Appendices
Firearm Training Facility

An Implementation Plan for Western Connecticut Council of Governments

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Contents

APPENDIX 1 – SURVEY #1, OCTOBER 16, 2020 ..... **3**
APPENDIX 2 – SURVEY #1 SYNOPSIS, NOVEMBER 18, 2020 ..... **13**
APPENDIX 3 – FCPTOA SURVEY RESPONSES, DECEMBER 22, 2020 ..... **18**
APPENDIX 4 – FCPTOA RANGE SPECIFICATIONS **32**
APPENDIX 5 – GUN RANGE CONSTRUCTION ROM QUOTE **35**
APPENDIX 6 – INVERIS TRAINING SOLUTIONS **37**
APPENDIX 7 – FAIRFIELD COUNTY POLICE OFFICERS TRAINING ASSOCIATION (FCPTOA) WORKING GROUP **38**
APPENDIX 8 – LOCAL CONTACTS FOR FUTURE ASSISTANCE **39**
APPENDIX 9 - FAQ **40**
APPENDIX 10 - SURVEY - FIRING RANGE CAPACITY **41**
APPENDIX 11 - LETTERS OF SUPPORT **42**
APPENDIX 12 - LOCATION ANALYSIS **43**
APPENDIX 13 - BRIDGEPORT POLICE DEPARTMENT FIRING RANGE EQUIPMENT INQUIRY. **50**
APPENDIX 14. CHANGE LOG **52**
APPENDIX 15 ASSUMPTIONS **54**
APPENDIX 16. CONSTRUCTION ESTIMATE **55**

Appendix 1 – Survey #1, October 16, 2020

To: WestCOG Firing Range/Training Facility Group

From: Tom Maureau
Amber Daughtry
Winbourne Consulting, LLC

Date: October 16, 2020

Subject: WestCOG Firing Range and Training Facility – Survey #1

Instructions:

- Complete the below survey and send to Amber Daughtry adaughtry@w-llc.com
- New departments: add your information into each table
- Previous departments: validate information is correct
- Feel free to add any information in the document. Use red font so it is easily visible

Firing Range Methodology

1. Leverage work completed by departments and Fairfield County Police Training Officer Association (FCPTOA)
2. Establish current-state utilization
3. Identify current-state costs to use a Firing Range
4. Develop requirements for a Firing Range – Minimum mandatory and optimum
5. Evaluate potential options
    a. Bethel
    b. Stamford
6. Governance and scheduling
7. Cost sharing
    a. Facility
    b. Maintenance

   c. Staffing
   d. Electrical/water
   e. Berm management
   f. Hazardous material cleanup
8. Discuss new property/facility

Current-State

Current Range Used

New Canaan	Utilizes multiple ranges depending upon availability
Redding	Utilizes multiple ranges depending upon availability
Ridgefield	Utilizes multiple ranges depending upon availability
Weston	Utilizes multiple ranges depending upon availability
Wilton	Utilizes multiple ranges depending upon availability

Capacity of Current Range

	Handgun	Shotgun	Rifle	Other/Chemical
New Canaan	Yes	Yes	No. Limited rifle range options	No
Redding	Yes	Yes	No. Limited rifle range options	No
Ridgefield	Yes	Yes	No. Limited rifle range options	No
Weston	Yes	Yes	No. Limited rifle range options	No
Wilton	Yes	Yes	No. Limited rifle range options	No

Firearms Qualifications – State Mandate and Department Policy

	Semi-Annual	Annual	Other
New Canaan	Low-light shoot	Qualify once a year	N/A

Redding	Yes	Qualify once a year	N/A
Ridgefield		Qualify once a year	N/A
Weston		Qualify once a year	N/A
Wilton		Qualify once a year	N/A

Annual Utilization

Total number of times a firing range was used each year for a firearms training and/or qualification session for the entire department.

	2018	2019	2020
New Canaan	15	15	
Redding	3	3	
Ridgefield	Unknown	Unknown	
Weston	11	11	
Wilton	24	24	

Anticipated Annual Increase if a New Firing Range is Implemented

Example: The department may schedule more training/qualification sessions that currently completing (previous table). Estimate the new total.

	Estimated New Annual Total
New Canaan	
Redding	
Ridgefield	
Weston	

Wilton	

Firearms Training and Qualification Breakdown

Breakdown of above firearms training and qualification.

	Handgun	Shotgun	Rifle	Chemical Munitions/ Less Lethal
New Canaan	8 (some sessions combined pistol/rifle)	N/A	13 (some sessions combined pistol/rifle)	1 (combined with pistol qualification)
Redding	442 Hours	8 Hours	76 Hours	31 Hours
Ridgefield				
Weston	9	0	2	2
Wilton	16	0	8	2

Annual Cost to Lease/Use Firing Range(s)

	2018	2019	2020
New Canaan			
Redding			
Ridgefield			
Weston			
Wilton			

Minimum Mandatory Requirements – **Outdoor** Range

Add information next to each question. Responses are the perspective of your department.

1. Berm requirements
2. Number of lanes
    a. Handgun – 10 (from Zoom meeting)
    b. Shotgun – 10 (from Zoom meeting)
    c. Rifle – 10 (from Zoom meeting)
3. Handgun requirements
    a. Qualification – 1, 3, 5, 10-, 15-, 25- and 50-yard markers
4. Shotgun requirements
    a. Training - 10-, 15-, 25- and 50-yard markers
5. Rifle requirements
    a. Training – 50-, 100-, 200- and 250-yard markers
6. Target system
    a. Stationary
    b. Dynamic
7. Range House
    a. Administration
    b. Sign-in
    c. Restrooms
    d. Cleaning station
    e. Public Address System
    f. "Line is Hot" warning lights
    g. Storage
        i. Headsets, targets, etc.
        ii. Ammunition – Temporary storage (from Zoom meeting)

8. Parking

Optimum Requirements – Outdoor Range

1. Federal/OSHA rules and legislation
2. State requirements rules and legislation
3. Local requirements rules and legislation (e.g., zoning laws)
4. Noise rules and legislation
5. Hazardous material rules and legislation
6. Berm requirements
7. Number of lanes
    a. Handgun
    b. Shotgun
    c. Rifle
8. Handgun requirements
    d. Qualification – 1, 3, 5, 10-, 15-, 25- and 50-yard markers
    e. Training
        i. Tactical
        ii. Hollywood front
        iii. Shoot house
        iv. Simunitions
9. Shotgun requirements
    f. Training - 10-, 15-, 25- and 50-yard markers
10. Rifle requirements
    g. Training – 50-, 100-, 200- and 250-yard markers
11. Target system
    h. Stationary
    i. Dynamic
12. Range House
    j. Administration
    k. Sign-in
    l. Restrooms
    m. Cleaning station
    n. Public Address System
    o. “Line is Hot” warning lights
    p. Storage
        i. Headsets, targets, etc.
        ii. Ammunition
13. Parking

Minimum Mandatory Requirements – **Indoor** Range

1. Number of lanes
    a. Handgun
    b. Shotgun
    c. Rifle
2. Handgun requirements
    d. Qualification – Distance markers
3. Shotgun requirements
    a. Qualification – Distance markers
4. Rifle requirements
    a. Qualification – Distance markers
5. Target system
    a. Stationary
    b. Dynamic
6. Range House
    a. Administration
    b. Sign-in
    c. Restrooms
    d. Cleaning station
    e. Public Address System
    f. "Line is Hot" warning lights
    g. Storage
        i. Headsets, targets, etc.
        ii. Ammunition
7. Parking

Optimum Requirements – **Indoor** Range

1. Number of lanes
    e. Handgun
    f. Shotgun
    g. Rifle
2. Handgun requirements
    h. Qualification – Distance markers
3. Shotgun requirements
    a. Qualification – Distance markers
4. Rifle requirements
    a. Qualification – Distance markers
5. Target system
    a. Stationary
    b. Dynamic

6. Range House
    a. Administration
    b. Sign-in
    c. Restrooms
    d. Cleaning station
    e. Public Address System
    f. "Line is Hot" warning lights
    g. Storage
        i. Headsets, targets, etc.
        ii. Ammunition
7. Parking

Training Facility Methodology

1. Leverage work completed by departments and Fairfield County Police Training Officer Association (FCPTOA)
2. Establish current-state utilization
3. Identify current-state costs to use a Training Facility
4. Develop requirements for a Training Facility – Minimum mandatory and optimum
5. Evaluate potential options
6. Discuss new property/facility

Minimum Mandatory Requirements

Add information next to each question. Responses are the perspective of your department.

1. Classrooms
    a. Number
    b. Seat capacity
    c. Configuration
        i. Whiteboards
        ii. Moveable desks
        iii. Moveable walls
2. Specialty rooms
    a. Defensive tactics
    b. Driving simulator
    c. Shoot/Don't Shoot
    d. Other
3. Administration
4. Restrooms

5. Lockers
6. Other

Appendix 2 – Survey #1 Synopsis, November 18, 2020

To: WestCOG Firing Range/Training Facility Group

From: Tom Maureau
Amber Daughtry
Winbourne Consulting, LLC

Date: November 18, 2020

Subject: WestCOG Firing Range and Training Facility Synopsis

Replies received from: Bethel, Brookfield, Darien, New Canaan, Ridgefield, Weston, and Wilton

Note: Darien reported in their email: We are fortunate to have our own indoor pistol/rifle range here at Darien PD. The training hours are high in the survey because officers are trained individually throughout the year.

