Testing Protocols

1.1 FBI TESTING PROTOCOLS – GLOCK 19M DUTY/CONCEALABLE HOLSTER

I. ADMINISTRATIVE

A. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters.
B. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.
C. All testing will be conducted with a Glock 19M pistol unless otherwise noted.
D. Evaluators will consist of SME's, as well as the available FBI agent population.
E. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

II. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of five (5) sample items representing the holster being submitted for consideration at NO COST to the government.

Of the five (5) holster samples: 4 Right hand and 1 Left hand

III. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted holster and magazine pouch in order to ensure that it meets the requirements outlined the Statement of Work. Any

submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

1. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours, not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours, not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

2. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[1] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

3. Grab test: The grab test shall test the holster's retention capability to maintain the weapon in the holster. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster. A 10 lb. weight shall be attached to the weapon and

1 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

if the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

1. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

2. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				Points
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

3. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

b. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

2.1 FBI TESTING PROTOCOLS – GLOCK 19M DUTY/CONCEALABLE HOLSTER

With an Active Retention Device

IV. ADMINISTRATIVE

F. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters.
G. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.
H. All testing will be conducted with a Glock 19M pistol unless otherwise noted.
I. Evaluators will consist of SME's, as well as the available FBI agent population.
J. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

V. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of five (5) sample items representing the holster being submitted for consideration at NO COST to the government.

Of the five (5) holster samples: 4 Right hand and 1 Left hand

VI. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted holster and magazine pouch in order to ensure that it meets the requirements outlined in the Statement of Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

4. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours, not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours, not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

5. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[2] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

2 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

6. Grab test: The grab test shall test the holster's retention capability from a forceful attempt to remove the weapon from the holster without disengaging the retention device. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster with the retention device activated. A 10 lb weight shall be attached to the weapon utilizing a tether approximately 39 inches long. The weight shall be dropped straight down. If the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

4. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

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98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
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Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the

average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

5. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

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0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

6. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

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37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

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32 5/16 - 32 7/16	4
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> 32 11/16	0

c. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

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1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

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Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

3.1 FBI TESTING PROTOCOLS – GLOCK 19M TACTICAL HOLSTER

VII. ADMINISTRATIVE

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Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

7. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours, not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours, not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

8. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[3] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

3 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

9. Grab test: The grab test shall test the holster's retention capability from a forceful attempt to remove the weapon from the holster without disengaging the retention device. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster with the retention device activated. A 10 lb weight shall be attached to the weapon utilizing a tether approximately 39 inches long. The weight shall be dropped straight down. If the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

7. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the

average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

8. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				Points
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

9. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

d. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

4.1 FBI TESTING PROTOCOLS – GLOCK 17M DUTY/CONCEALEABLE HOLSTER

X. ADMINISTRATIVE

P. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters and magazine pouches.
Q. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.
R. All testing will be conducted with a 17M pistol unless otherwise noted.
S. Evaluators will consist of SME's, as well as the available FBI agent population.
T. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

XI. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of five (5) sample items representing the holster being submitted for consideration at NO COST to the government.

Of the five (5) holster samples: 4 Right hand and 1 Left hand

XII. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted holster and magazine pouch in order to ensure that it meets the requirements outlined in the Statement of Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

10. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

11. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[4] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

12. Grab test: The grab test shall test the holster's retention capability to maintain the weapon in the holster. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster. A 10 lb weight shall be attached to the weapon. If the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

4 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

10. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

11. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				Points
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

12. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

e. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

5.1 FBI TESTING PROTOCOLS – GLOCK 17M DUTY/CONCEALEABLE HOLSTER With an Active Retention Device

XIII. ADMINISTRATIVE

U. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters and magazine pouches.
V. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.
W. All testing will be conducted with a 17M pistol unless otherwise noted.
X. Evaluators will consist of SME's, as well as the available FBI agent population.
Y. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

XIV. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of five (5) sample items representing the holster being submitted for consideration at NO COST to the government.

Of the five (5) holster samples: 4 Right hand and 1 Left hand

XV. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted holster and magazine pouch in order to ensure that it meets the requirements outlined in the Statement of

Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

13. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

14. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[5] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

5 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

15. Grab test: The grab test shall test the holster's retention capability from a forceful attempt to remove the weapon from the holster without disengaging the retention device. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster with the retention device activated. A 10 lb weight shall be attached to the weapon utilizing a tether approximately 39 inches long. The weight shall be dropped straight down. If the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

13. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the

average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

14. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				Points
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

15. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

f. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

6.1 FBI TESTING PROTOCOLS – GLOCK 17M TACTICAL HOLSTER

XVI. ADMINISTRATIVE

Z. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters and magazine pouches.

