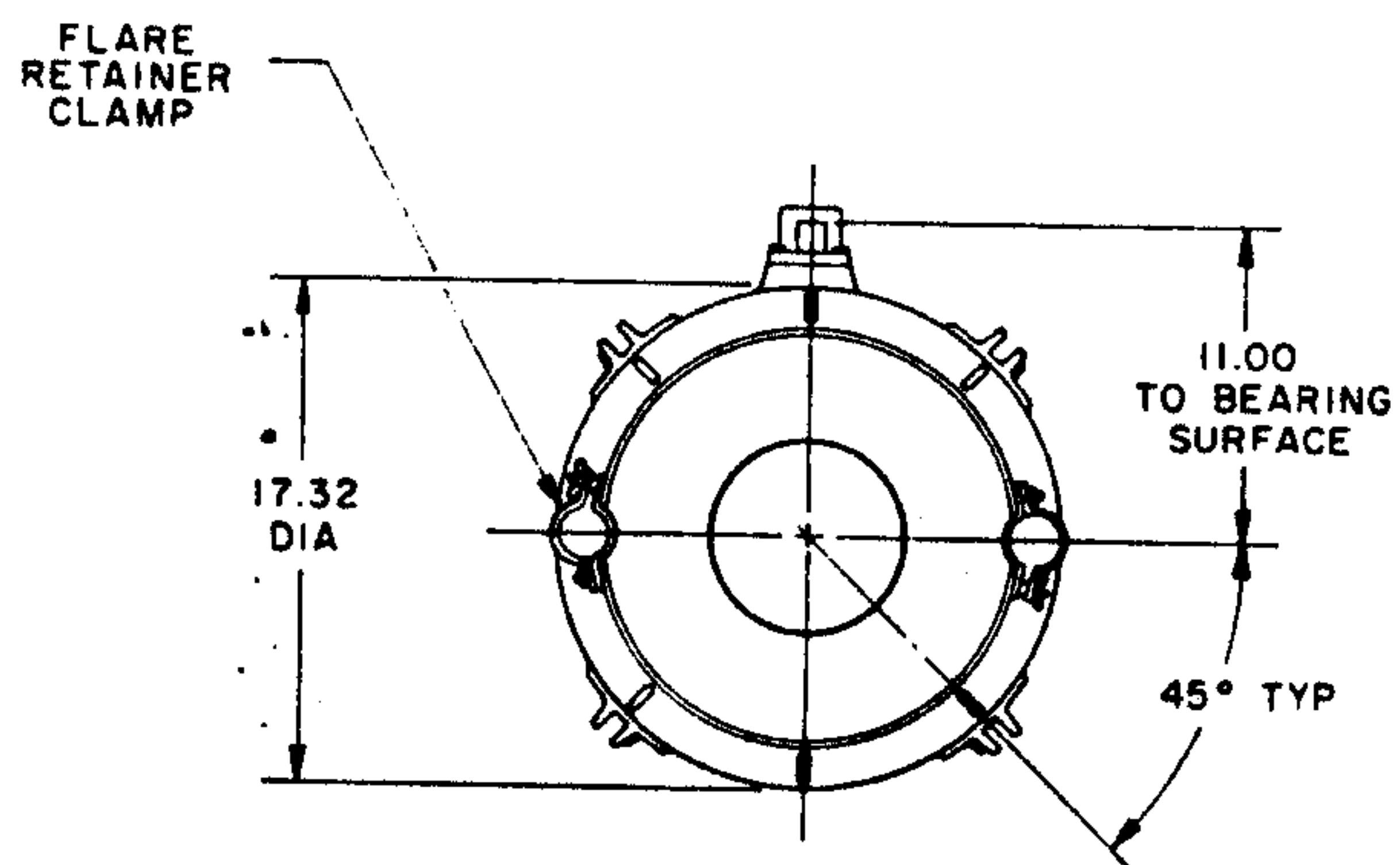
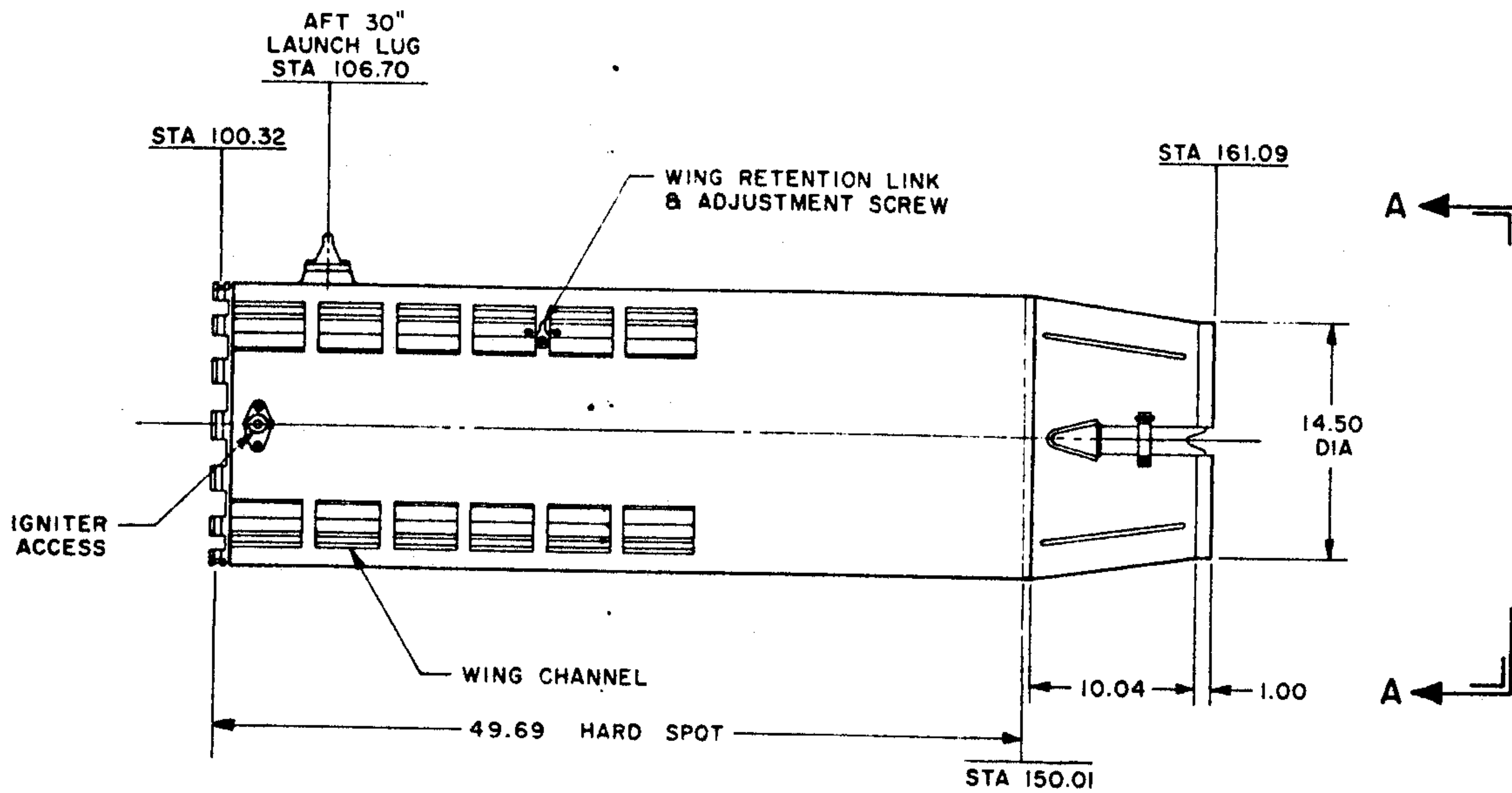
1. AGM-12C, 12C-2 CENTER SECTIONS ARE IDENTICAL EXCEPT FOR INTERNAL WIRING. AGM-12C-2 CENTER SECTION IS STENCILED "FOR USE WITH AGM-12C-2".
2. AGM-12C-2 CENTER SECTION MAY BE USED WITH AGM-12C-2 NOSE SECTION
3. APPROXIMATE WEIGHT — 1098.8 LBS
4. REF FSN 1336-930-1649(V502)

ORIGINAL DATA SOURCE

MARTIN DWG NO. 293E7000000
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

AFT SECTION (LIQUID ENGINE)

BULLPUP AGM-12C, 12C-2



VIEW A-A

NOTES

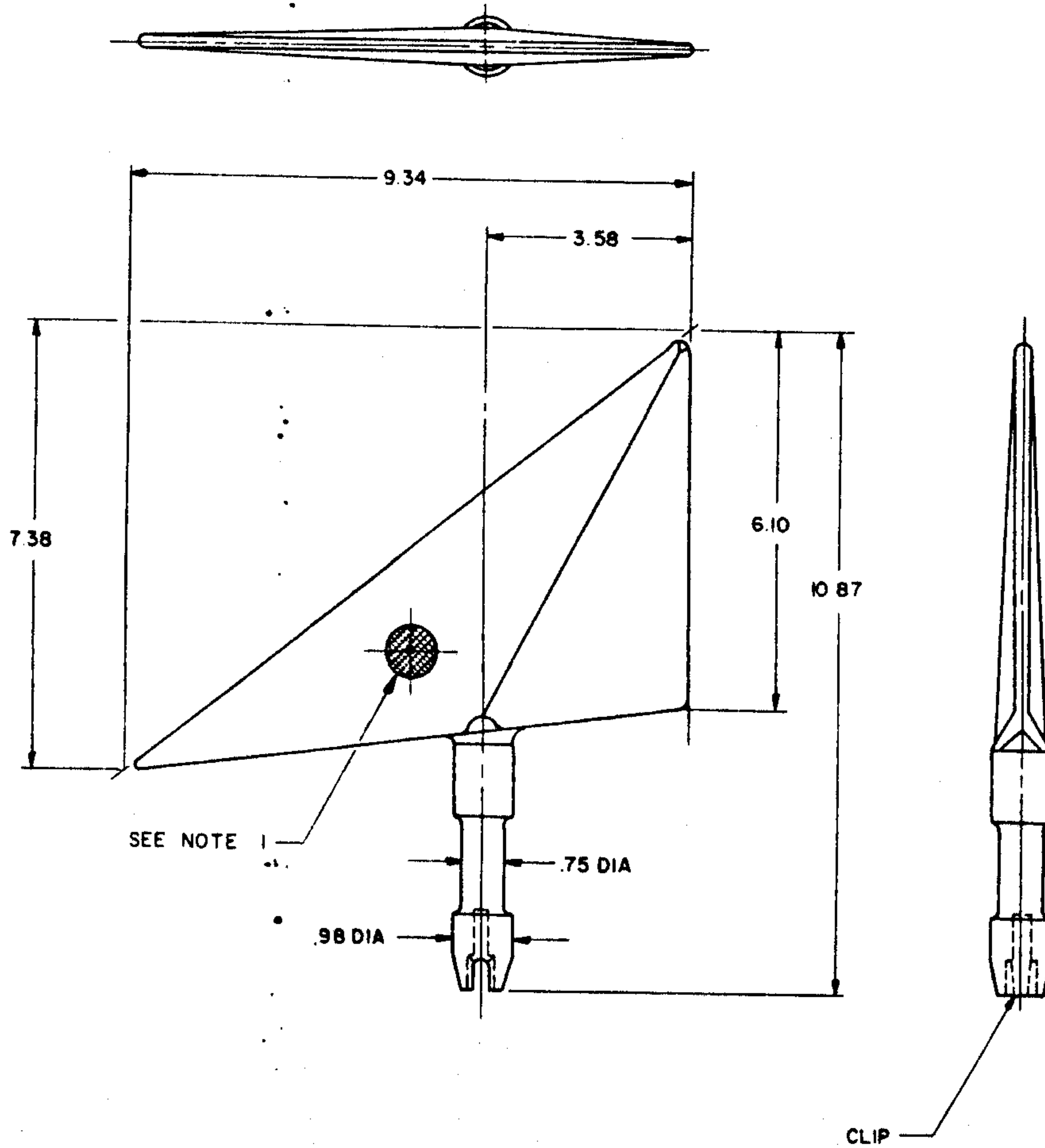
- APPROXIMATE WEIGHTS:
 - LR 62-RM-2 ENGINE - 568.3 LBS
 - LR 62-RM-4 ENGINE - 573.0 LBS
- REF FSN 2845-858-4303(X457)

ORIGINAL DATA SOURCE

MARTIN DWG 293-0400005
NAVAIR 01-95GMA-2-1
DATED 15 MARCH 1969

CONTROL VANE

BULLPUP AGM-12C, 12C-2



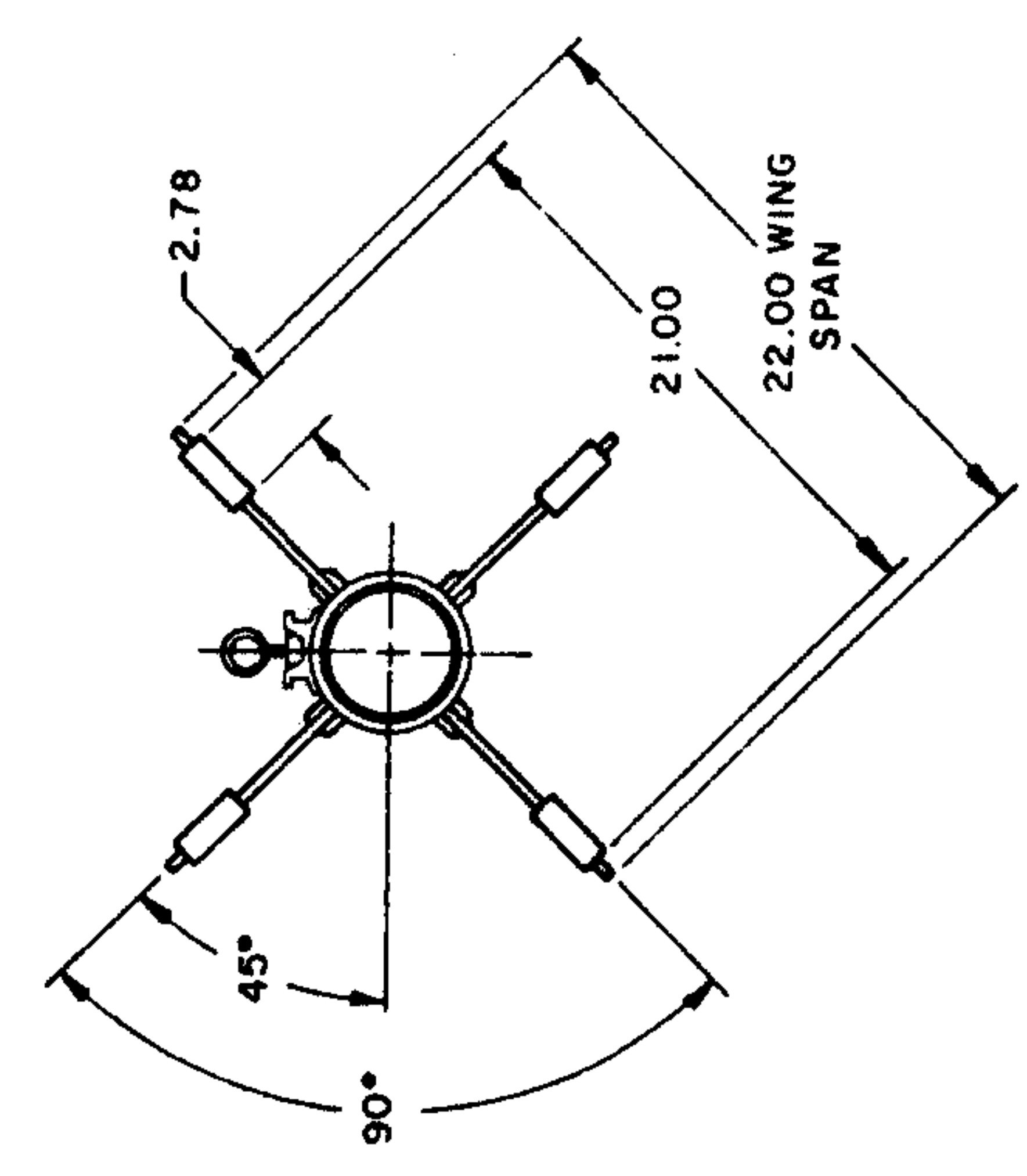
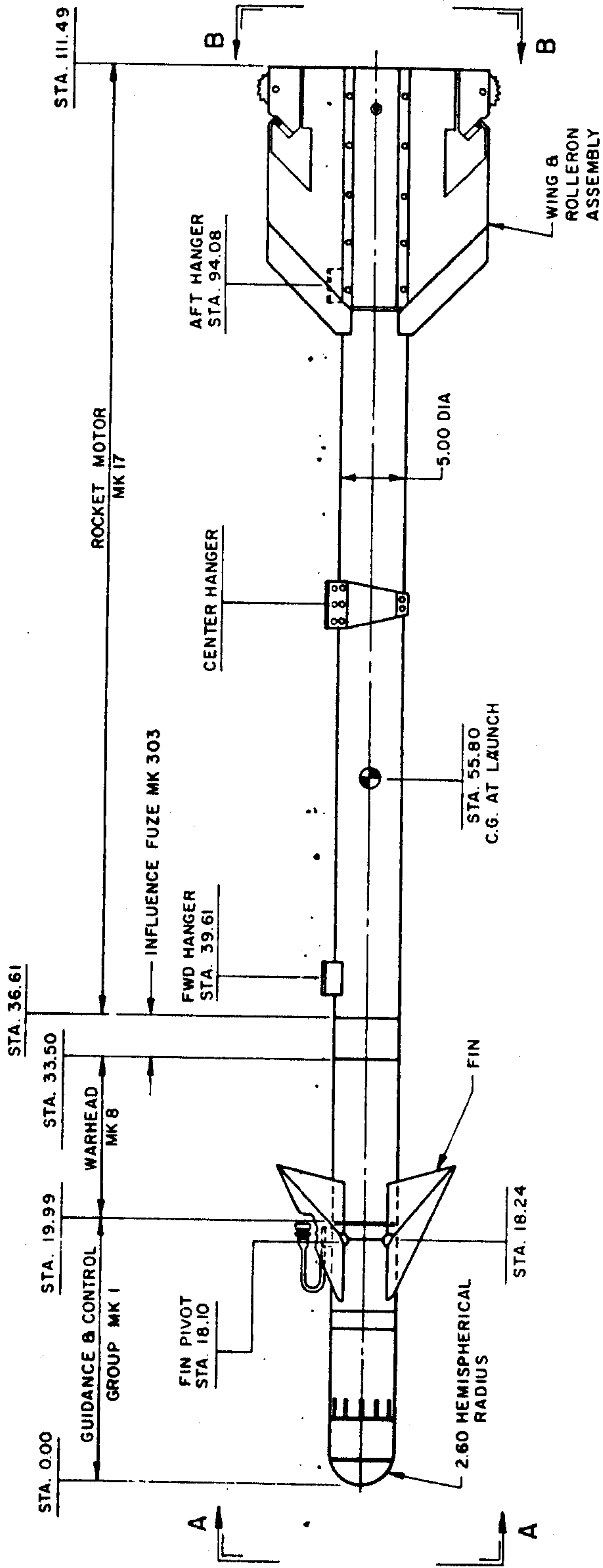
NOTES :

1. BLACK DOT 2.00 INCHES DIA IS APPLIED TO BOTH SIDES OF CONTROL VANE TO DISTINGUISH IT FROM THE BULLPUP AGM-12B CONTROL VANE.
2. APPROXIMATE WEIGHT — 1.1 LBS EACH
3. FOUR CONTROL VANES ARE REQUIRED PER MISSILE.
4. REF FSN 1420-858-4305(X456)

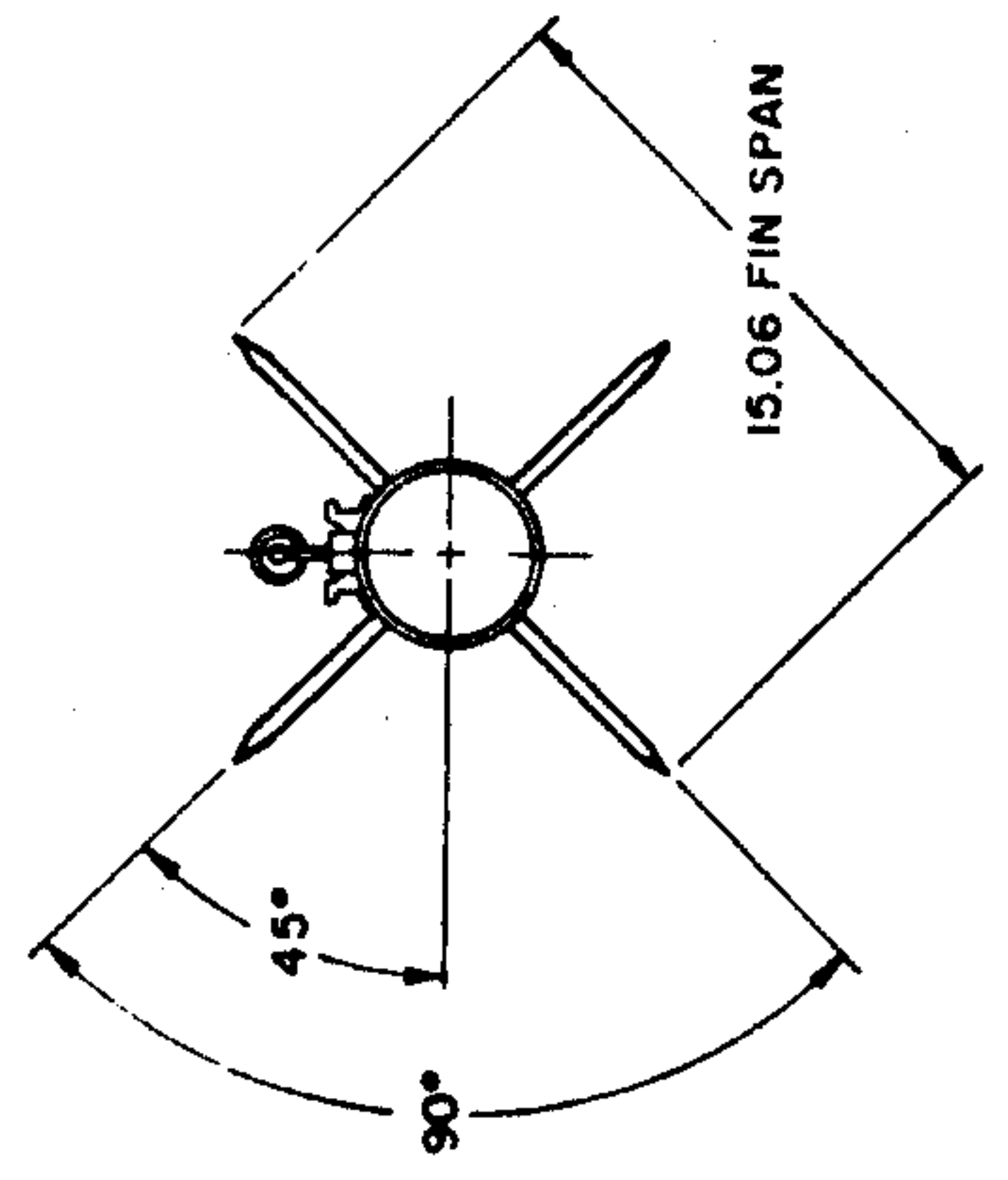
ORIGINAL DATA SOURCE

MARTIN DWG NO . 293E6000006
 NAVAIR 01-95GMA-2-1
 DATED 15 MARCH 1969

SIDEWINDER AIM-9B GENERAL ARRANGEMENT



VIEW B-B

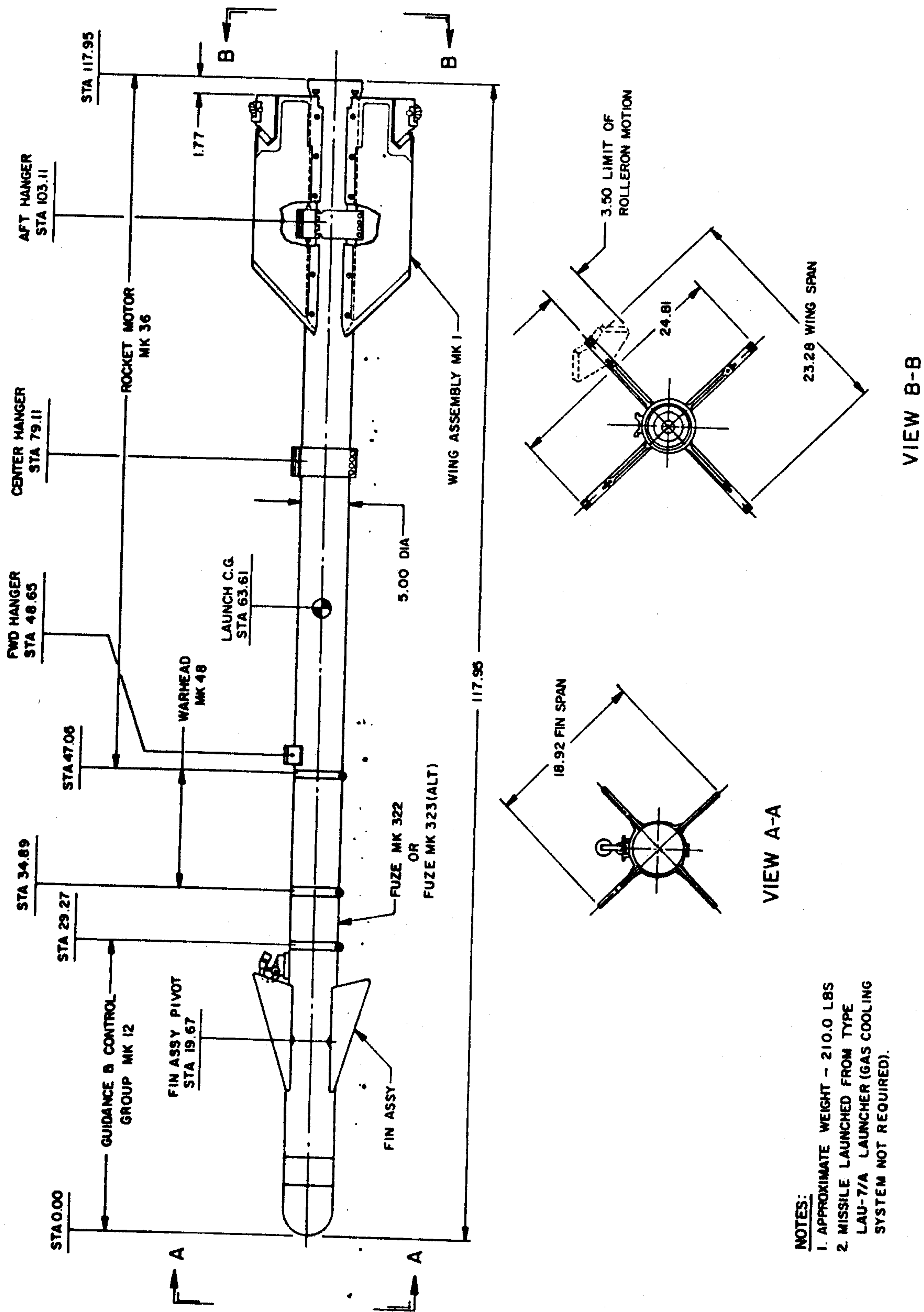


VIEW A-A

ORIGINAL DATA SOURCE
 BUORD DWG NO. SK 44176 REV 8
 DATED 20 FEBRUARY 1958
 NAVWEPS OP 3366
 DATED 15 APRIL 1966

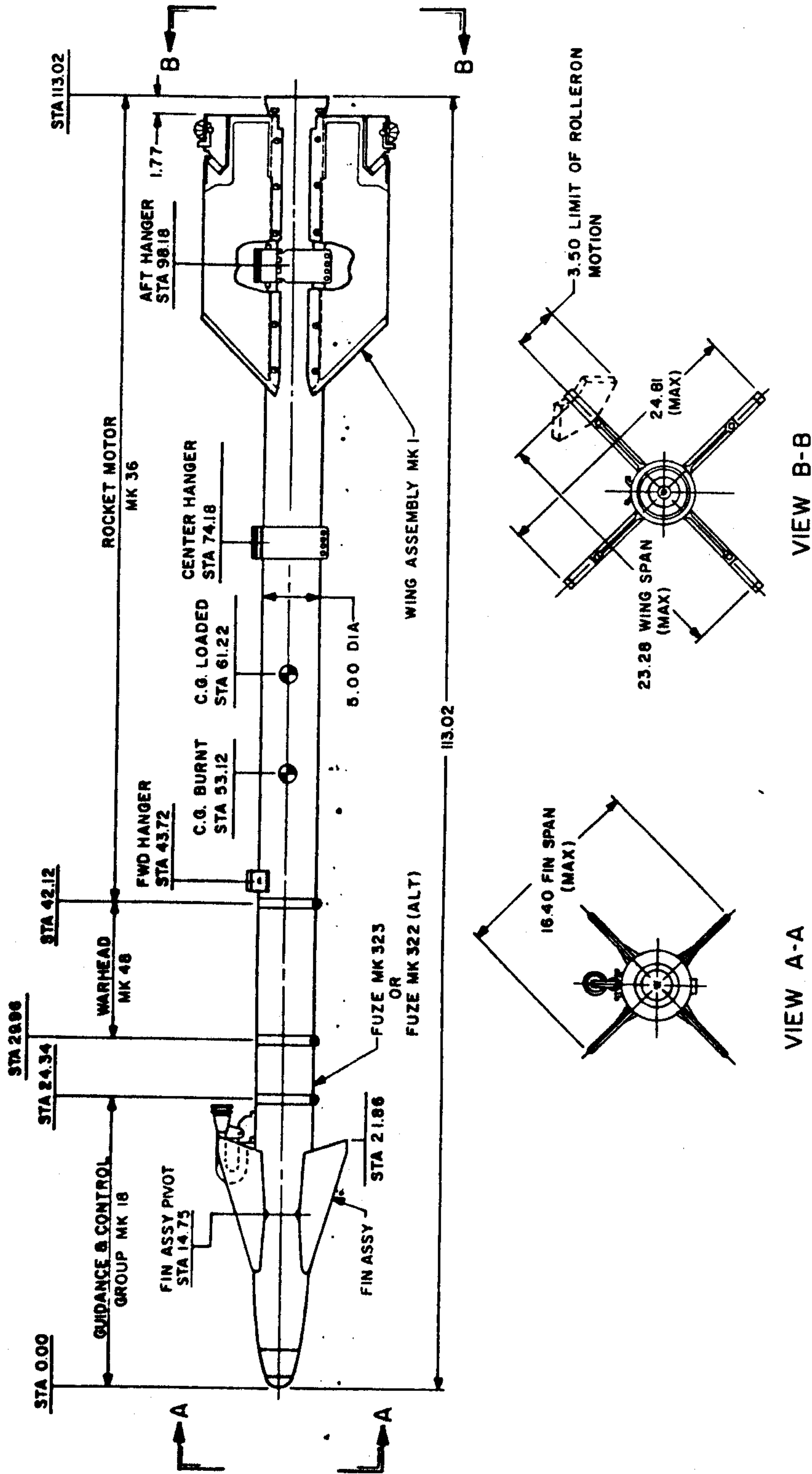
- NOTES:**
1. APPROXIMATE WEIGHT - 160.0 LBS.
 2. MISSILE LAUNCHED FROM TYPE AERO 3A LAUNCHER, AND LAU-7/A LAUNCHER WITH ELECTRICAL ADAPTER PART NO. 1517359.

SIDEWINDER AIM-9C GENERAL ARRANGEMENT



- NOTES:**
1. APPROXIMATE WEIGHT - 210.0 LBS
 2. MISSILE LAUNCHED FROM TYPE LAU-7/A LAUNCHER (GAS COOLING SYSTEM NOT REQUIRED).