Current-State

Current Range Used

Each town reported they use multiple ranges depending on availability with New Canaan primarily using Wooster Mt – a private club on state leased land.

Capacity of Current Range

Each town reported the capability for handgun, shotgun, and rifle with the exception of Brookfield (Rifle has limited indoor range) and Wilton with limited use at current outdoor range.

Annual Utilization

Total number of times a firing range was used each year for a firearms training and/or qualification session for the entire department during the last three years (2018, 2019 and 2020).

Bethel and Ridgefield reported the lowest at 4 and 5 times each year respectively; **Brookfield** reported 15 times each year; **Darien**, **New Canaan and Wilton** reported 20-50 times each year; and **Weston** reported 11 times a year for 2018 and 2019.

Annual Cost to Lease/Use Firing Range(s)

Range costs were reduced for **Brookfield** (from $5,800 in 2018 to $4,000 in 2020); **Darien** reported no costs; **New Canaan spent** $8,700 and $8,400 for 2018 and 2019; **Ridgefield** spent $900 each year; **Weston** spent $1,000 in 2018 and 2019 increasing to $1,200 in 2020; **Wilton** reported no costs.

Minimum Mandatory Requirements – Outdoor Range

Additional requirements (to original list) would be adequate parking.

Optimum Requirements – Outdoor Range

Wilton requested 10 lanes; **New Canaan** requested 20 lanes for handgun

For “Line is Hot” warning lights - N**ew Canaan**: requested Red Flag (similar to military ranges) and a classroom

Minimum Mandatory Requirements – Indoor Range

Wilton requested 6 lanes and **New Canaan** requested 5 lanes for handguns and 5 for rifles

Handgun Requirements:

New Canaan requested Distance Markers of 25; **Wilton** requested Minimum 25 yards.

Rifle requirements for distance markers: **New Canaan**: 50 (required minimum for rifle qualification) and **Wilton**: 100 yards

Parking: **Wilton** requested 10-12 spaces

Optimum Requirements – Indoor Range

Number of lanes: **Wilton**: 8 lanes

Handgun: **New Canaan**: 10

Rifle: **New Canaan**: 10

Handgun requirements - Qualification – Distance markers: **New Canaan**: 25 and **Wilton**: Minimum 25 yards

Rifle requirements - Qualification – Distance markers: **New Canaan**: 50 and **Wilton**: 200 yards

Range House – Administration: **New Canaan**: Administration/Classroom with A/V Capabilities

Minimum Mandatory Requirements

Classrooms: **Brookfield**: A lot depends on intended uses - In-Service and/or Recruit Level; **Wilton**: one

Number: **New Canaan**: 1 and **Brookfield**: Minimum 2 to 3 with 4 to 5 smaller breakout rooms

Seat capacity: **New Canaan**: 30 and **Brookfield**: Classroom = 32 – 40; Breakouts 10 to 12

Configuration

Whiteboards: **Brookfield**: Yes; Wilton: Smartboard

Moveable desks: **Brookfield**: Yes

Moveable walls: **Brookfield**: Might work; **Wilton**: Yes, to split into two smaller rooms; **New Canaan**: A/V Capability

Specialty rooms

Defensive tactics: **Brookfield**: Yes; **Wilton**: Yes, the ability to convert to this

Driving simulator: **Brookfield**: Yes; **Wilton**: No

Shoot/Don't Shoot: **New Canaan**: Simulator 360 degree; **Brookfield**: Yes; **Wilton**: Yes

Specialty rooms – Other: **Brookfield**: Technology

Administration

Brookfield: Shared space

Restrooms: **Brookfield**: Yes

Lockers: **Brookfield**: Small for personal property, i.e., phones & wallets; **Wilton**: No, maybe a larger changing area in bathrooms

Other: **Brookfield**: Storage and showers if intent is to provide recruit training; **Wilton**: Kitchen area and a small break room off main room; area to store training equipment

Appendix 3 – FCPTOA Survey Responses, December 22, 2020

To: WestCOG Firing Range/Training Facility Group

From: Tom Maureau
Amber Daughtry
Winbourne Consulting, LLC

Date: December 22, 2020

Subject: WestCOG Regional Firing Range and Training Facility Survey Synopsis

Lt. Kullgren distributed the survey to officers from 38 departments. We received 23 responses from 19 departments and one with no answers which was deleted.

Question 1: What agency do you work with?

Answered: 23

Skipped: 0

Responses:

1. Norwalk – 2
2. Aquarion Water Police - 1
3. Danbury - 2
4. Greenwich PD
5. Bethel
6. Stamford PD

7. Watertown Police
8. Wilton
9. Houstonic Community College Police Department
10. Milford Police
11. CT Encon Police DEEP
12. Weston Police Department - 2
13. Darien PD
14. Western Connecticut State University PD
15. Redding PD
16. Fairfield Police Department
17. Easton – 2
18. Shelton Police Department
19. Newtown PD

Question 2: Please list any location with the potential to be used for an indoor or outdoor Firing Range. Provide as much information as possible such as physical address, owner, contact information, why the location may be an opportunity, etc.

Answered: 13

Skipped: 10

Responses:

- **Aquarion**: None with the potential for future opportunities.
- **Danbury**: Wooster Mountain Gun Range, State Property, Rt. 7/Sugar Hollow Rd. Danbury, CT
- **Greenwich:** None in Greenwich
- **Bethel**: Our range has been the top of discussion for use. It was not built to be a regional range nor is there adequate parking to accommodate such. I do not know of another site and do NOT support our range being used as such.
- **Norwalk**: The old Fed Ex facility on Woodward Ave. in Norwalk. It is large enough for an indoor rifle range.
- **Stamford**: SPD - Indoor Range 725 Bedford Street Stamford, CT 06901
- **Housatonic Community College:** The old Remington Arms in Bridgeport
- **CT Encon Police DEEP:** Glastonbury Shooting Range, 344 Toll Gate Rd. Glastonbury CT. High Rock Shooting Range, 100 Black Forest Road, Naugatuck CT; Wooster Mountain Shooting Range, 74 Sugar Hollow Rd, Danbury, CT 06810
- **Darien:** N/A
- **Western Connecticut State University**: The Wooster Mtn gun club in Danbury CT. This facility is state owned, but leased to a private gun club, I believe for $1 a year. The club

charges Police Department $100-$200 per day to use it when its available. If the lease is up soon, this location would be excellent to convert into a regional Police training center/range.

- **Easton**: None
- **Shelton**: Shelton has an indoor 4 lane range
- **Newtown**: Address: 191 S. Main St, Newtown, CT, 06470. Owner: Town of Newton, CT

Question 3: Do you know of any plans, formal or informal, that have been developed for a Firing Range? If yes, provide a copy of the plan or contact information.

Answered: 23

Skipped: 0

Answers:

No: 22 (95.65%)

Yes: 1 (4.35%)

Question 4: We understand a perfect solution would be a combination indoor/outdoor range. If that cannot be accomplished, what type of range should have priority?

Answered: 23

Skipped: 0

Answers:

Indoor: 13 (56.52%)

Outdoor: 10 (43.38%)

Responses:

- **Norwalk**: Unless an indoor has rifle capability at 50 yards, an outdoor range would serve more types of weapon training.
- **Norwalk**: Rifle training.

- **Aquarion Water**: Ability to use rifles and shotguns.
- **Danbury**: More use time. No inclement weather issues.
- **Greenwich:** Longer distances and modified backstops required for rifle training. A rifle rang can be modified for pistol but not vice-versa.
- **Bethel**: Much more can be accomplished with an indoor range that is properly designed. Outdoor ranges pose risks to area residents not to mention high volume of noise complaints and annoyed neighbors.
- **Stamford**: Because we currently utilize Wooster Mountain as our primary outdoor range and the availability is very limited.
- **Watertown**: We have an outdoor range; it would be nice to have access to an indoor
- **Housatonic Community College:** Weather
- **Milford:** Better for all seasons
- **CT Encon Police DEEP:** Longer range, rifle, realism
- **Weston:** An indoor range would be able to accommodate 24/7 training 365 days a year.
- **Western Connecticut State University**: Greater distance (Rifle), availability to use chemical munition discharge (i.e., Smoke grenades)
- **Redding:** More versatile
- **Danbury**: Rifle capabilities should be a priority. Handgun can be done as well
- **Weston:** Provides for the ability to have training 24/7 year-round. This allows for more training opportunities throughout the day, and over the course of the year.
- **Fairfield:** Versatility
- **Easton**: Year-round use, no need to worry about weather. Reduces noise to the surrounding neighborhood.
- **Easton**: Although maintenance/costs are higher, it would reduce the noise complaints and it could be utilized year around
- **Shelton**: Weather
- **Newtown**: An indoor range increases the available use due to weather and residential sound restrictions.

• INDOOR RANGE

Question 5: What is the minimum number of lanes needed?