AA. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.

BB. All testing will be conducted with a 17M pistol unless otherwise noted.

CC. Evaluators will consist of SME's, as well as the available FBI agent population.

DD. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

XVII. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of five (5) sample items representing the holster being submitted for consideration at NO COST to the government.

Of the five (5) holster samples: 4 Right hand and 1 Left hand

XVIII. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted holster and magazine pouch in order to ensure that it meets the requirements outlined in the Statement of Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Holsters and magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any holster or magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

16. Two (2) holsters from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic "Instant Ocean" salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each holster will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the holster will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours not to exceed 3 hours. The holster will then be fully submerged in tap water and then immediately removed. The holster will be returned to the environmentally controlled room for a period of 20 hours not to exceed 28 hours. The holsters will be examined for signs of corrosion and must allow the HSC to function the draw and then holster the weapon. There can be no degradation in the material or construction of the holster.

17. Two (2) holsters from each offeror (with the gun inserted) will be dropped into sand[6] from a height of 5 feet. Each tested holster will be dropped four times:
    a. Muzzle up
    b. Muzzle down
    c. Left side down
    d. Right side down

    The holster must allow the HSC to function the draw and then holster the weapon upon removal from the sand. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

6 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

18. Grab test: The grab test shall test the holster's retention capability from a forceful attempt to remove the weapon from the holster without disengaging the retention device. Magazine pouches will not be submitted to this test. One (1) holster from each offeror shall be inverted and secured to an affixed base. A weapon will be inserted into the holster with the retention device activated. A 10 lb weight shall be attached to the weapon utilizing a tether approximately 39 inches long. The weight shall be dropped straight down. If the weapon falls free, the holster will fail. If the overall integrity of the holster is diminished in any way during this event, so that it can no longer be used as designed, the holster will fail.

7.1 FBI TESTING PROTOCOLS

GLOCK 19M & GLOCK 17 M SINGLE MAGAZINE POUCH

XIX. ADMINISTRATIVE

EE. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters and magazine pouches.

FF. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.

GG. All testing will be conducted with a Glock 19M or 17M pistol unless otherwise noted.

HH. Evaluators will consist of SME's, as well as the available FBI agent population.

II. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

XX. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of ten (10) sample magazine pouches representing the item being submitted for consideration at NO COST to the government.

Of the thirty-six magazine pouches:

Five (5) shall be duty/concealable single magazine pouches for the Glock 19M.

- 4 Right hand and 1 Left hand, (unless ambidextrous)

Five (5) shall be duty/concealable single magazine pouches for the Glock 17M.

- 4 Right hand and 1 Left hand, (unless ambidextrous)

Offerors may submit the same pouch for the 17M as the 19 M but shall provide the same total number of samples.

XXI. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted magazine pouch in order to ensure that it meets the requirements outlined in the Statement of Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

19. Two (2) magazine pouches (with magazines inserted) from each offeror will be heated to a temperature of +140 degrees for a period of 8 to 12 hours. Upon removal from the environmental chamber, a member of the HSC will attempt to draw and insert magazines into the magazine pouch. There can be no degradation in the material or construction of the magazine pouch.

20. Two (2) magazine pouches (with magazines inserted) from each offeror will be cooled to a temperature of -40 degrees for a period of 8 to 12 hours. Upon removal from the environmental chamber, a member of the HSC will attempt to function the holster. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

21. Two (2) magazine pouches from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic “Instant Ocean” salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each magazine pouch will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the pouch will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-50% humidity) for a minimum of 2 hours not to exceed 3 hours. The pouch will then be fully submerged in tap water and then immediately removed. The pouch will be

returned to the environmentally controlled room for a period of 20 hours not to exceed 28 hours. The pouches will be examined for signs of corrosion and must allow the HSC to function the draw and insert magazines into the magazine pouch. There can be no degradation in the material or construction of the magazine pouch.

22. Two (2) magazine pouches from each offeror (with magazines inserted) will be dropped into sand[7] from a height of 5 feet. Each tested pouch will be dropped four times:
    a. Magazine up
    b. Magazine down
    c. Left side down
    d. Right side down

    The pouch must allow the HSC to draw and insert magazines into the magazine pouch immediately upon removal from the sand. There can be no degradation in the material or construction of the magazine pouch.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

16. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points

7 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4” in the test fixture.

