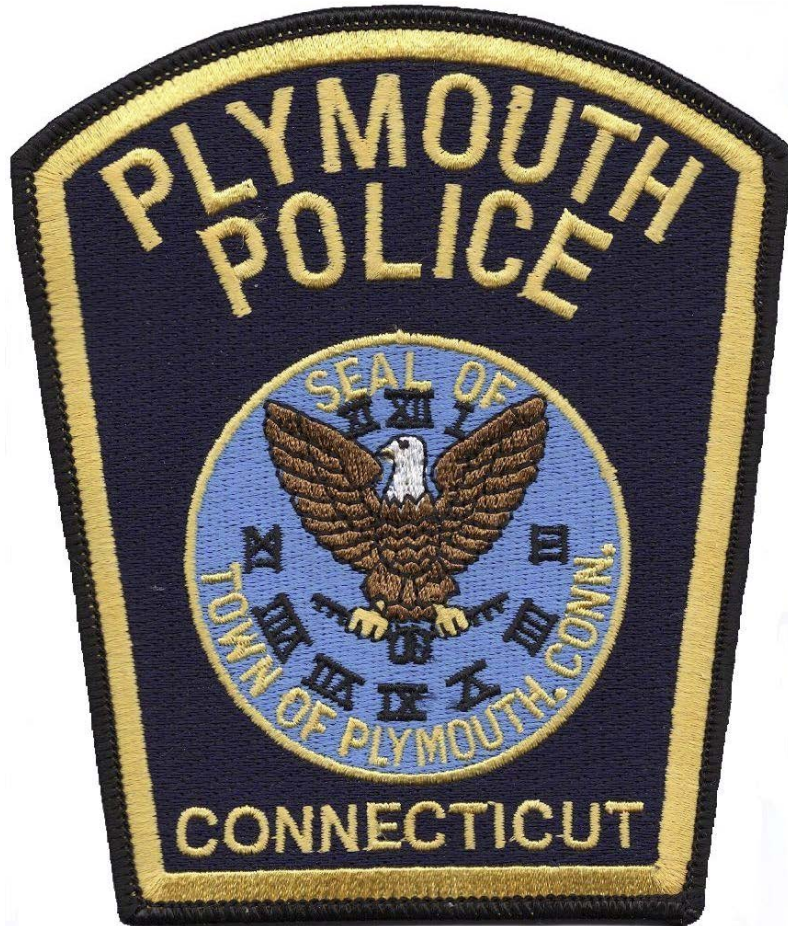


Feasibility Study *for the* **Plymouth Police Department** **Plymouth, CT**



May 2020

J H
JACUNSKI HUMES
ARCHITECTS, LLC

15 MASSIRIO DRIVE SUITE 101
BERLIN, CONNECTICUT
(860)-828-9221 FAX (860)-828-9223

Feasibility Study
for the
Plymouth Police Department
Plymouth, CT

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INTRODUCTION

Jacunski Humes Architects, LLC is pleased to present this Final Report of findings related to the Town of Plymouth's Request for Qualifications for a space needs assessment and building design layout for a new Plymouth Police Department facility.

This Final Report is a compilation of items that have been produced and distributed by this office to the Building Committee as they have been completed since our Design Agreement was fully executed on October 15, 2019.

In addition to work performed through the office of Jacunski Humes Architects, the professional cost estimating firm of FV Consulting, Newton, MA provided professional cost estimating services.

Jacunski Humes Architects, LLC is proud of our reputation and experience in the field of **Public Safety Facility Design**. Jacunski Humes Architects, LLC currently has more active Public Safety Projects than any other architectural firm within New England. For the past twenty five (25) years, I have dedicated my architectural knowledge and expertise to the area of **Public Safety Facility Design**. Through this involvement with the Public Safety community, I have been involved with the planning and design of over **ninety (90)** municipal police / fire / EMS facilities throughout six states and have established a ***national reputation*** in the field of Public Safety Facility Planning and Design.

I trust that a thorough review of this Final Report will indicate to you our experience in this very technical building type and our desire to provide an efficient, functional, and cost effective solution for the Town of Plymouth to support the improved working conditions of the Plymouth Police Department.