Answered: 23

Skipped: 0

Responses:

- **Norwalk:** 6
- **Aquarion Water Police**: As many as possible
- **Danbury**: 4
- **Greenwich**: Minimum of 25 yards wide by 100 yards deep
- **Bethel**: Depends on who is interested, size of department. I said minimum of 6.
- **Norwalk**: 12
- **Stamford**: 6-8
- **Watertown**: 6
- **Wilton**: 4
- **Housatonic Community College**: 8
- **Milford**: 4
- **CT Encon Police DEEP**: 6
- **Weston**: 10
- **Darien**: 10
- **Western Connecticut State University:** 10
- **Redding**: 8
- **Danbury**: 12
- **Weston**: 8
- **Fairfield**: 6
- **Easton**: 15
- **Easton**: 15
- **Shelton**: Shelton has 4 lanes
- **Newtown**: 10

<u>Question 6:</u> Check the capabilities needed.

Answered: 23

Skipped: 0

Answers:

Handgun: 23 (100%)

Shotgun: 16 (69.57%)

Rifle: 19 (82.61%)

Others: 4 (17.39%) See Below

Responses:

- **Bethel**: Up to .308 capability or don't build it
- **Norwalk**: A filtering system that can handle gas training
- **Western Connecticut State University:** Less lethal projectile, and SWAT needs (Chemical launch, flash bang…)
- **Redding**: Less Lethal Projectile

Question 7: Check the type of target system needed or preferred.

Answered: 23

Skipped: 0

Answers:

Static – No Movement: 11 (47.83%)

Dynamic – Movement/Rotation: 17 (73.91%)

Retrieval – Trolley wire/rail system: 11 (47.83%)

Question 8: Check the distances needed.

Answered: 23
Skipped: 0

Answers:

1-25 yards: 5 (21.74%)

1-50 yards: 19 (82.61%)

Other: 3 (13.04%)

Responses:

- **Aquarion**: Rifle. 100 yards
- **Greenwich**: 1-100 yards minimum
- **Norwalk**: 100 yds. would be better

Question 9: List any other requirements for an indoor firing range.

Answered: 13

Skipped: 10

Responses:

- **Norwalk**: Ability for safe low-light shooting
- **Aquarion**: Ability to conduct lowlight training
- **Danbury**: Low Light and No Light capabilities
- **Greenwich:** Backstop/berm rated for rifle fire
- **Bethel:** Excellent air handling unit built to Navy specs
- **Norwalk:** Adjustable lighting systems for low/no light training
- **CT Encon Police DEEP**: Strobe lights for low light scenario simulations
- **Darien**: Ability to move side to side
- **Western Connecticut State University:** Availability to have low light, no light, and emergency cruiser flashing light. Moveable walls and doors to construct simulated room, for practicing building entry
- **Redding**: Simulation, classrooms
- **Danbury**: Ability to get a vehicle inside – strobes – pneumatic targets
- **Easton**: Ventilation system, appropriate parking, security if anything is stored on site
- **Shelton**: Ventilation

OUTDOOR FIRING RANGE

Question 10: What is the minimum number of lanes needed?

Answered: 20

Skipped: 3

Responses:

- **Norwalk:** 12
- **Danbury**: 8
- **Greenwich**: 25 yards wide by 100 yards deep
- **Bethel**: 10
- **Norwalk**: 15-20
- **Stamford**: 6-8
- **Watertown**: 6
- **Wilton**: 4
- **Milford**: 4
- **CT Encon Police DEEP**: 6
- **Weston**: 15
- **Darien**: 10
- **Western Connecticut State University:** 10
- **Redding**: 8
- **Danbury**: 20
- **Weston**: 12-15
- **Fairfield**: 10
- **Easton**: 15
- **Easton**: 15
- **Newtown**: 10

Question 11: Check the capabilities needed.

Answered: 20

Skipped: 3

Answers:

Handgun: 20 (100%)

Shotgun: 18 (90.00%)

Rifle: 20 (100%)

Others: 5 (25.00%) See Below

Responses:

- **Bethel**: .308 or bust
- **Norwalk**: Gas

- **Western Connecticut State University:** Less lethal projectile launch. SWAT needs flash bangs, chemical munition deployment
- **Redding**: Less Lethal Projectile
- **Danbury**: Less lethal, gas deployment

Question 12: Check the type of target system needed or preferred.

Answered: 20

Skipped: 3

Answers:

Static – No Movement: 15 (75.00%)

Dynamic – Movement/Rotation: 15 (75.00%)

Retrieval – Trolley wire/rail system: 3 (15.00%)

Responses: None

Question 13: Check the distances needed.

Answered: 20
Skipped: 3

Answers:

1-50 yards: 4 (20.00%)

1-100 yards: 12 (60.00%)

1-200 yards: 7 (35.00%)

Other: 2 (10.00%) See below

Responses:

- **Norwalk**: minimum 50 yards, but 100 yards would be nice for sniper training

- **Danbury**: Rifles need yardage for distance

Question 14: List any other requirements for an outdoor firing range.

Answered: 10

Skipped: 13

Responses:

- **Norwalk**: Restrooms, tables, covered areas for paperwork, tests, breaks, etc.
- **Danbury**: Overhead coverage
- **Greenwich:** Backstop/berm rated for rifle fire
- **Bethel:** "Classroom" area or trailer to teach and to get out of elements
- **Norwalk:** Must be able to train with gas and possibly have a live fire shoot house like Milford
- **CT Encon Police DEEP**: Housing structure for classroom instruction, PowerPoint etc.
- **Weston**: Bathrooms, an indoor classroom, PA System
- **Darien**: Parking, barriers, ability to move
- **Western Connecticut State University:** Equipment on site for range clean up (rollers, blowers...)
- **Redding**: Outbuildings, obstacles
- **Easton**: Parking, brass collection system, noise reduction landscaping, classroom, proper drainage

Question 15: Provide any additional input regarding a shared/regional Firing Range

Answered: 6

Skipped: 17

Responses:

- **Aquarion**: While we currently have a proprietary range for our agency use only, this is always subject to change. I know that many other area PDs in Fairfield County lack a range facility.
- **Danbury**: Scheduling coordination

- **Norwalk**: Between all of the training officers and F/A instructors in Fairfield County we have a tremendous depth of talent. Should be no problem staffing said facility.
- **Western Connecticut State University:** Each department should have shared responsibilities, and access of the range. A board of directors similar to existing training associations should be established.
- **Danbury**: Range needs will vary with department size; scheduling will be challenging to meet everyone's needs
- **Easton**: personnel assigned to handle scheduling, download barrels and also a location to handle the disposal of ammunition that doesn't fire (bad primer).

REGIONAL TRAINING FACILITY

Question 16: Please list any location with the potential to be used for a Training Facility. This could include a government building, private building not in use (e.g., large office building, store, etc.). Provide as much information as possible such as physical address, owner, contact information, why the location may be an opportunity, etc.

Answered: 5

Skipped: 18

Responses:

- **Aquarion**: Unknown
- **Stamford**: SPD Firearms Range, 725 Bedford Street, Stamford, CT 06901
- **Western Connecticut State University:** Wooster Mountain Gun Club, 74 Sugar Hollow Rd, Danbury CT
- **Easton**: None
- **Newtown**: 63 S. Main St, Newtown, CT 06470 Owner: Taunton Press, Large Office building that is currently for sale. Newtown GIS Link: https://newtown.mapxpress.net/ags_map/default.htm?GIS_LINK=37-2-5

Question 17: Do you know of any plans, formal or informal, that have been developed for a regional Training Facility? If yes, provide a copy of the plan or contact information.

Answered: 20

Skipped: 3

Answers:

No: 20 (100.00%)

Question 18: Classroom

Answered: 20

Skipped: 3

Answers:

Number of Classrooms: 5 (25.00%)

Seating Capacity: 12 (60.00%)

List other requirements: 3 (15.00%)

Responses:

- **Aquarion**: As many as possible!
- **Stamford**: 20
- **Newtown**: 50 seats minimum, preferably 125

Question 19: Defensive Tactics Room

Answered: 11

Skipped: 12

Responses:

- **Norwalk**: min 25'x25'

- **Aquarion**: Yes! We want this too
- **Norwalk**: Definitely need a mat room
- **Greenwich**: 1,500 square feet
- **Bethel**: Big
- **Stamford**: 40 x 40
- **CT Encon Police DEEP:** 20'X30'
- **Darien**: 30x30 at least
- **Western Connecticut State University:** matted area large enough for DT training. Allowing movement, group participation...
- **Easton**: 2-3 rooms
- **Newtown**: 40 x40

Question 20: Driving Simulator Room

Answered: 6

Skipped: 17

Responses:

- **Norwalk**: Whatever the simulator will fit into
- **Aquarion**: Yes, please
- **Greenwich**: As per manufactures recommendations
- **Bethel**: space for the simulator...
- **Western Connecticut State University:** enough space for several simulators and debriefing/assessment
- **Newtown**: 20 x 20 room

Question 21: Shoot/Don't Shoot Simulation Room

Answered: 7

Skipped: 16

Responses:

- **Norwalk**: see above

- **Aquarion**: Another Yes response
- **Norwalk**: Less of an issue. We should be doing force on force.
- **Greenwich**: As per manufacturer's recommendations
- **Bethel**: Able to use Simunitions and moveable walls
- **Western Connecticut State University:** Controlled, secure space which allows for movement, and teacher student(s) review
- **Newtown**: 20 x 20 room

Question 22: List any other comments or suggestions for a shared or regional Training Facility.