SIDEWINDER AIM-9D GENERAL ARRANGEMENT



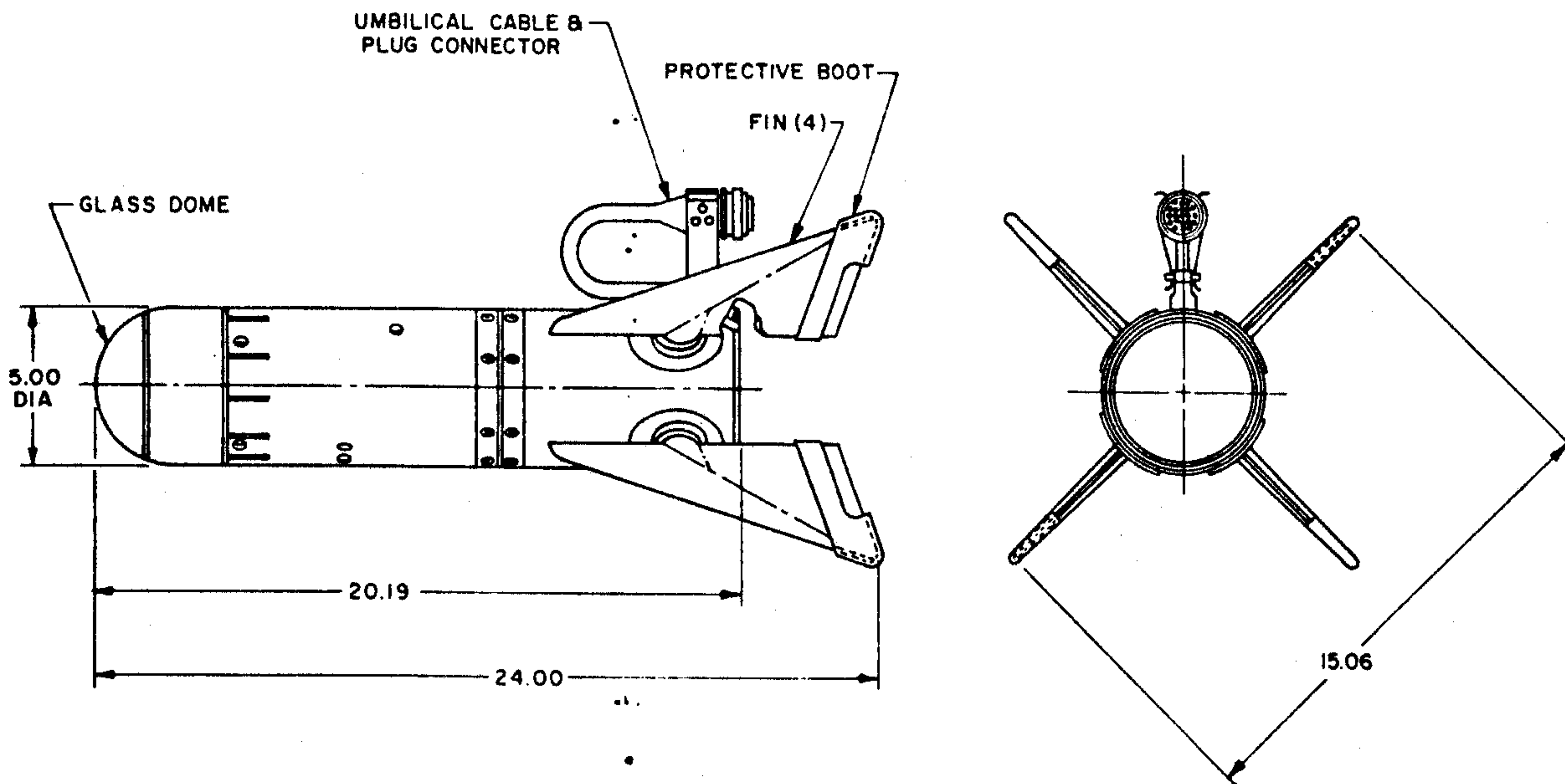
NOTES:

1. APPROXIMATE WEIGHTS:
 LOADED- 195.0 LBS.
 BURNT- 125.0 LBS.
2. MISSILE LAUNCHED FROM TYPE
 LAU-7/A LAUNCHER.

ORIGINAL DATA SOURCE
 BUWEP'S DWG. NO. 258111 REV B
 DATED 3 MARCH 1967

GUIDANCE & CONTROL GROUP MK I MODS

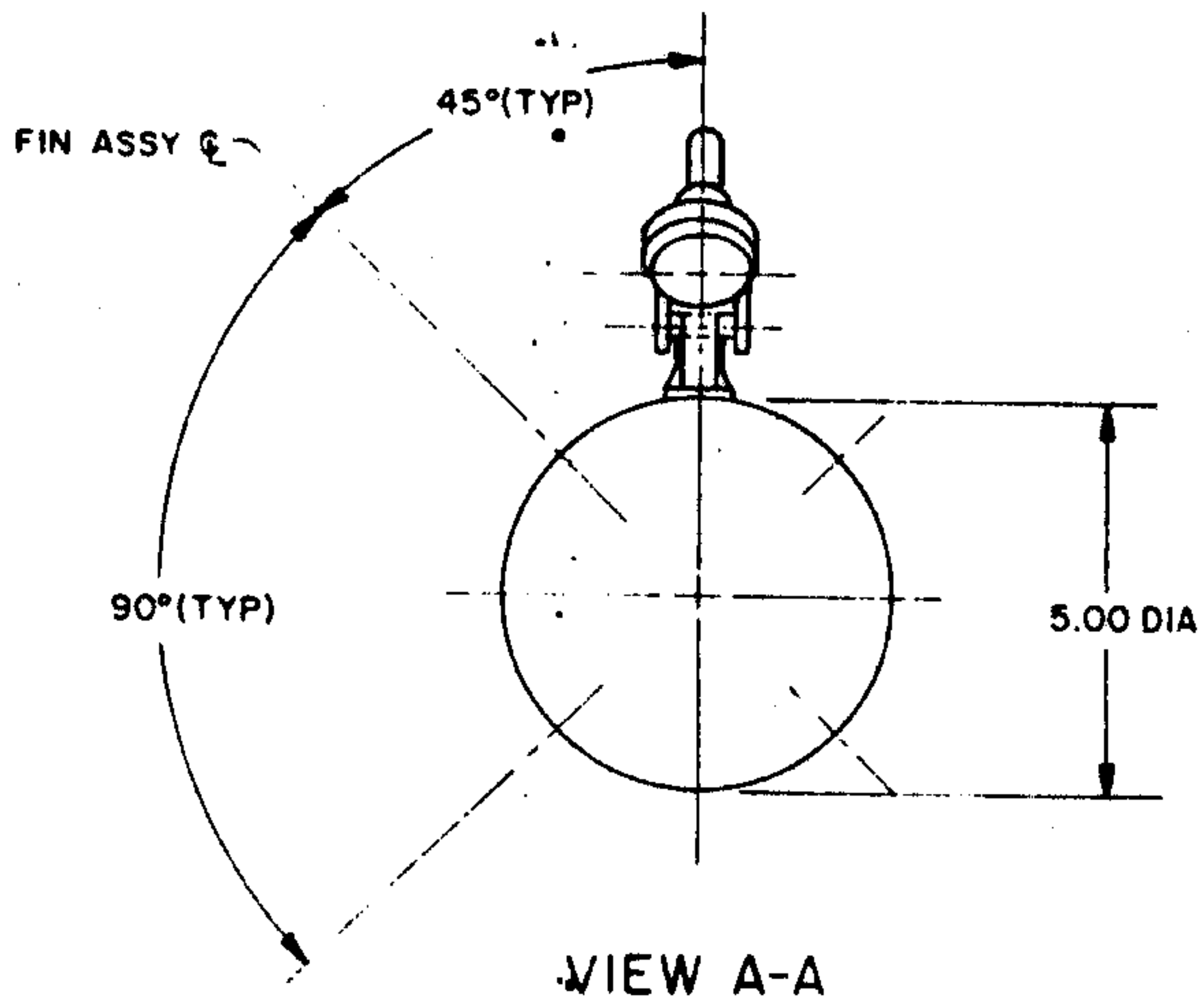
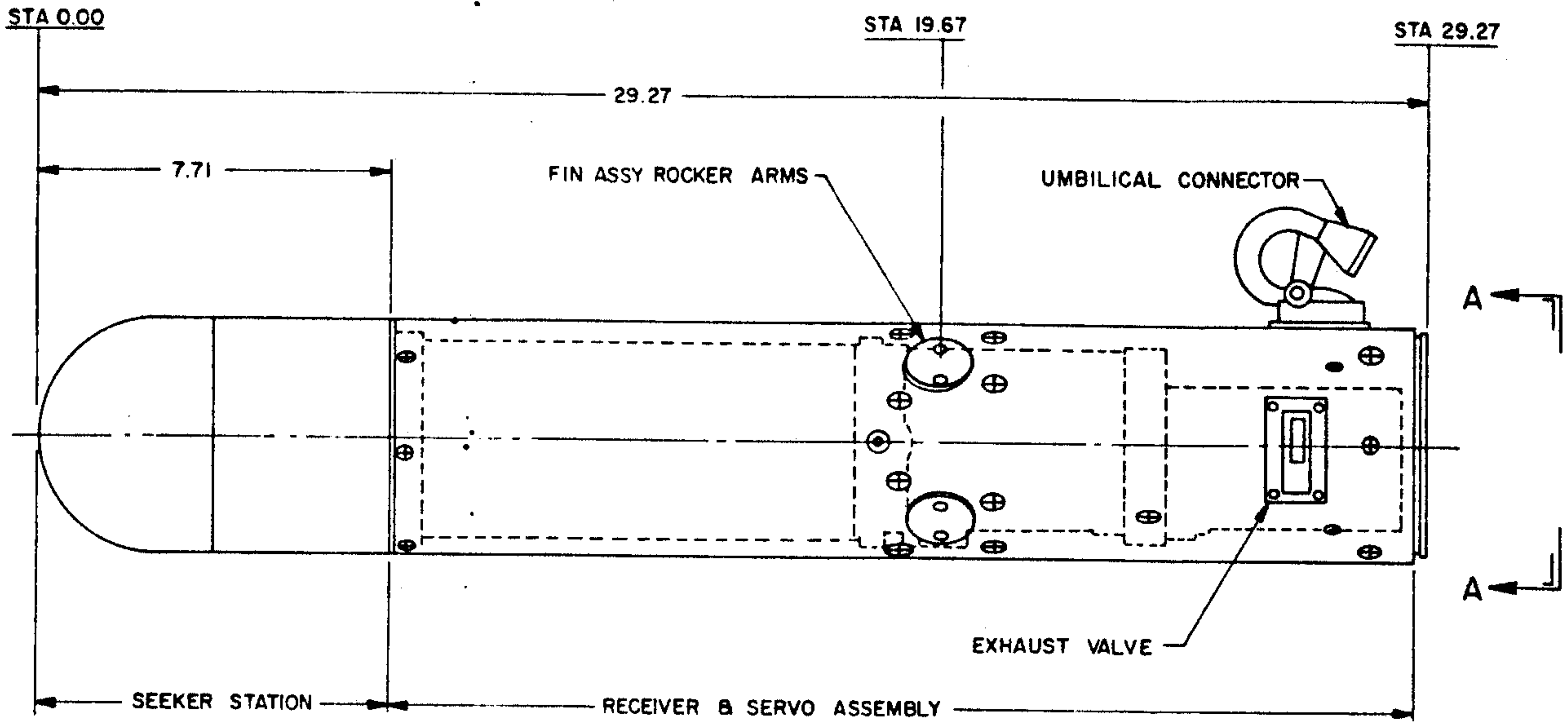
SIDEWINDER AIM-9B



APPROXIMATE WEIGHT - 36.0 LBS

ORIGINAL DATA SOURCE
BUORD DWG NO. 1804173 REV F
DATED 25 JUNE 1964

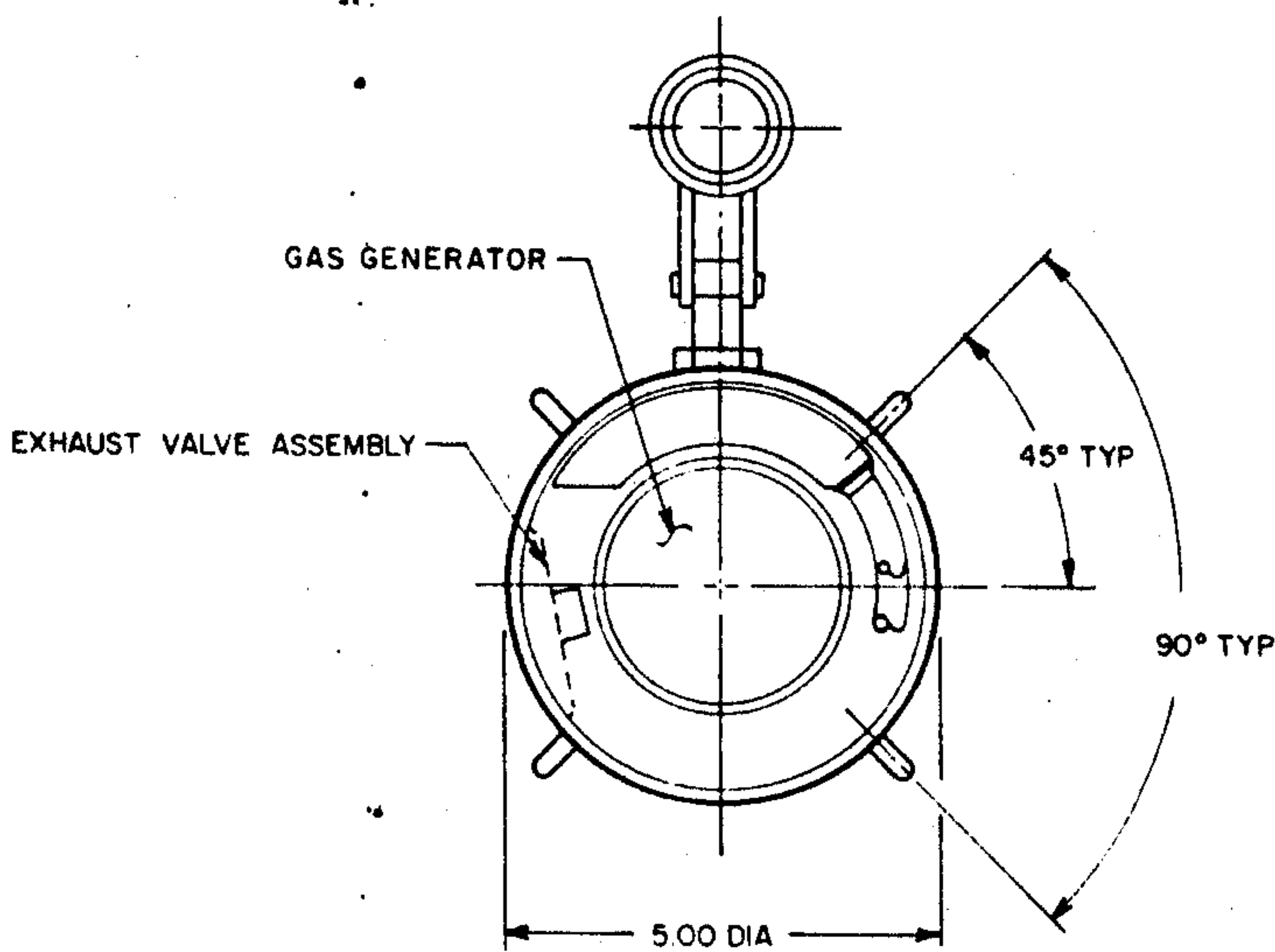
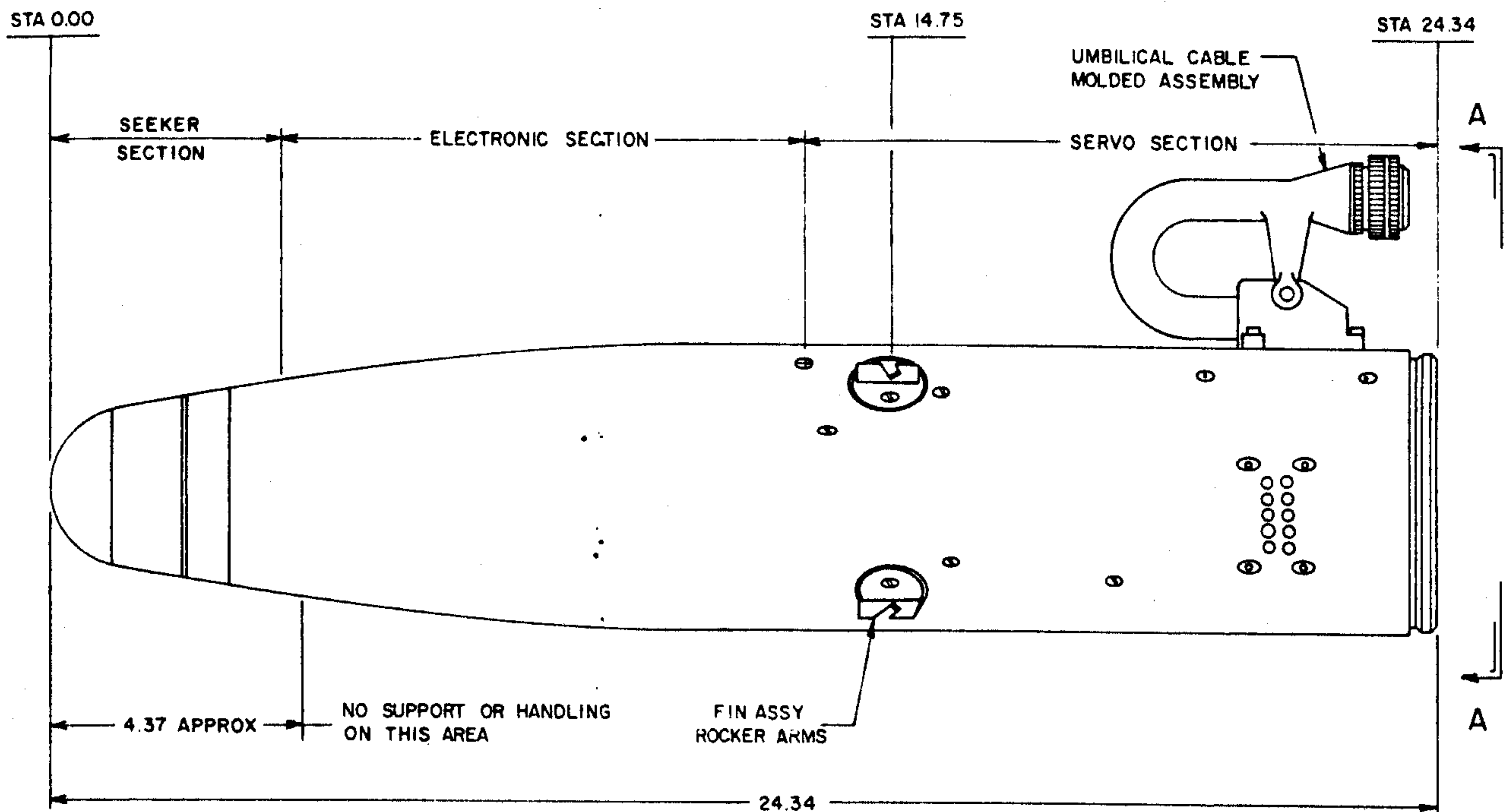
GUIDANCE & CONTROL GROUP MK 12 MODS SIDEWINDER AIM-9C



APPROXIMATE WEIGHT - 55.0 LBS.

ORIGINAL DATA SOURCE
BUORD DWG NO. 2197654 REV G
DATED 10 DECEMBER 1964

GUIDANCE & CONTROL GROUP MK 18 MOD 2 SIDEWINDER AIM-9D



VIEW A-A

NOTE:

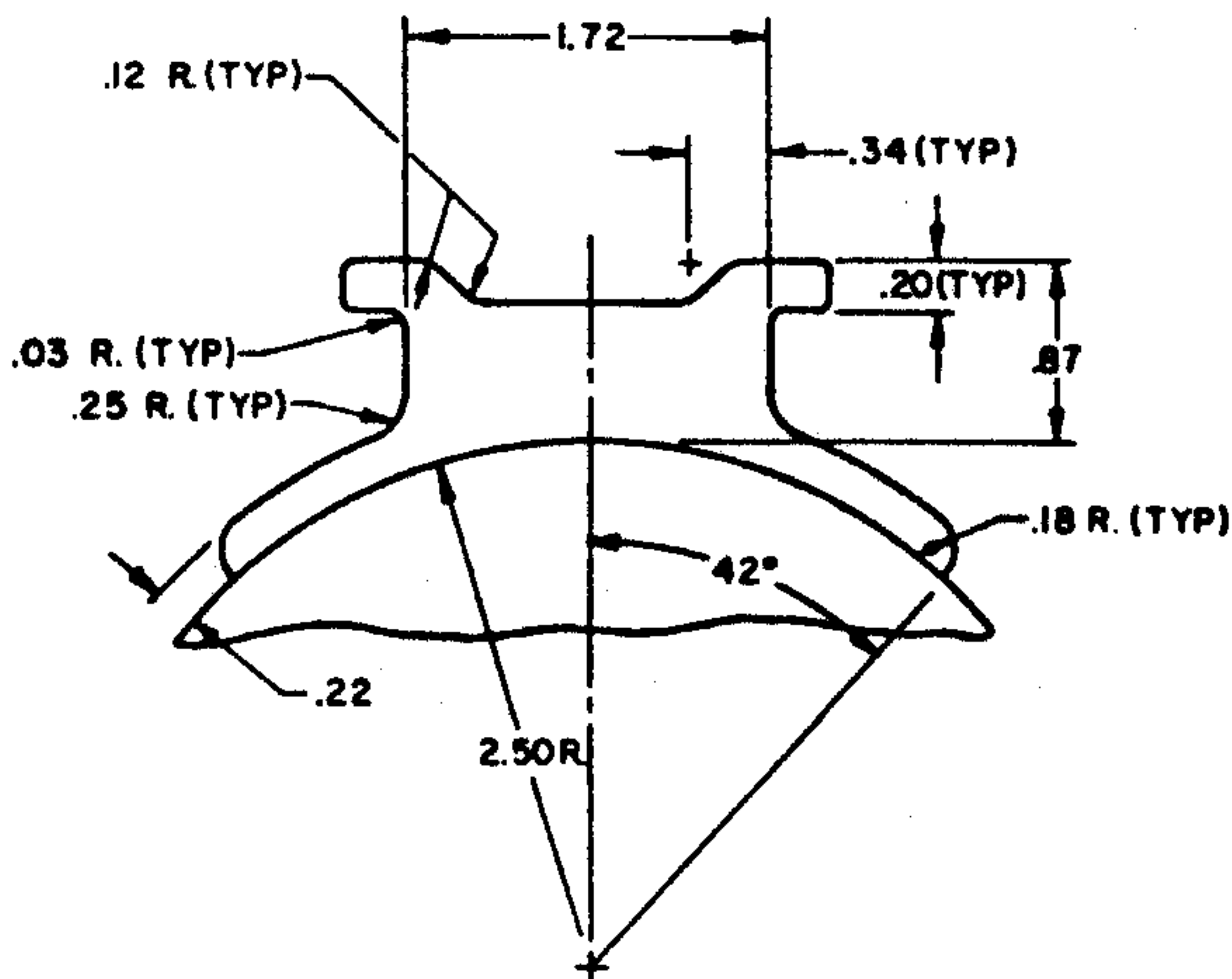
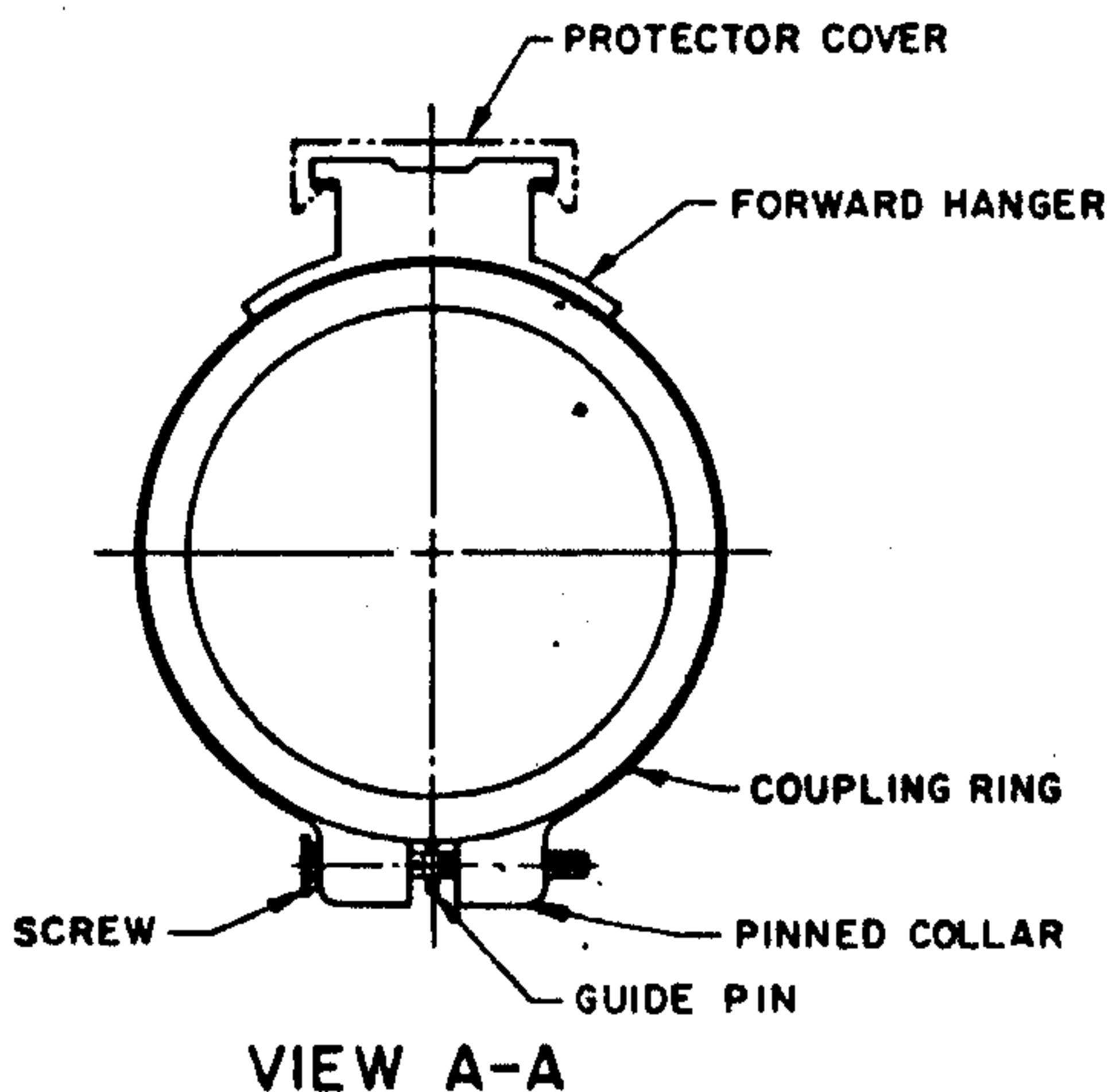
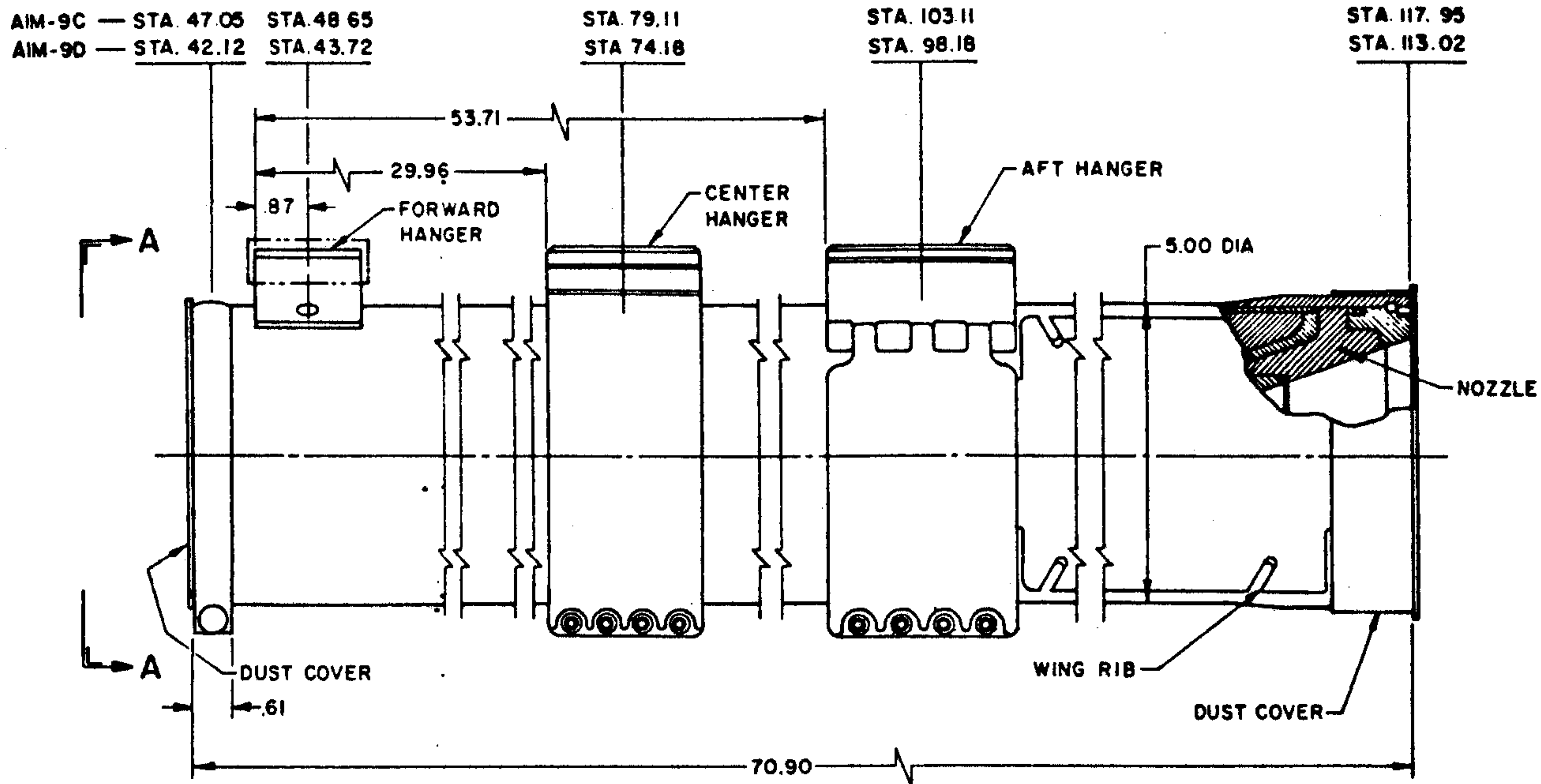
- I. APPROXIMATE WEIGHTS:
- GUIDANCE & CONTROL GROUP WITH TDD MK 24 - 43.5 LBS
- GUIDANCE & CONTROL GROUP LESS TDD MK 24 - 36.5 LBS

ORIGINAL DATA SOURCE

BUORD DWG NO. 2439934 REV J
DATED 30 APRIL 1965

ROCKET MOTOR MK 36 MODS

SIDEWINDER AIM-9C/D



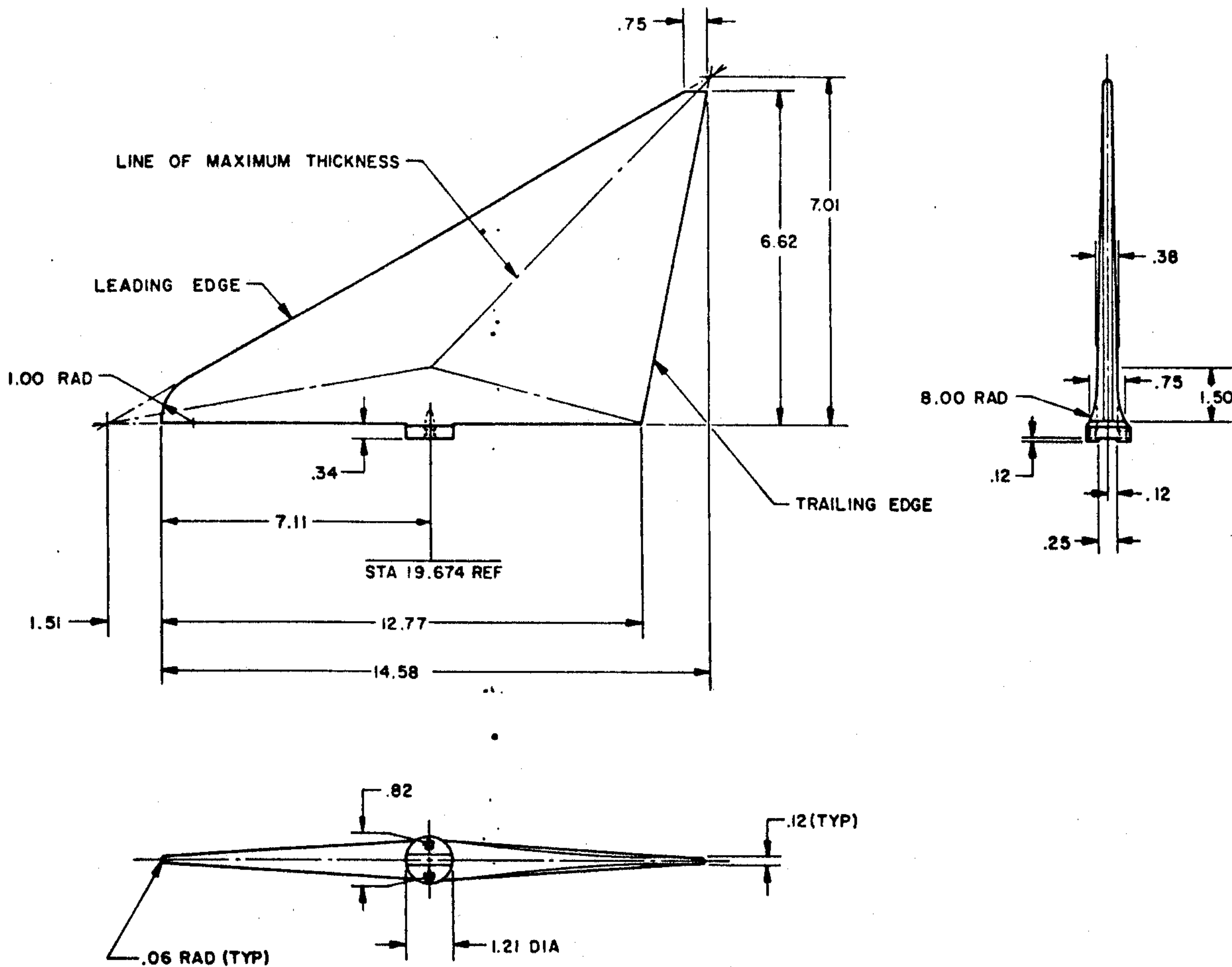
ENLARGED DETAIL OF FORWARD HANGER

NOTE:
 1 APPROXIMATE WEIGHT - 99.0 LBS

ORIGINAL DATA SOURCE
 BUWPS DWG NO. 2580611 REV D
 DATED 17 JULY 1969
 BUWPS DWG NO. 2580620
 DATED 4 JANUARY 1966
 (PRELIMINARY)

FIN ASSEMBLY

SIDEWINDER AIM-9C



NOTES:

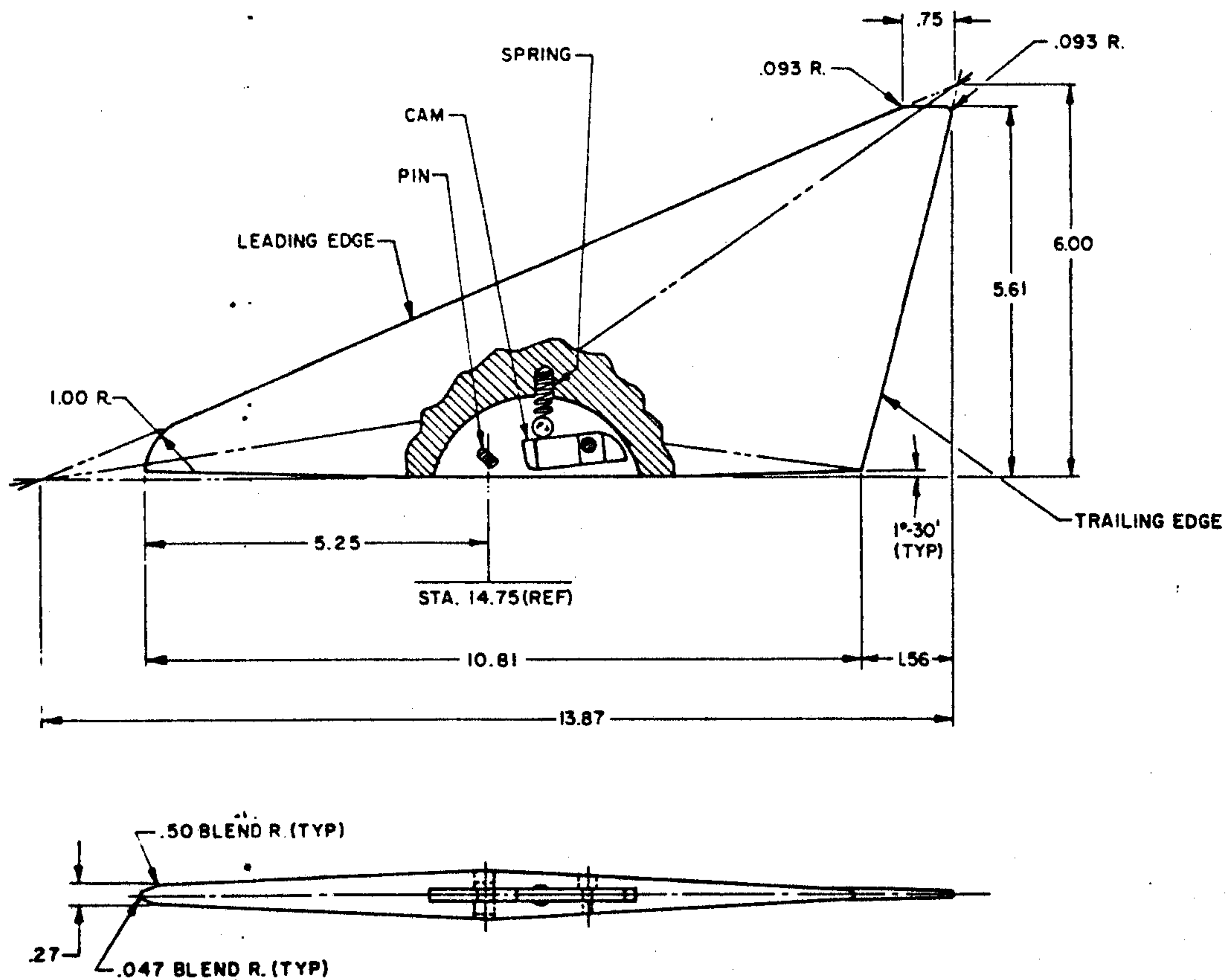
- 1. FOUR FIN ASSEMBLIES ARE REQUIRED PER MISSILE.
- 2. APPROXIMATE WEIGHT -1.25 LBS EACH.