147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

17. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				**Points**
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

18. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

g. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					

8.1 FBI TESTING PROTOCOLS

GLOCK 19M & GLOCK 17 M DOUBLE MAGAZINE POUCH

XXII. ADMINISTRATIVE

JJ. This document details the testing procedures and evaluation criteria for the FBI's selection of holsters and magazine pouches.

KK. All testing will be administered by the Firearms Training Unit (FTU), located at Quantico, Virginia.

LL. All testing will be conducted with a Glock 19M or 17M pistol unless otherwise noted.

MM. Evaluators will consist of SME's, as well as the available FBI agent population.

NN. If different Contractors submit identical items from the same Manufacturer, the FTU will randomly select the submitted Manufacturer items required for testing in order to avoid duplicate testing of the same manufactured item.

XXIII. OFFEROR REQUIRED ITEMS

The Contractor shall supply a total of ten (10) sample magazine pouches representing the item being submitted for consideration at NO COST to the government.

Of the thirty-six magazine pouches:

Five (5) shall be duty/concealable double magazine pouches for the Glock 19M.

- 4 Right hand and 1 Left hand, (unless ambidextrous)

Five (5) shall be duty/concealable double magazine pouches for the Glock 17M.

- 4 Right hand and 1 Left hand, (unless ambidextrous)

Offerors may submit the same pouch for the 17M as the 19 M but shall provide the same total number of samples.

XXIV. TECHNICAL EVALUATION

Evaluations will consist of a four-phase process. Any requested documentation that is not included with the original submission may disqualify an Offeror from further consideration.

PHASE I: Compliance with Attachment II- Statement of Work

PHASE II: Pass/ Fail Tests

PHASE III: Weights and Measures

PHASE IV: End User Assessment

Phase I

Compliance with Attachment II- Statement of Work

The Holster Selection Committee (HSC) shall examine one of each submitted magazine pouch in order to ensure that it meets the requirements outlined in the Statement of Work. Any submission failing to meet any one of the listed specifications shall fail and will not proceed further through the testing process.

Phase II

Pass/ Fail Tests

Magazine pouches shall be subjected to a series of tests to evaluate their viability in environmental extremes. These tests will be graded as Pass/ Fail. Any magazine pouch failing to properly function shall fail and will not continue further in the evaluation process.

23. Two (2) magazine pouches (with magazines inserted) from each offeror will be heated to a temperature of +140 degrees for a period of 8 to 12 hours. Upon removal from the environmental chamber, a member of the HSC will attempt to draw and insert magazines into the magazine pouch. There can be no degradation in the material or construction of the magazine pouch.

24. Two (2) magazine pouches (with magazines inserted) from each offeror will be cooled to a temperature of -40 degrees for a period of 8 to 12 hours. Upon removal from the environmental chamber, a member of the HSC will attempt to function the holster. There can be no degradation in the material or construction of the holster. There can be no degradation in the retention device.

25. Two (2) magazine pouches from each offeror will be selected for this assessment. Tap water will be de-chlorinated with a chlorine neutralizer. Synthetic “Instant Ocean” salt or commercially available equivalent will be added to achieve a salinity adjusted to a specific gravity of 1.020 – 1.023 as measured by a hydrometer. Each magazine pouch will be fully submerged in the salt water solution for 6-8 minutes. Thereafter, the pouch will be removed and stored in an environmentally controlled room (68-72 deg. F, 30-

50% humidity) for a minimum of 2 hours, not to exceed 3 hours. The pouch will then be fully submerged in tap water and then immediately removed. The pouch will be returned to the environmentally controlled room for a period of 20 hours, not to exceed 28 hours. The pouches will be examined for signs of corrosion and must allow the HSC to function the draw and insert magazines into the magazine pouch. There can be no degradation in the material or construction of the magazine pouch.

26. Two (2) magazine pouches from each offeror (with magazines inserted) will be dropped into sand[8] from a height of 5 feet. Each tested pouch will be dropped four times:
    a. Magazine up
    b. Magazine down
    c. Left side down
    d. Right side down

    The pouch must allow the HSC to draw and insert magazines into the magazine pouch immediately upon removal from the sand. There can be no degradation in the material or construction of the magazine pouch.

8 29 Fine play sand, (Quikrete Play Sand, model 111351) and coarse sand (Sakrete, All Purpose Sand, UPC 7-64661-15160-9) mixed by weight 50/50 and set to a minimum depth of 4" in the test fixture.