Answered: 2

Skipped: 21

Responses:

- **Western Connecticut State University:** Secure parking area
- **Easton**: Must be able to handle PowerPoint, WIFI access, have an adequate sound system, break out rooms for small group or active shooter simulation drills. 2 or more bay garage to store regional vehicles. Key FOB security system to allow departments access that is trackable.

Appendix 4 – FCPTOA Range Specifications

Fairfield County Police Training Officers Association

Lt Richard Montefusco

WCSU Police Department

Danbury, CT 06810

Winbourne Consulting, LLC

The following specifications are based on a survey which was distributed to the 36 agencies within our training organization. This survey was created by Winbourne Consulting in conjunction with the FCPTOA. All specifications come directly from our training officers and range officers based on current best police practice, as well as historical and current use trends.

PLAN 1

Basic Indoor firearms training facility

- Minimum 50-yard length
- 15 lanes @ minimum 54' width
- Lanes one and fifteen must have minimum 2' on outside edges beyond the lane edge
- Rubber berm bullet trap
- Fire retardant treated rubber
- Capable to include .9, .40, .45, 223 .308, 12-gauge caliber ammunition
- Maximum ¾" nominal granule size
- Armored hopper for rubber feed
- Sound abatement panels
- Full length on sidewalls, overhead and back wall
- Sound abatement design to limit reverberation time to less than 1.5 seconds

- Fully baffled and armored ceiling (Fully Tactical Range), appropriate for the specified round
- Ventilation system adequate to maintain a safe environment as defined by NIOSH and OSHA, and for use with lead ammunition
- Climate control throughout the facility
- Full dimmable range and target lighting, all LED, to allow for training at light levels from full on, or to simulate night fire
- Red and blue LED strobes, similar to those used on emergency vehicles, throughout the range to simulate law enforcement operating conditions
- Public address system to allow instructors to communicate with range users at any location on the range floor
- Bathrooms, universal to accommodate 20 persons.
- Emergency eye wash station / shower
- Weapon cleaning room for 15 officers.
- Mechanical room
- Storage room

Classroom to seat 25 students

- Commercial grade movable tables
- Commercial grade movable chairs
- Instructor podium
- TV / Audio system for in person or virtual training
- Gym style wall padding from floor to 6'
- Gym style rubberized floor
- Dimmable lighting
- Office to accommodate two (2) desk suites with (2) associated commercial grade desk suites

PLAN 2

Moderate Indoor firearms training facility

- Minimum 75-yard length
- 20 lanes @ minimum 54' width
- Lanes one and twenty must have minimum 2' on outside edges beyond the lane edge
- Rubber berm bullet trap
- Fire retardant treated rubber
- Capable to include .9, .40, .45, 223 .308, 12-gauge caliber ammunition
- Maximum ¾" nominal granule size
- Armored hopper for rubber feed

- Sound abatement panels
- Full length on sidewalls, overhead and back wall
- Sound abatement design to limit reverberation time to less than 1.5 seconds
- Fully baffled and armored ceiling (Fully Tactical Range), appropriate for the specified round
- Ventilation system adequate to maintain a safe environment as defined by NIOSH and OSHA, and for use with lead ammunition
- Climate control throughout the facility
- Full dimmable range and target lighting, all LED, to allow for training at light levels from full on, or to simulate night fire
- Red and blue LED strobes, similar to those used on emergency vehicles, throughout the range to simulate law enforcement operating conditions
- Public address system to allow instructors to communicate with range users at any location on the range floor
- Bathrooms, universal to accommodate 50 persons.
- Emergency eye wash station / shower
- Weapon cleaning room for 20 officers.
- Mechanical room
- Storage room

Classroom to seat 50 students

- Commercial grade movable tables
- Commercial grade movable chairs
- Instructor podium
- TV / Audio system for in person or virtual training
- Gym style wall padding from floor to 6’
- Gym style rubberized floor
- Dimmable lighting
- Office to accommodate two (2) desk suites with (2) associated commercial grade desk suites

Sincerely,

Lt Richard Montefusco, committee chairman

President: Lt Dave Kullgren **Vice President:** Officer Tim Fedor
Treasurer: Lt Mike Libertini **Secretary:** Sgt Steve Stanko
www.FCPTOA.org

Appendix 5 – Gun Range Construction ROM Quote

Gun Range Construction's ROM estimate is shown below *as received* in email from Rob O'Bryant:

For the 50-yard plan with 15 lanes at 54"W, totally tactical, with 3/8" AR500 steel in the overhead baffles (as generally required for rifle rated ranges and most used on LE ranges), open architecture (meaning no shooting stalls/tables or target retriever systems).

For range equipment with freight and complete installation ~ $1,350,000

Ventilation/Filtration w/heat & AC ~ $ 490,000

For the 75 yard plan with 20 lanes at 54"W, (all other remaining the same)…

For range equipment with freight and complete installation ~ $2,600,000,
Ventilation/Filtration w/heat & AC ~ $ 700,000

Being a dynamic (tactical) range where the shooter(s) move to the target, a lot of LE ranges are using a fixed overhead mounted, wireless, programmable, turning target system mounted down at the bullet trap with master controller for the trainers to control individual targets or all at once. The specs you sent do not call for any targeting system but below is some rough pricing to add a system like this.

To add something like this to the 50-yard range with 15 lanes…~ $100,000

75-yard range with 20 lanes…~ $130,000

For building design, we are commercial general contractors and design and build ranges around the country for law enforcement and commercial. We can work through our team of architects and engineers to design the building or work with the customer's team to install the range and ventilation at the appropriate time.

Very loose SF pricing for such a building, as they have it listed is going to be ~ $175 SF (and that is purely a guesstimate without plans and my construction team looking over)."

ROM quote received from:

Rob O'Bryant

Rob@gunrangeconstruction.com

https://www.gunrangeconstruction.com/

Appendix 6 – InVeris Training Solutions

InVeris Contact:

Ryle Williams
Northeast US/CA Commercial/LE Live Fire Sales
InVeris Training Solutions
Formerly Meggitt Training Systems
296 Brogdon Road
Suwanee, GA 30024
USA
Cell: (470) 266-7714
Customer Support: 1-800-344-6771
ryle.williams@InVerisTraining.com

Website: InVeris Training Solutions - virtual and live fire weapons training systems

Appendix 7 – Fairfield County Police Officers Training Association (FCPTOA) Working Group

The FCPTOA president, Lt. David Kullgren of Newtown Police Department, formed a working group for this project and extended the survey to his officers.

Email from Lt. Kullgren:

Here are the range officers who have offered to be in your focus group for the Range Project. We would like Lt. Rich Montefusco (Western Connecticut State University) to be the spokesperson for FCPTOA. He can chair this committee and report back to our association with any questions or concerns.

- Richard Montefusco montefuscor@wcsu.edu 203-627-8130 - spokesperson
- Charles Carr ccarr@westportct.gov 203-341-6006
- Mike Ruttenber mruttenber@westportct.gov Cell: 910-382-5625
- Matt Georgoulis matt.georgoulis@danbury-ct.gov
- Anthony Signore asignore@rpdct.us
- Andrew Mastroianni amastroianni@darienct.gov 203-662-5336
- Officer Juan Esquilin Juan.Esquilin@bridgeportct.gov Officer (203) 576-3919 Mobile (203) 257-5698
- Robert Ferretti Robert.Ferretti@greenwichct.org 203.633-3301
- Dru Sin dsin@newmilfordpolice.org 573-855-0236

Appendix 8 – Local Contacts for Future Assistance

Bridgeport Police Department contacts are:

- Lt. Paul Grech Paul.Grech@bridgeportct.gov 203-576-6610, 203-275-6625
- Officer Juan Esquilin Juan.Esquilin@bridgeportct.gov 203-576-3919, Mobile 203-257-5698

Westport Police Department contact:

For property at 726 Union Avenue, Bridgeport, contact: Staff Corporal Charles Carr, Training Division, Westport Police Department, W: 203.341.6006, Cell: 203-814-6849 or email: ccarr@westportct.gov

Appendix 9 - FAQ

1. Who makes the final decision on where the range will be located or size of the range? The project council will finalize this; however, communities are not beholden by any contract to participate.
2. Who makes the final decision on what will be included in the state grant? The project council will ultimately figure out the size and specs for the firing range. Status on the grant and range specs will be shared regularly on WestCOG's project page and email updates on project status will be sent to this email group and whoever else joins the mailing list. Comments can be provided as well for council consideration.
3. What is Plan B if WestCOG does not receive the state grant? If WestCOG does not win this grant, we would have resolved a lot of the specs and scoping for the project. Investment from communities or by donations would be the remaining options. The charitable donations could be managed through WestCOG Foundation. We'd make a public safety branch of the foundation and prepare a case for potential donors.
4. What level of commitment from the town and department leadership from this meeting? This meeting we collect verbal commitment to be involved. For the grant we are looking for letters of support that explain the community is committed and invested in the success for the firing range(s) through technical support, and funding. These letters of support will be needed before the grant is submitted on 6/2/2022 but by 4/29/2022 would be preferable, then we can know who is in as we finalize specs. Mike Towle and members of the project council will follow up with communities to collect these letters.
5. How do we handle more communities joining? Communities have until 4/29/2022 to express an interest in participating to be considered for site planning.