ORIGINAL DATA SOURCE

BUORD DWG NO. 1517568
DATED 14 AUGUST 1963

FIN ASSEMBLY

SIDEWINDER AIM-9D



NOTES:

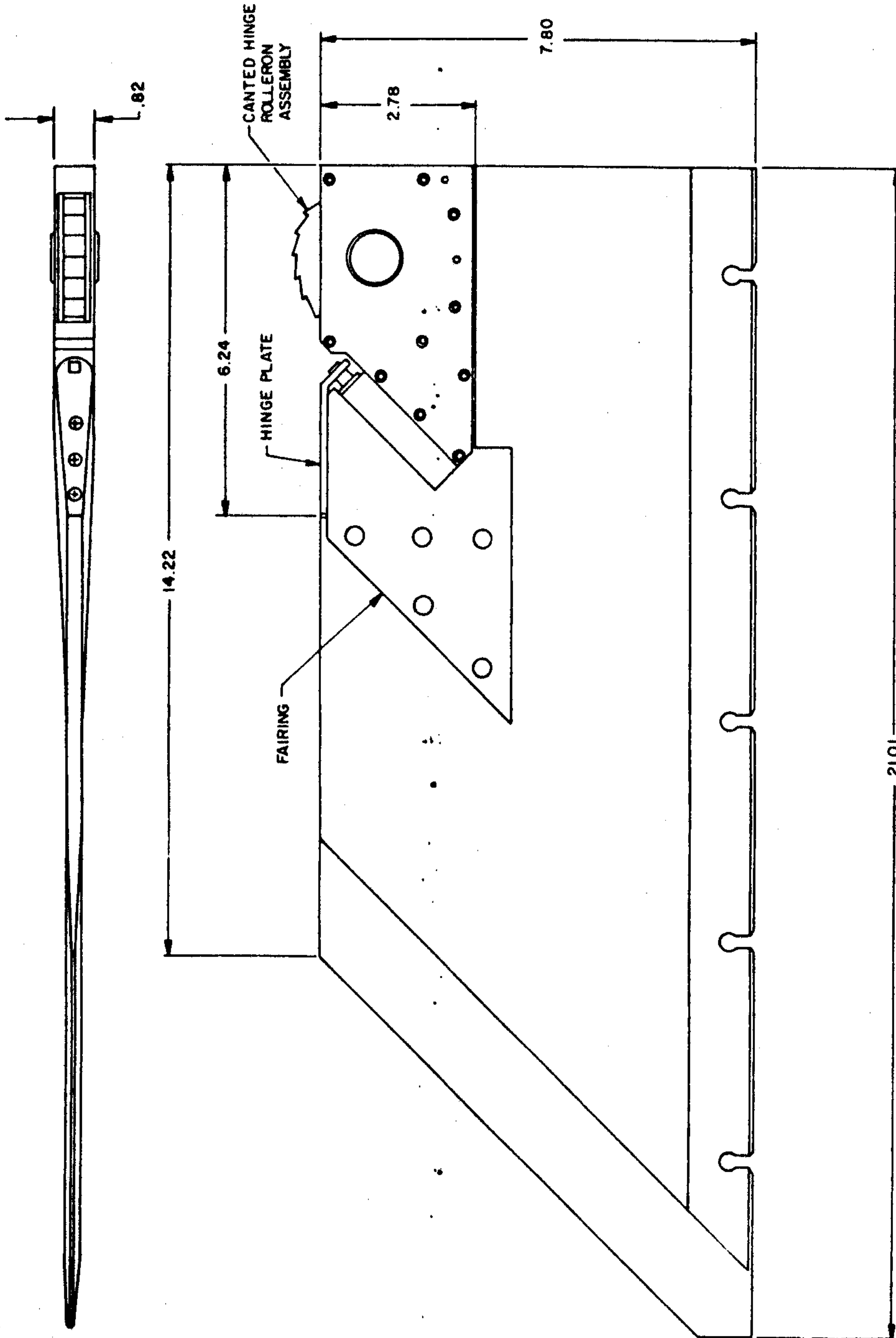
1. FOUR FIN ASSEMBLIES ARE REQUIRED PER MISSILE.
2. APPROXIMATE WEIGHT - .5 LBS EACH.

ORIGINAL DATA SOURCE

BUWEPs DWG NO. 1517810 REV D
DATED 18 JULY 1969
NOTS REV DIRECTIVE 5883
DATED 26 OCTOBER 1966

WING AND ROLLERON ASSEMBLY

SIDEWINDER AIM-9B



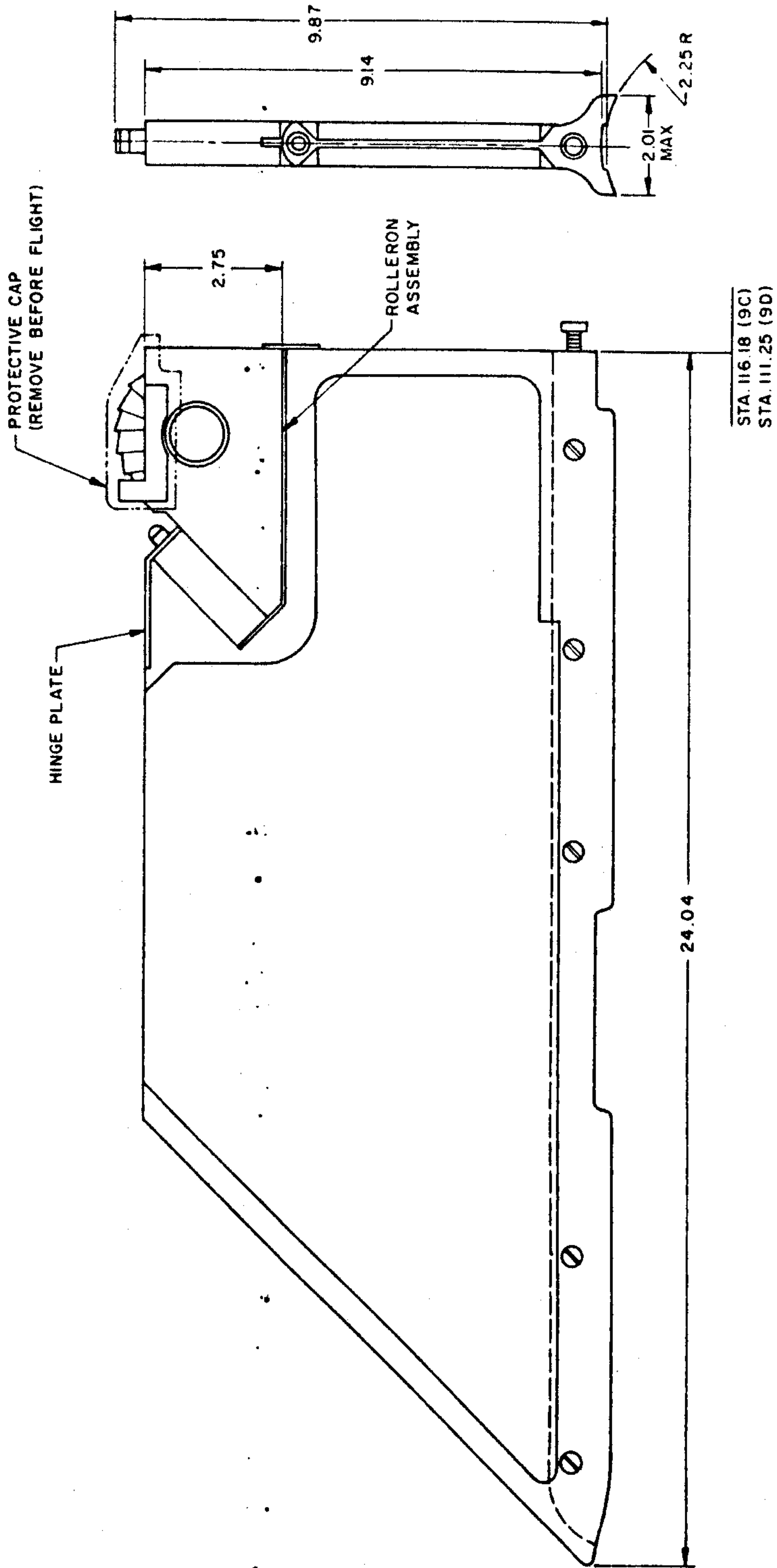
NOTES:

1. WING SHOWN IS USED WITH ROCKET MOTOR MK 17 MOD 5.
2. APPROXIMATE WEIGHT - 3.2 LBS
3. FOUR WINGS REQUIRED PER MISSILE.
4. STRAIGHT-HINGE ROLLERON ASSY IS USED WITH ROCKET MOTOR MK 17 MOD 1.

ORIGINAL DATA SOURCE
BUWEPS DWG NO. 1568339 REV C
DATED 4 DECEMBER 1967

WING ASSEMBLY MK I MOD 0

SIDEWINDER AIM-9C/D

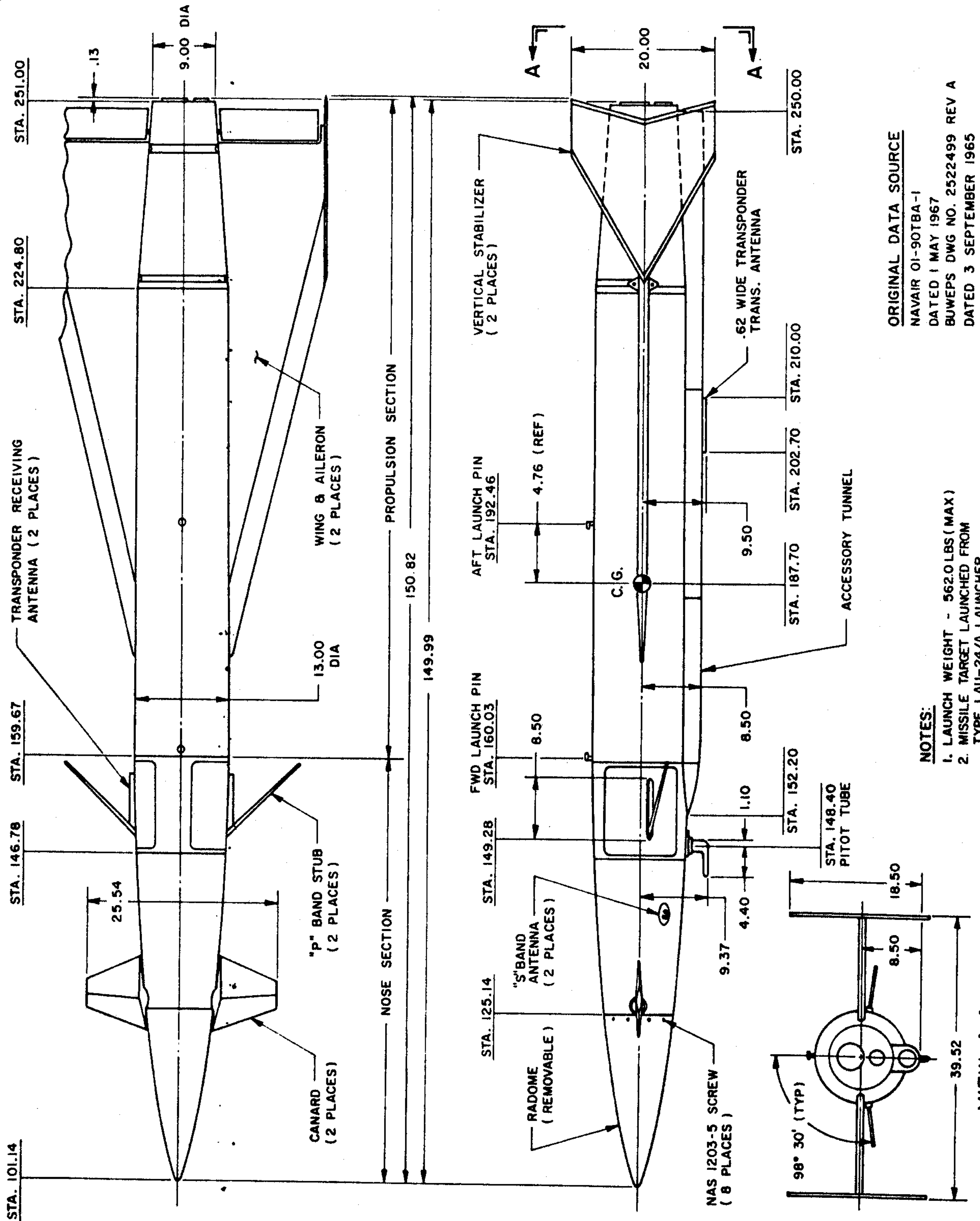


NOTES:

1. WING SHOWN IS USED WITH ROCKET MOTOR
MK 36 MODS
2. APPROXIMATE WEIGHT - 5.0 LBS
3. FOUR WINGS REQUIRED PER MISSILE.

ORIGINAL DATA SOURCE
BUWEP DWG NO. 1517535 REV D
DATED 9 JUNE 1969

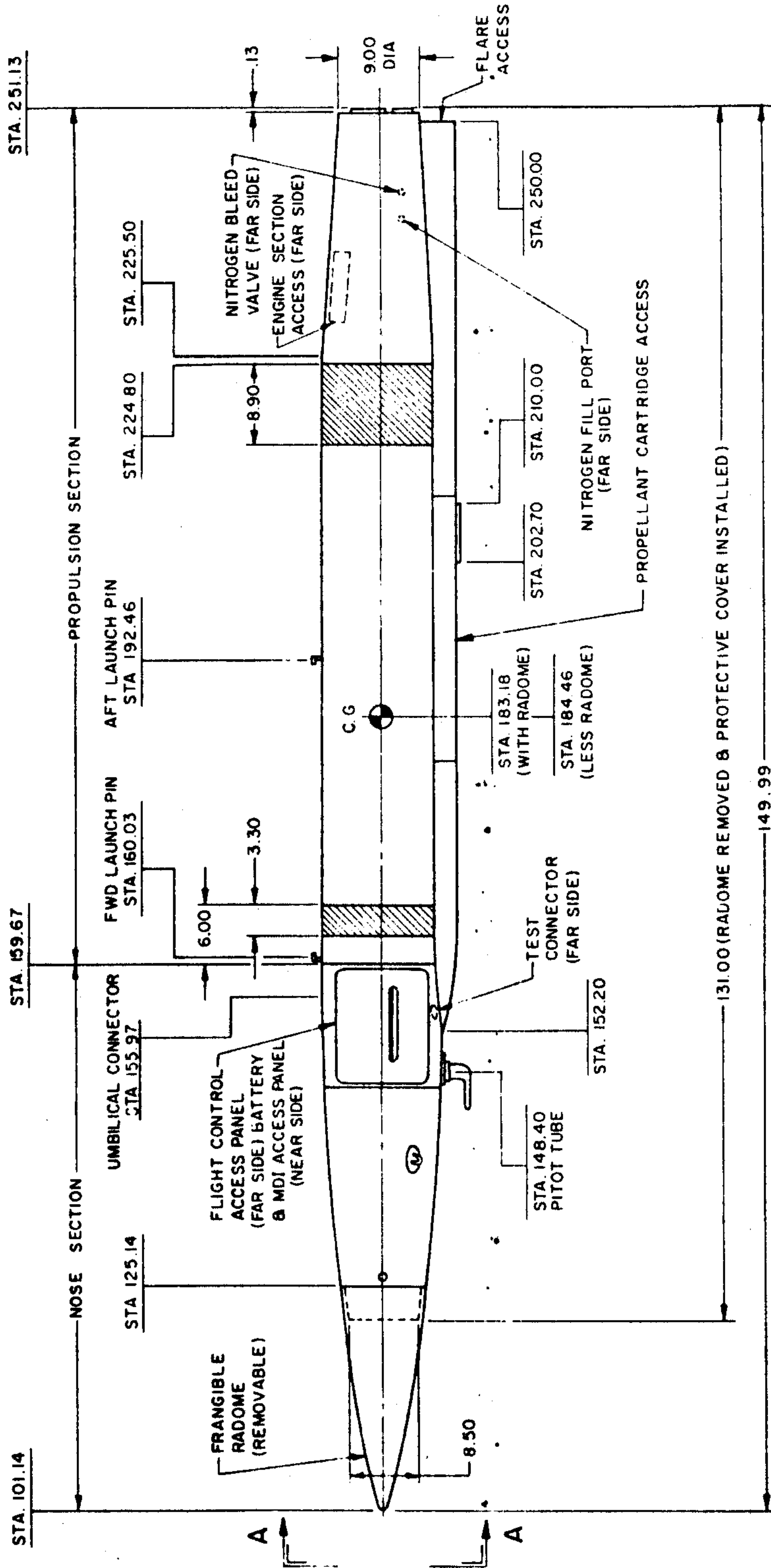
MISSILE TARGET AQM-37A GENERAL ARRANGEMENT



ORIGINAL DATA SOURCE
NAVAIR 01-90TBA-1
DATED 1 MAY 1967
BUWEPS DWG NO. 2522499 REV A
DATED 3 SEPTEMBER 1965

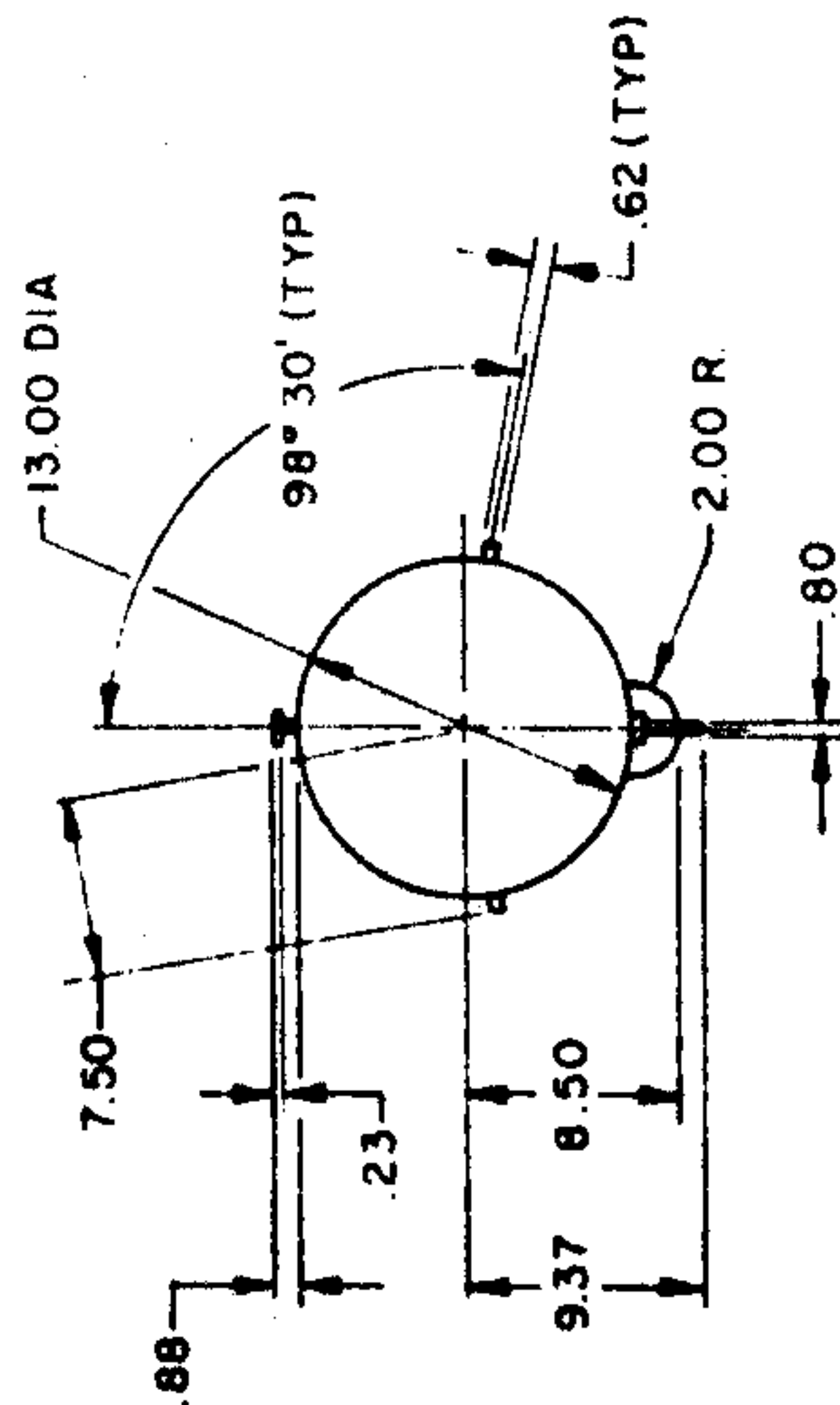
NOTES:
1. LAUNCH WEIGHT - 562.0 LBS (MAX)
2. MISSILE TARGET LAUNCHED FROM
TYPE LAU-24/A LAUNCHER.

MISSILE TARGET HARD SPOT LOCATIONS



NOTES:

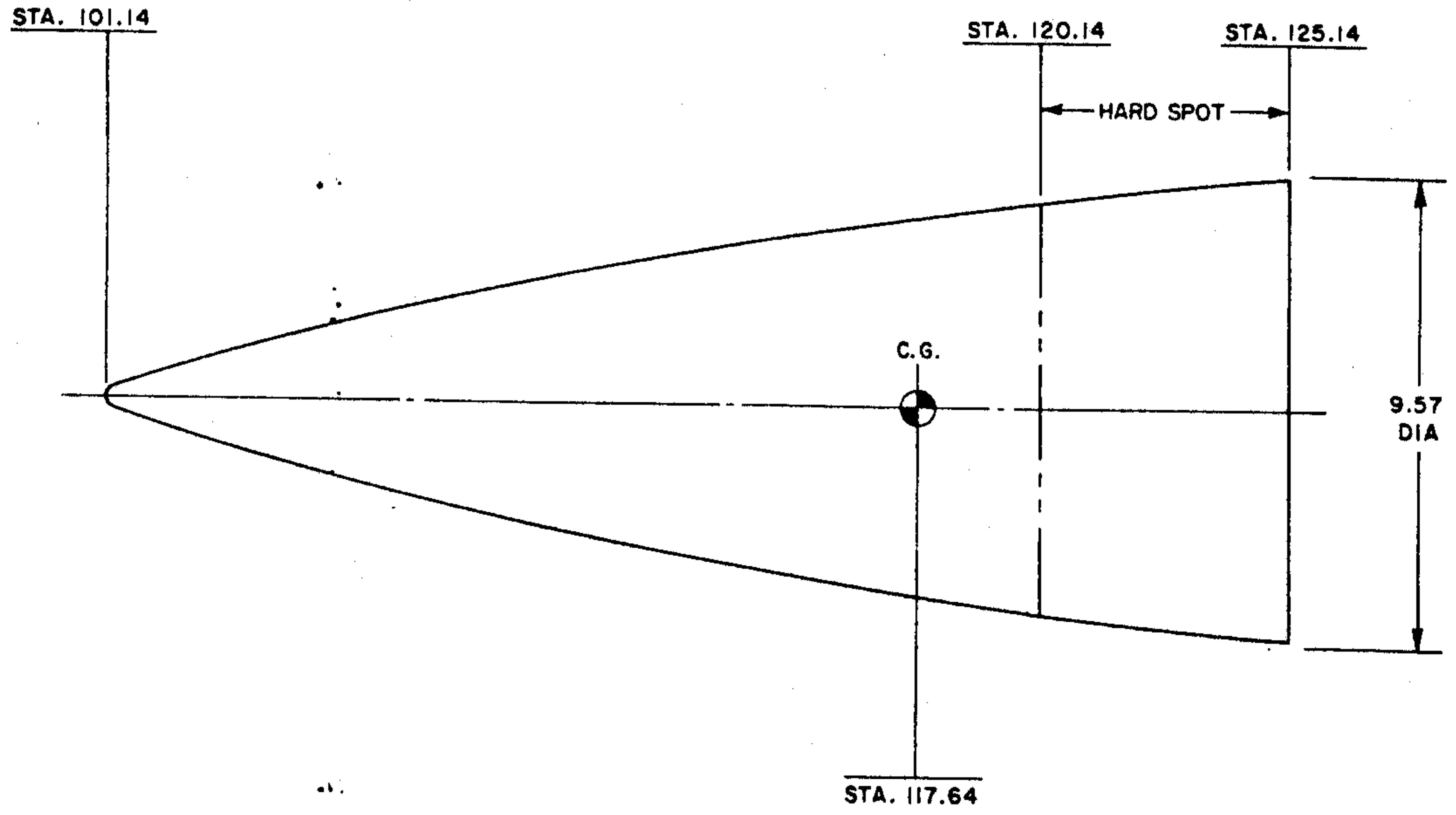
1. APPROXIMATE WEIGHTS WITH CANARDS, STABILIZERS & "P" BAND STUBS REMOVED:
 WITH RADOME, BATTERY, TRANSPONDER 521.0 LBS.
 & FLARE INSTALLED 481.0 LBS.
 LESS THE ABOVE ITEMS
 [Hatched Area] INDICATES HARD SPOT AREA.
2. [Hatched Area] INDICATES HARD SPOT AREA.
3. C.G.'S INDICATED ARE LESS BATTERY, TRANSPONDER AND FLARE.



VIEW A-A

ORIGINAL DATA SOURCE
 BUWEP DWG NO. 2522499 REV A
 DATED 3 SEPTEMBER 1965
 NAVAIR 01-90TBA-1
 DATED 1 MAY 1967

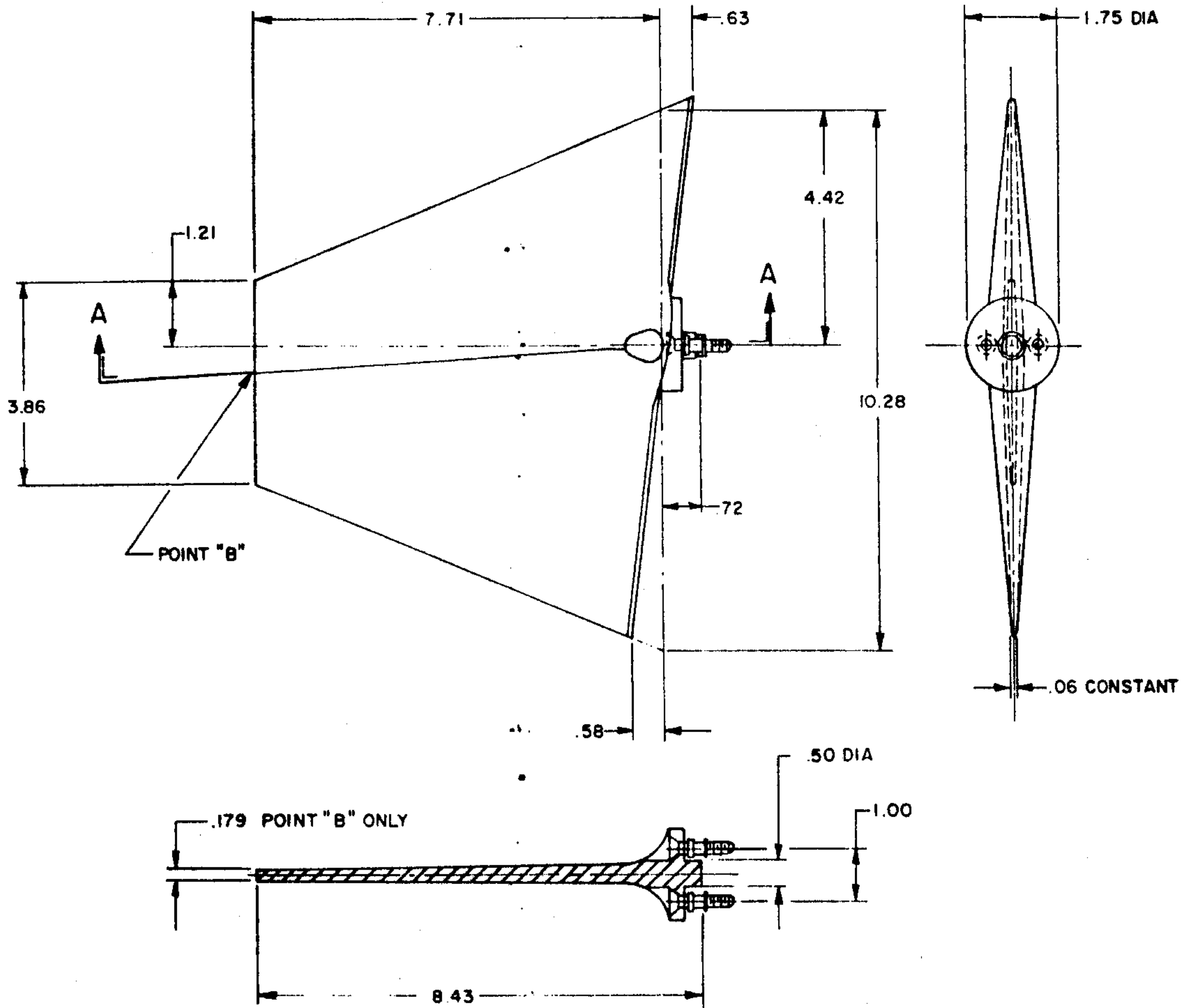
MISSILE TARGET RADOME



APPROXIMATE WEIGHT — 9.7 LBS.

ORIGINAL DATA SOURCE
BUWEPs DWG NO. 2522499

MISSILE TARGET CANARD



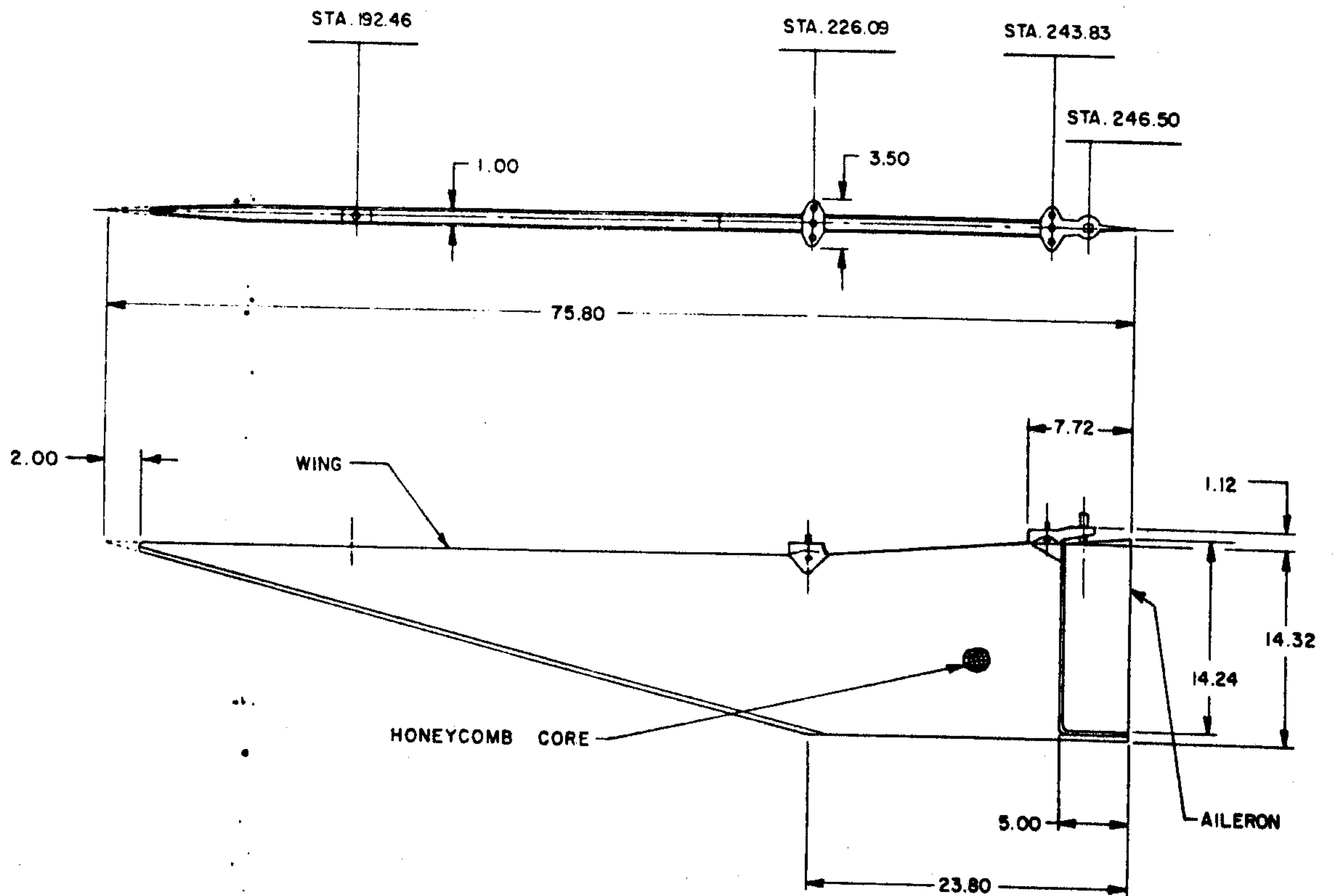
SECTION A-A

NOTES:

1. TWO CANARDS SHOWN ARE REQUIRED FOR EACH MISSILE TARGET.
2. MATERIAL - ALUMINUM ALLOY BONDED HONEYCOMB SANDWICH.
3. WEIGHT - 1.2 LBS. EACH.