Phase III

Weights and Measures

One (1) holster of each type and one (1) and magazine pouch from each offeror will be measured for certain physical characteristics. They will be assigned points in each category.

19. Friction: The holster will be affixed to a solid base in a horizontal position. The retention device shall be disengaged and the HSC shall measure the amount of force required to remove the weapon from the holster to the point the weapon comes free from the holster. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per holster and points shall be awarded as follows:

Measured Force	Points
≤ 16.4 ounces	10 points
16.5 - 32.8 ounces	9 points
32.9 - 49.2 ounces	8 points
49.3 - 65.6 ounces	7 points
65.7 - 82.0 ounces	6 points
82.1 - 98.4 ounces	5 points
98.5 - 114.8 ounces	4 points
114.9 - 131.2 ounces	3 points
131.3 - 147.6 ounces	2 points
147.7 - 164.0 ounces	1 point
> 164 ounces	0 points

Holsters with retention adjustment devices will be tested across all four phases with the adjustment set as it is removed from the packaging.

Magazine pouches will also be measured for friction. The magazine pouch shall be affixed to a solid base in a horizontal position. The HSC shall measure the amount of force required to remove the magazine from the magazine pouch to the point the magazine comes free from the pouch. Force will be measured utilizing a Lyman 12 pound spring scale. The HSC will take the average of three (3) measurements per magazine pouch. The force required to remove the magazine must fall within 32 ounces to 96 ounces.

20. Weight: One (1) holster of each type shall be weighed. One (1) magazine pouch of each type will be weighed. The highest applicable point value shall be awarded separately to each holster/ magazine pouch in accordance with the following scale:

Weight in ounces				Points
Belt Holster	**Tactical Holster**	**Double Magazine Pouch**	**Single Magazine Pouch**	
< 0.60	< 2.2	< 0.4	< 0.2	10 points
0.6-1.4	2.2 - 4.6	.4-.8	.2-.4	9 points
1.4- 2.0	4.6 - 6.8	.8-1.2	.4-.6	8 points
2.0- 2.8	6.8 - 9.0	1.2-1.6	.6-.8	7 points
2.8- 3.2	9.0 - 11.4	1.6- 2.0	.8-1.2	6 points
3.2- 3.8	11.4 - 13.6	2.0-2.4	1.2-1.6	5 points
3.8- 4.4	13.6 - 15.8	2.4-2.8	1.6-2.0	4 points
4.4- 5.2	15.8 - 18.2	2.8-3.2	2.0-2.4	3 points
5.2 – 6.0	18.2 - 20.4	3.2-3.6	2.4-2.8	2 points
6.0 - 6.8	20.4 - 22.8	3.6- 4.0	2.8-3.2	1 point
> 6.8	> 22.8	> 4.0	> 3.2	0 points

21. Size: One (1) holster and one (1) magazine pouch from each type will be selected for this assessment. The HSC will measure for circumference and thickness.
    a. Each selected holster and magazine pouch will be affixed to a test fixture utilizing a 5.11 Tactical Series 1.5" TDU Belt (Style# 59551). The test fixture has a circumference of 35 5/8". While the holster or magazine pouch (with gun or magazine inserted) is affixed to the side of a cylinder, the entire circumference of the cylinder, belt and holster or magazine pouch shall be measured.

       The highest applicable point value shall be awarded in accordance with the following scale (measurements are in inches):

Belt Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 36 13/16	< 36 13/16	< 36 5/8	12
36 13/16 - 37 1/16	36 13/16 - 37	36 5/8 - 36 7/8	11
37 1/16 - 37 5/16	37 - 37 3/16	36 7/8 - 37 1/8	10
37 5/16 - 37 9/16	37 3/16 - 37 6/16	37 1/8 - 37 3/8	9
37 9/16 - 37 13/16	37 6/16 - 37 9/16	37 3/8 - 37 5/8	8
37 13/16 - 38 1/16	37 9/16 - 37 12/16	37 5/8 - 37 7/8	7
38 1/16 - 38 5/16	37 12/16 - 37 15/16	37 7/8 - 38	6
38 5/16 - 38 9/16	37 15/16 - 38 2/16	38 - 38 1/8	5
38 9/16 - 38 13/16	38 2/16 - 38 5/16	38 1/8 - 38 2/8	4
38 13/16 - 39 1/16	38 5/16 - 38 8/16	38 2/8 - 38 3/8	3
39 1/16 - 39 5/16	38 8/16 - 38 11/16	38 3/8 - 39 4/8	2
39 5/16 - 39 9/16	38 11/16 - 39	38 4/8 - 38 5/8	1
> 39 9/16	> 39	> 38 5/8	0