Appendix 10 - Survey - Firing Range Capacity

18 responses were collected. Questions from the survey are provided below.

Survey Questions
Timestamp
Name of the Facility
Is the range indoors, outdoors, or both?
How many firing range lanes does the facility have?
What is the maximum range of the firing range facility?
Is the range designed for rifle training?
What days is the firing range available for use?
What are the operating hours?
Is your range open to other agencies to use?
If "Yes", is access limited? (explain)
Is the range at capacity?
Is this firing range designed for tactical training?
Comments

Survey Link

https://forms.gle/iM379gTPZJTzqvQg9

Appendix 11 - Letters of Support

17 letters of support collected for Congressional Community Project Funding. They include:

Town of Bethel, Bridgeport Police Department, Bridgewater and Roxbury Police, Town of Brookfield, Brookfield Police Department, Darien Police Department, Fairfield County Police Officer Training Association (FCPOTA), Greenwich Police Department, Town of Newtown, Newtown Police Department, Newtown Police Department, New Milford, Norwalk Police Department, Redding Police Department, Ridgefield Police Department, Stratford Police Department, Western Connecticut University Police Department, Wilton Police Department.

Sample Language

RE: Western Connecticut Regional Firing Range Letter of Support

Dear [TARGET AUDIENCE],

This letter indicates [AGENCY NAME] support for the Western Connecticut Council of Governments' application for the Western Connecticut Regional Firing Range as a Community Project Funding Request.

Western Connecticut police departments are at risk of not meeting compliance for firearm training and are straining existing resources (at an increased cost) to meet these requirements. Existing firearm training facilities are at capacity and have limited capabilities (such as not being designed for rifles). Connecticut police departments are also ramping up training to meet new training requirements outlined in the PA 20-1 Police Accountability Bill (such as de-escalation and use of force training). Constructing training facilities is beyond the financial constraints of most communities. The construction of an indoor regional training facility would make costs more manageable

Community Project Funding would allow for the first Connecticut Regional Firing Range for municipal department use. The range would serve as a model for future regional initiatives that allow for enhanced training despite lighting or weather conditions while addressing noise and environmental concerns often associated with firearm training facilities (and at reduced overall cost).

[AGENCY NAME] looks forward to the opportunity that this project presents for the public safety and training of police officers in the region. WestCOG has our full support for this endeavor.

Sincerely,

[SIGNATURE]

Appendix 12 - Location Analysis

Location is the most important decision of a range project and a thorough professional site analysis is a necessity. The location should not only fit the needs of today, but also allow for future needs 5, 10, 15 years from now.

Neighborhood Opposition

There is potential for neighborhoods to oppose a firearm training facility. Community engagement is important to educate citizens regarding modern range construction which includes noise baffling and environmentally sound hazardous waste removal and disposal. Additionally, some neighborhoods may benefit from increased security with constant police presence.

Potential Locations for New Regional Range/Training Facility

A number of facility locations were raised over numerous meetings each with varying levels of potential, from casually mentioned to seriously contemplated. Each is detailed below.

Newtown 1: Newtown reported they own property that was intended for a range, but the range is on hold indefinitely due to lack of funding. If WestCOG acquired funding to build a range on the Newtown property, they "will make it happen." The property is located at 191 S. Main St, Newtown, CT, 06470. Owner: Town of Newton, CT.

Newtown 2: Another location in Newtown was reported as a possible site for a Training Facility: 63 S. Main St, Newtown, CT 06470 Owner: Taunton Press. It is a large office building that is currently for sale. Newtown

Wilton 1: Wilton identified their transfer station as a potential site as it currently offers limited outdoor shooting. The location is moderately remote from residential locations and has geographic features to help contain potential sound. Additionally, the space has been used for 20 years without complaint. Current regulations only allow shooting 10 days a year and when school is in session.

Wilton 2: The property is adjacent to train property and Wilton owns the property. It is close to other residential properties. There may be environmental clean up needed. The size is limited but might be enough to suffice.

Wilton 3: Wilton Police Station was mentioned without further discussion.

Danbury: Wooster Mountain Shooting Range is a common firearm training facility used by numerous departments.

Redding: Wire Mill Property, is a centralized property in the region. However the location is planned for mixed use development and will require substantial environmental clean up. This site is unlikely.

Ridgefield 1: Ramapoo Rifle & Revolver Club in Ridgefield is an existing indoor private range.

Ridgefield 2: A second location in Ridgefield was shared, details pending.

Norwalk: Fairfield County Firearms & Archery

Bethel: Bethel Police Department has a shell for its own firearm training facility.

New Canaan: New Canaan has considered plan to build their own firearm training facility near their Police Department.

Westport: Westport has developed a personal range, but no discussions with Westport have occurred regarding regional usage.

Darien: Darien Police Department currently has a small range within their police department. It is considered too small for consistent regional usage. It also has limited shooting scenarios.

Stamford: Stamford Police Department was added for exploratory options only, as Stamford has the highest number of sworn officers in the region. No discussions within the working groups regarding a Stamford Firearm training facility have taken place as of the printing of this blueprint.

Bridgeport: The owners of property at 726 Union Avenue, Bridgeport contacted the Westport Police Department. The owners would like it to be considered for possible development. The property was scouted and found to be "massive", and an aerial photo is shown below. Westport reported the property has potential, but further research is required to ensure it meets the needs of a regional range. This property also has interest from private investors such as Tim Kennedy owner of Sheepdog Response. The property owners have an interest as well. This may be an option for Bridgeport to capitalize with their existing resources and interested private funders.

Location Analysis Methodology

WestCOG performed a location analysis to quantify travel times to potential firearm training facility against from police departments and police officer origin points. The analysis aims to provide insight for two scenarios of locating a firearm training facility where:

1. Officers report to Police Department before traveling to the range.
2. Officers can report to the range from their origin point.

The first option is currently in practice and requires officers to pick up and drop off materials from the police department before heading to the firearm training facility. Also, for many departments, reporting to the department is a requirement for officers to receive compensation for travel time or milage reimbursement. Officer count data was collected by survey and where not available drawn from a 2018 report.

The second option allows officers to report to a firearm training facility directly from their origin point (home). In this scenario the officer would have to have access to firearm training facility resources, potentially in storage or picked up earlier from their department. This option could offer additional convenience by aligning with commute paths. Data was collected from 10 of the 18 communities (Wilton, Newtown, Darien, New Fairfield, Ridgefield, Weston, Bridgewater, Norwalk, New Milford, Redding) regarding officer origin locations. It is clear most officers originate from outside the region, around 1,000 of the 1,200 officers as depicted in Figure 1.

Shortest Travel Time

When calculating the geographic location with the lowest travel times by all officers starting from their respective department, Wilton was identified as the top location. When using officer origin points as the start, a location in Newtown was identified as having lowest commute time. These "Best-Fit" geographic locations are based on census blockgroup centroids and do not account for traffic patterns or time of the day. Conveniently, these Best-Fit locations occur near proposed firearm training facility locations with the Wilton Location occurring nearly on top of the Wilton Transfer Station and within 2 miles of two Newtown locations (Taunton Press, and 191 Main St). The Best-Fit locations are depicted in figure 2 and figure 3.