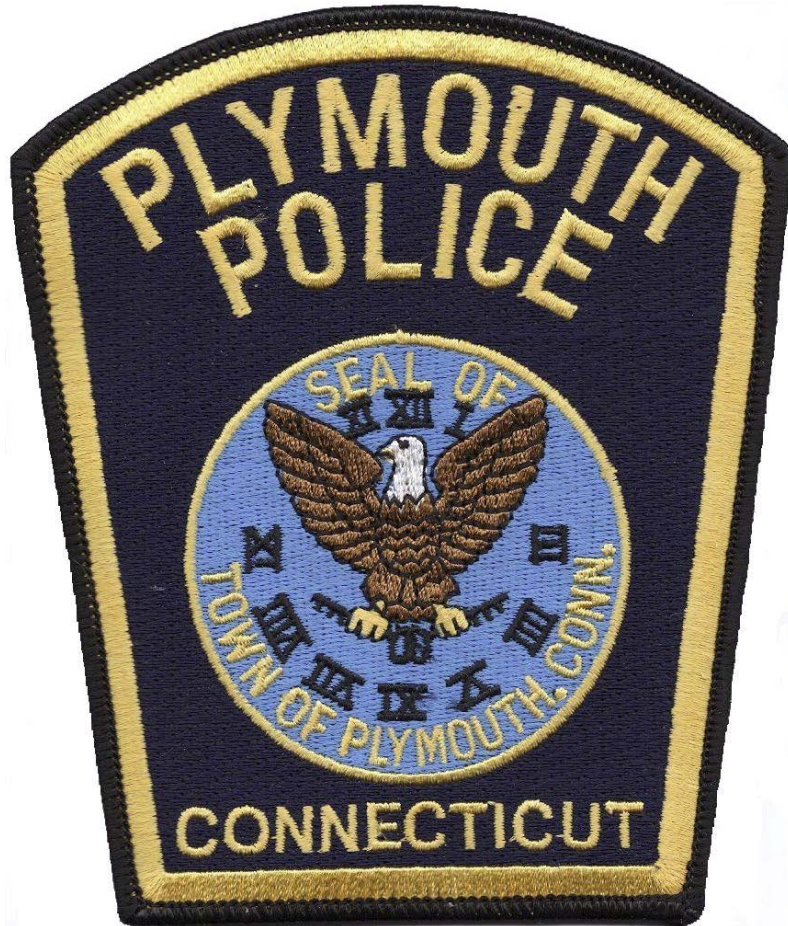
Very truly yours,

Brian W. Humes, AIA, LEED AP
Jacunski Humes Architects, LLC

SPACE NEEDS ASSESSMENT



Space Needs Assessment *for the* **Plymouth Police Department** **Plymouth, CT**



February 2020

J H
JACUNSKI HUMES
ARCHITECTS, LLC

15 MASSIRIO DRIVE SUITE 101
BERLIN, CONNECTICUT
(860)-828-9221 FAX (860)-828-9223
www.jharchitects.net

Space Needs Assessment for the Plymouth Police Department Plymouth, CT

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GENERAL INFORMATION

Date: February 2020

Department: Plymouth Police Department

Address: 80 Main Street
Terryville, CT 06786

Telephone No.: (860) 589-7779

Fax No.: (860) 585-4025

Primary Contact: Mr. Cesar Beiros,
Detective Sergeant

Original Structure: 1973

Last Renovation: No major renovations since
occupancy

Total Building Area: Lower Floor = 3,685 s.f., gross

Community Area: 22.4 square miles total
21.9 square miles (land)
0.4 square miles (water)

GROWTH ESTIMATES

Population Statistics:

Year	1970	1990	2010	2014	2030	2040
	<i>census</i>	<i>census</i>	<i>census</i>	<i>census</i>	<i>projected</i>	<i>projected</i>
Plymouth, CT	10,321	11,822	12,243	11,914	11,986	11,384

Source: U.S. Census Bureau; UCONN State Data Center, CT Population Projections
Includes the villages of Plymouth Center, Terryville, and Pequabuck.

Department Vehicles:

Year	1973	1990	2010	2019	2030	2040
<u>Police Department Vehicles:</u>						
Fleet Vehicles (marked)	3	6	9	7	8	9
Road Jobs (marked)	0	0	0	3	3	3
Official Vehicles (unmarked)	2	2	2	5	5	6
ACO Vehicle (truck w/ cap)	0	0	0	1	1	1
Utility Trailer	0	0	0	0	1	1
Gator / ATV	0	0	0	0	0	0
Patrol Bicycles	0	2	0	0	0	0
Total Motor Vehicles	5	8	11	16	18	20

CRIME STATISTICS

Year	2010	2015	2016	2017	2018	2019
Disturbance ⁽¹⁾	130	186	163	153	137	138
Public Assistance ⁽²⁾	1,768	1,043	1,078	918	801	773
Landlord / Tenant ⁽³⁾	132	132	116	91	71	69
Juvenile Problem ⁽⁴⁾	487	210	120	53	264	420
Check Well Being ⁽⁵⁾	106	202	196	199	245	222
Suspicious Person/Vehicle ⁽⁶⁾	713	487	473	514	522	406
Alarms	388	374	373	319	371	374
Motor Vehicle Complaints	545	371	363	364	361	382
Animal Complaints	517	776	888	715	526	811
Motor Vehicle Accidents	363	293	298	333	284	272
Medical Assists	628	641	668	626	636	612
Building Check	16,817	3,259	4,497	4,425	3,175	1,859
911 Hang-ups / Misdials	405	523	419	290	270	286
Larceny	219	176	126	128	129	114
Fire Dept. Assist	159	110	124	141	151	162
Vandalism	152	29	46	29	38	34
Harassment	95	81	88	49	43	47
Motor Vehicle Stop	1,670	2,229	2,351	2,272	2,280	1,882
Burglary / Robbery	65	28	29	46	22	11
Public Fingerprinting	160	238	200	149	147	176
Noise Complaint	125	91	108	73	71	68
Total Calls for Service	29,154	13,806	14,854	14,037	12,588	11,257

- (1) Disturbance = Family Violence, Fight in Progress, All Assaults, Threatening, Disorderly
- (2) Public Assist = Public Assist, Misc., Lockout Assist
- (3) Landlord / Tenant = Landlord / Tenant / Neighbor Problem
- (4) Juvenile Problem = All Juvenile Complaints including School Resource Officer (SRO)
- (5) Check Well Being = Check Well Being, Emergency Committal
- (6) Suspicious Person / Vehicle = Suspicious Person / Vehicle, Check Parked Vehicle

STAFF PROJECTIONS

Sworn Personnel:

Year	1973	1990	2010	2019	2030	2040
Chief of Police	1	1	1	1	1	1
2 nd in Command (Asst. Chief)	1	1	1	1	1	1
3 rd in Command (Lt. or Admin. Sgt.)	0	0	0	0	1	1
Sergeant - Detective	0	0	1	1	1	1
Sergeants – Patrol	0	3	4	4	4	4
Detectives	0	0	1	1	2	3
School Resource Officer (SRO)	0	0	0	1	1	1
Patrol Officers	5	11	14	14	17	18
Total Positions (Sworn)	7	18	22	23	28	30
Part-time Positions	19	5	3	0	0	0

Civilian Personnel:

Year	1972	1990	2010	2019	2030	2040
Clerical - Administrative Asst.	0	0	1	1	1	1
Records Clerk / Main Desk	0	0	0	0	1	1
Information Technology (I.T.)	0	0	0	0	1 P.T.	1 P.T.
Animal Control Officers	0	0	3 P.T.	3 P.T.	3 P.T.	3 P.T.
Dispatchers	0	0	6 F.T. 7 P.T.	4 F.T. 9 P.T.	0	0
Custodial	Town	Town	Town	Town	1	1
Total Positions (Civilian)	See Sworn	See Sworn	7 F.T. 10 P.T.	8 F.T. 9 P.T.	3 F.T. 4 P.T.	3 F.T. 4 P.T.