ORIGINAL DATA SOURCE
BEECH DWG NO. 1019-660005 REV. E

MISSILE TARGET WING & AILERON



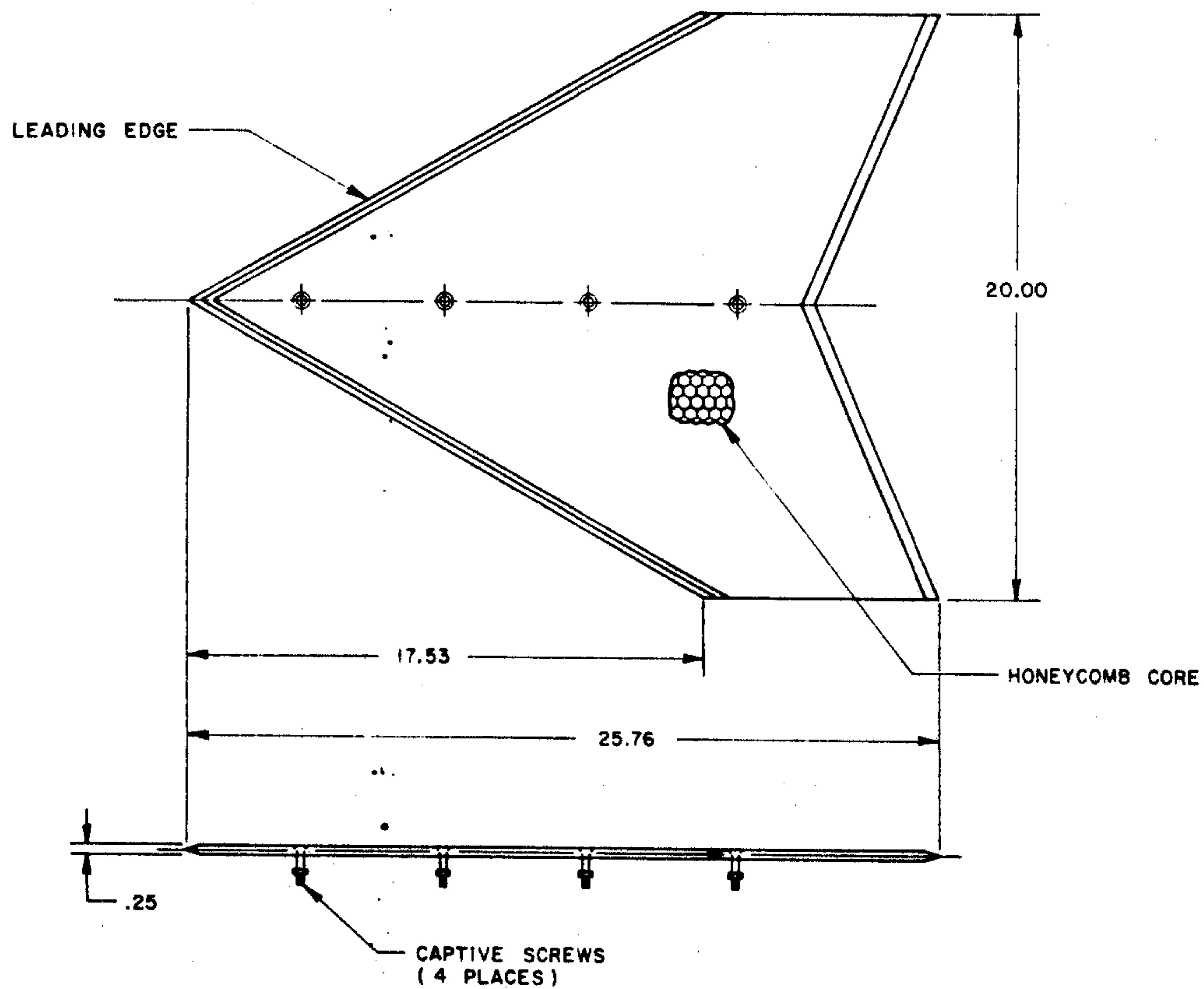
NOTES:

1. TWO WINGS SHOWN ARE REQUIRED PER MISSILE TARGET.
2. MATERIAL - ALUMINUM ALLOY BONDED HONEYCOMB SANDWICH.
3. WEIGHT - 16.1 LBS EACH

ORIGINAL DATA SOURCE

BEECH DWG NO S.
1019-100000 REV H
1019-130001 REV C

MISSILE TARGET VERTICAL STABILIZER

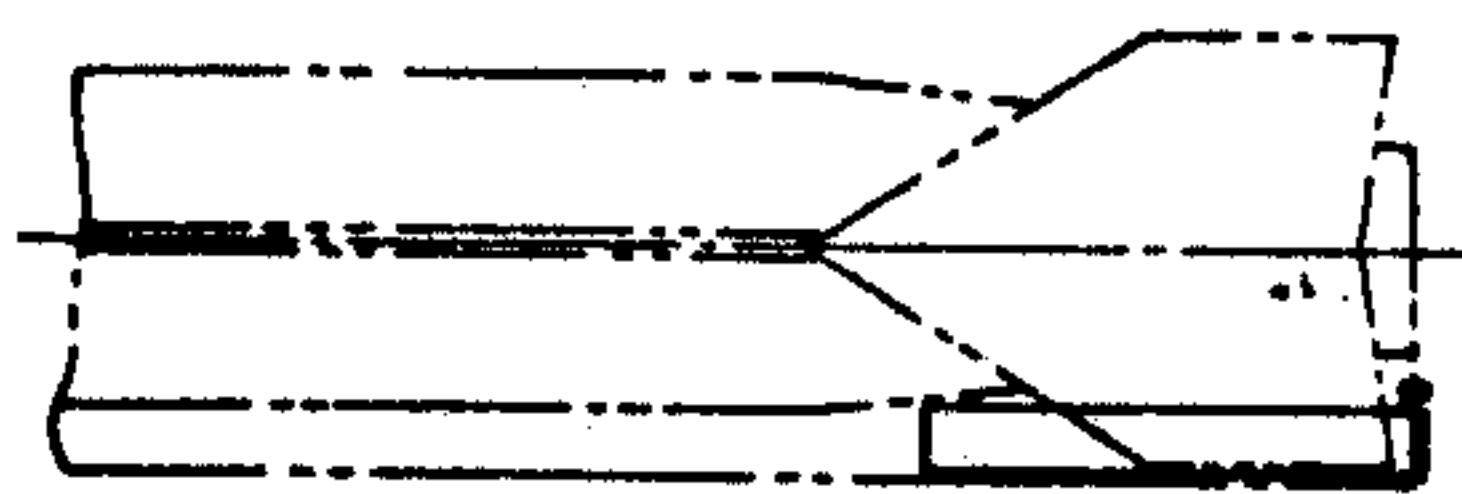
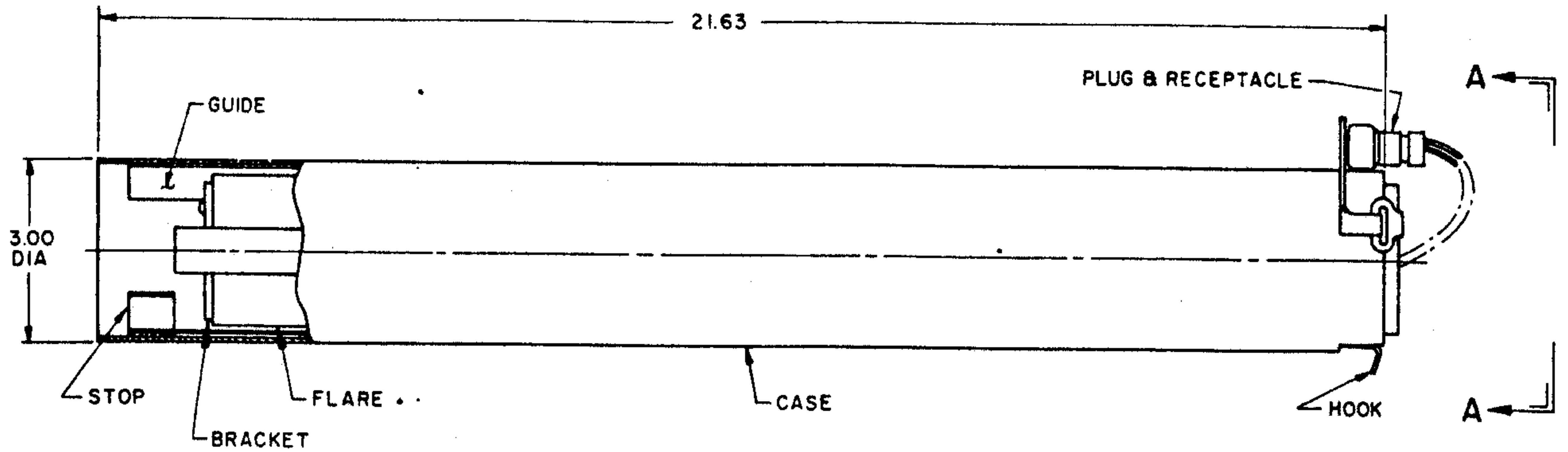


NOTES:

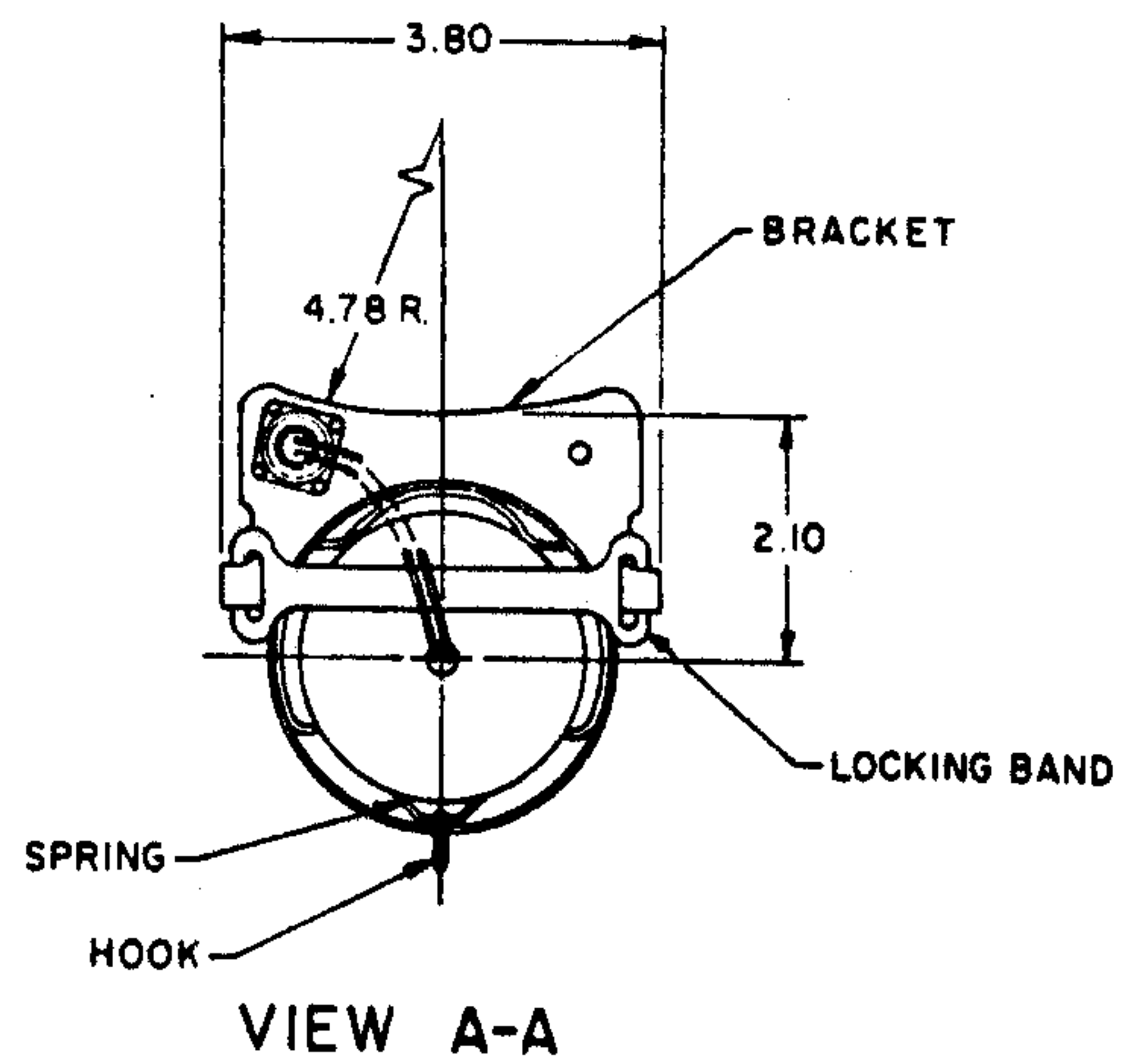
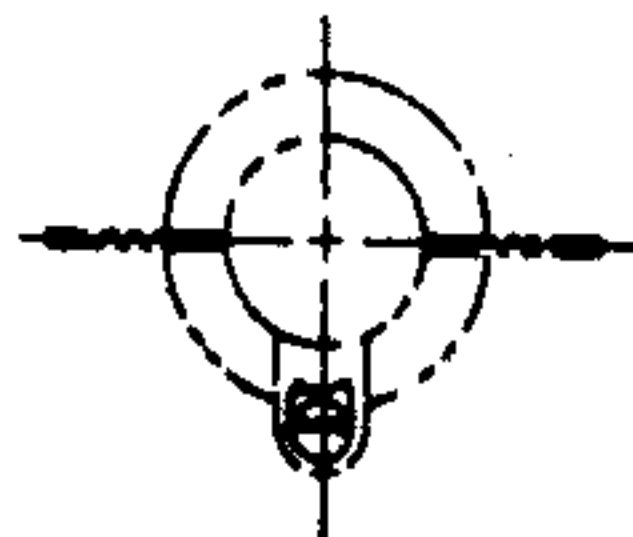
1. LEFT HAND VERTICAL STABILIZER SHOWN, RIGHT OPPOSITE.
2. ONE LEFT AND ONE RIGHT HAND VERTICAL STABILIZERS ARE REQUIRED PER MISSILE TARGET.
3. MATERIAL - ALUMINUM ALLOY BONDED HONEYCOMB SANDWICH.
4. WEIGHT - 3.2 LBS EACH

ORIGINAL DATA SOURCE
BEECH DWG NO. 1019-640001 REV E

MISSILE TARGET INFRARED FLARE MK 37



FLARE INSTALLATION

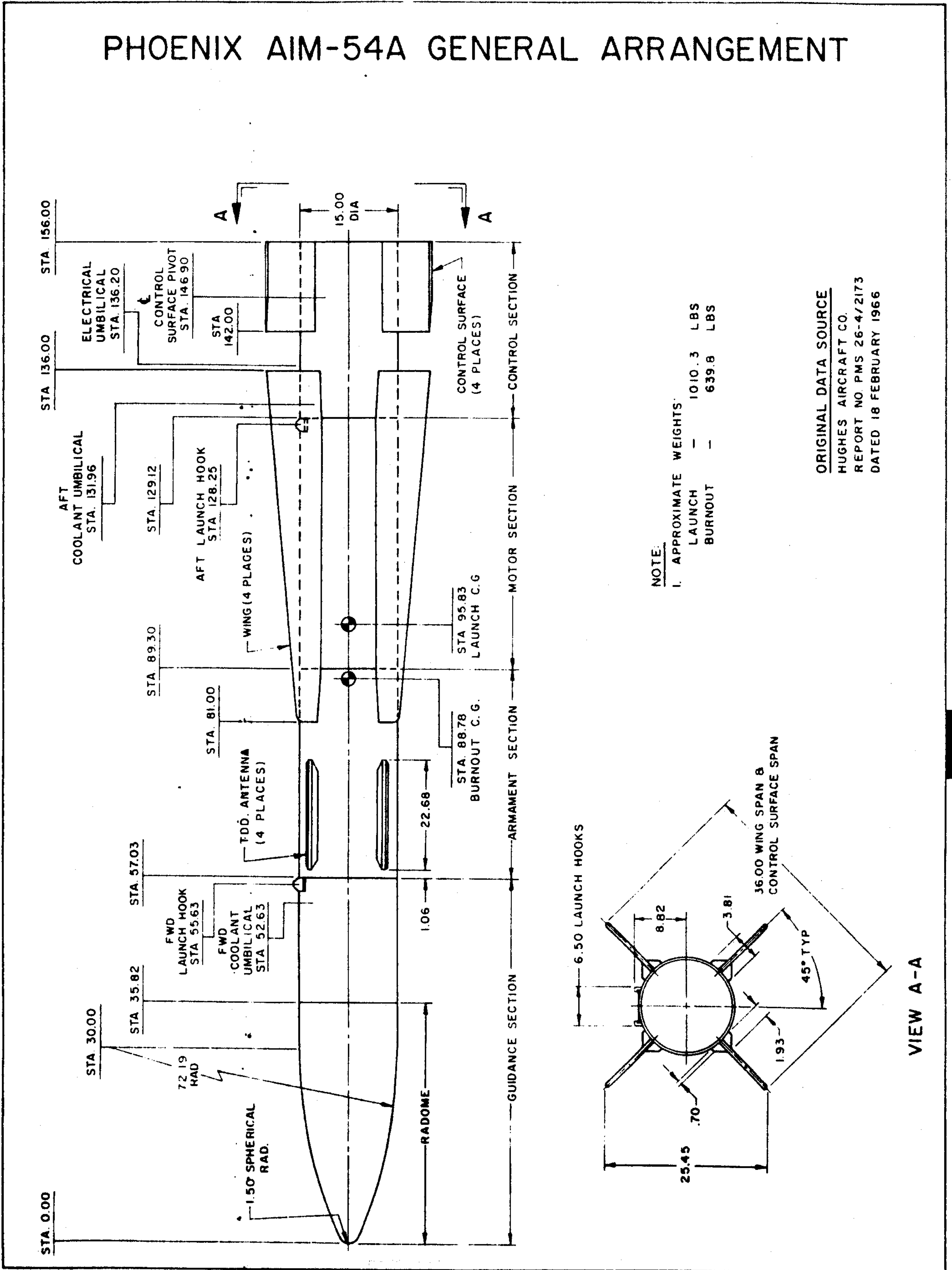


NOTES:

1. FLARE SHOWN PROVIDES INFRARED RADIATION INTENSITY AUGMENTATION FOR THE MISSILE TARGET. THE FLARE IS AN OPTIONAL PIECE OF EQUIPMENT.
2. WEIGHT - 15.5 LBS

ORIGINAL DATA SOURCE
BEECH DWG NO. 1019-360111 REV E

PHOENIX AIM-54A GENERAL ARRANGEMENT

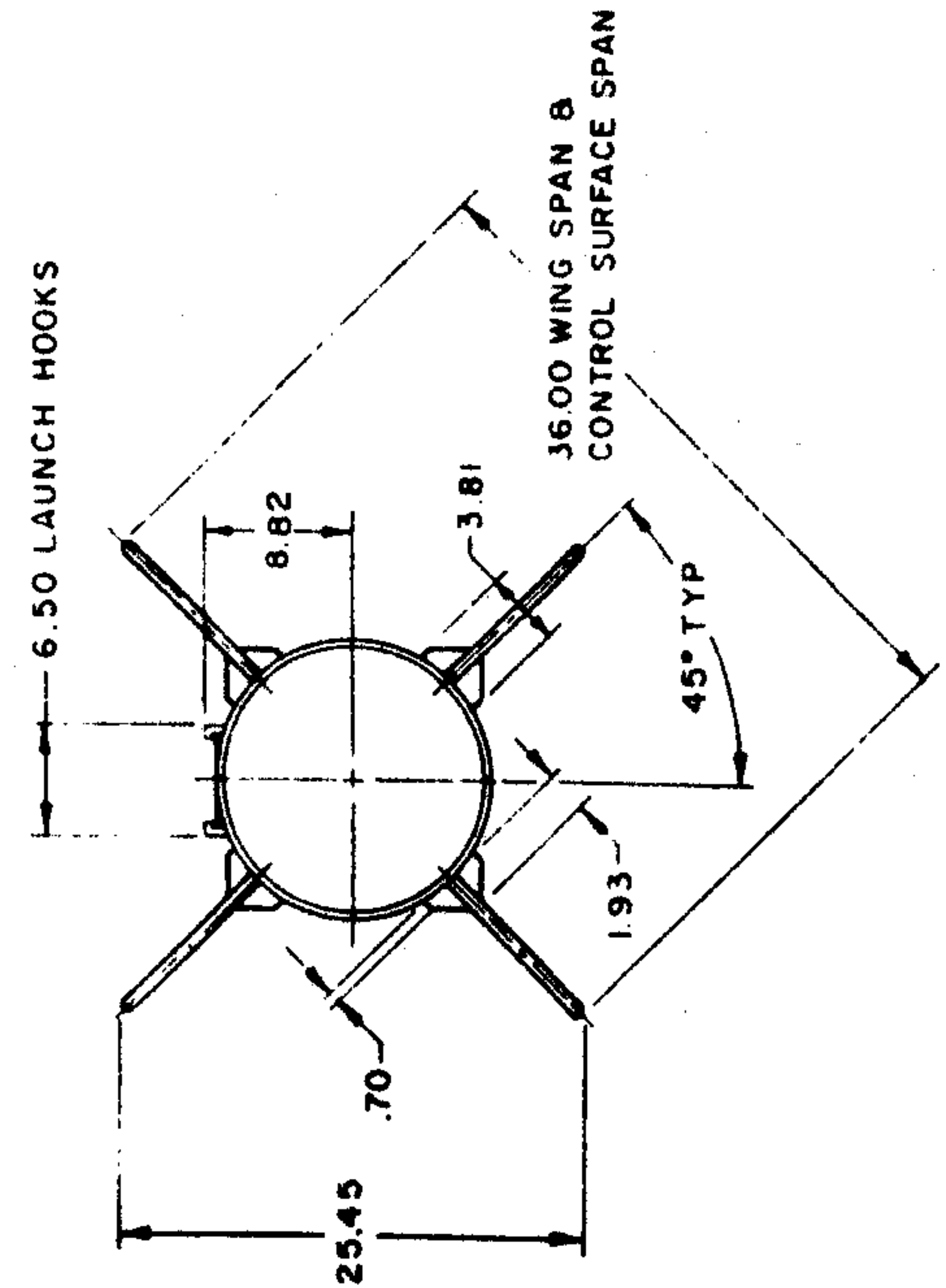


NOTE:

I. APPROXIMATE WEIGHTS

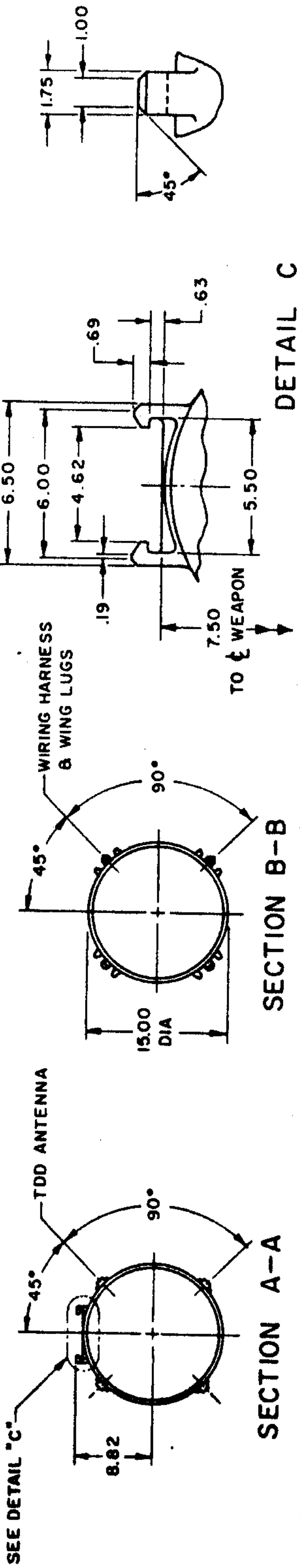
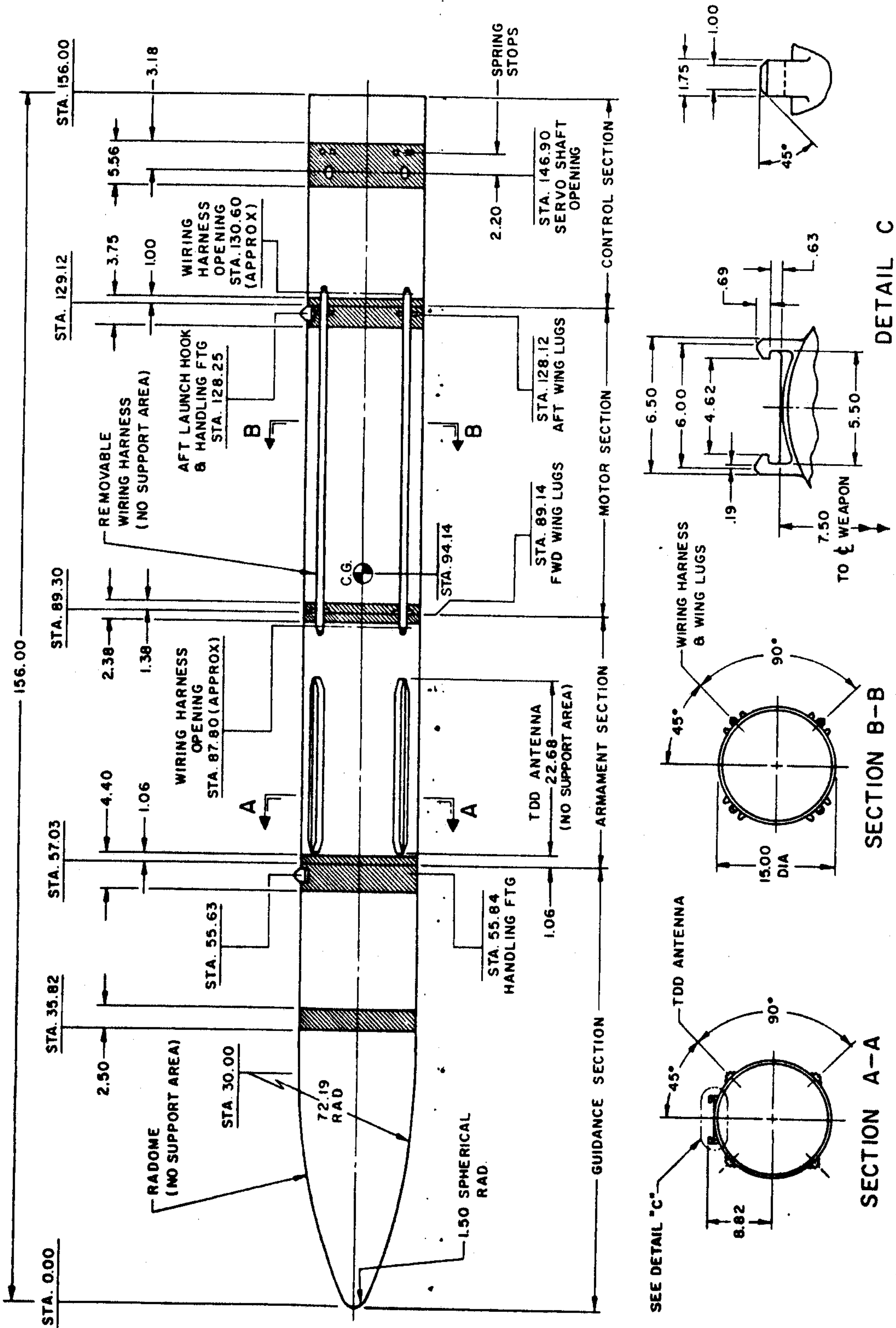
LAUNCH	1010.3	LBS
BURNOUT	639.8	LBS

ORIGINAL DATA SOURCE
 HUGHES AIRCRAFT CO.
 REPORT NO. PMS 26-4/2173
 DATED 18 FEBRUARY 1966




VIEW A-A

PHOENIX HARD SPOT LOCATIONS

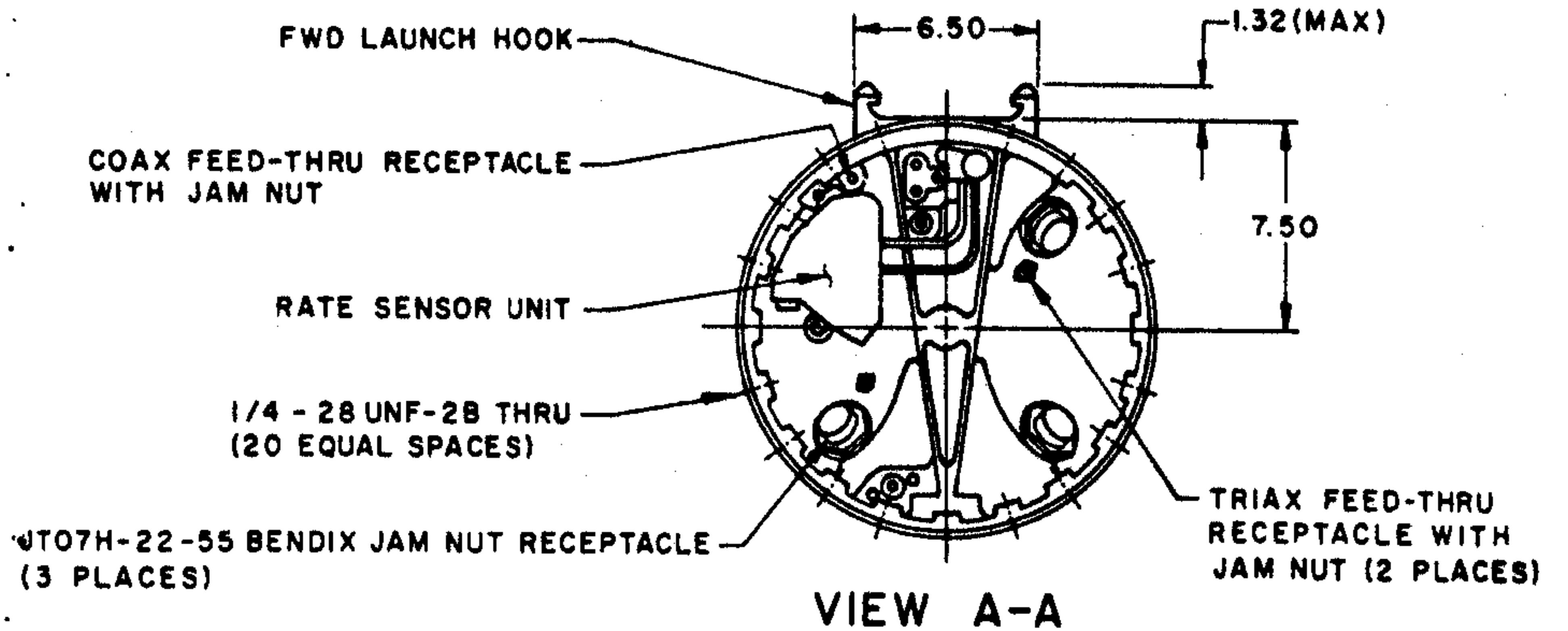
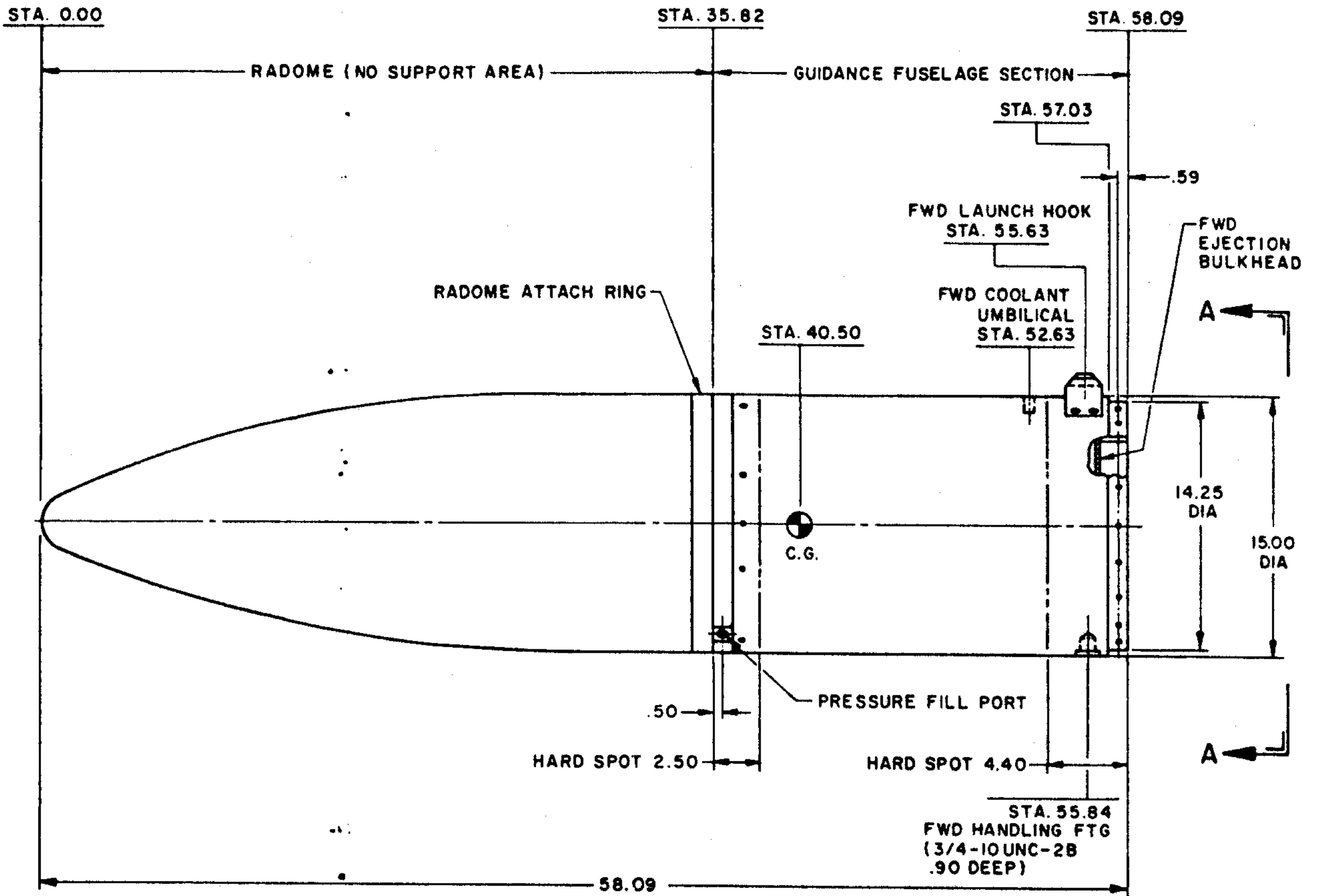


NOTES:

1. APPROXIMATE WEIGHT - 927.0 LBS
2. FOR DETAILS OF TDD ANTENNA, WIRING HARNESS, WING LUGS & SPRING STOPS. (SEE APPROPRIATE MISSILE FUSELAGE SECTION DRAWING.)
3. SYMBOL  DENOTES HARD SPOT AREA.