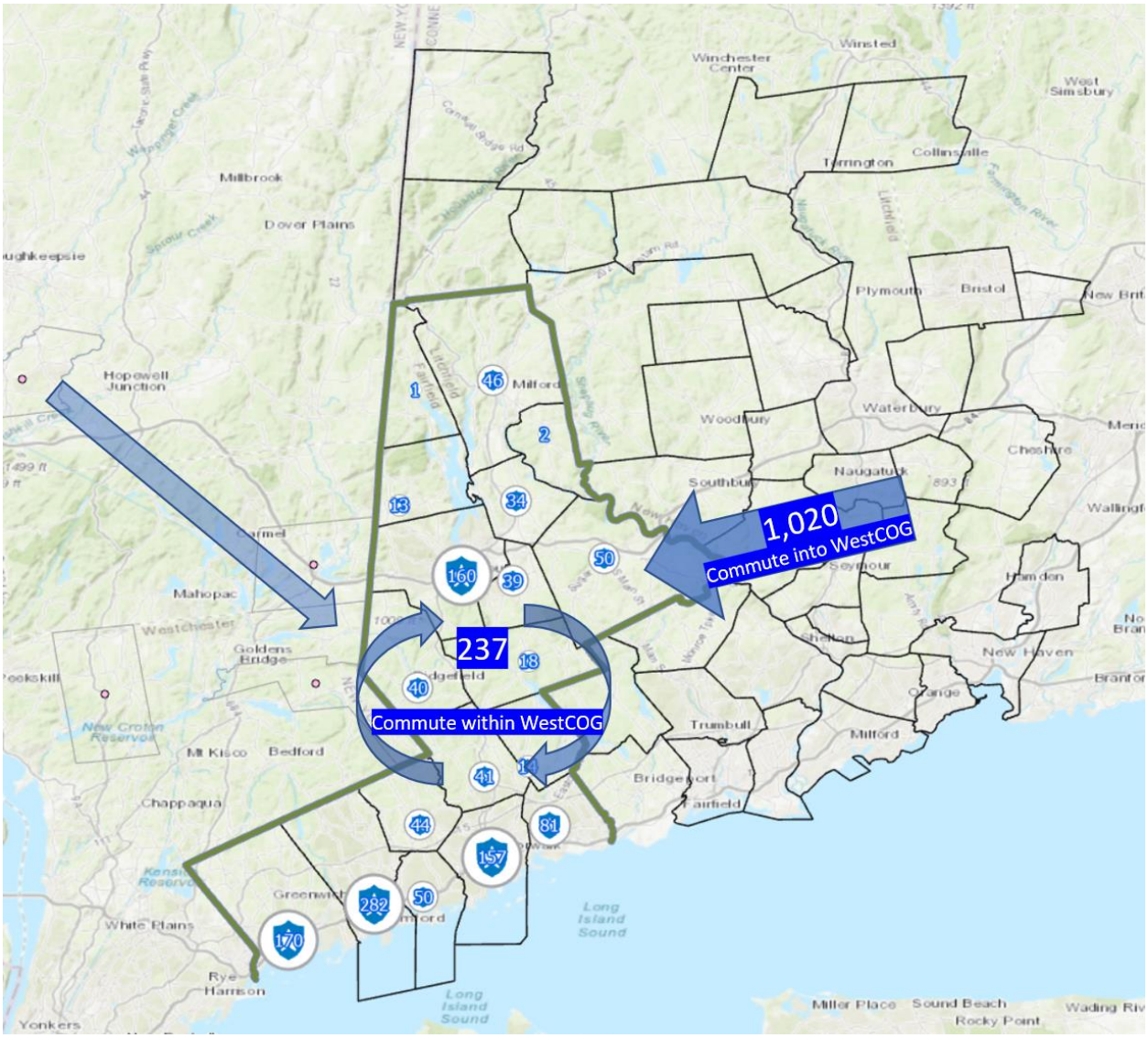

Figure 1 Travel patterns of police officers serving in the WestCOG region. The majority come from eastern communities of WestCOG.

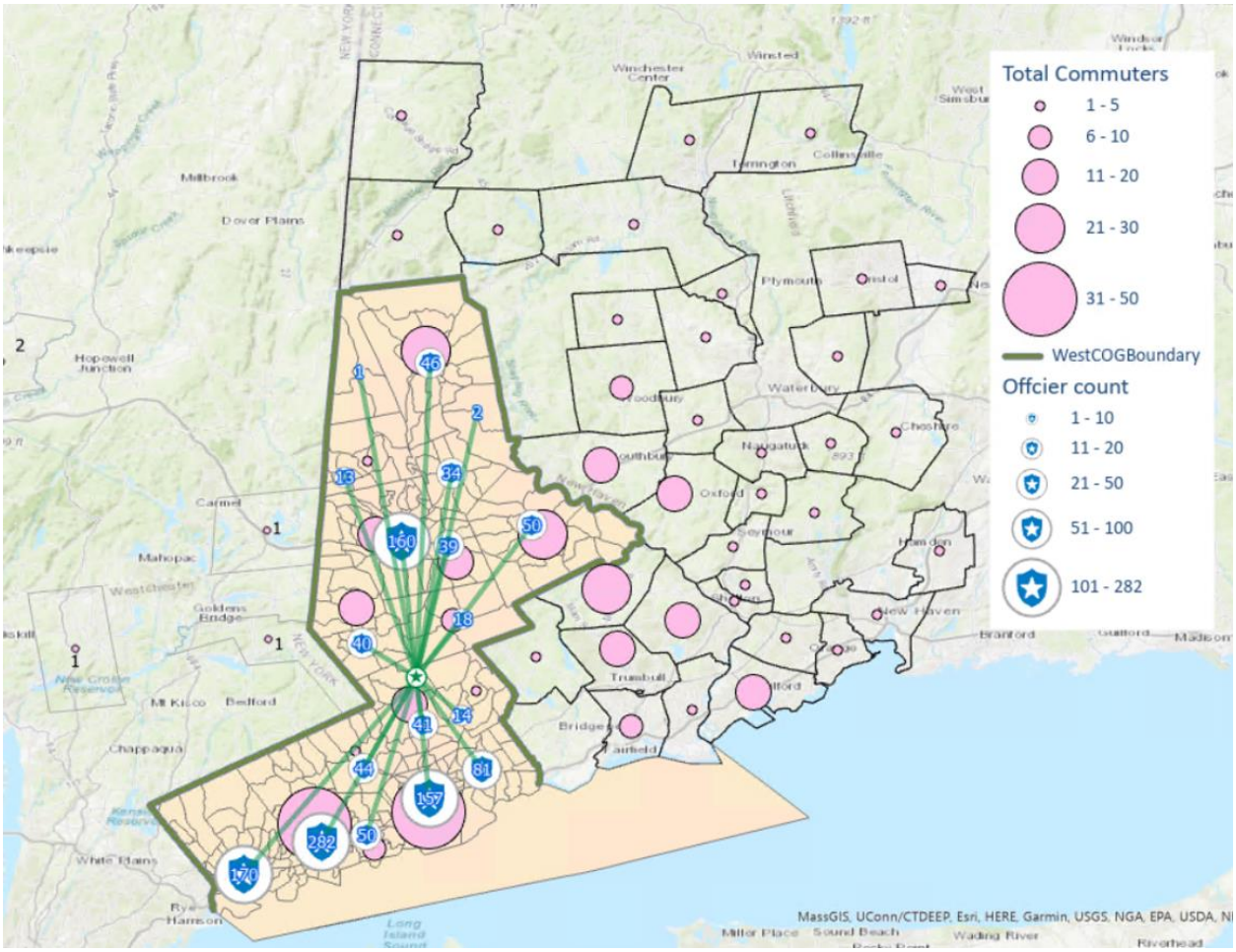

Figure 2 The geographic centroid for a firearm training facility determined by police departments weighted by the number of sworn officers.

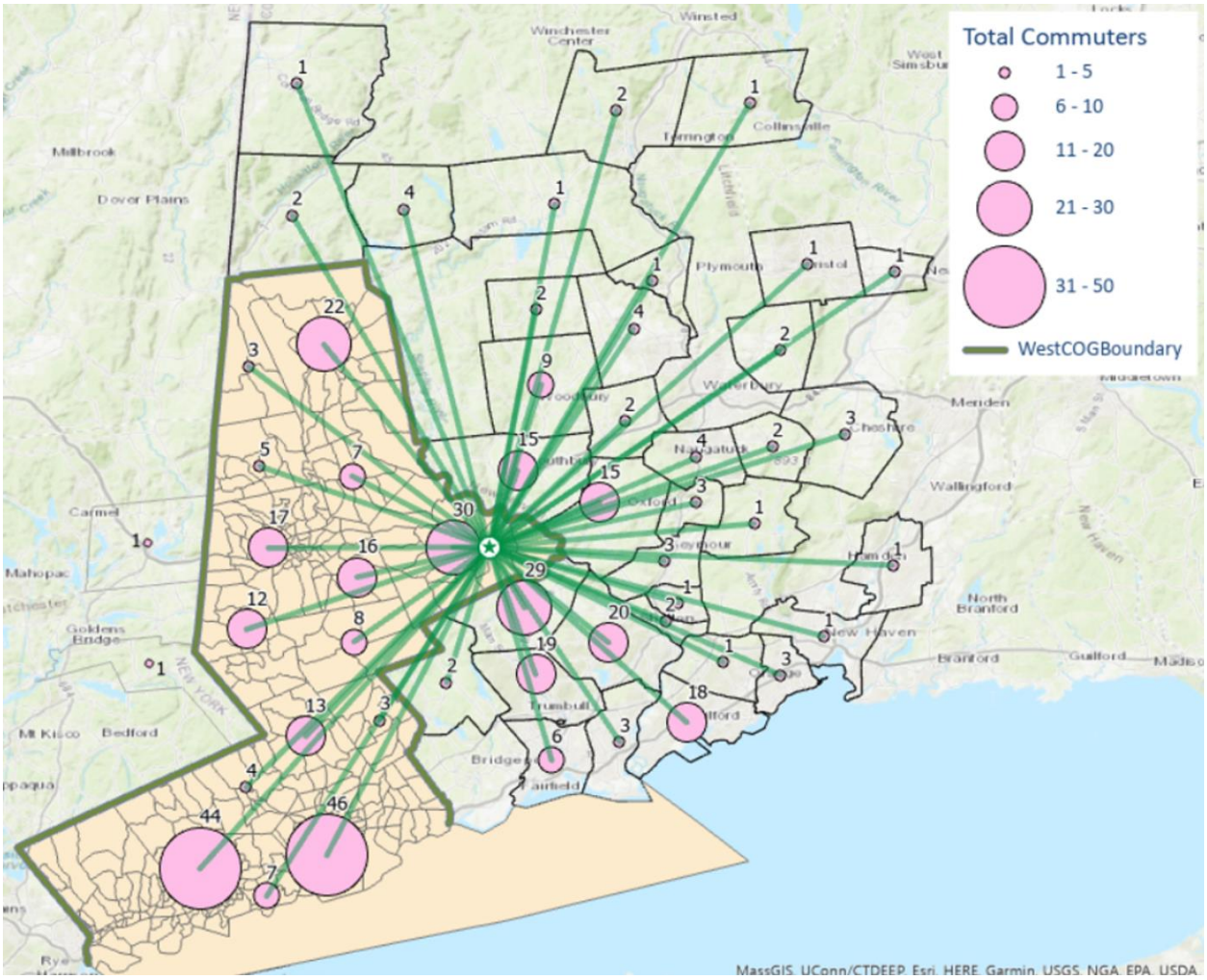

Figure 3 The geographic centroid for a firearm training facility determined by officer origins weighted by the number of sworn officers