SPACE NEEDS ASSESSMENT

POLICE HEADQUARTERS

MAIN BUILDING:

Proposed Square Footage - Net
(Existing Square Footage - Net)

1. Public

a.	Vestibule	120
		(42)
1.	Air-lock vestibule	
2.	Walk off mat	
3.	Waiting chairs for two (2)	
4.	Fire alarm annunciator panel	
5.	Medical drop box	
6.	Public Lobby door access controlled for hours when Front Desk personnel is not available. Provide emergency lock-down capability from Main Desk transaction window position.	
7.	Handset / video capability to remote, regional dispatch center during hours when Main Desk personnel is not available	
8.	Public access granted to Public Lobby only when station is occupied by Main Desk personnel	
9.	Public access granted to Vestibule 24 / 7 / 365.	
b.	Lobby / Reception / Waiting	300
		(235)
1.	Public access to Main Desk, Public Interview/Permitting, Public Restroom.	
2.	House Telephone	
3.	Public seating for up to 4-6	
4.	Poster Case	
5.	Pamphlet Rack	
c.	Public Restrooms	One (1) @ 60
		60
		(0)
1.	Unisex design with sink, toilet, urinal	
2.	Handicap accessible	
3.	Adjacent to Public Lobby for public use	

d.	<u>Public Interview Room / Public Permitting</u>	125
		(0)
1.	Utilize for public statements / public fingerprinting / public permitting	
2.	Workstation for one (1)	
3.	Seating for two (2)	
4.	AFIS machine for fingerprinting (future)	
5.	Gray background for photo use, camera stand	
6.	Public and internal access for staff use	
7.	Access controlled to Secure Areas	
8.	Access controlled from Public Lobby. Remote release from Main Desk transaction window position.	

2. **Main Desk**

a.	<u>Location</u>	
1.	Adjacent to Public Lobby	
2.	Controlled natural light	
b.	<u>Main Desk</u>	480
		(247)
1.	Bullet resistant transaction window to Public Lobby	
2.	Console positions: two (2) total: ergonomic, redundant design with environmental controls to utilize as secondary PSAP, local frequency communications center, CCTV surveillance monitoring station, access control monitoring station, 2-way audio intercom system to detention cells.	
3.	Workstation for one (1); Records Clerk / Main Desk personnel	
4.	Workstation for one (1) Shift Commander	
5.	Access controlled	
6.	Remote door release contact to Vestibule / Public Interview / Secure area, emergency lockdown contact to Vestibule door at transaction window	
7.	Independent HVAC system with thermostat control	
8.	Lighting on dimming system	
9.	Bookshelving / Manuals storage centrally located	
10.	Acoustic control on walls and ceiling	
11.	Tackboard / Markerboard	
12.	Surge suppression and static controlled surfaces	
13.	Position all monitors to restrict public viewing	
14.	Adjacent to Records File Storage, Copy Room	
c.	<u>Kitchenette</u>	25
		(0)
1.	Refrigerator (under counter)	
2.	Microwave	
3.	Sink	
4.	Storage cabinets	

		7
d.	<u>Restroom</u>	60
		(0)
	1. Unisex design with sink, toilet	
	2. Handicap accessible design	
	3. Directly adjacent to Dispatch Center	
	4. Provide with radio / phone functions	
e.	<u>Communications Equipment Room</u>	see Data Equipment
		(38)

3. ***Records File Storage***

a.	<u>Records File Storage</u>	250
		(65 + 38 = 103)
	1. Active / Archive file storage of Police Records within high density filing system	
	2. Access controlled	
	3. Public dissemination of police records through Main Desk transaction window.	
	4. Adjacent to Main Desk workstation, Copy Room	

4. ***Administration***

a.	<u>Administrative Offices</u>	
	1. Suite of offices containing the Chief of Police, 2 nd in Command, 3 rd in Command, Conference Room, Restroom / Shower.	
	2. Access controlled for after-hours access	
b.	<u>Chief of Police</u>	250
		(217)
	1. Workstation for one (1)	
	2. Coat closet	
	3. Conference table seating for six (6)	
	4. Natural light	
	5. File storage	
	6. Bookshelving	
	7. Wall mounted monitor	
	8. Adjacent to Administrative Assistant, Administrative Offices, Conference	
c.	<u>2nd in Command</u>	225
		(158)
	1. Workstation for one (1)	
	2. Coat closet	
	3. Visitor's chairs for two (2)	
	4. Natural light	
	5. File storage	
	6. Bookshelving	
	7. Wall mounted monitor	
	8. Adjacent to Chief of Police, Conference	

d.	<u>3rd in Command</u>	<u>200</u> (0)
	1. Workstation for one (1)	
	2. Coat closet	
	3. Visitor's chairs for two (2)	
	4. Natural light	
	5. File storage	
	6. Bookshelving	
	7. Wall mounted monitor	
	8. Adjacent to Chief of Police, Conference	
e.	<u>Administrative Assistant</u>	<u>250</u> (73 + 38 = 111)
	1. Workstation for one (1)	
	2. Coat closet for visitors and staff use	
	3. File storage	
	4. Work area and counter for office equipment	
	5. Networked printer, scanner , fax, copier	
	6. Bookshelving	
	7. Natural light	
	8. Acoustically isolated from department	
	9. Adjacent to Administrative Offices, Conference Room	
f.	<u>Conference Room</u>	<u>250</u> (0)
	1. Seating for ten (10), minimum	
	2. Projection screen / video projection	
	3. Wall mounted monitor	
	4. Shared use with department (door to suite, door to corridor)	
	5. Sink / Under counter refrigerator / counter area	
	6. Adjacent to Administrative Assistant, Administrative Offices, Patrol Functions	
g.	<u>Administrative Restroom / Shower / Lockers</u>	<u>125</u> (37)
	1. Sink / Toilet	
	2. Shower unit	
	3. Wardrobe lockers, three (3) total	
	4. Handicap adaptable design	
	5. Adjacent to Administrative Offices	

5. ***Copy / Workroom***

a.	<u>Copy / Workroom</u>	100
		(0)
1.	High Speed copier / fax / scanner / printer (networked)	
2.	Paper shredder	
3.	Bulk paper storage cabinets	
4.	Bulk office supply storage cabinets	
5.	Office equipment counter	
6.	Forms storage	
7.	Adjacent to Main Desk, Records File Storage, Patrol Functions for department's use at all hours	