ORIGINAL DATA SOURCE
 HUGHES AIRCRAFT CO.
 REPORT NO. PMS 26-4/2173
 DATED 18 FEBRUARY 1966

PHOENIX GUIDANCE SECTION



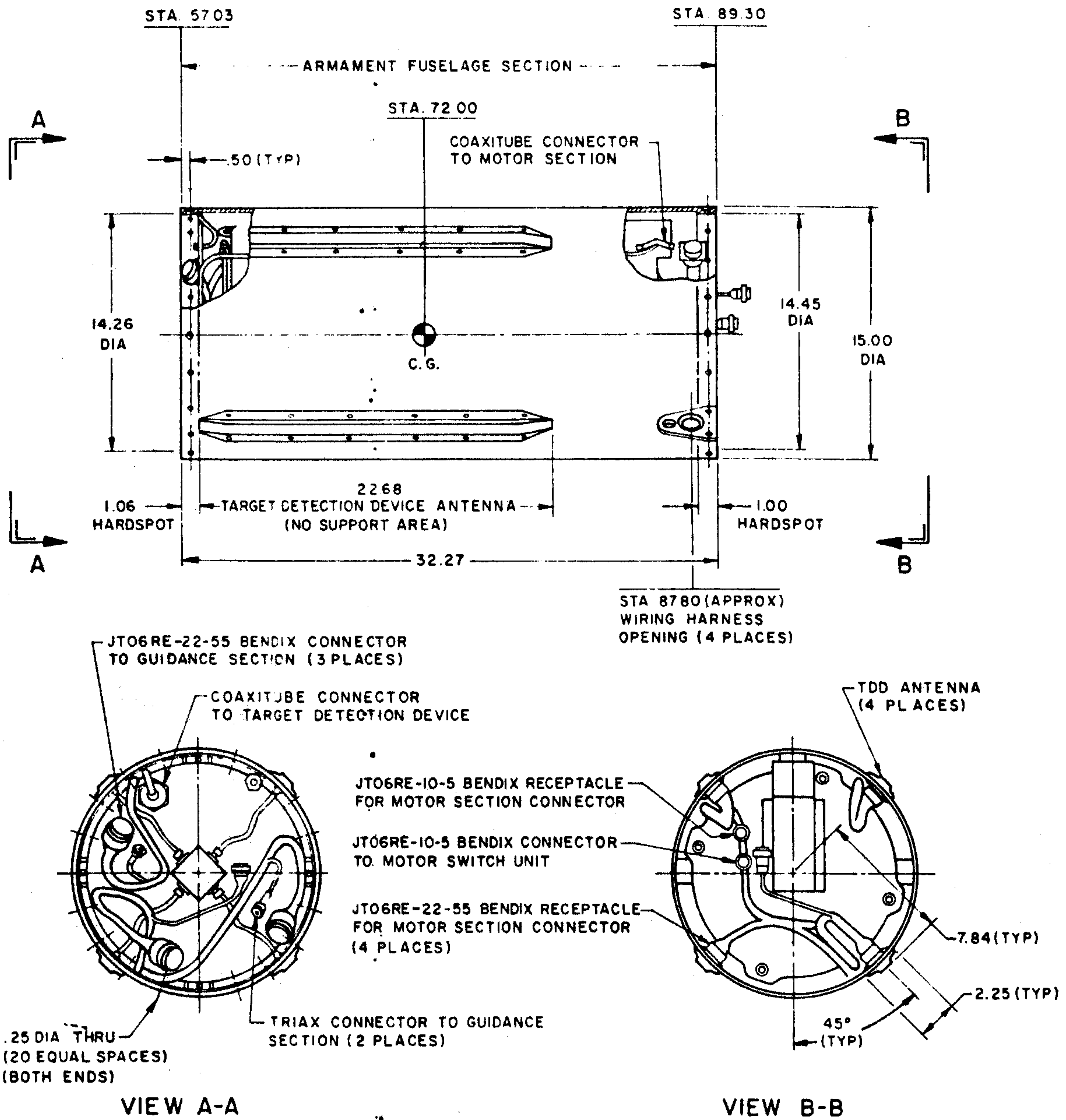
NOTES:

1. RADOME AND FUSELAGE SECTIONS ARE SEALED AND PRESSURIZED WITH DRY NITROGEN.
2. APPROXIMATE WEIGHT - 165.0 LBS

ORIGINAL DATA SOURCE

HUGHES AIRCRAFT CO.
REPORT NO. PMS 26-5/2173
DATED 6 JANUARY 1967

PHOENIX ARMAMENT SECTION



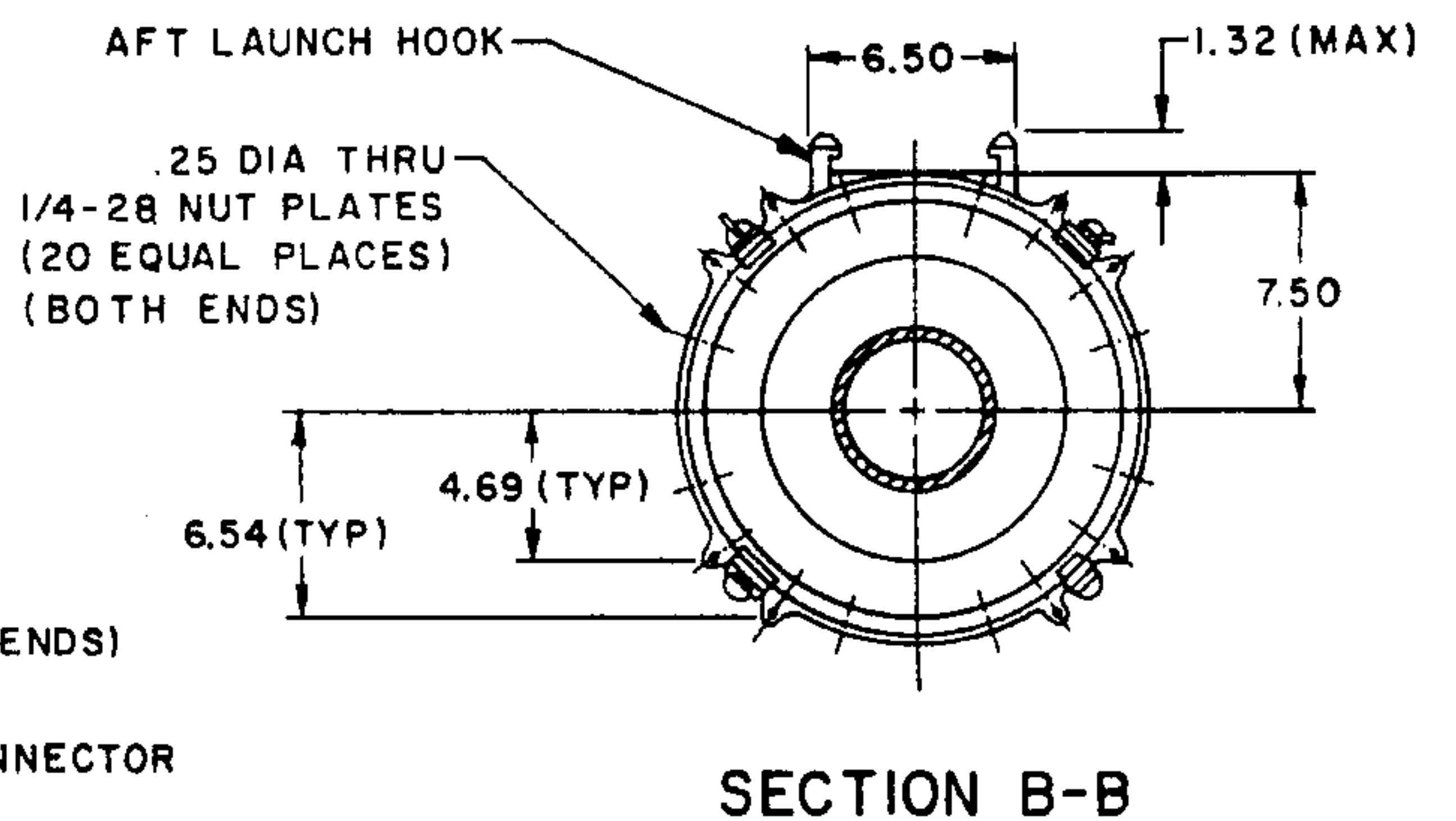
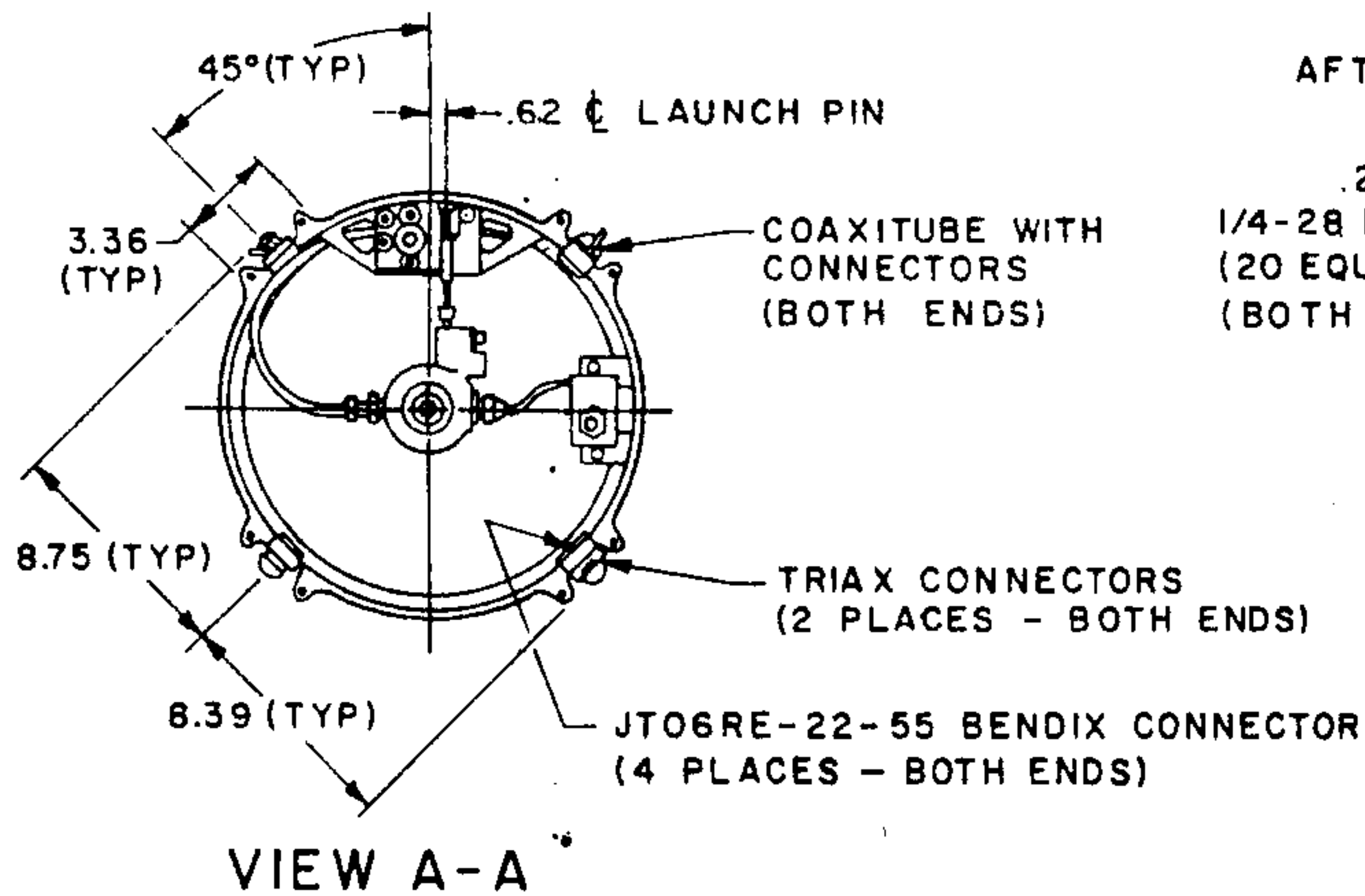
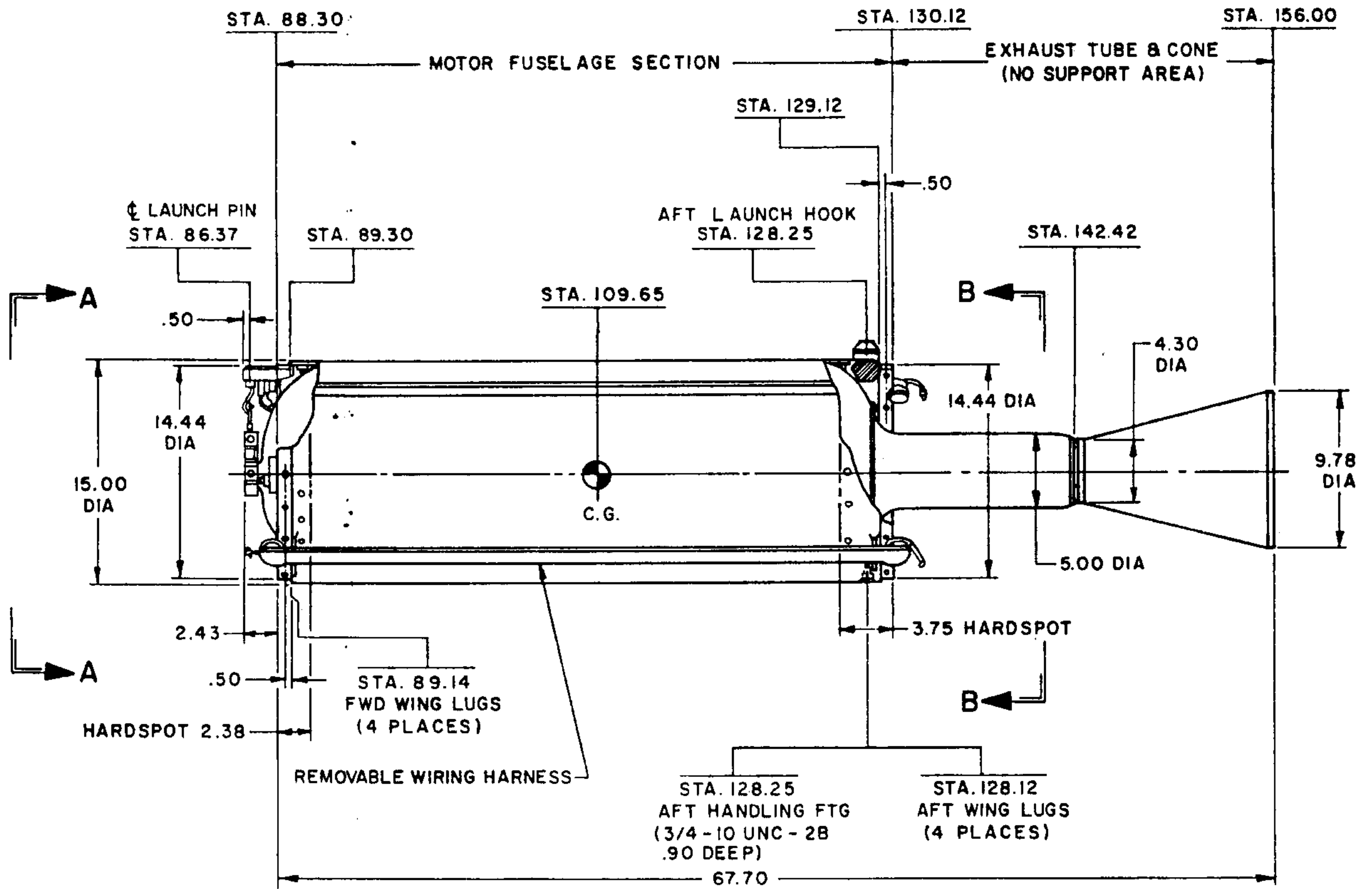
NOTE:

1. APPROXIMATE WEIGHT - 180.0 LBS

ORIGINAL DATA SOURCE

HUGHES AIRCRAFT CO.
 REPORT NO. PMS 26-5/2173
 DATED 6 JANUARY 1967

PHOENIX MOTOR SECTION



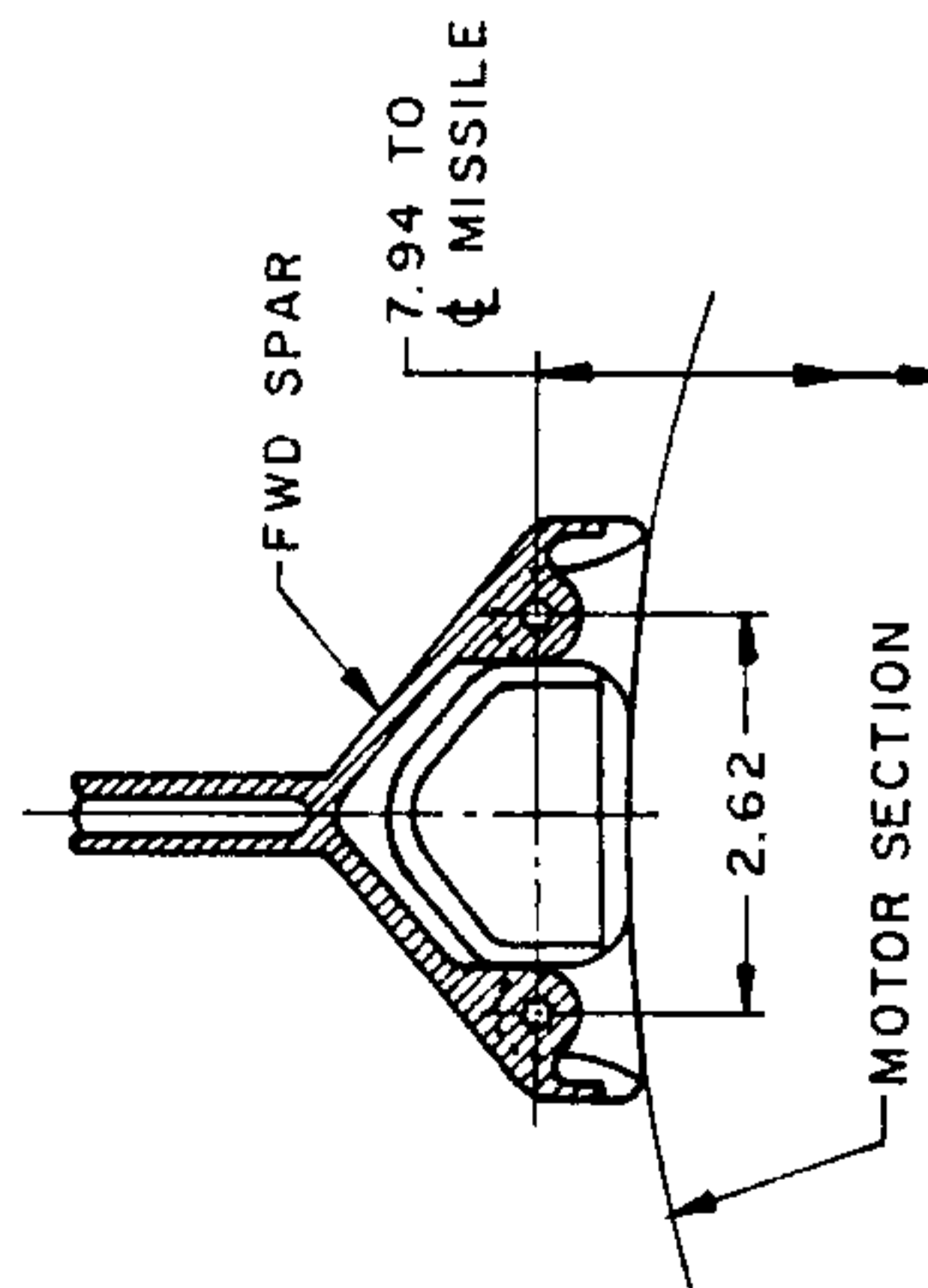
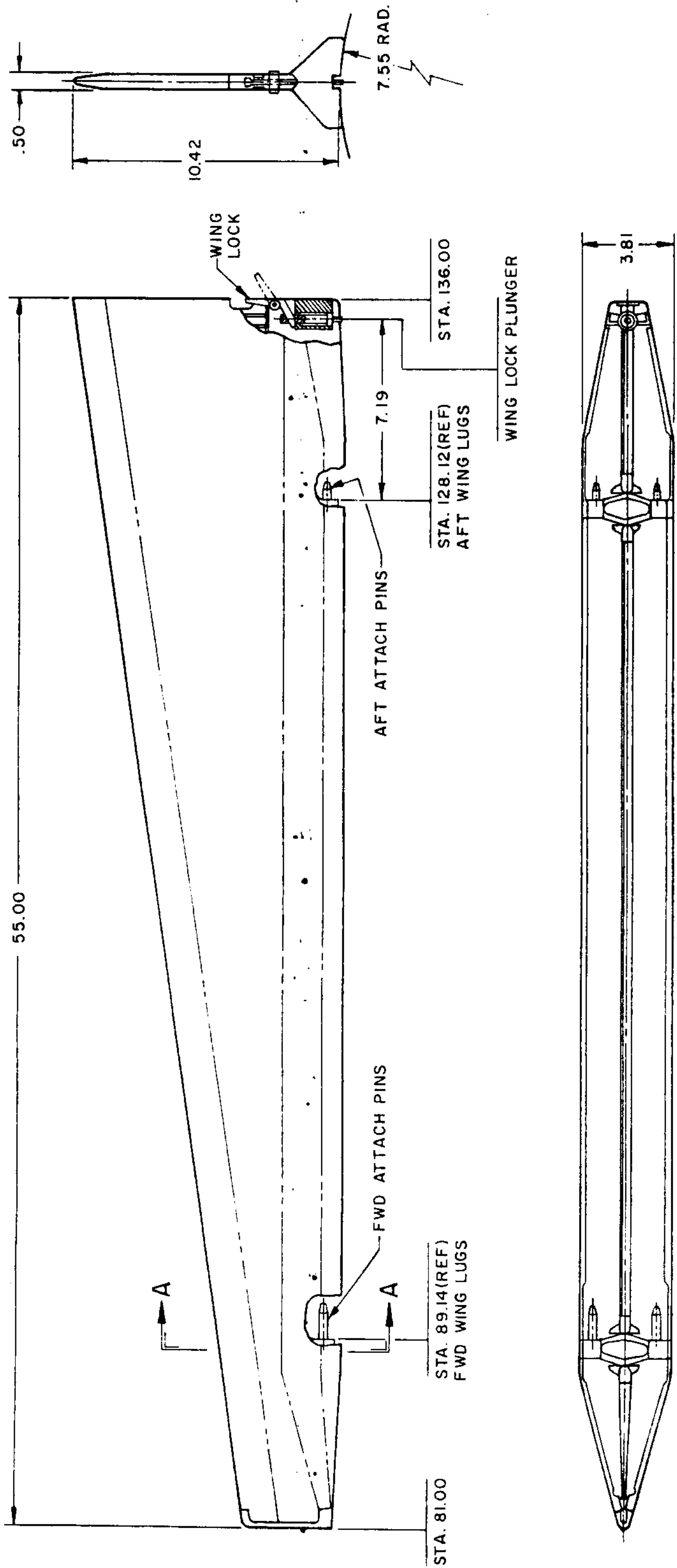
NOTE:

1. APPROXIMATE WEIGHT - 465.2 LBS

ORIGINAL DATA SOURCE

HUGHES AIRCRAFT CO.
 REPORT NO. PMS 26-5/2173
 DATED 6 JANUARY 1967

PHOENIX WING



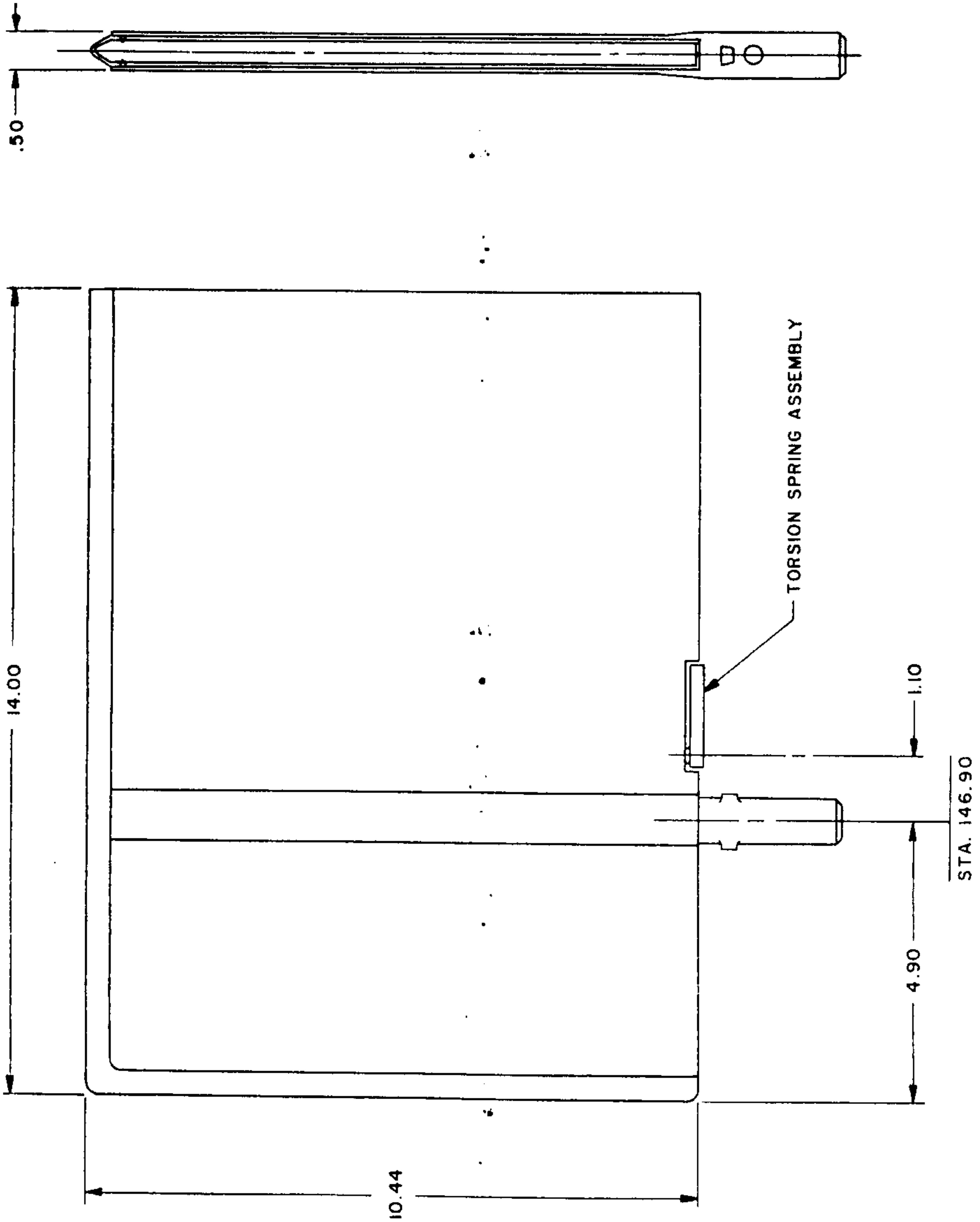
NOTES:

1. APPROXIMATE WEIGHT - 32.4 LBS PER SET
2. FOUR WINGS REQUIRED PER MISSILE.

ORIGINAL DATA SOURCE
 HUGHES AIRCRAFT CO.
 REPORT NO. PMS 77-7/2178
 DATED JANUARY 1967

ENLARGED SECTION A-A

PHOENIX CONTROL SURFACE



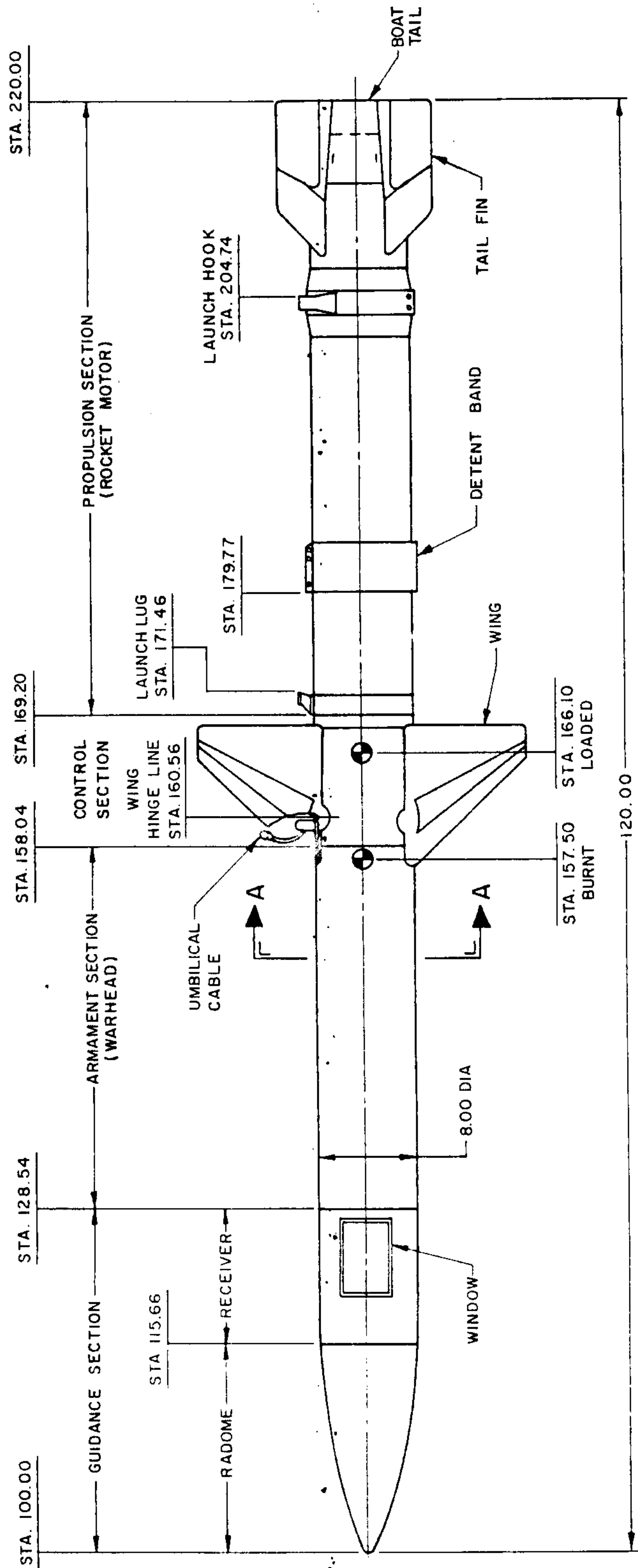
ORIGINAL DATA SOURCE

HUGHES AIRCRAFT CO.
REPORT NO. PMS 77-7/2178
DATED JANUARY 1967

NOTES:

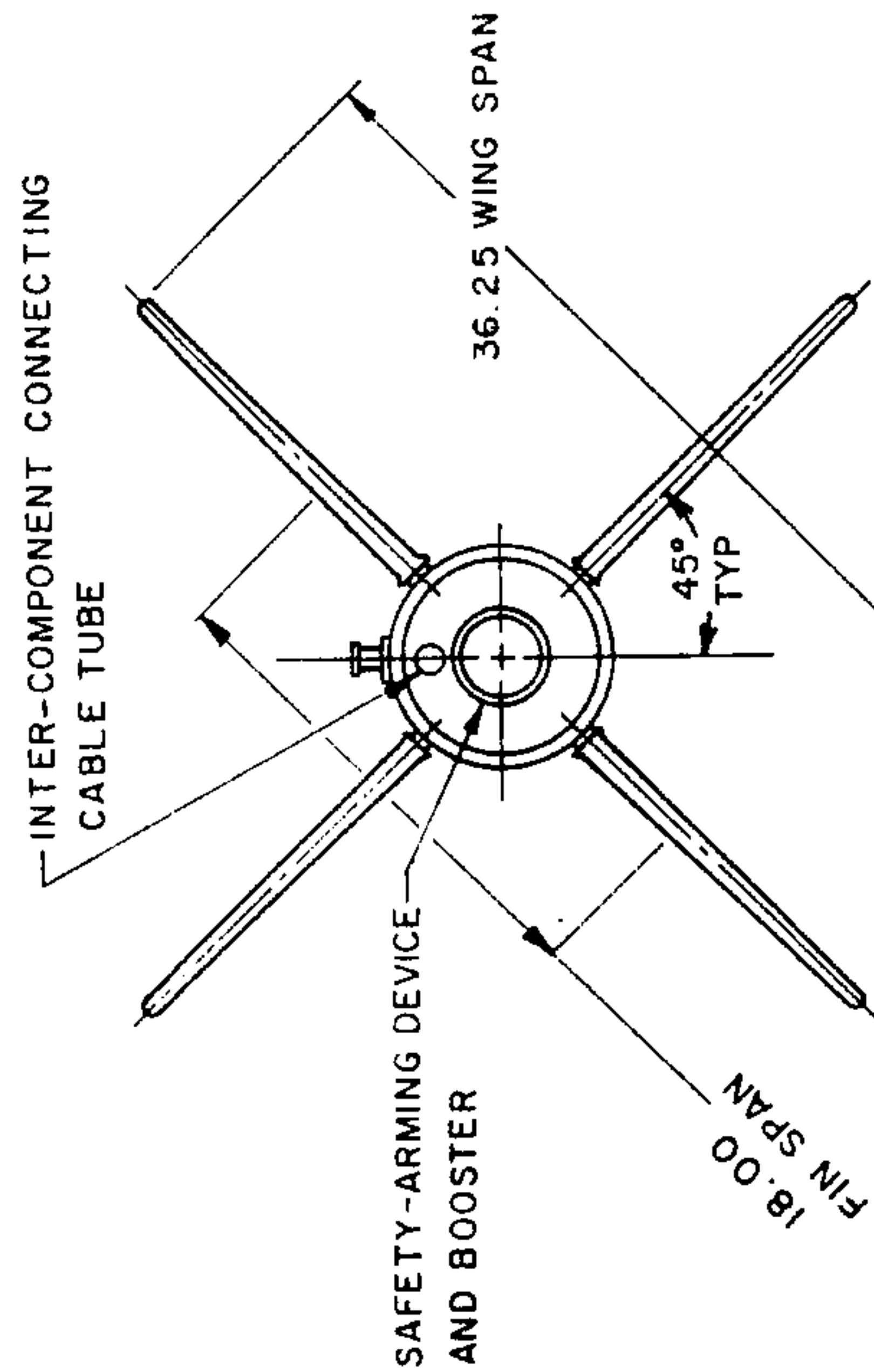
1. APPROXIMATE WEIGHT - 14.9 LBS PER SET
2. FOUR CONTROL SURFACES REQUIRED PER MISSILE.