Tactical Holsters shall be affixed to a cylinder measuring 26.5", utilizing the holster leg strap. Points shall be awarded in accordance with the following scale (measurements are in inches):

Tactical Holster	Points
< 28 13/16	12
28 13/16 - 29 5/16	11
29 5/16 - 29 13/16	10
29 13/16 - 30 5/16	9
30 5/16 - 30 13/16	8
30 13/16 - 31 5/16	7
31 5/16 - 31 13/16	6
31 13/16 - 32 5/16	5
32 5/16 - 32 7/16	4
32 7/16 - 32 9/16	3
32 9/16 - 32 10/16	2
32 10/16 - 32 11/16	1
> 32 11/16	0

h. Utilizing a digital Height Gauge, the holster or magazine pouch shall be measured from its outermost point (as oriented when worn by a shooter) to the point where the holster makes contact with the body directly opposite. Points shall be awarded in accordance with the following scale(measurements are in inches):

Belt Holster	Tactical Holster	Double Magazine Pouch	Single Magazine Pouch	Points
< 1.38	< 1.54	< 1.00	< 1.00	10
1.38 - 1.46	1.54 - 1.78	1.00 - 1.10	1.00 - 1.10	9
1.47 - 1.54	1.79 - 2.03	1.11 - 1.20	1.11 - 1.20	8
1.55 - 1.62	2.04 - 2.27	1.21 - 1.31	1.21 - 1.29	7
1.63 - 1.70	2.28 - 2.51	1.32 - 1.40	1.30 - 1.39	6
1.71 - 1.78	2.52 - 2.76	1.41 - 1.51	1.40 - 1.49	5
1.79 - 1.86	2.77 - 2.99	1.51 - 1.61	1.50 - 1.59	4
1.87 - 1.94	3.00 - 3.24	1.62 - 1.71	1.60 - 1.69	3
1.95 - 2.02	3.25 - 3.48	1.71 - 1.81	1.70 - 1.78	2
2.03 - 2.10	3.49 - 3.72	1.82 - 1.91	1.79 - 1.88	1
> 2.10	> 3.72	> 1.91	> 1.88	0

At the conclusion of Phase III, the top THREE scoring submissions from each type will advance to Phase IV. In the event of a tie for third place, the tied submissions will advance to Phase IV. If during any portion of Phase IV testing any one sample is eliminated, the Government reserves the right to include the next highest scoring submission from Phase 3.

Phase IV

End User Assessment

Holsters and magazine pouches shall be evaluated over a series of categories by a group of 20 evaluators, including live fire conditions. These evaluators shall be selected from among FBI personnel. Evaluators shall participate in the below captioned testing and complete the FBI Holster Evaluator Assessment Form.

Stage 1: Evaluators, wearing a concealing garment, shall start with three magazines of 5 rounds and a holstered weapon. They will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 2: Evaluators shall start with three magazines of 5 rounds and a holstered weapon. From a seated position, they will draw, fire one round and holster. Evaluators shall work through all three magazines.

Stage 3: Evaluators (under supervision of Instructors from the FBI Academy Physical Training Unit) shall work with a second evaluator to conduct several "grab tests," utilizing a safe and empty pistol from the front and rear, with an exposed holster, without purposefully disengaging the retention device. Special attention shall be given to introducing torque to the weapon in each of the four cardinal directions (front, rear, left, right) prior to attempting its removal. Any failure of the retention device, removal of the weapon, or diminished integrity of the holster may be considered in the scoring of Construction or Retention.

Evaluators shall also make several attempts to draw the weapon with their support hand.

ATTACHMENT IV

FBI HOLSTER/ MAGAZINE POUCH EVALUATOR ASSESSMENT FORM

Date:				Holster/ Magazine Pouch:					
Evaluator Name:				Male/Female			R Hand/ L Hand		
Height:				Weight:					
Firearms Instructor: YES/ NO				Years of Service:					
ASSESSMENT CATEGORY				**SCORING**					
				Unacceptable			Satisfactory		Excellent
Appearance				1	2		3	4	5
Comfort				1	2		3	4	5
Draw				1	2		3	4	5
Holstering				1	2		3	4	5
Concealment				1	2		3	4	5
Durability				1	2		3	4	5
Quality of Construction				1	2		3	4	5
Training				1	2		3	4	5

Design Features	1	2	3	4	5
Retention	1	2	3	4	5
Score:					
Evaluator's Notes/ Comments					