6. ***Detective Bureau***

a.	<u>Detective Sergeant's Office</u>	150
		(0)
1.	Workstation for one (1)	
2.	Visitor's chair for two (2)	
3.	File storage	
4.	Bookshelving	
5.	Vision panel to Detective Bureau	
6.	Adjacent to Detective Bureau	
b.	<u>Detective Bureau</u>	350
		(158)
1.	Workstations for three (3)	
2.	Visitor's chairs, one (1) per workstation	
3.	File storage	
4.	Bookshelving	
5.	NCIC / Collect computer workstation, one (1)	
6.	Adjacent to Detective Sergeant, Tactical Planning Room, Evidence Processing / Forensics, Interview Room	
c.	<u>Tactical Planning Room</u>	200
		(0)
1.	Conference table seating for eight (8)	
2.	Markerboard / Tackboard	
3.	Wall mounted monitor(s)	
4.	Video input and output	
5.	Adjacent to Detective Bureau	
6.	No natural light or room darkening capabilities	

		10
d.	<u>Storage Closet</u>	50
		(28)
	1. Detective Bureau equipment storage / supplies storage	
	2. Adjustable shelving	
	3. Convenience outlets for recharging of equipment	
	4. Adjacent to Detective Bureau	
e.	<u>Interview Room</u>	80
		(77)
	1. Secure internal interview room	
	2. Video and audio monitoring / recording capabilities	
	3. Duress alarm	
	4. Seating for three (3)	
	5. Acoustically controlled	
	6. Outswing door	
	7. Adjacent to Detective Bureau	
f.	<u>Computer Forensics Workroom</u>	150
		(0)
	1. Access controlled	
	2. Work counters with power outlets	
	3. Equipment storage cabinets for spare parts / cables / etc.	
	4. Lighting on dimmers	
	5. Thermostat controlled environment	
	6. Surge suppression	
	7. UPS supported electrical outlets	
	8. Static controlled flooring	

7. ***General Office***

a.	<u>General Office</u>	280
		(0)
	1. Workstations for two (2); A.C.O. & Special Events / Outside Agency	
	2. Visitor's chairs, one (1) per workstation	
	3. File storage	
	4. Bookshelving	
	5. Adjacent to Patrol Functions	
b.	<u>Department Storage</u>	100
		(0)
	1. Equipment storage	
	2. Adjustable shelving	
	3. Convenience outlets for recharging of equipment	
	4. Adjacent to Patrol Functions	

8. ***I.T. Coordinator / Data Equipment / Communications Equipment Room***

a.	<u>I.T. Coordinator</u>	<u>150</u>
		(0)
1.	Workstation for one (1)	
2.	Counter area for computer diagnosis / repairs	
3.	Storage cabinet for spare parts / cables / equipment	
4.	Bookshelving for manuals / software	
5.	File storage	
6.	Surge suppression	
7.	UPS supported convenience outlets	
8.	Adjacent to Computer Network Server / Computer Equipment	
b.	<u>Data Equipment / Communications Equipment Room</u>	<u>280</u>
		(see Comm. Equipment)
1.	Networked server(s), rack mounted	
2.	Patch panels for telephone / data network	
3.	Networked system monitor and keyboard	
4.	Tape storage for backups (fire rated)	
5.	Acoustical control to adjacent spaces	
6.	Radio communications equipment. rack mounted	
7.	Antenna cabling from roof mounted / ground mounted antennas	
8.	D'mark location for public utilities, backboard surfaces for equipment	
9.	Dedicated HVAC system with thermostat control	
10.	Emergency power supply / UPS system	
11.	Conduits to Main Desk consoles / antenna locations	
12.	Adjacent to I.T. Coordinator	

9. ***Patrol Functions***

a.	<u>Supervisor's Office</u>	<u>(Sergeants (4))</u>	<u>375</u>
			(0)
1.	Workstations for four (4)		
2.	Visitor's chairs, one (1) per workstation		
3.	File storage		
4.	Bookshelving		
5.	Wall mounted monitor(s)		
6.	Adjacent to Patrol Functions		
b.	<u>Shift Commander's Office</u>	<u>(Sergeant)</u>	<u>w/in Main Desk</u>
			(91)
1.	Workstation for one (1)		
2.	File storage		
3.	Within Main Desk area		

c.	<u>Patrol Room / Roll Call / Training / E.O.C.</u>	800 (278)
	1. Seating for thirty (30) at training tables and chairs	
	2. E.O.C. capacity to accommodate 10-12 at training tables and chairs	
	3. Projection screen	
	4. Video projection and wall mounted monitors	
	5. Independent sound system	
	6. Lighting on dimmers, varied lighting levels	
	7. Dual use as secondary Emergency Operations Center generator power telephone / data lines	
	8. Video input and output locations	
	9. Movable tables and chairs	
	10. Flat floor configuration	
	11. Room darkening capability	
	12. Sink / under counter refrigerator / counter area / casework storage cabinets	
	13. Mail distribution boxes, one (1) per patrol officer, open box	
	14. File drawer, one per patrol officer, lockable	
	15. Wall mounted monitor(s)	
	16. Markerboard	
	17. Podium / lecturn	
	18. Medical supply cabinet for storage of defibrillators / narcan / etc.	
	19. NCIC computer workstation	
	20. Two-way audio intercom to detention cells	
	21. Adjacent to Shift Commander, Report Writing, Patrol Functions	
d.	<u>Report Writing</u>	200 (0)
	1. Accommodate four (4) at computer workstations	
	2. Access to networked printer (See Copy / Workroom)	
	3. Forms storage	
	4. Bookshelving for reference books, legal manuals	
	5. Wall mounted monitor	
	6. Adjacent to Shift Commander, Patrol Room / Roll Call, Copy / Workroom	
e.	<u>Juvenile Holding / Soft Interview Room</u>	125 (0)
	1. Comfortable seating for soft interview / waiting	
	2. TV monitor	
	3. Toy storage	
	4. Vision panel to Patrol Room / Roll Call	
	5. Non-lockable hardware	
	6. CCTV / audio surveillance equipment	
	7. Outswing door	
	8. Adjacent to Patrol Room / Roll Call	