SHRIKE AGM-45A GENERAL ARRANGEMENT



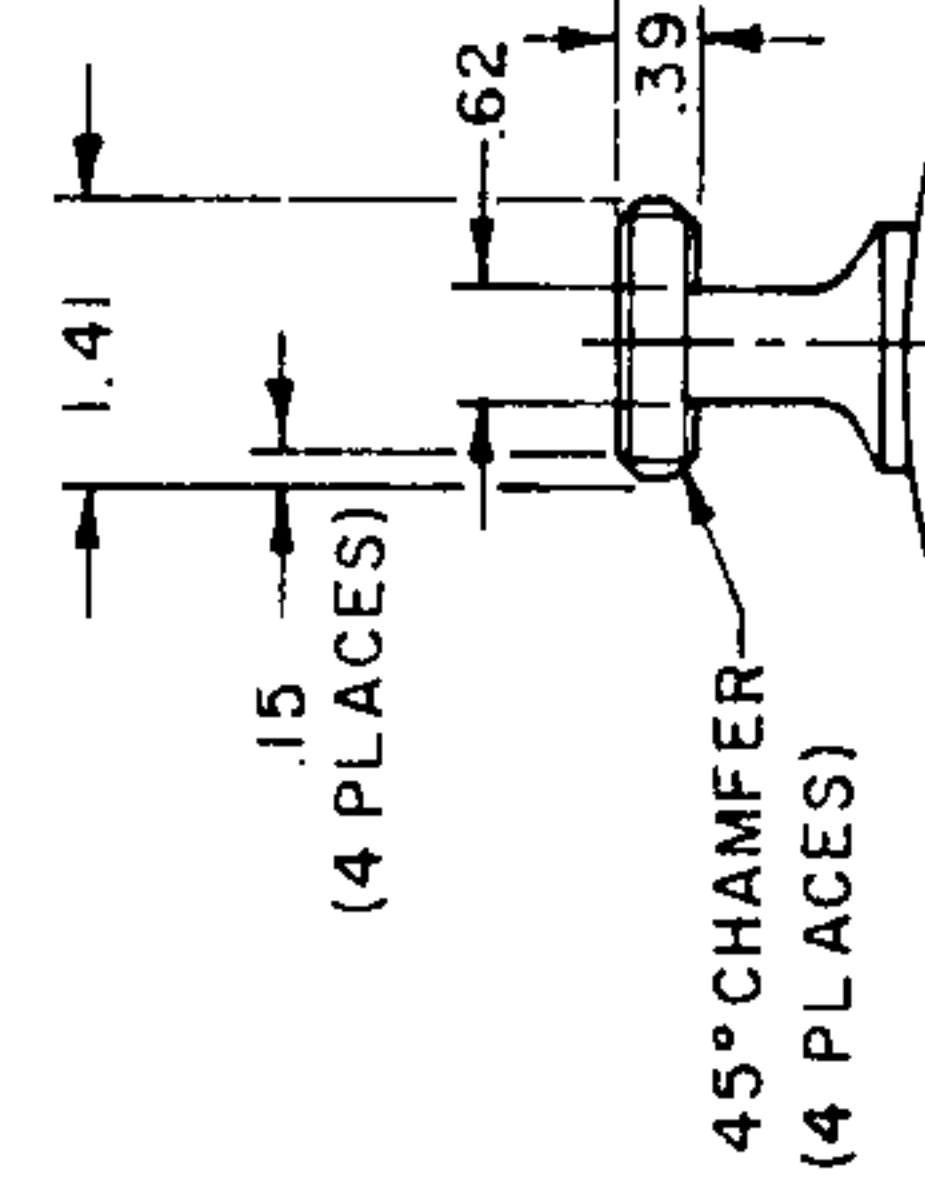
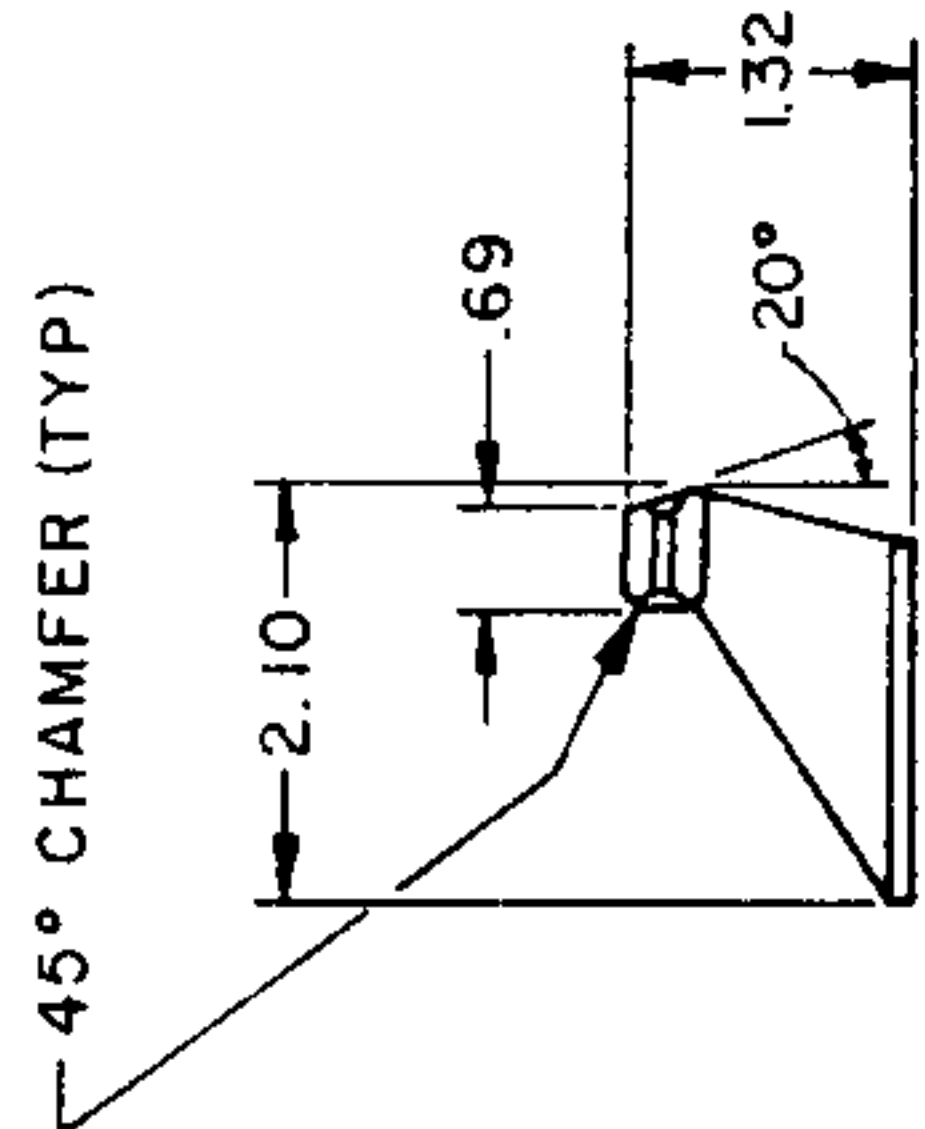
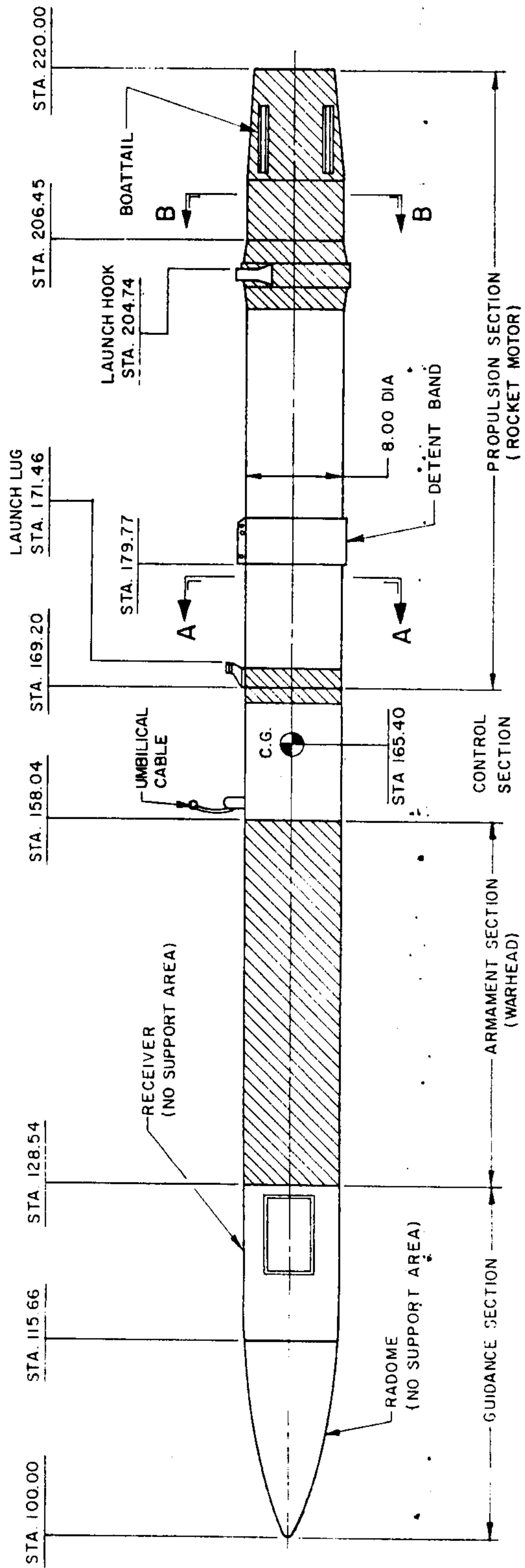
NOTES:

- MISSILE LAUNCHED FROM TYPE AERO 5A-1 OR LAU-34 LAUNCHERS.
- APPROXIMATE WEIGHT - 402.5 LBS. (MAX)

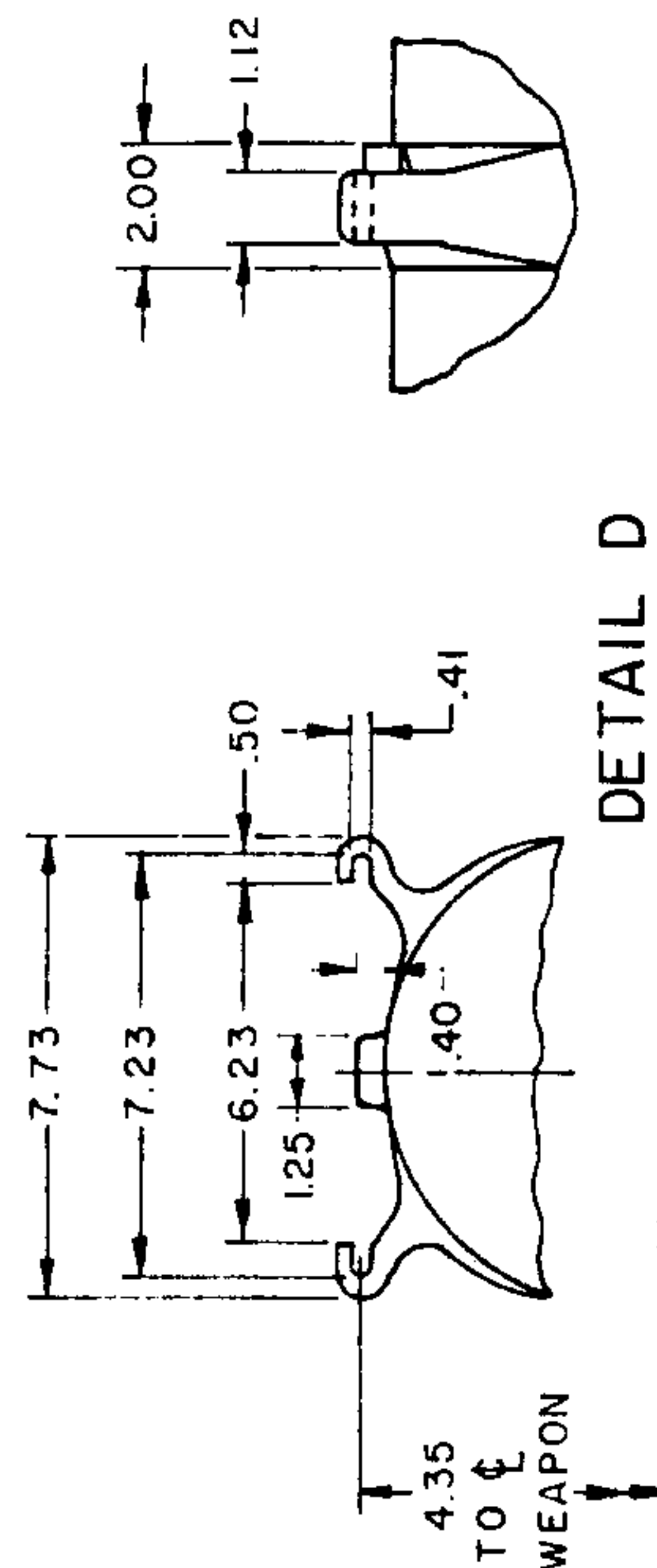


ORIGINAL DATA SOURCE
 BUWEPS DWG NO. 1570001
 DATED 28 JUNE 1964
 NAVWEPS OI-80MGA-2
 DATED 1 DECEMBER 1966

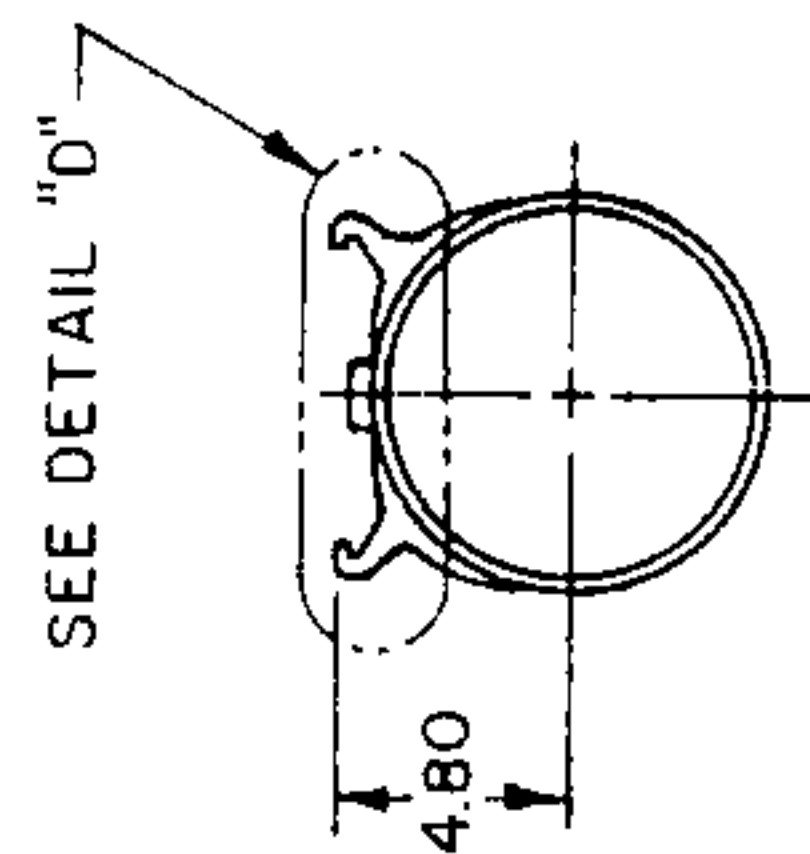
SHRIKE AGM-45A HARD SPOT LOCATIONS



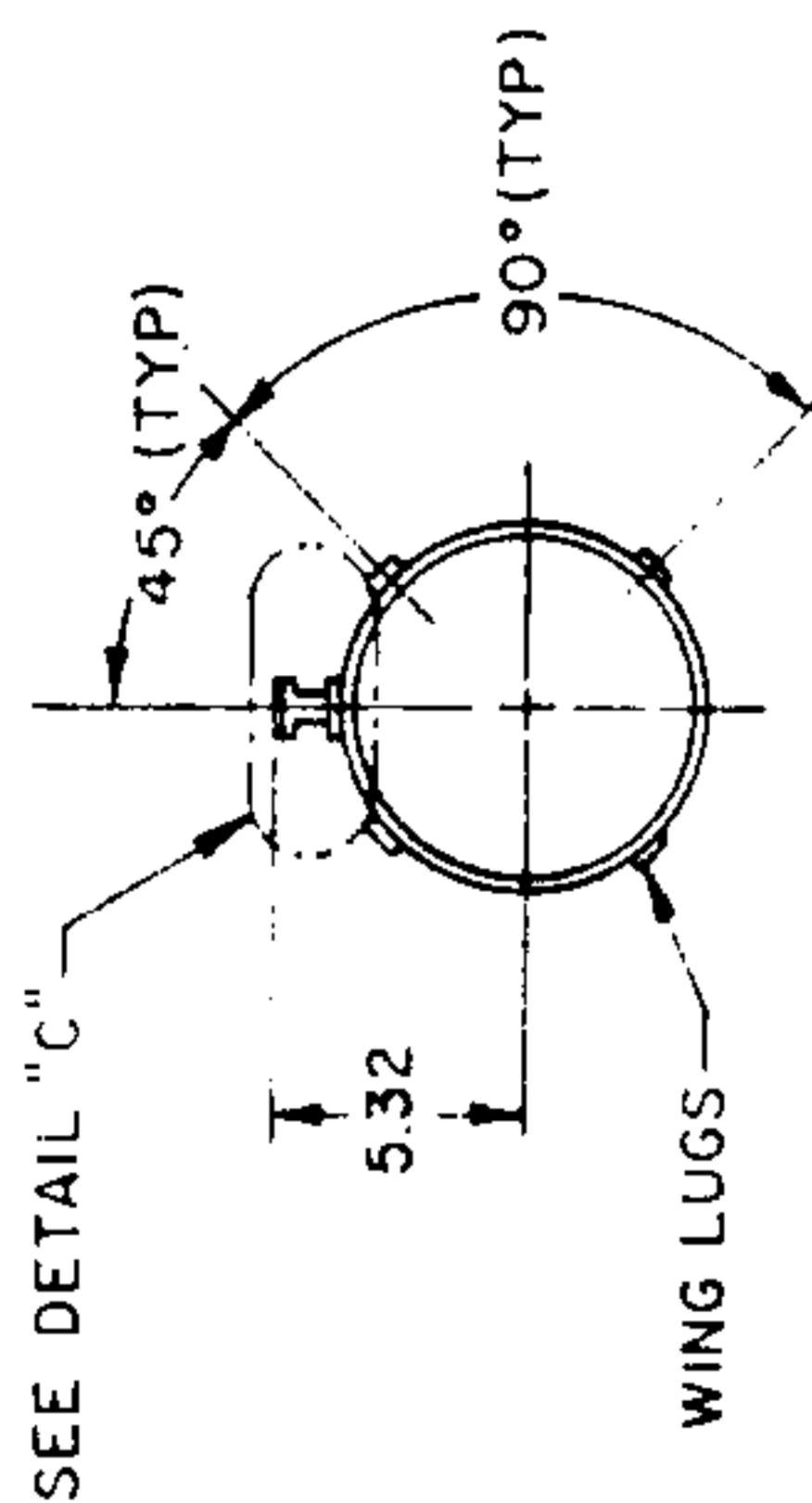
DETAIL C
LAUNCH LUG



DETAIL D
LAUNCH HOOK



SECTION B-B



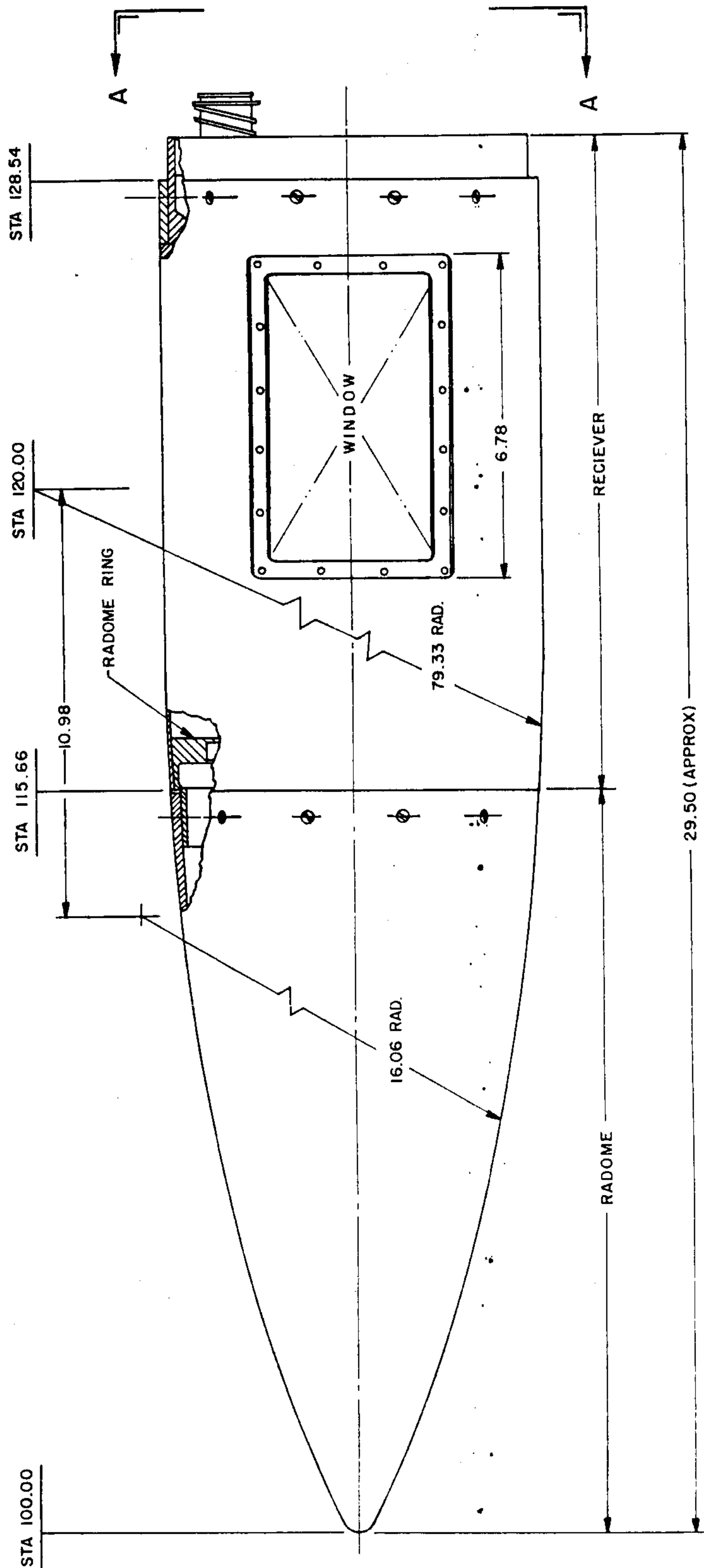
SECTION A-A

NOTES:

1. HARD SPOT LOCATIONS SHOWN ARE FOR AN ASSEMBLED SHRIKE AGM-45A-1, -1A, -2, -3 AND -4, LESS WINGS AND FINS.
2. ZZZZZZZ DENOTES HARD SPOT
3. APPROXIMATE WEIGHT - 383.2 LBS. (MAX) (LESS WINGS & FINS)

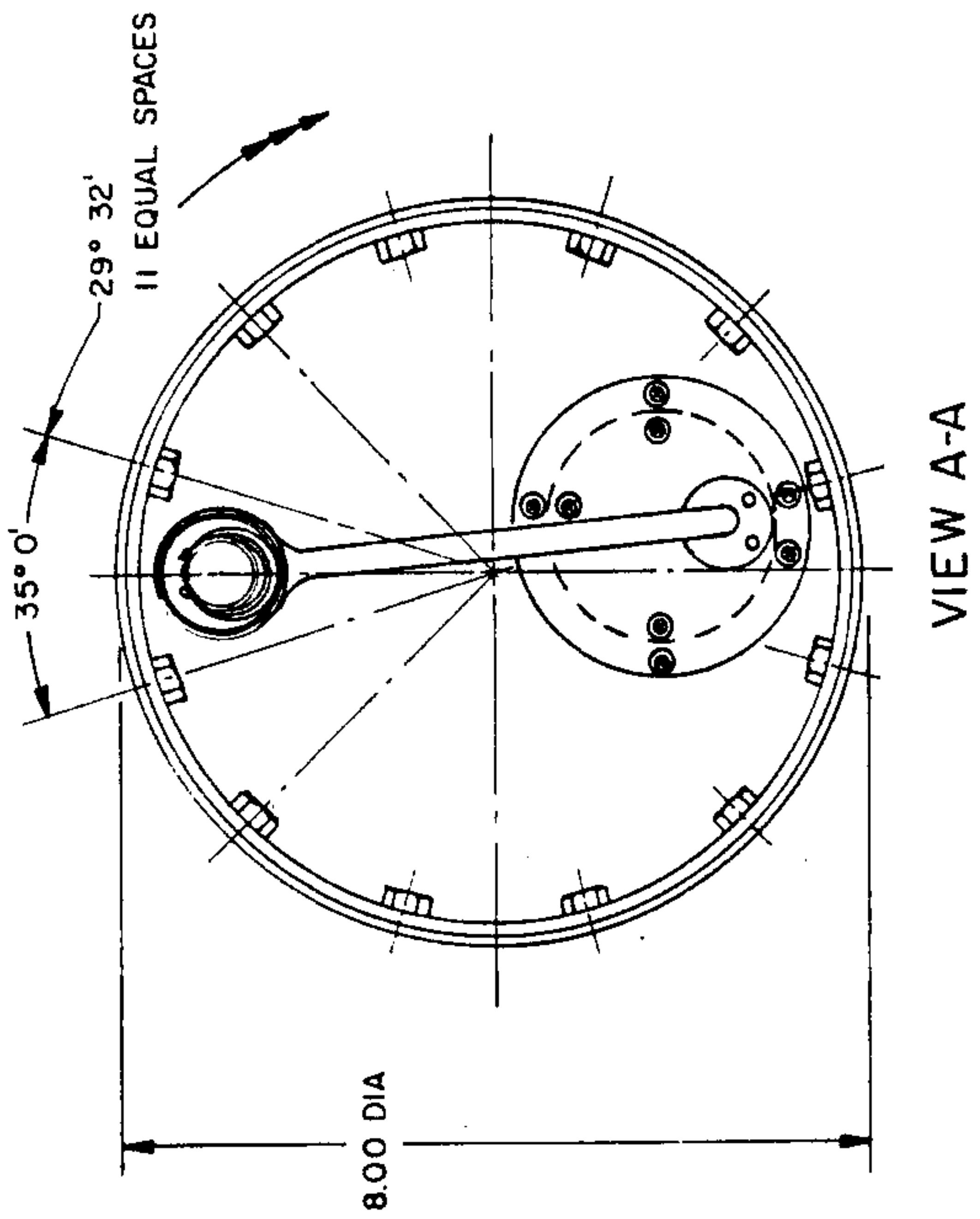
GUIDANCE SECTION MK 21 MODS

SHRIKE AGM-45A-1, 1A



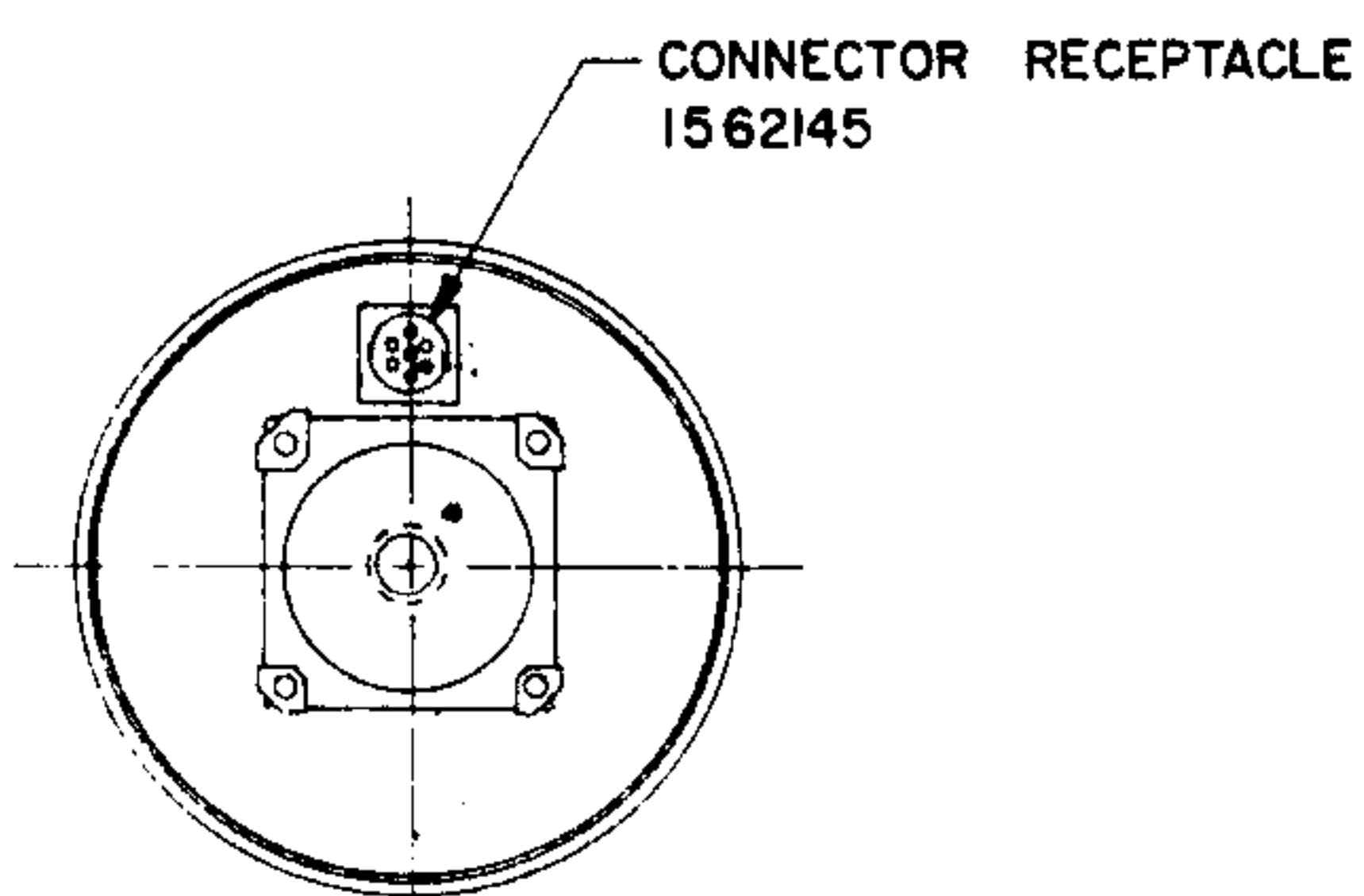
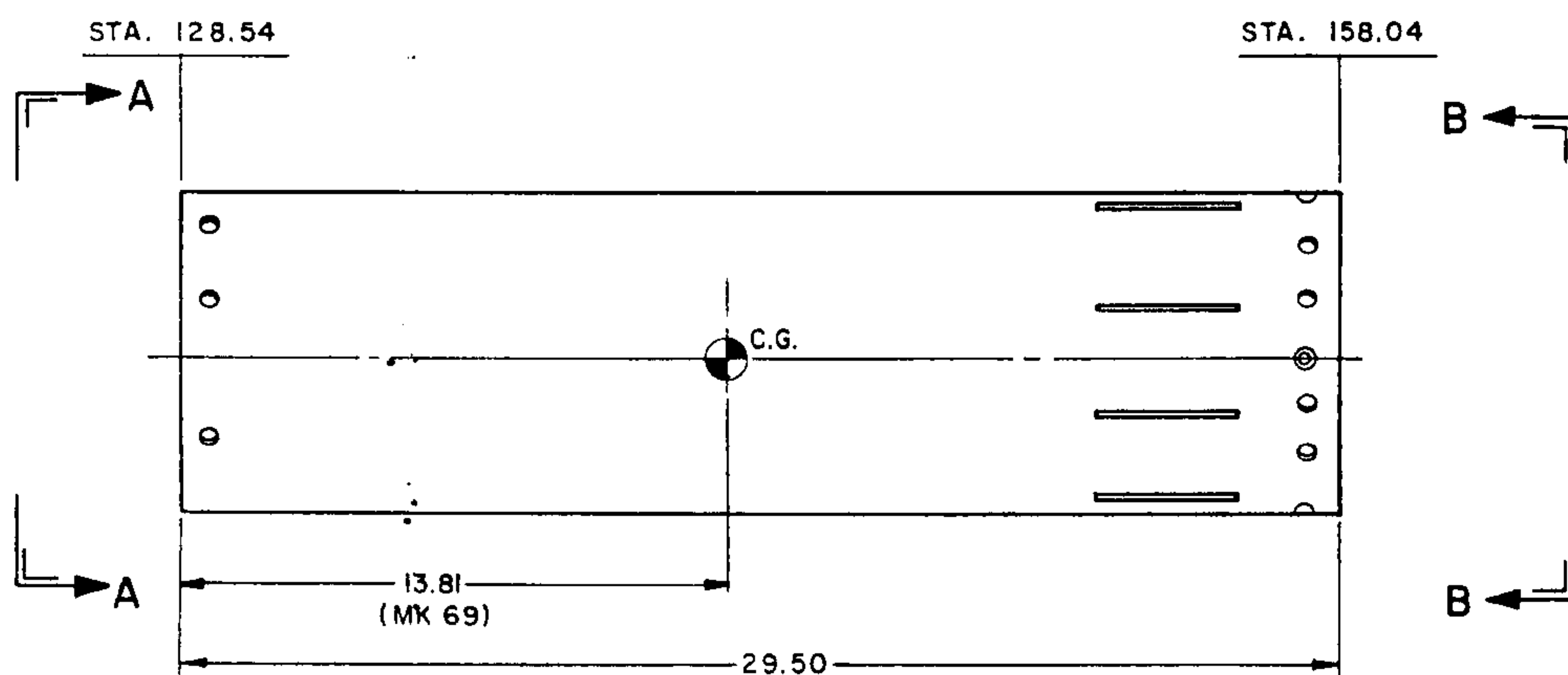
APPROXIMATE WEIGHT - 34.8 LBS