Potential Firearm Training Facility Travel Times

To compare travel times for the proposed firearm training facility locations the median travel time (not weighted) and travel time for all officers were calculated in the table below. The median considers the travel time from a given facility to all possible police departments (figure 4) and for all possible officer origin points (figure 5). Then to account for the varying number of sworn officers for each municipality the sum of their collective travel between the firearm training facility and department (figure 4) or firearm training facility and officer origin points (figure 5). The results are sorted by the lowest median travel time. Lowest values are presented as bold. The sum values are also presented in hours and days for more manageable statistics to discuss.

Department Analysis. The Wilton Transfer Station has the lowest median value and is the 2nd lowest sum value (1% larger than the minimum).

Officer Origin Analysis. The Taunton Press site has the lowest median value and is the 2nd lowest sum value (3% larger than the minimum).

Department to Facility Travel Times (min)					
Facility	**Location**	**Median**	**Sum**	**Hours**	**Days**
Wilton Transfer Station	Wilton 1	**23.2**	27,790	463.2	19.3
Wooster Mountain Shooting Range	Danbury	24.0	32,272	537.9	22.4
Wire Mill Property	Redding	25.1	28,849	480.8	20.0
Wilton Police Department	Wilton 3	25.9	**27,459**	**457.6**	**19.1**
Wilton Adjacent Train Property	Wilton 2	26.1	28,255	470.9	19.6
Ramapoo Rifle & Revolver Club	Ridgefield	26.1	35,521	592.0	24.7
Fairfield County Firearms & Archery	Norwalk	26.3	31,150	519.2	21.6
Bethel Police Department	Bethel	26.6	36,944	615.7	25.7
New Canaan Police Department	New Canaan	29.1	36,389	606.5	25.3
Westport Police Department	Westport	30.3	33,354	555.9	23.2
Darien Police Department	Darien	34.1	35,342	589.0	24.5
191 S. Main Street	Newtown 1	35.4	46,082	768.0	32.0
Taunton Press Office Building	Newtown 2	37.2	46,533	775.5	32.3
Stamford Police Department	Stamford	39.9	40,522	675.4	28.1
Union Ave. Facility	Bridgeport	41.1	49,248	820.8	34.2

Figure 4 Department to Facility Travel times in minutes. Sorted by lowest median value.

Officer Origin to Facility Travel Times (min)					
Facility	**Location**	**Median**	**Sum**	**Hours**	**Days**
Taunton Press Office Building	Newtown 2	**37.6**	13,705	228.4	9.5
191 S. Main Street	Newtown 1	40.2	**13,306**	**221.8**	**9.2**
Wooster Mountain Shooting Range	Danbury	44.6	15,041	250.7	10.4
Union Ave. Facility	Bridgeport	44.9	15,499	258.3	10.8
Bethel Police Department	Bethel	45.9	14,736	245.6	10.2
Wire Mill Property	Redding	46.6	15,211	253.5	10.6
Wilton Adjacent Train Property	Wilton 2	46.6	15,126	252.1	10.5
Wilton Police Department	Wilton 3	46.7	14,685	244.8	10.2
Wilton Transfer Station	Wilton 1	46.8	15,129	252.2	10.5
Westport Police Department	Westport	47.2	15,630	260.5	10.9
Fairfield County Firearms & Archery	Norwalk	48.3	15,826	263.8	11.0
Ramapoo Rifle & Revolver Club	Ridgefield	52.1	16,703	278.4	11.6
New Canaan Police Department	New Canaan	53.1	17,933	298.9	12.5
Darien Police Department	Darien	54.2	18,226	303.8	12.7
Stamford Police Department	Stamford	60.2	20,520	342.0	14.3

Figure 5 Travel time in minutes for officer origin locations to facilities. Sorted by lowest median value.

Findings

Wilton Transfer Station is Well Placed. The transfer station is almost an exact match to the geographic best fit location for the Department focused analysis. Even for the Officer Origin analysis the Wilton facility performed close to the minimum sum of travel time (12% less than the minimum)

Officers Reside East of the Region. Many of the officers live just east of the WestCOG region with limited officer counts originating in New York.

Greenwich, Stamford, Norwalk Skew Data South. Greenwich, Norwalk, Stamford represents 50% of the 1200 officers in the WestCOG region and skews the data in favor of the south. Despite the advantage the centrally located Wilton Transfer Station was a top performer in the analysis.

The case is for officer origins is limited. When comparing the median values between each analysis, the minimum travel median for the department analysis is 40% less than the Officer Origin minimum median. If additional analysis is desired, a study comparing the commuting patterns could identify firearm training facilities along commuting patterns of officers. It worth noting there is no certainty regarding where future officers may choose to reside. This analysis may be substantial if the region considered a passport model where officers can access multiple firearm training facilities within the region for training.

Appendix 13 - Bridgeport Police Department Firing Range Equipment Inquiry.

In March 2021, the president of FCPTOA referred Winbourne to Bridgeport Police Department, a member of the FCPTOA. Bridgeport PD had been tasked with building an indoor range, but an appropriate location could not be agreed upon.

Bridgeport PD purchased over $776,000 of firearm training facility equipment that has been stored in the original packaging.

Bridgeport reported the location of a firearm training facility has the potential to be a political issue. Some citizens do not want a range in their area, regardless of the quality of range construction/sound elimination or positive influence of police presence in the area.

The exact condition of the equipment is unknown since it has remained in storage since purchase in 2013. Bridgeport PD staff was able to obtain copies of the original purchase orders/invoices for the equipment but did not compare these to the actual stored equipment. Numerous attempts were made to verify the inventory; this could be addressed again in the future. The vendor is: Action Target, Provo, UT 84606, 801-377-8033 https://actiontarget.com/.

If a regional range is constructed close to Bridgeport, they offered their unused equipment as a possible option for use (saving funds). During a meeting on March 29, 2021, Bridgeport Chief Rebeca Garcia said she supports the concept. She planned to meet with Bridgeport management to gain political support and direction for this plan.

Since they could not gain access to the actual inventory, Bridgeport PD staff contacted Action Target to obtain details on the previously purchased equipment. Action Target provided invoices from 2013. A table of the invoice information is below.

Bridgeport has not confirmed any agreement for partnership. They may be a good fit to work with private investors to provide firearm training facility materials for a range in Bridgeport.

There are concerns that the Bridgeport resources are an unknown factor regarding condition and functionality, now that they are 10 years old in storage.

Bridgeport Police Department Range Equipment Purchase			
PO 1302165-00			
5/3/2013	Action Target	Complete line of fire range system	$ 73,000.00
		Complete high-power match shoot house	$ 195,000.00
		Complete factory installation	$ 30,000.00
		Shipping/handling	$ 6,215.00
Invoice Total			**$ 304,215.00**
PO 1302166-00			
5/3/2013	Action Target	Roof structure canopy for complete line of fire range	$ 214,000.00
		Backstop/bullet trap	$ 34,305.00
Invoice Total			**$ 248,305.00**
PO 1302167-00			
5/3/2013	Action Target	Ventilation system $13,500 per lane x 12	$ 162,000.00
		Bullet trap/back stop $2691.50 per lane x 12	$ 32,298.00
Invoice Total			**$ 194,298.00**
PO 060388			
6/25/2012	Action Target	8 Target Packages	**$ 30,000.00**
GRAND TOTAL OF INVOICES			**$ 776,818.00**

Copies of the Bridgeport/Action Target invoices were obtained.

Appendix 14. Change Log

Version 23. 7/24/2024

Updated language for introduction.
Updated Facility and Project Name to Western Connecticut Training Facility (WCTF)
Added new content for governance model.
Added updated financial data based on estimates.
Added financial and assumptions data to the appendix.
Added the Objectives section.

Version 23. 7/24/2024

- Update name of project council to “Regional Firearm Training Facility Project Council”. Was previously “Newtown Project Council”
- Removed content from the site location analysis. Newtown police station is now the selected location.
- Added a list of meetings held specifically for the Regional Firing Range.
- Added takeaways from field visits
- Include preliminary site plan concepts.