		13
f.	<u>Lunch Room / Day Room</u>	300
		(0)
	1. Microwave(s)	
	2. Sink	
	3. Refrigerator / Freezer	
	4. Range with exhaust fan	
	5. Toaster oven	
	6. Storage cabinets	
	7. Seating for four (4), min.	
	8. Wall mounted monitor	
	9. Telephone, wall mounted	
	10. Vending machines, two (2) minimum	
	11. Natural light	
	12. Locate adjacent to Patrol Functions, Outdoor Patio / Seating Area	
g.	<u>Storage Room</u>	50
		(0)
	1. Storage of Patrol Equipment and supplies	
	2. Storage of bottled water supply	
	3. Adjacent to Lunch Room, Patrol Functions	
h.	<u>Locker Rooms</u>	1,250
		(321)
	1. Male: Twenty-five (25) total for sworn officer's access only	
	2. Female: Five (5) total for sworn officer's access only	
	3. Access controlled	
	4. Locker sizes:	
	a. 24"w. x 24"d. x 72"h., double door with boot drawer and combination locks	
	b. Power receptacles within lockers for recharge	
	c. Direct ventilation of lockers through exhaust plenum	
	d. Weapons storage compartment (lockable) within locker compartment	
	5. Male showers: two (2) individual, one-piece construction. One (1) unit to be handicap accessible design.	
	6. Female showers: one (1) individual, one-piece construction. Unit to be handicap accessible design.	
	7. Locker benches at wardrobe lockers	
	8. Sink area	
	9. Toilet / urinal area	
	10. Robe hooks	
	11. Shoe shine area	
	12. Wet garment drying area	
	13. Full height mirror, one (1) per locker room	
	14. Speakers for radio frequencies with volume control	
	15. Telephone, wall mounted	

		14
i.	<u>Physical Training Room</u>	800
		(0)
	1. Ceiling clearances for weight training	
	2. Stationary fitness equipment for cardio training, weight training	
	3. Limited free weights	
	4. Drinking fountain with bottle filler	
	5. Wall mounted monitor / integrated sound system	
	6. Wall mirrors	
	7. Adjacent to Locker Rooms	
j.	<u>Quartermaster Storage</u>	100
		(17)
	8. Secured storage of department issued supplies / equipment	
	9. Adjustable shelving	
	10. Clothes bar	
	11. Adjacent to Patrol Functions	

10. *Sally Ports*

a.	<u>Sally Ports</u>	900
		(326)
	1. Accommodate two (2) vehicles; one (1) bays with drive-through design, one (1) bay with drive-in / back-out design.	
	2. Single bay securable for vehicle processing, wire mesh separation, access controlled	
	3. Ambulance accessible doors at all overhead openings (10' min. clearance)	
	4. Floor drains with oil separator	
	5. CCTV and audio monitoring and recording	
	6. Interlocked doors at exterior and Prisoner Processing	
	7. Hose bibb location for wash down	
	8. Overhead sectional doors with remote activation from vehicles, exterior programmable access at each door. Interior door controls (up/down/stop) to be access controlled.	
	9. Service sink within Vehicle Processing Bay	
	10. Pistol locker at entry point to Prisoner Processing	
	11. Carbon monoxide (CO) detection system with exhaust fan	
	12. Eye wash and emergency shower	
	13. Unit heaters at overhead door locations or radiant floor slabs	
	14. Central vacuum canister location, centrally located	

11. *Prisoner Processing*

a.	<u>Prisoner Processing</u>	400
		(86)
	1. Access controlled door to Sally Port bays and Staff Corridor	
	2. Pistol lockers at each point of entry	
	3. Individual Booking Rooms, two (2) minimum, with stools	
	4. Booking counter with computer workstation(s) at Booking Rooms	
	5. A.F.I.S. fingerprinting workstation with power / data jacks	
	6. CCTV and audio surveillance and recording	
	7. Duress alarms at various locations	
	8. Eliminate hard corners and edges	
	9. Hose bibb (secured) for cleaning	
	10. Personal property lockers (one per cell), full size	
	11. Seamless flooring and base	
	12. Water shut-off controls to cell plumbing fixtures	
	13. Fire suppression valve assembly with tamper switch	
	14. Floor drains	
	15. Prisoner release area independent of the Public Lobby	
b.	<u>Intoximeter</u>	50
		(w/in Prisoner Processing)
	1. Deep counter for equipment	
	2. Secured holding bench adjacent to equipment	
	3. Supply storage drawer	
	4. Inaccessible power / data jacks	
c.	<u>Mugging</u>	w/in Booking Rooms
		(w/in Prisoner Processing)
	1. Camera mount at 60" from subject, preferred	
	2. Computer imaging from booking camera	
	3. Gray scale background	
	4. Utilize Booking Rooms for mugging requirements	
e.	<u>Interview Room</u>	80
		(0)
	1. Table seating for three (3)	
	2. CCTV / audio monitoring and recording capabilities	
	3. Outswing door	
	4. Hard surfaces for ease of cleaning	
	5. Utilize for Bail Bond personnel	
	6. Telephone jack	
	7. Adjacent to Prisoner Processing	

		16
f.	<u>Toilet / Shower</u>	25
		(0)
	1. Penal fixture with remote water shutoff	
	2. Vandal resistant shower head	
	3. Shower controls located outside of space, tempered water valve	
	4. Floor drain	
	5. Hard surfaces for ease of cleaning	
	6. Outswing door	
g.	<u>Monitoring / Observation Room</u>	125
		(0)
	1. Wall mounted monitors for CCTV surveillance	
	2. Countertop work area	
	3. Adjacent to Detention Cells	

12. Detention

a.	<u>Conforms to National Accreditation Standards</u>	
b.	<u>Detention Cells</u>	350
		(137)
	1. Total of five (5) detention cells grouped as follows: Two (2) cells, Two (2) cells, One (1) cell for multiple detention arrangements for sex / age. Sight / sound separation between detention areas.	
	2. Handicapped: One (1) cell required, remote location for isolation from other detention cells. (Included in total count listed above)	
	3. Cell features:	
	a. Secured bunk with closed base	
	b. Security penal fixture for toilet / sink / paper storage	
	c. Impact resistant lighting and fire suppression system	
	d. Two way audio communication to Main Desk / Patrol Room	
	e. CCTV / audio surveillance and recording	
	f. No floor drains within detention cells	
	g. 50 SF (min)	
	h. Cell fronts designed for suicide prevention (solid fronts with food pass opening)	
	i. Sliding doors	
	j. Independent supply and return ductwork, direct exhaust	
c.	<u>Detention Area (area outside of detention cells)</u>	125
		(125)
	1. Floor drains for detention cell wash down	
	2. Hose bibb (secured) for wash down	
	3. Exhaust fan with direct exhaust	
	4. Impact resistant lighting	
	5. Duress alarm	
	6. Telephone jack	
	7. Cell check device with audit trail for recording of cell inspections	