ORIGINAL DATA SOURCE
BUWEPS DWG NO. 1570152
DATED 27 JUNE 1964
BUWEPS DWG NO. 1570188
DATED 28 JULY 1964
NAVWEPS OI-80MGA-2
DATED 1 DECEMBER 1966

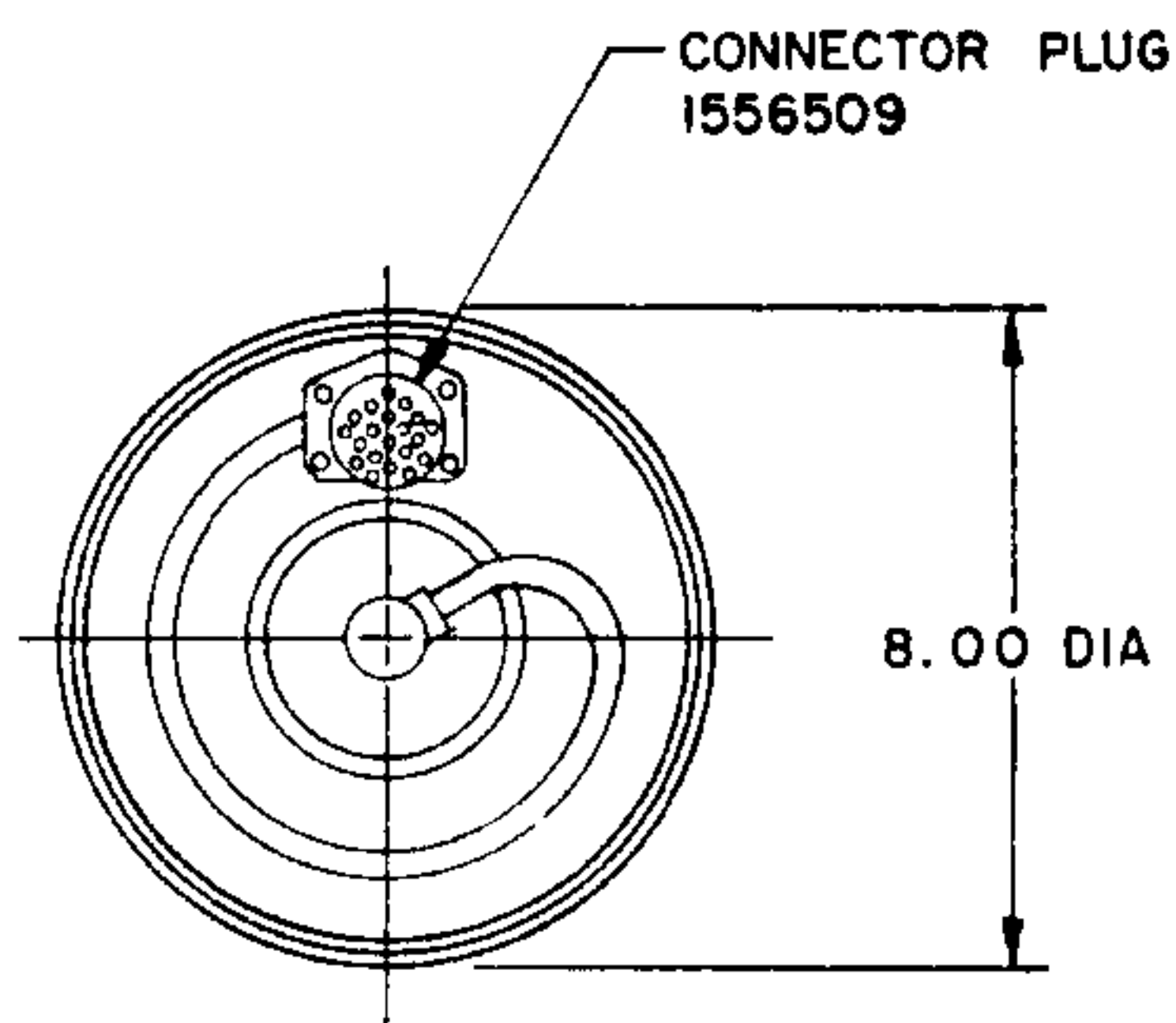


ARMAMENT SECTIONS MK 52, 68 & 69 MOD 0

SHRIKE AGM-45A



VIEW A-A



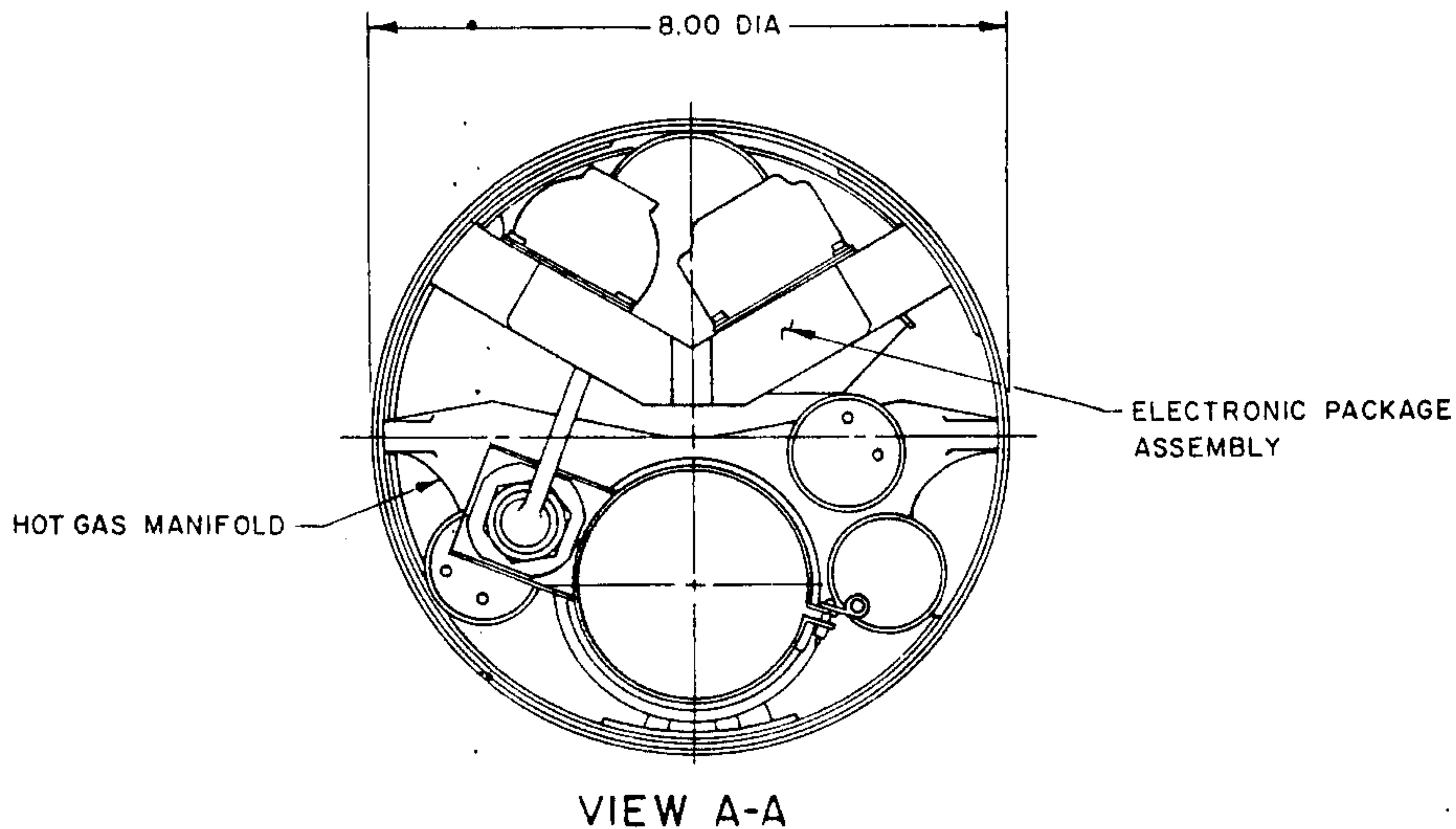
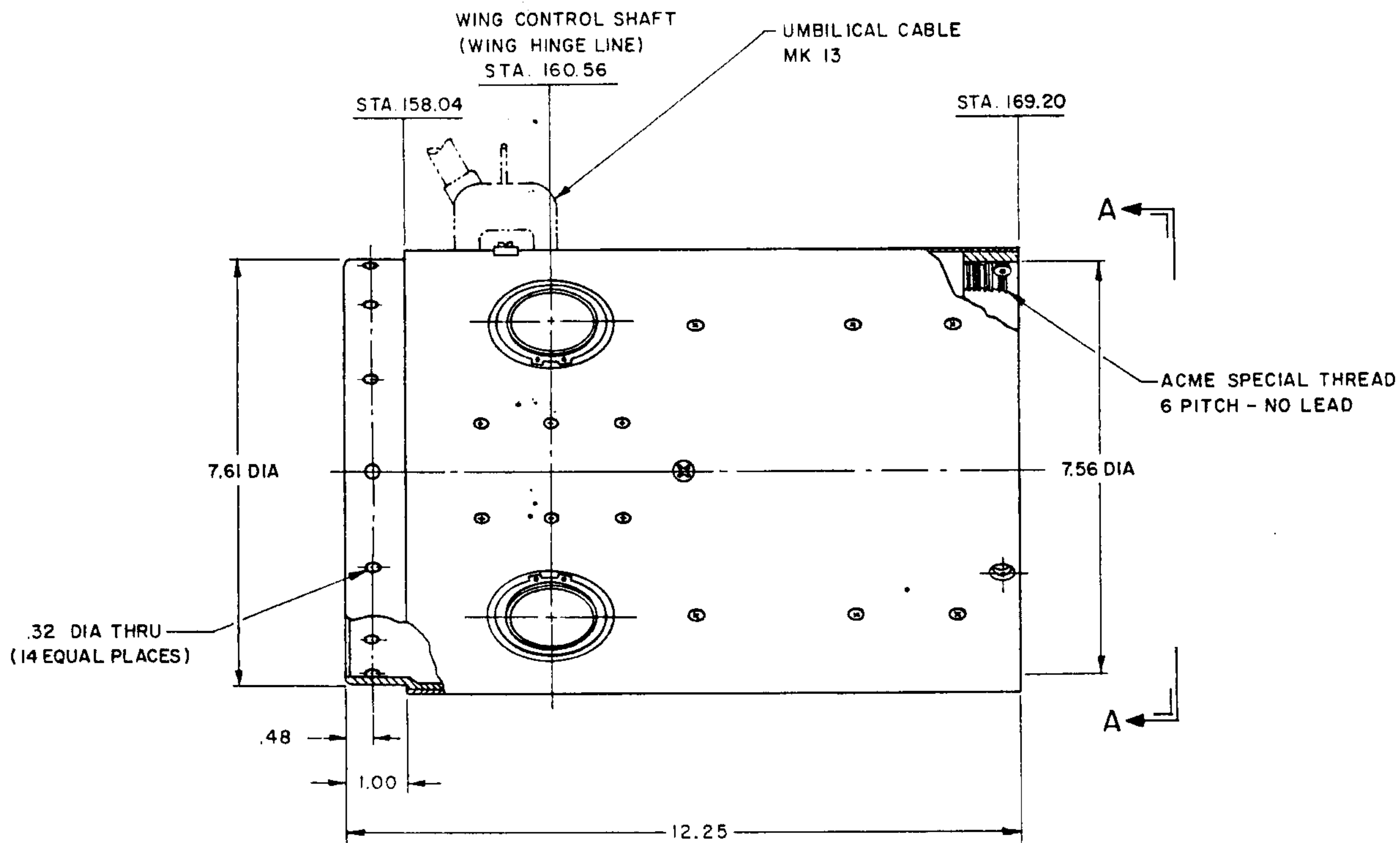
VIEW B-B

APPROXIMATE WEIGHT - 145.0 LBS

ORIGINAL DATA SOURCE
NAVORD DWG NO. 2581065 REV A
DATED 23 MARCH 1967
BUWEPS DWG. NO 1568640 REV E
DATED 25 MAY 1966
NAVWEPS OI-80MGA-2
DATED 1 DECEMBER 1966

CONTROL SECTION MK I MOD 2

SHRIKE AGM-45A

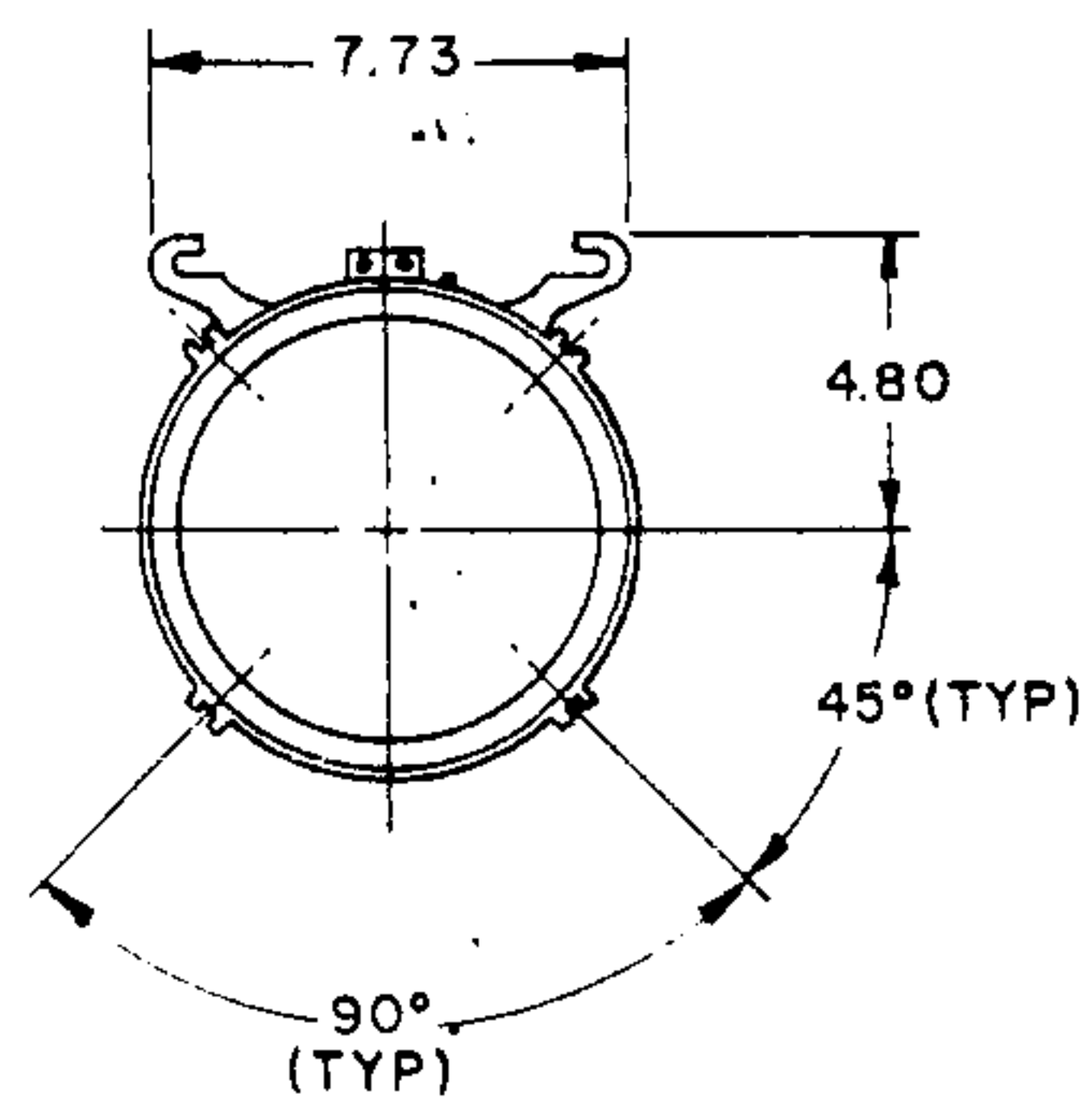
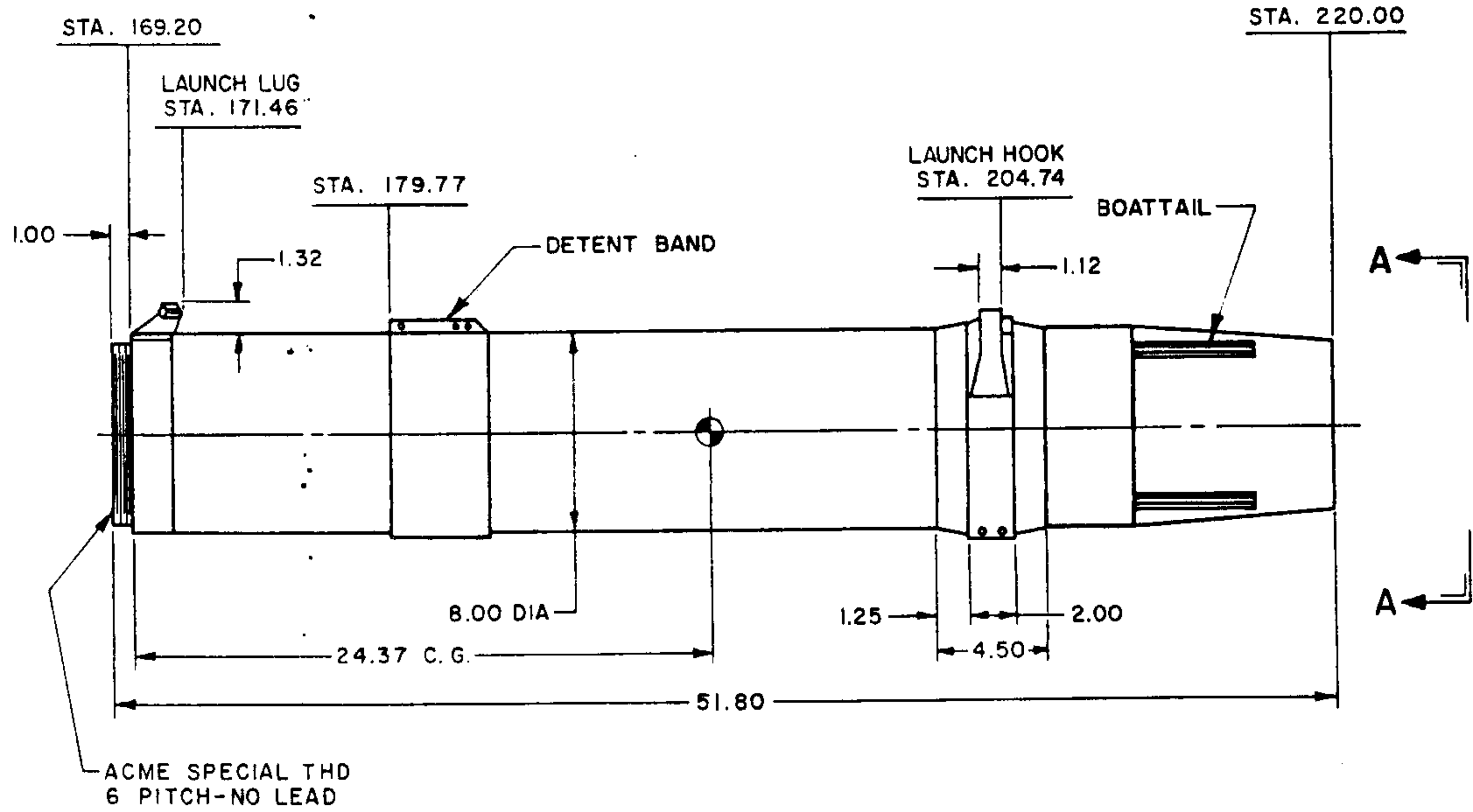


APPROXIMATE WEIGHT - 33.8 LBS.

ORIGINAL DATA SOURCE
BUWEPS DWG NO. 1570087 REV G
DATED 19 AUGUST 1965
NAVWEPS 01-80MGA-2
DATED 1 DECEMBER 1966

PROPULSION SECTION MK 39 MODS

SHRIKE AGM-45A



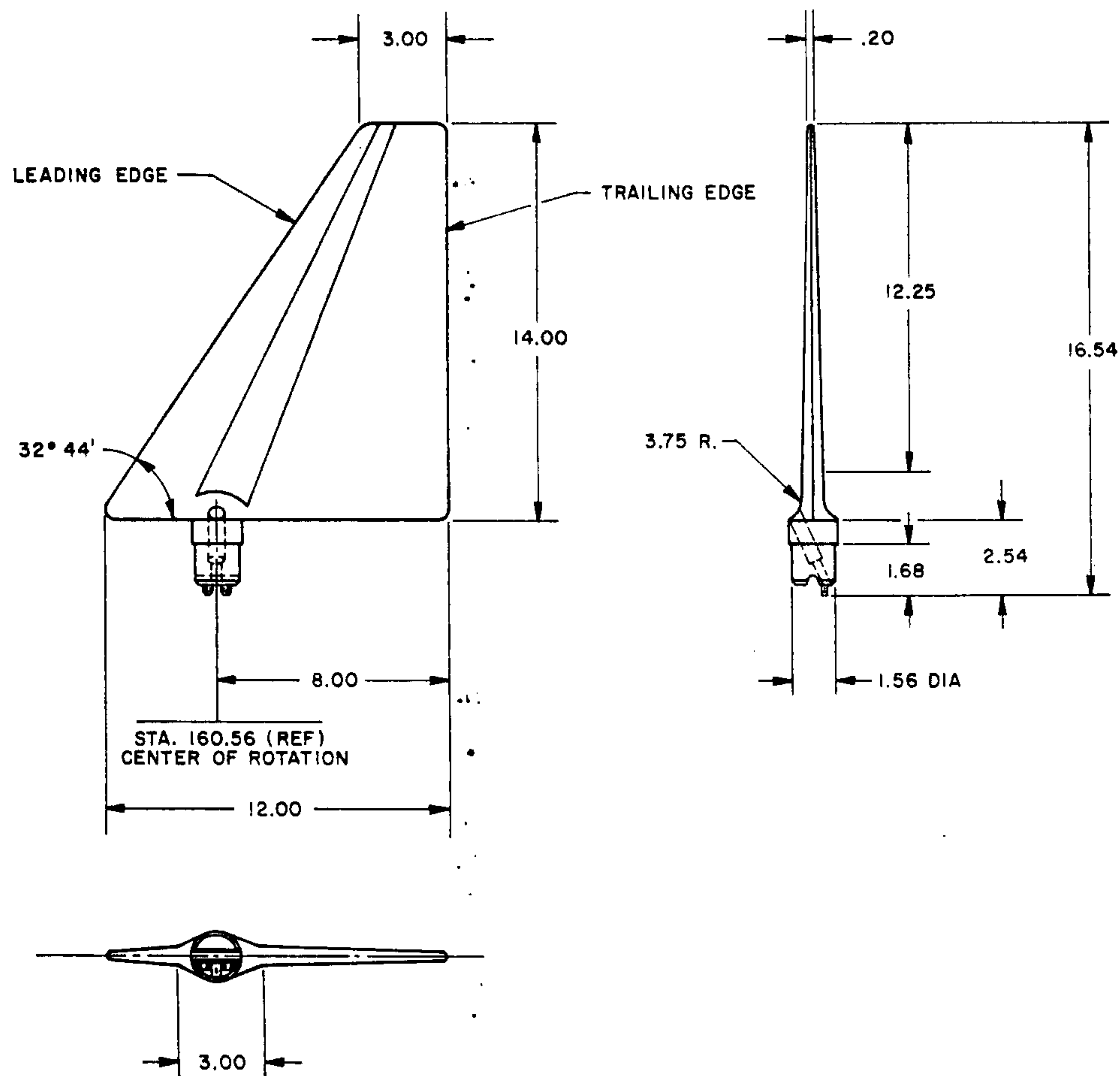
VIEW A-A

APPROXIMATE WEIGHT — 162.0 LBS.

ORIGINAL DATA SOURCE
ROCKETDYNE DWG. 802952
NAVWEP5 01-80MGA-2
DATED 1 DECEMBER 1966

WING ASSEMBLY MK 2 MOD 1

SHRIKE AGM - 45A



NOTES:

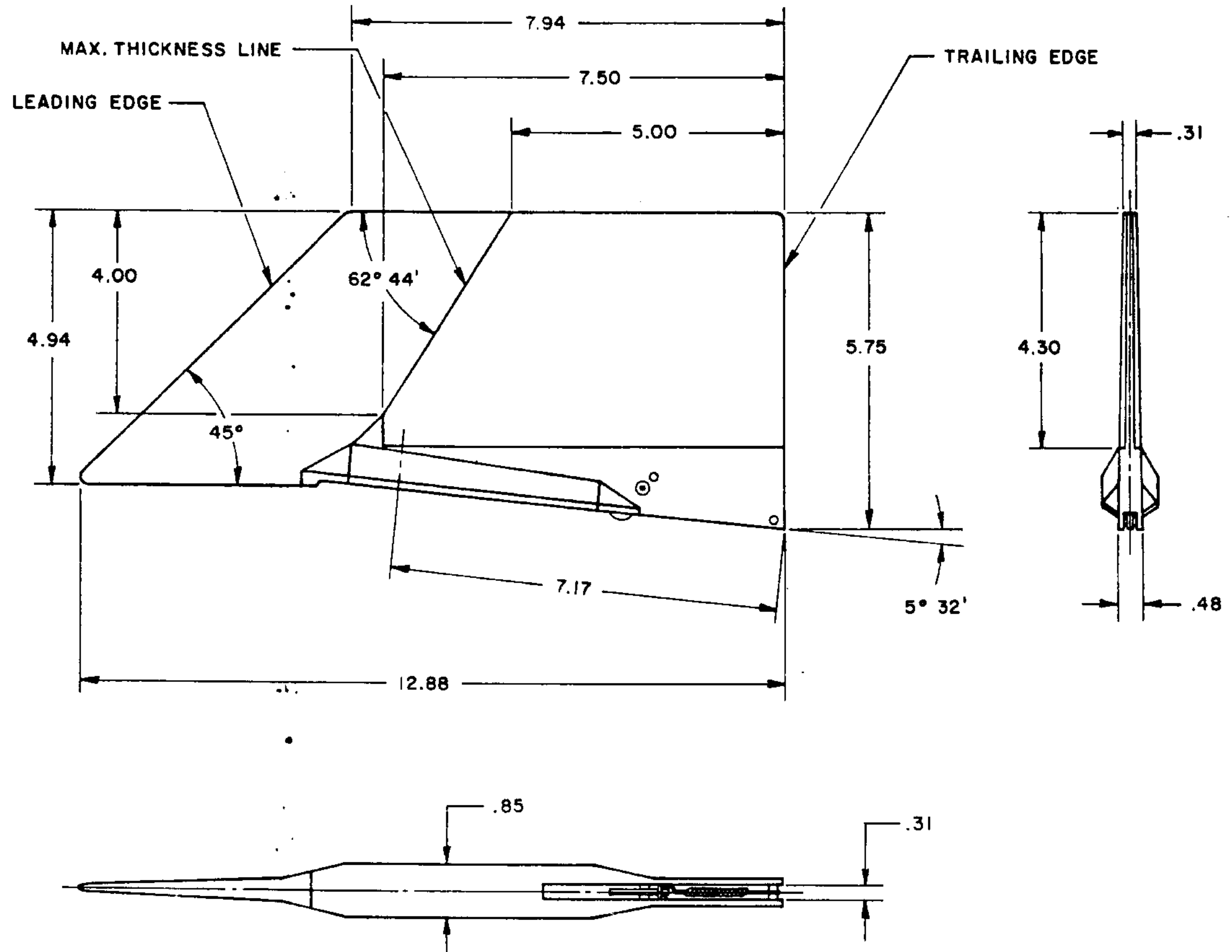
1. FOUR WINGS REQUIRED PER MISSILE.
2. APPROXIMATE WEIGHT - 3.4 LBS. EACH

ORIGINAL DATA SOURCE

BUWEPS DWG NO. 1570135 REV C
DATED 23 SEPTEMBER 1965

TAIL FIN ASSEMBLY MK 21 MOD 1

SHRIKE AGM - 45A



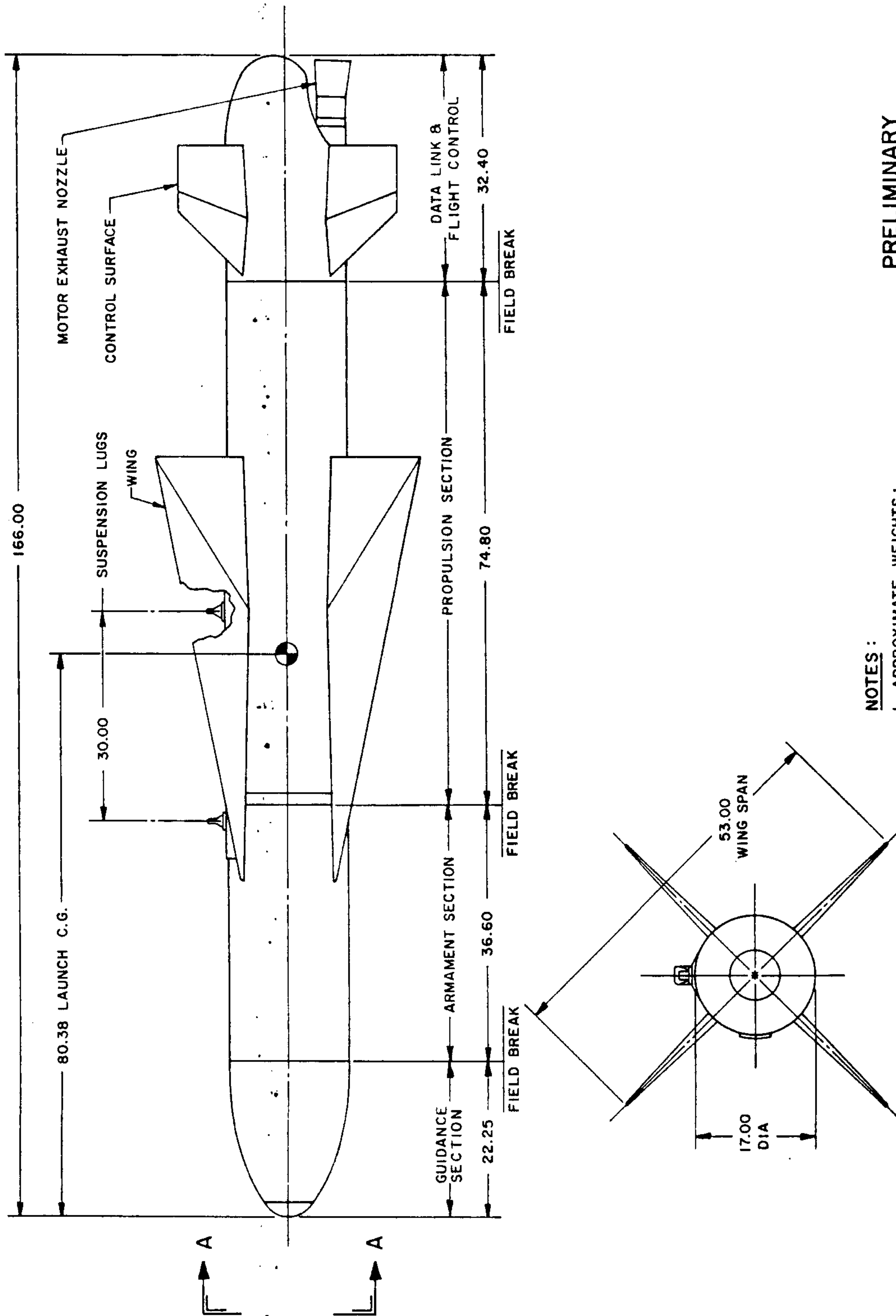
NOTES:

1. FOUR FINS REQUIRED PER MISSILE.
2. APPROXIMATE WEIGHT = 1.4 LBS. EACH

ORIGINAL DATA SOURCE

BUWPS DWG NO. 1570140 REV A
DATED 15 APRIL 1965
BUWPS DWG NO. 1570141 REV D
DATED 10 NOVEMBER 1965

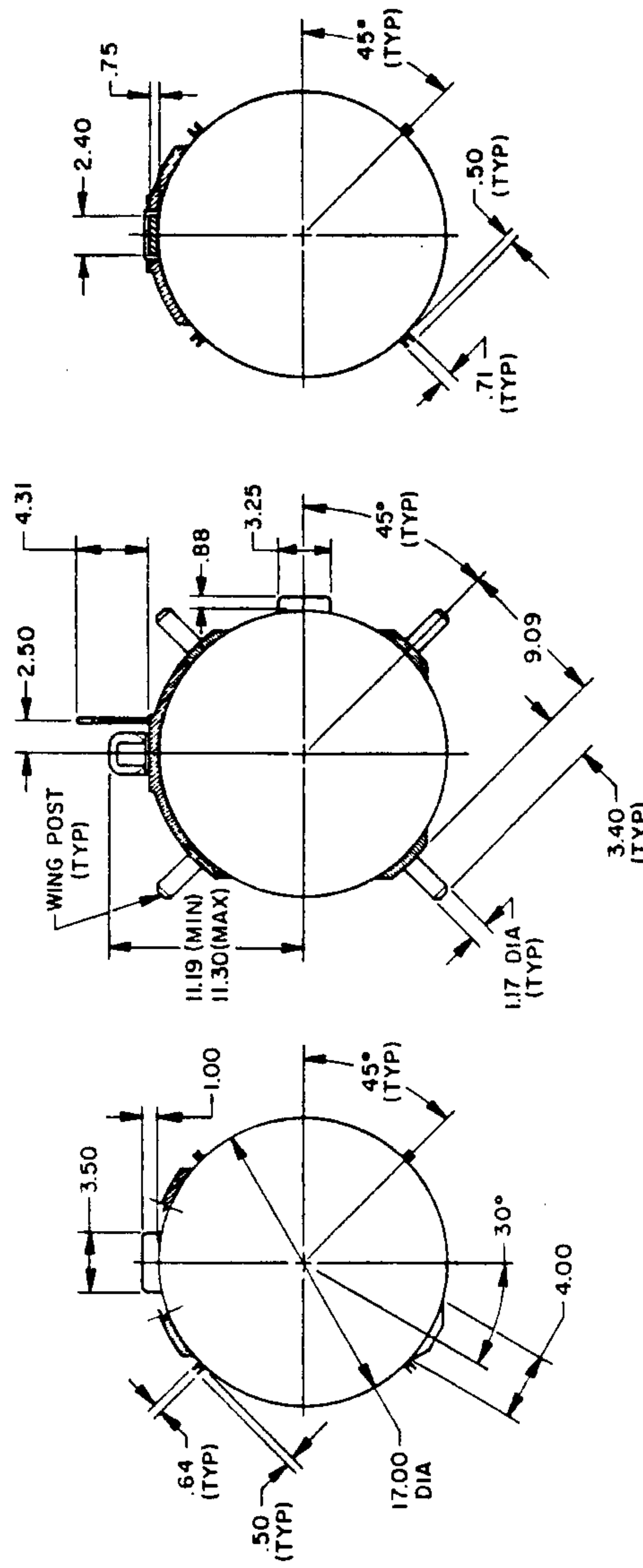
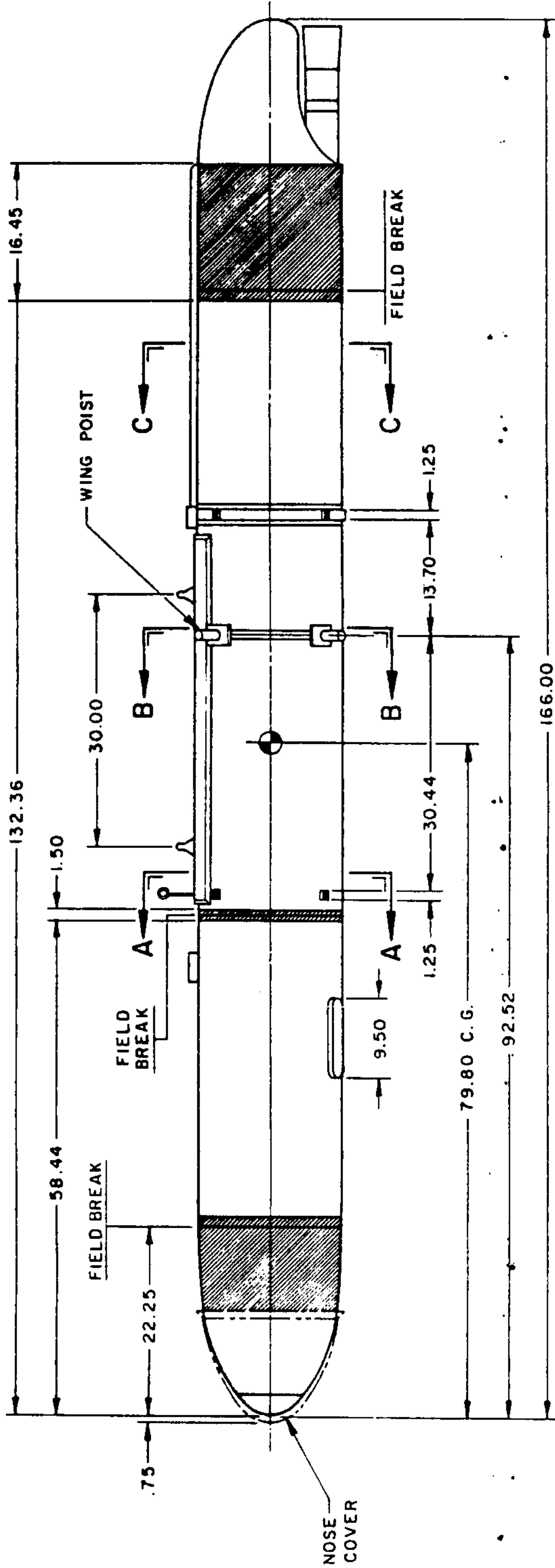
CONDOR AGM-53A GENERAL ARRANGEMENT



PRELIMINARY
 ORIGINAL DATA SOURCE
 NORTH AMERICAN REPORT
 NO. 66 H-897
 DATED 29 DECEMBER 1966

NOTES:
 1. APPROXIMATE WEIGHTS:
 LAUNCH 1885.0 LBS
 BURNOUT 1296.0 LBS
 2. MISSILE LAUNCHED FROM:
 AIRCRAFT A-6A
 PYLON RACK AERO 7A-R; MAU 9A/A

CONDOR AGM-53A HARD SPOT LOCATIONS



ENLARGED SECTION A-A

ENLARGED SECTION B-B

ENLARGED SECTION C-C

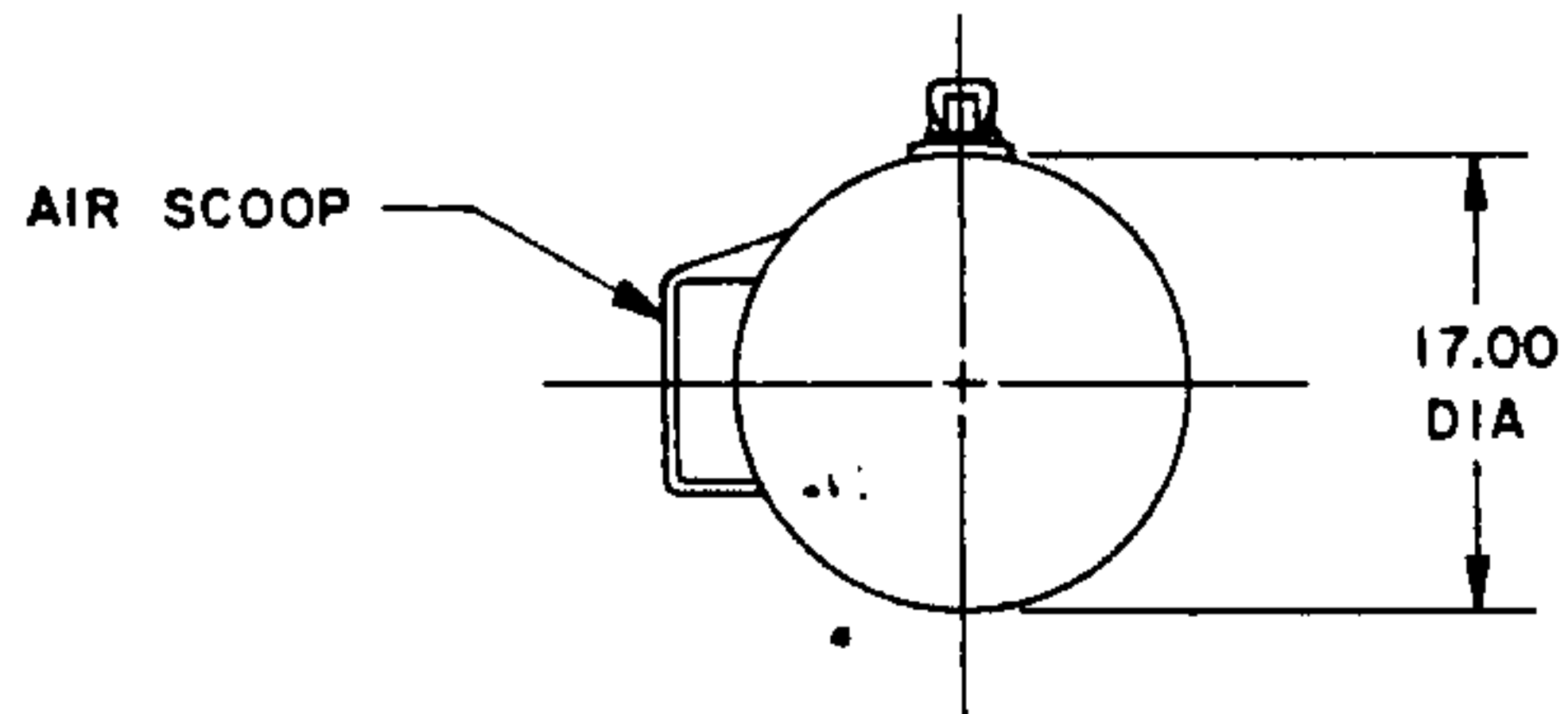
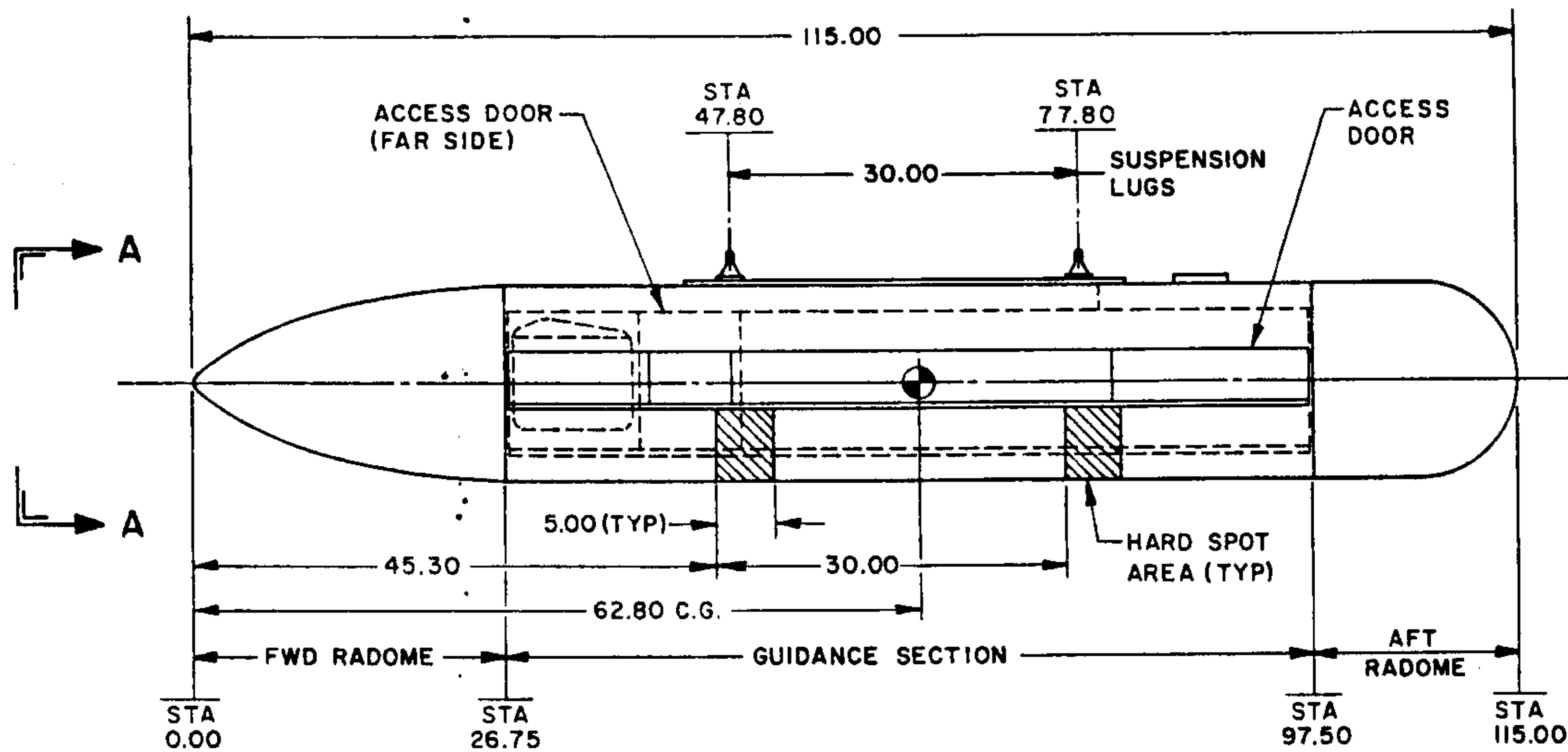
NOTES:

1. APPROXIMATE WEIGHT AS SHOWN - 1796.7 LBS
2. DENOTES HARD SPOT

PRELIMINARY
 ORIGINAL DATA SOURCE
 NORTH AMERICAN REPORT
 NO. ST192HC5001 REV C

AIRCRAFT POD GENERAL ARRANGEMENT

CONDOR AGM-53A



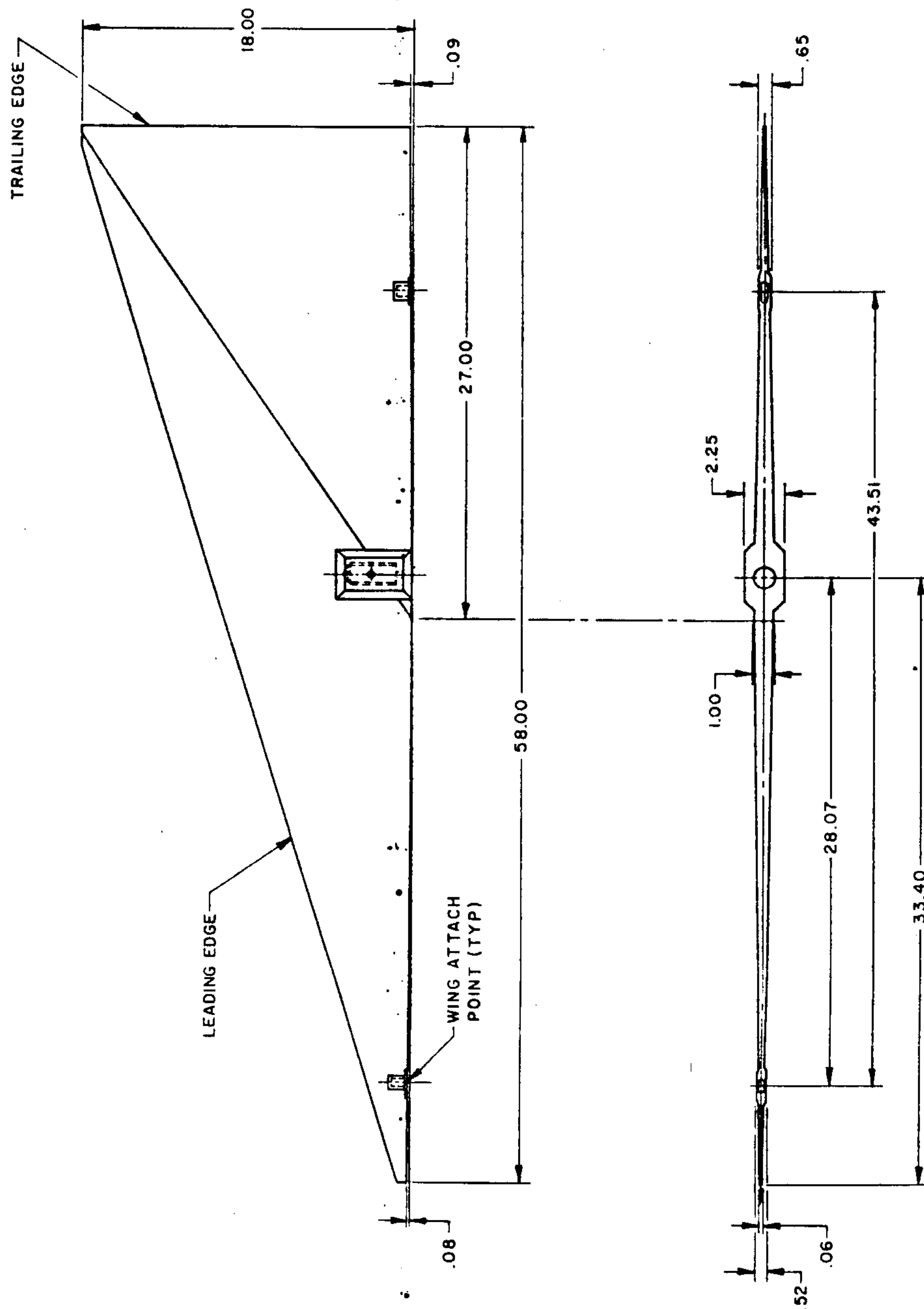
VIEW A-A

APPROXIMATE WEIGHT : 460.0 LBS (MAX)

PRELIMINARY

ORIGINAL DATA SOURCE
NORTH AMERICAN AVIATION
DWG NO. HZ017030
DATED 12 APRIL 1967
NORTH AMERICAN REPORT
NO. 66 H-897
DATED 29 DECEMBER 1966

CONDOR WING



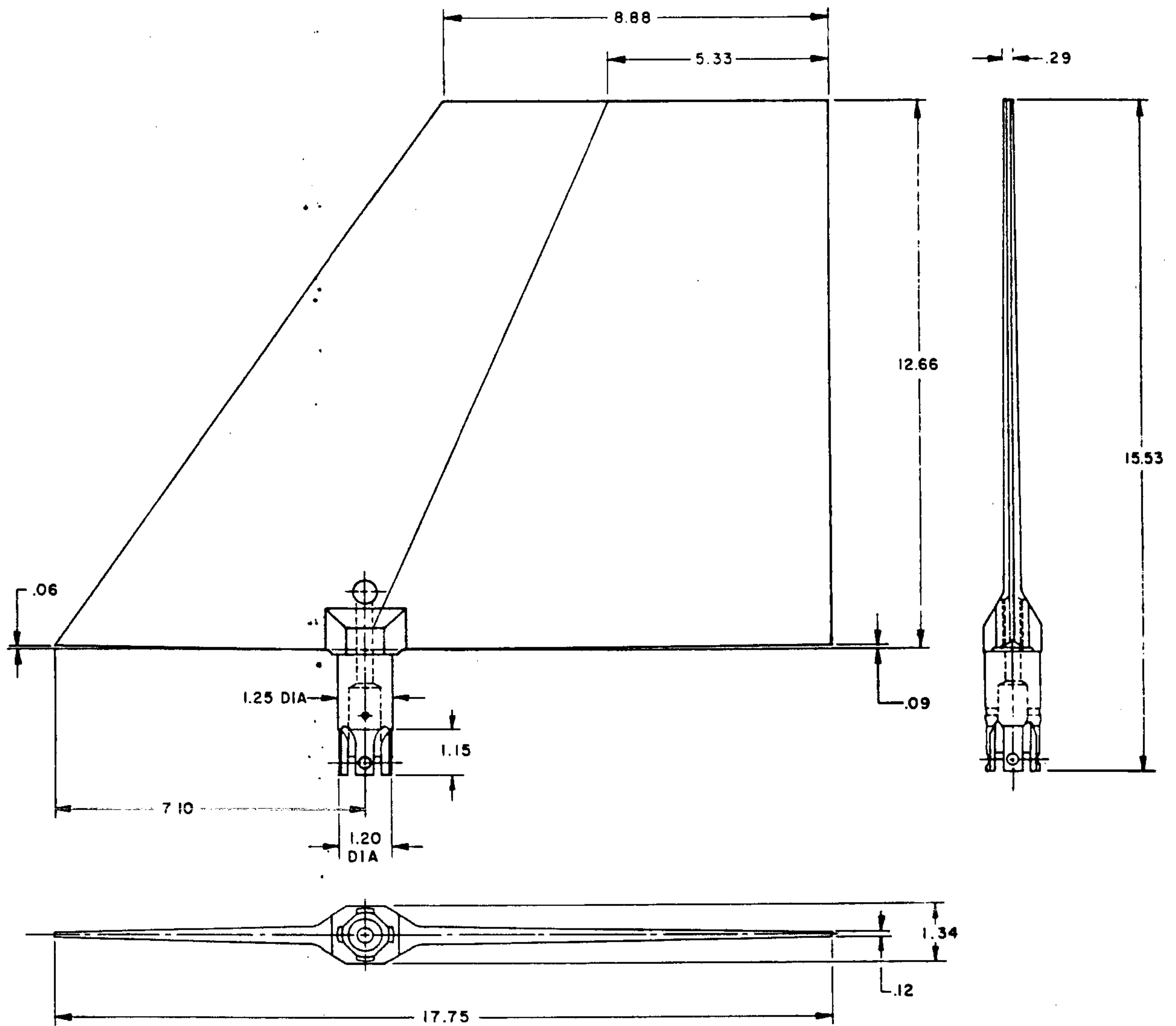
NOTE:

1. FOUR WINGS REQUIRED PER MISSILE.

PRELIMINARY

ORIGINAL DATA SOURCE
NORTH AMERICAN AVIATION
DWG NO. HZ015000 REV A
DATED 5 JUNE 1967

CONDOR CONTROL SURFACE

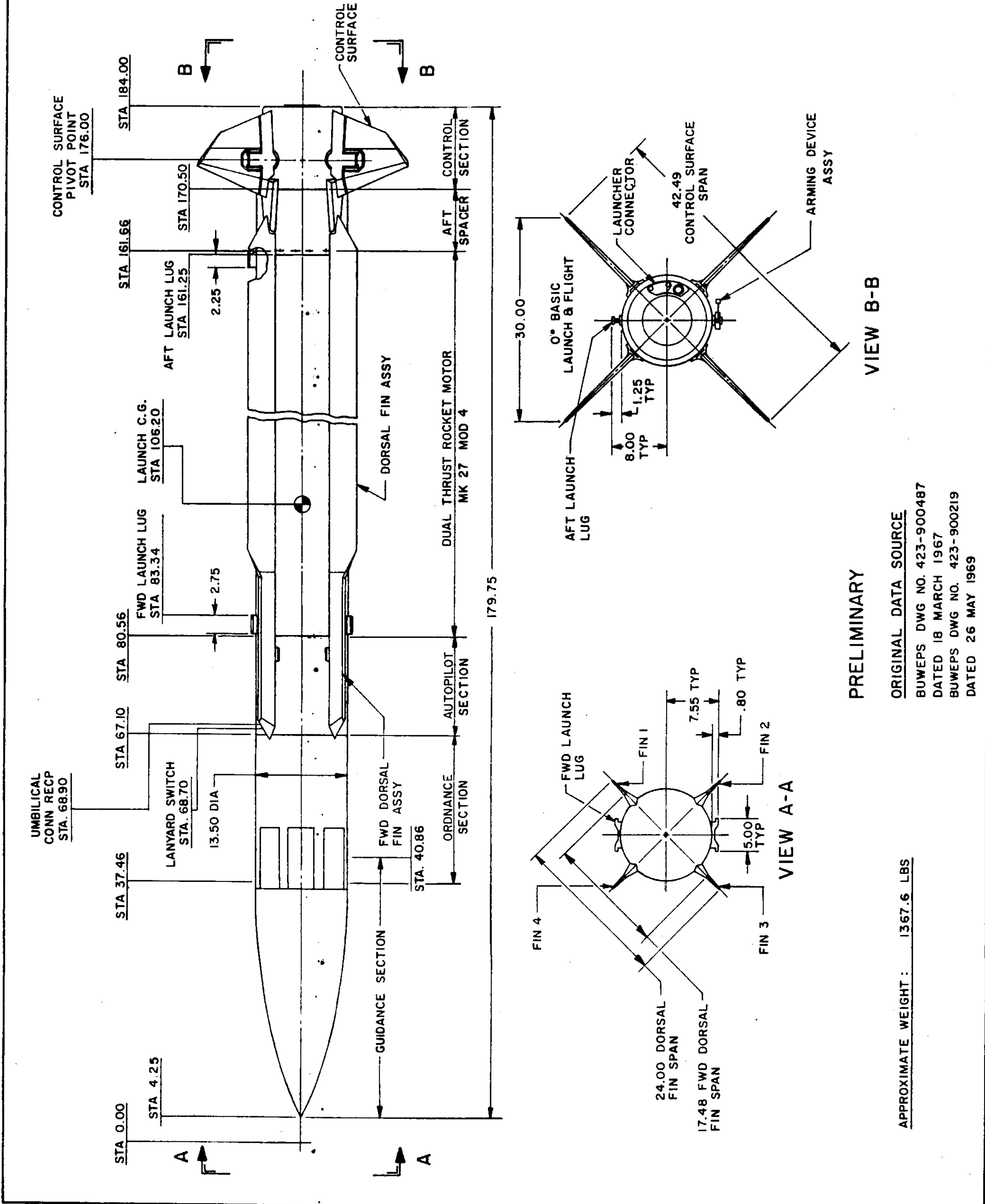


NOTE:
1. FOUR CONTROL SURFACES REQUIRED PER MISSILE.

PRELIMINARY

ORIGINAL DATA SOURCE
NORTH AMERICAN AVIATION
DWG NO. HZ016000

STANDARD ARM AGM-78A GENERAL ARRANGEMENT

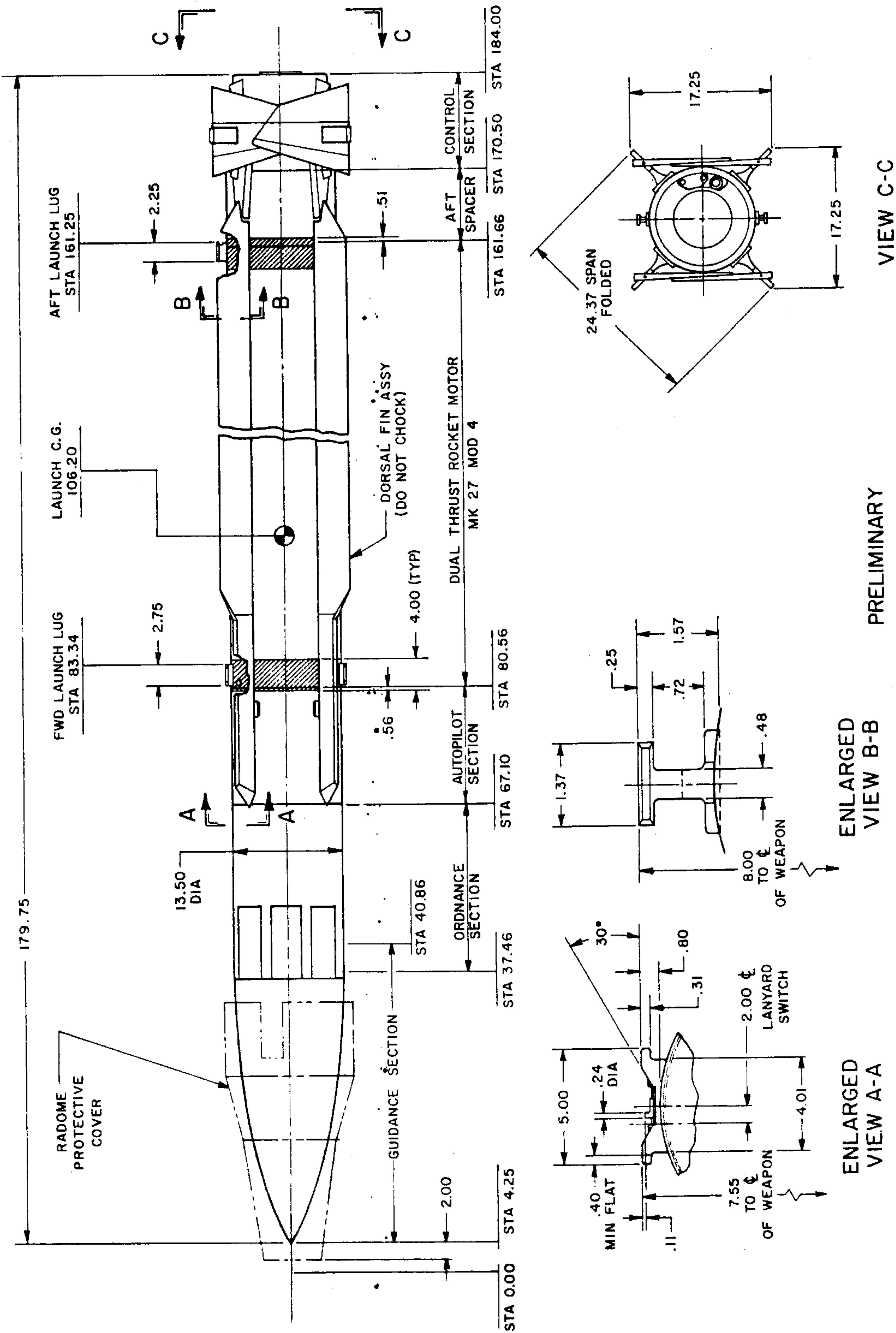


PRELIMINARY

ORIGINAL DATA SOURCE
 BUWEPS DWG NO. 423-900487
 DATED 18 MARCH 1967
 BUWEPS DWG NO. 423-900219
 DATED 26 MAY 1969

APPROXIMATE WEIGHT : 1367.6 LBS

STANDARD ARM HARD SPOT LOCATIONS

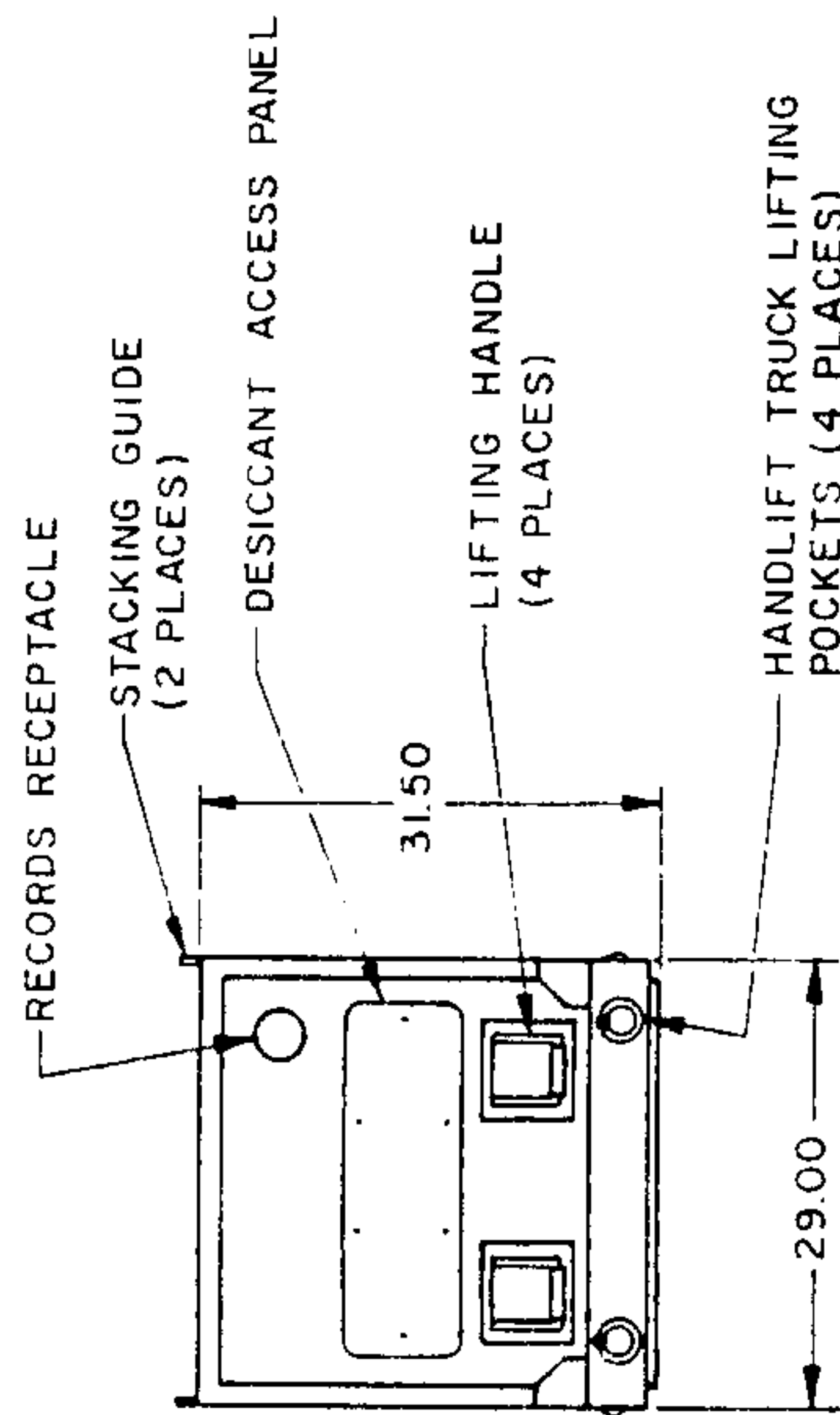
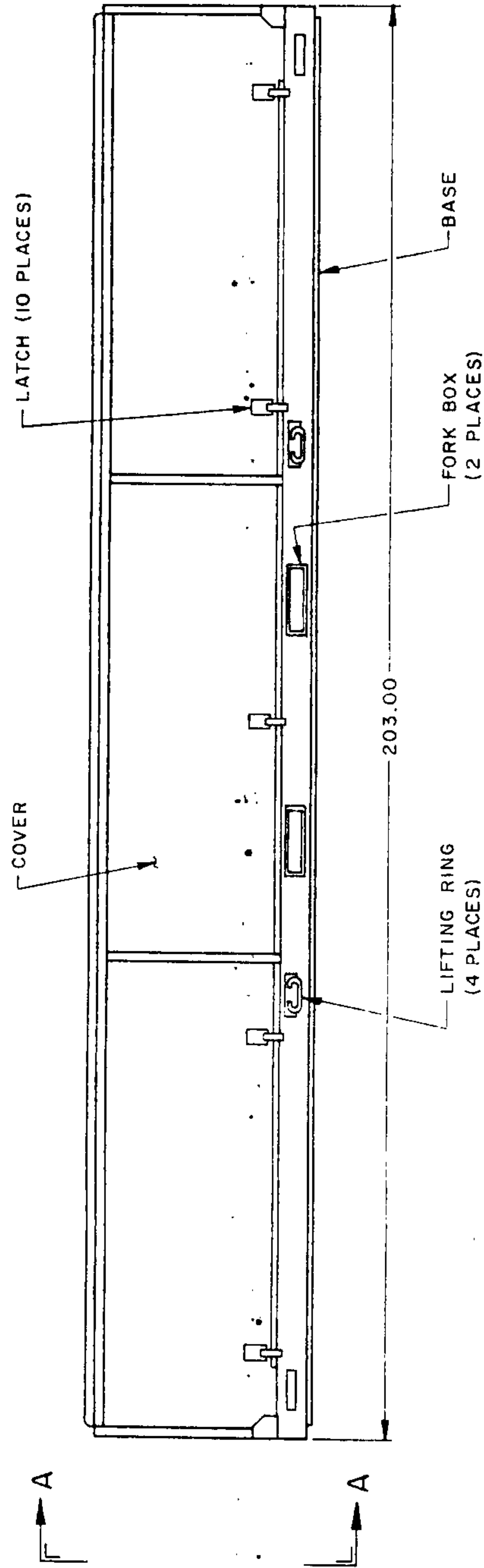


PRELIMINARY

ORIGINAL DATA SOURCE:
 BUWEPS DWG NO. 423-900487
 DATED 18 MARCH 1967
 NAVAIR REPORT 11-120-14
 DATED 16 FEBRUARY 1968
 BUWEPS DWG NO. 423-900219
 DATED 26 MAY 1969

NOTES:
 1. APPROXIMATE WEIGHT : 1367.6 LBS
 2. SYMBOL DENOTES HARD SPOT AREA.

STANDARD ARM MISSILE CONTAINER



NOTES:

1. REUSABLE CRADLE SHOWN SHIPS & STOWS ONE ASSEMBLED STANDARD ARM MOD O, AGM-78A.
2. APPROXIMATE WEIGHTS:

CONTAINER EMPTY	-	700.0 LBS
MISSILE	-	1367.6 LBS
TOTAL	-	2067.6 LBS

PRELIMINARY

ORIGINAL DATA SOURCE
NAVAIR REPORT II-120-14
DATED 16 FEBRUARY 1968