Version 22. 3/7/2024

- Updated language for new COG council members.

Version 21. 6/14/2023

- Detailed update to executive summary with key features.
- Background description section moved from executive summary to its own section.
- Changed title to “Firearm Training Facility – An Implementation Plan for Western Connecticut Council of Governments”
- Included 1.5 million grant award from OPM.
- Moved Appendix to separate document.
- Moved Location analysis to appendix
- Moved Bridgeport Firing Range Equipment section to appendix
- Restructured chapters to Introduction, Existing Conditions, Implementation Strategy, Facility Specifications, Financing, Governance

Version 20

- Swapped term “firing range” to “firearm training facility” or “training facility”
- Added strategic goals
- Added Tactical Plan
- Added site selection process

Version 19

- New Firearm training facility Cost Estimates based on Wilton Firearm training facility Quotes.
- Added estimates for usage capacity for an indoor range.
- Updated Facility Inventory.
- New Firearm training facility Capacity Survey Statistics. With Map!
- Community Project Funding Requests Status Update.
- 17 Preliminary Letters of Support.
- New Draft Letter of Support Language.
- Additional context regarding municipal usage of firearm training facilities. Bridgewater, New Fairfield, and Danbury Context added.
- Approached by Private Investors. Their context provided.
- Concerns with Bridgeport resources included.
- Add the survey to the appendix
- Facility Sharing and Scheduling software concept

Version 18

- Added change log.
- Added Project Committee and current members.
- Identified Interested Communities.
- Added Project Schedule.
- Added additional firing range considerations.
- Added RPIP Grant Information.
- An additional Ridgefield location was added
- FAW Appendix Added.
- Added Project Considerations.

Appendix 15 Assumptions

Facility Usage Factors	Estimates	Max Members
Facility Construction Cost	$14,796,410	$14,796,410
Supporting Grant Funds	$1,500,000	$1,500,000
Remaining Cost	$13,296,410	$13,296,410
Match Percentage	90%	90%
Annual Total Costs	$258,505	$311,443
Initial Membership Fee (per officer)	$16,943.64	$8,864.27
Annual Membership Fees (per officer)	$323.13	$207.63
Days in the Year	365	365
Out of Service Days	-118	-118
Available Days in the Year	247.00	247.00
Lane Count	10	10
Standard Operating Hours	12	12
Length (feet)	150	150
Square Feet	8750	8750
Member Count	800	1500
Department Count	15	38
Standard Training Hours Available per year	29640	29640
Total Training Hours Available per year	59280	59280
Minimum Annual Training Hour (per officer)	5	5
x4 Scenario Annual Training Hours (per officer)	20	20
Minimum Training Hours Required	4,000	7,500
x4 Scenario Training Hours Required	16,000	30,000
Rubber Trap Cleaning per visit	$20,000	$20,000
Rounds per Trap Cleaning	800,000	800,000
HVAC Operating Cost	$4	$4
Rounds Per Officer	700	700
Return per Round	$0.03	$0.03
Annual Building Maintenance %	1%	1%
Annual Facility Equipment Maintenance	$7,500	$7,500
Annual Trap Cleaning Costs	14,000	26,250
Annual Recycling Income	-$17,500	-$32,813
Annual Filter System Costs	64,000	120,000
Annual Building Insurance	$8,000	$8,000
Annual Cleaning Fees	4,800	4,800
Annual Security Services	$9,600	$9,600
Annual Scheduling Software	120	120
Rent	$1	$1
WestCOG Fiduciary Services	10,000	10,000
Groundskeeping	$5,100	$5,100
Utilities	4,920	4,920
Annual Facility Maintenance Cost	$147,964	$147,964
Vesting Percentage	10%	10%
Overtime Cost per hour	$76	$76
Overtime Amount per officer (hrs)	8.06	8
Tactical Training	4	4

Appendix 16. Construction Estimate

DOWNES CONSTRUCTION COMPANY

WESTCOG REGIONAL FIREARM TRAINING FACILITY

QUALIFICATIONS & ASSUMPTIONS
DATE: 10/23/2024

QUANTITIES, PRICING AND METHODOLOGY

- All quantifiable materials have been taken off where possible using industry standard methods.
- Any scope which is not quantifiable, is based on our extensive historical data, while taking into account project specific variables.
- The unit pricing included in the following estimate is based on today's fair market value which is then escalated on the Summary page. We utilize historical data, subcontractor and supplier input as well as third party consultants.

BUDGET SUMMARY

Conceptual Order of Magnitude Estimate - Total Construction	$	11,294,970
Suggested Owners Soft Costs	$	1,468,346
Suggested Owners Contingency	$	2,033,095
TOTAL PROJECT COST OPINION	**$**	**14,796,410**

ASSUMPTIONS AND CLARIFICATIONS

- The attached estimate is based on design documents by: Kaestle Boos Associates, Inc. dated 10/9/24
- The assumed delivery method is: CM at Risk
- We assumed the project to be: Unoccupied
- The attached estimate assumes a start date of: 10/25/2025
- The attached estimate accounts for escalation through the construction start date, if construction does not start on time, include an additional 6% annual escalation per year.
- We assumed the project to be: Tax Exempt
- The estimate assumes the project to be: Prevailing Wage
- All FF&E is assumed to be by the Owner and therefore excluded.
- Premiums for non-standard work times have been excluded.
- Unforeseen conditions are excluded.
- All computer equipment, Servers & Network Switches are assumed to be by the Owner.
- All AV equipment is assumed to be by Owner.
- All phone systems are assumed to be by Owner.
- Builders Risk insurance is assumed to be by Owner.

DOWNES CONSTRUCTION COMPANY

WESTCOG REGIONAL FIREARM TRAINING FACILITY

Conceptual Order of Magnitude Estimate

* Drawings Dated: 10/09/2024
* Estimate Date: 10/23/2024

SPEC SECTION	DESCRIPTION	West COG Firing Range 18,250 sf	COST / SF
TRADE COSTS			
01 00 00	Project Requirements	$ 125,000	6.85
02 11 00	Contaminated, Unsuitable & Ledge	$ 50,000	2.74
03 30 00	Cast-in-Place Concrete	$ 642,739	35.22
04 20 00	Unit Masonry	$ 486,805	26.67
05 00 00	Structural Steel	NA	-
05 10 00	Miscellaneous Metals	$ 42,585	2.33
06 00 00	Rough Carpentry	$ 35,700	1.96
06 30 00	Finish Carpentry	$ 94,402	5.17
07 00 00	Thermal & Moisture Protection	$ 1,720	0.09
07 50 00	Roofing	$ 25,500	1.40
07 84 00	Fireproofing & Joint Sealants	$ 16,320	0.89
08 00 00	Doors, Frames & Hardware	$ 167,209	9.16
08 41 00	Storefront & Curtain Wall	$ 34,170	1.87
09 00 00	Drywall & Framing	$ 101,043	5.54
09 30 00	Tile & Carpet	$ 16,238	0.89
09 51 00	Acoustical Ceiling Tile	$ 204,000	11.18
09 65 00	Flooring	$ 17,238	0.94
09 91 00	Painting	$ 89,125	4.88
10 00 00	Misc. Specialties	$ 2,627	0.14
10 14 00	Signage	$ 27,864	1.53
10 21 13	Toilet Compartments	$ 1,082	0.06
10 28 00	Toilet Accessories	$ 4,191	0.23
11 50 00	Firing Range Equipment	$ 1,330,500	72.90
12 00 00	Furnishings	$ 933	0.05
13 00 00	Special Construction	$ 1,637,822	89.74
21 00 00	Fire Suppression	$ 111,690	6.12
22 00 00	Plumbing	$ 279,225	15.30
23 00 00	HVAC	$ 1,125,060	61.65
26 00 00	Electrical, T/D, FA Security	$ 1,209,975	66.30
31 00 00	Sitework	$ 782,219	42.86
	TOTAL TRADE COST	**$ 8,662,984**	474.68
INDIRECT CONSTRUCTION COSTS			
10.0%	Design & Estimating Contingency	$ 866,298	47.47
6.0%	Escalation	$ 571,757	31.33
	General Conditions & Staffing	$ 321,383	17.61
	PreConstruction	w/ Above	-
0.80%	General Liability Insurance	$ 83,379	4.57
	Builder's Risk Insurance	By Owner	-
1.0%	Local Building Permit	$ 105,058	5.76
0.026%	State Education Fund	$ 2,759	0.15
0.80%	CM Payment & Performance Bond	$ 84,909	4.65
3.0%	Construction Contingency	$ 320,956	17.59
2.50%	CM Fee	$ 275,487	15.10
	TOTAL CONSTRUCTION COST	**$ 11,294,970**	618.90
	CONSTRUCTION COST PER AREA	**$ 619**	0.03

	SOFT COSTS	**$ 1,468,346**	80.46
5%	**OWNER CONTINGENCY**	**$ 2,033,095**	111.40
	TOTAL PROJECT COST	**$ 14,796,410**	810.76
	TOTAL COST PER AREA	**$ 811**	