13. *Evidence and Property*

a.	<u>Evidence Receiving</u>	125
		(0)
	1. Temporary evidence lockers (varied sizes), through-wall design	
	2. Refrigerated temporary evidence lockers, through-wall design	
	3. Computer workstation for one (1)	
	4. Supply cabinets for bags, tags, forms storage, supplies	
	5. Adjacent to Prisoner Processing / Staff Entry / Detective Bureau	
b.	<u>Evidence Processing / Forensics Lab</u>	300
		(0)
	1. Workstation for one (1)	
	2. Access controlled	
	3. Forensics Equipment including fuming hood, evidence drying cabinet, downflow powder workstation, copy stand	
	4. Work counters, chemical resistant countertops	
	5. Sink, chemical resistant	
	6. Storage cabinets for equipment and supplies	
	7. Roll paper dispenser for wrapping / packaging	
	8. Paper storage cabinets	
c.	<u>Evidence Storage</u>	250
		(40 + 16 = 56)
	1. Access controlled for authorized personnel only	
	2. One means of entry only	
	3. Refrigerator	
	4. High density shelving for storage of evidence	
	5. Adjacent to Evidence Processing / Forensics Lab	
d.	<u>Narcotics / Firearms / Valuables Evidence Storage</u>	80
		(0)
	1. Access controlled for authorized personnel only	
	2. One means of entry only	
	3. Provides for double locking of narcotics, firearms, valuables, cash	
	4. Directly exhausted to exterior, no recirculation	
	5. Adjacent to Evidence Storage	

14. Armory / Arsenal

a.	<u>Armory / Arsenal</u>	150
		(0)
1.	Storage area for department issued firearms and ammunition	
2.	Gun cleaning counter for Armorer's use	
3.	Canopy exhaust hood with light at gun cleaning station	
4.	Access controlled for Armorer's use only	
5.	Storage cabinets	
6.	Gun cleaning supply cabinet	
7.	Sink	
8.	Weapons clearing trap	

15. Union / PBA Office

a.	<u>Union / PBA Office</u>	80
		(0)
1.	Workstation for one (1)	
2.	Tackboard, wall mounted outside of office	
3.	Independent telephone line	
4.	File storage, two (2) cabinets, lockable	
5.	Bookshelving	

16. Toilets and Custodial Services

a.	<u>Custodial Closet</u>	80
		(0)
1.	Service sink / floor sink	
2.	Janitorial supply storage	
3.	Cart storage	
4.	Cleaning equipment storage	
5.	Floor cleaning machine(s) storage	
6.	Paper supplies storage	
b.	<u>Toilet Facilities</u>	
1.	Public use (see Public Lobby)	
2.	Staff use (see Locker Rooms)	
3.	<u>Department Visitor's / Civilian use</u>	One (1) @ 60
		60
		Sink / Toilet, HC accessible
		(0)
4.	Main Desk use (see Main Desk)	
5.	Prisoner Processing and Detention Cells (see Detention cells / Prisoner Processing)	
6.	Police Administration use (see Administration)	
7.	Minimum of one per sex per floor	
8.	Handicap accessible or adaptable	

17. Mechanical

a.	<u>Boiler Room</u>	200
		(w/in Town Hall)
	1. Two (2) boilers preferred for redundancy	
	2. Dual use burners preferred (gas / oil), based upon availability	
	3. Hot water storage tank	
	4. Floor drains	
	5. Chimney breaching	
b.	<u>HVAC Equipment</u>	200
		(w/in Town Hall)
	1. Ducted supply and returns	
	2. High efficiency filters	
	3. VAV boxes with thermostatic controls	
	4. Individual temperature controls for zoned system design	
	5. Host computer for automatic temperature controls (BMS systems)	
c.	<u>Emergency Generator</u>	Exterior, pad mounted
		(Exterior, pad mounted)
	1. Automatic transfer switch at Electrical Room	
	2. Diesel fired generator (independent fuel source) with double walled day tank	
	3. Muffler system	
	4. Acoustic / weather enclosure	
	5. Exterior, pad mounted generator / day tank	
	6. Generator design for 100% building load	
d.	<u>Fire Suppression</u>	50
		(0)
	1. Fully sprinkled facility, NFPA 13 compliant	
	2. Institutional type sprinkler heads in high security areas / Detention Cells / Booking Rooms	
	3. Code designed minimum to NFPA standards	
e.	<u>Electrical Room</u>	150
		(w/in Town Hall)
	1. Main electrical switchgear and panelboards	
	2. Automatic transfer switch for emergency generator	

18. Circulation

- a. Corridors w/in net to gross calculation
(w/in net to gross calculation)
 - 1. Five (5) feet wide, minimum
 - 2. Durable finishes on walls / floors
 - 3. Boot wash at points of staff entry
 - 4. Wet garment drying area at staff entry point
 - 5. Patrol medical bag storage cubbies adjacent to staff entry point

- b. Elevator w/in net to gross calculation
0
 - 1. Fully sized passenger elevator to access all floor levels
 - 2. Designed for public access when required
 - 3. Elevator machine room, fire rated
 - 4. Electric traction elevator
 - 5. Access controlled from Main Desk for public use.

- c. Stairs w/in net to gross calculation
(w/in net to gross calculation)
 - 1. Fire rated egress enclosures leading to exterior, public way
 - 2. Two (2) required, minimum
 - 3. Access controlled for limited public use

STORAGE OUTBUILDING:

Proposed Square Footage - Net
(Existing Square Footage - Net)

1. Department Equipment Storage Bays

a.	<u>Department Equipment Storage Bays</u>	1,000
		(w/in Sally Port)
1.	Two (2) storage bays with overhead door access from exterior	
2.	Storage of department vehicles and equipment (barricades, cones, truck, utility trailer, radar mount, bullet proof equipment, etc.)	
3.	Storage of department supplies, bulk deliveries (infant car seats, range supplies, training supplies, etc.	
4.	Power for battery recharging	
5.	Unit heaters with ventilation exhaust	

2. Bulk Evidence Storage / Vehicle Processing

a.	<u>Bulk Evidence Storage</u>	200
		(0)
1.	Accessibility from building exterior	
2.	Wire mesh cage partition with sliding door	
3.	Access controlled	
4.	Bicycle storage racks	
5.	Industrial shelving, adjustable	
6.	Floor drain	
b.	<u>Vehicle processing</u>	See Sally Port
		(0)
1.	Utilize Sally Port	

3. Found Property Storage

a.	<u>Found Property Storage</u>	200
		(0)
1.	Accessibility from building exterior	
2.	Wire mesh cage partition with sliding door	
3.	Access controlled	
4.	Bicycle storage racks	
5.	Industrial shelving, adjustable	
6.	Floor drain	

SPACE NEEDS SUMMARY

Summary Sheet

**Square Ft.
Existing**

**Square Ft.
Proposed**

Main Building

Public	277	605
Main Desk	285	565
Records File Storage	103	250
Administration	523	1,300
Copy / Workroom	0	100
Detective Bureau	186	980
General Office	0	380
I.T. Coordinator / Data Room	0	430
Patrol Functions	707	4,000
Sally Port	326	900
Prisoner Processing	86	680
Detention	262	475
Evidence and Processing	56	755
Armory / Arsenal	0	150
Union / PBA Office	0	80
Toilets / Custodial Services	0	140
Mechanical	w.in Town Hall	600
Circulation	w/in net to gross	w/in net to gross
Total Net Square Footage	2,811	12,390
Net to Gross Factor	X 1.31	X 1.35
Total Gross Square Footage	3,685	16,725

Storage Outbuilding

Department Equip. Storage Bays	0	1,000
Bulk Evidence / Vehicle Processing	0	200
Found Property Storage	0	200
Total Net Square Footage	0	1,400
Net to Gross Factor		X 1.35
Total Gross Square Footage	0	1,750

SITE CONSIDERATIONS

- | | | |
|----|--|--------|
| a. | Public Parking | 11,500 |
| | 1. Total number of spaces required = Thirty (30) minimum, preferred | |
| b. | Police Vehicle and Staff Parking | 17,000 |
| | 1. Total number of spaces required (fleet and staff vehicles) = Thirty (30) minimum, preferred | |
| | 2. See Department Equipment Storage Bays for additional storage of official vehicles | |
| | 3. Motorcycle parking on concrete pad for staff use | |
| | 4. Secured parking for fleet vehicles and staff vehicles | |
| | 5. CCTV monitoring of all parking areas | |
| | 6. Carport protection for marked fleet vehicles, Ten (10) spaces, minimum | |
| c. | Flagpoles | |
| | 1. Two (2) flags for public display: USA and State of CT | |
| | 2. Internal halyard | |
| | 3. 25' – 30', max. | |
| d. | Signs | |
| | 1. Department identification | |
| | 2. Located at roadside and on building | |
| | 3. Illuminated | |
| | 4. Conforms to Local Zoning | |
| e. | Lighting | |
| | 1. Lighting in public areas | |
| | 2. Lighting in all parking areas | |
| | 3. Illuminated walkways | |
| | 4. Illuminated entry locations | |
| | 5. Lighting coordinated with CCTV locations | |
| f. | CCTV Cameras | |
| | 1. Color cameras, fixed focus and multi-sensor cameras | |
| | 2. Weatherproof housings | |
| | 3. Pole mounted away from structure | |
| | 4. Monitoring of all points of entry | |
| g. | Handicap accessibility | |
| | 1. Entire facility handicap accessible | |
| | 2. Wheelchair access to public entry | |

- h. Plant Material
1. Minimize maintenance
 2. Avoid creating hiding places
 3. Eliminate large ground cover
- i. Snow Storage
1. Provide snow storage capacity within parking configuration
 2. Provide fencing setbacks from parking areas to accommodate snow storage
- j. Exterior Hose Bibb Locations
1. Provide varied locations around building
 2. Car wash location adjacent to Sally Port approach
- k. Communications Tower 500
1. Ground mounted antenna tower, lattice type
 2. Microwave link to repeater network throughout community
 4. Fenced enclosure
- l. Vehicle Impound 1,200
1. Secured parking for six (6) vehicles, minimum
 2. Designated stalls, fenced enclosures with lockable gates
 3. CCTV surveillance
 4. Access controlled
- m. Dumpster Enclosure 250
1. Secured container(s) for trash / recycling
 2. Fenced and gated enclosure
 3. Concrete pad

SITE NEEDS SUMMARY

Site Requirements	Area Estimate (square feet)
Public Parking	11,500
Fleet Vehicles / Staff Parking	17,000
Communications Antenna	500
Vehicle Impound	1,200
Dumpster Enclosure	250
SUBTOTAL	30,450
Building Footprint (two story assumed)	10,000
Storage Outbuilding	1,750
Landscaped Setbacks / Zoning Setbacks	25,000
Future Expansion Potential	5,000
TOTAL SITE AREA	72,200

DIVIDED BY 43,560 = +/- 1.65 – 2.0 ACRES (MINIMUM BUILDABLE AREA, RECOMMENDED)

Site Assessment *for the* **Plymouth Police Department** **Plymouth, Connecticut**



February 2020

J H

JACUNSKI HUMES

ARCHITECTS, LLC

15 MASSIRIO DRIVE SUITE 101
BERLIN, CONNECTICUT
(860)-828-9221 FAX (860)-828-9223

www.jharchitects.net

**SITE ASSESSMENT
FOR THE
PLYMOUTH POLICE DEPARTMENT
PLYMOUTH, CONNECTICUT**

<u>Table of Contents</u>	<u>Page</u>
GENERAL INFORMATION	2
SITE ASSESSMENT	4
1. 20 North Riverside Avenue, Map 042, Block 028-Lot 060	
EXECUTIVE SUMMARY	11
SITE EVALUATION SCORING SHEET	13

The Town of Plymouth has requested that Jacunski Humes Architects, LLC, Berlin, CT, review a prospective site which the town has identified as having the potential to accommodate the current and future space and site needs of the Plymouth Police Department.

A summary of the needs document concluded the following:

- The site parcel to be evaluated by this review is as follows:**

- **20 North Riverside Avenue, Map 042, Block 028-Lot 060**

This site assessment is based solely upon visual inspections of the site and cursory review of generally available documentation to determine if available land meets the initial criteria to support new, modern, and efficient police department for the Town of Plymouth. This initial site assessment and review considers the following key components:

- 1. ACQUISITION COSTS**
- 2. LOT SIZE RELATIVE TO SITE NEEDS ASSESSMENT**
- 3. PARKING AVAILABILITY**
- 4. SITE CONSTRUCTION AND DEVELOPMENT COSTS**
- 5. LOCATION / ACCESS / TRAFFIC**
- 6. VEHICULAR ACCESS AND EGRESS**
- 7. UTILITIES**
- 8. VISIBILITY**
- 9. NEIGHBORHOOD IMPACT**
- 10. ZONING RESTRICTIONS**
- 11. WETLANDS**
- 12. FLOOD PLAIN**
- 13. CONVENIENCE**

Based upon these findings, the Town of Plymouth may elect to continue their review of this site to gain greater insight into the viability of the site to accommodate both the current and future demands of the Plymouth Police Department. This initial site assessment should not be construed as an all-inclusive and exhaustive investigation of deeds, restrictions, easements, zoning, subsurface conditions, hazardous materials, required mitigations, utilities, or other miscellaneous conditions that may be impacted by construction activities.

1. 20 North Riverside Avenue

Map 042, Block 028 - Lot 060

Property Statistics:

Current Owner:	Town of Plymouth
Net Total Assessed Value:	\$90,400
Location:	At the rear of the Plymouth Town Hall (80 East Main Street)
Parcel Size:	2.5 acres
Existing Structures:	Town skateboard park
Existing Use:	Passive recreation
Zone:	R-20 – Residence R-20 District

Remarks:

20 North Riverside Avenue, Map 042, Block 028 – Lot 060 is an irregularly shaped 2.5 acre parcel located immediately to the north and partially flanking the east and west sides of a parking lot on property owned by the Town of Plymouth and currently utilized for the business use of both the Plymouth Town Hall and Police Department. A portion of the parcel has been developed to accommodate a Town skateboard park, however the larger balance remains otherwise undeveloped but for lawn maintained by the Town bordered by forest and underbrush encroaching from the adjacent properties. While it is situated behind the Town Hall in an otherwise landlocked location, the property is by no means remote from the primary transportation arterials of the area, those being US Hwy 6/East Main Street and CT Hwy 72/North Riverside Avenue, and both being roughly a hundred yards to the south and west, respectively.

The property is bordered to the south by a parking lot for the Town Hall/Police Department facility fronting on East Main Street/US 6, and adjacent both residential and commercial properties across North Riverside Avenue/CT 72 to the west. To the north is a vacant rear lot residential-zoned property, and to the east, is another rather large vacant rear lot residential-zoned property that runs the full length of the eastern boundaries. The site has ready access to both East Main Street/US 6 via the Town Hall access drive heading south, and North Riverside Avenue/CT 72 via the existing town hall rear parking lot access drive to Schultz Street to the west.

The topography of the site can be characterized as gradually sloping when referencing existing DEEP established grading. These topo lines indicate a moderate drop of approx. 10 feet going SE to NW across the site.

The entirety of the site, including those properties adjacent, has been determined by FEMA to be within areas of minimal flood risk (Q3 Flood Zone designation). They are above and substantially outside the established 500-year flood plain of the Pequabuck River that courses north-to-south further west of North Riverside Ave/CT 72.

A summary of other DEEP surveys identified no wetlands were evident while also indicating deep farmland soils with no surface aquifer potential lessening the likelihood for seasonal ponding on the property. Finally, the parcel is determined to be outside any jurisdiction of a DEEP Aquifer Protection Zone established just to the north of this property's north abutter.

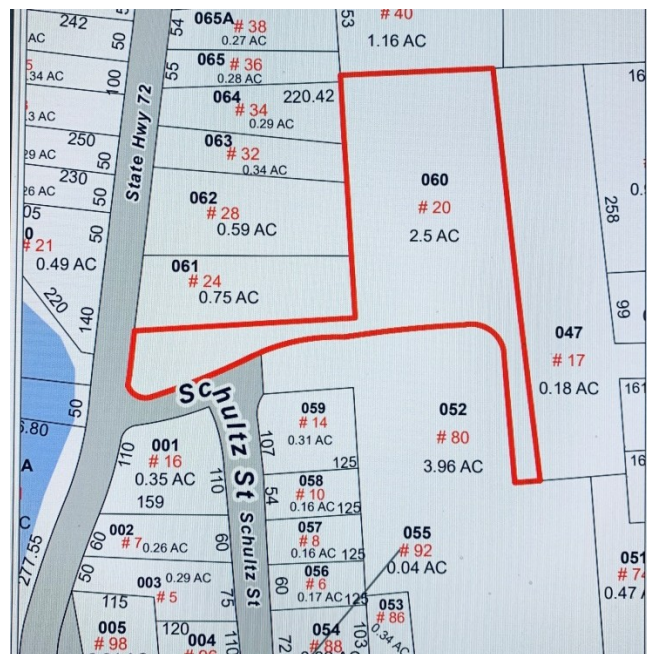
Sight lines along East Main Street/US 6 are unrestricted to the east and west. East Main Street serves as a primary east-west vehicular artery for the Town of Plymouth and includes a traffic control signal at the intersections of Main Street/US 6 and Riverside Avenue/CT 72. Shultz Street can provide an alternative route to both arterials from the subject property under review.

The subject property and the surrounding areas are currently zoned "R-20; Residential R-20 District" and provisions are provided within the Town Zoning Regulations, via application for Special Permit, to allow for Governmental/Institutional Use, including specifically, fire and police services.

This site is currently served by municipal sewer and storm drainage systems under both East Main Street/US 6 and Schultz Street. Electrical power is a 3-phase electric service supplied through overhead lines and pole mounted transformers located on adjacent arterials and Schultz Street via North Riverside Avenue/CT 72. A natural gas utility is available in the arterial streets and assumed to come up Schultz Street as well providing a more direct entrance to the subject site..

Public Transportation is neither available to this site nor to the Town in general, however a Town sponsored shuttle bus transport is provided to seniors as a townwide service.

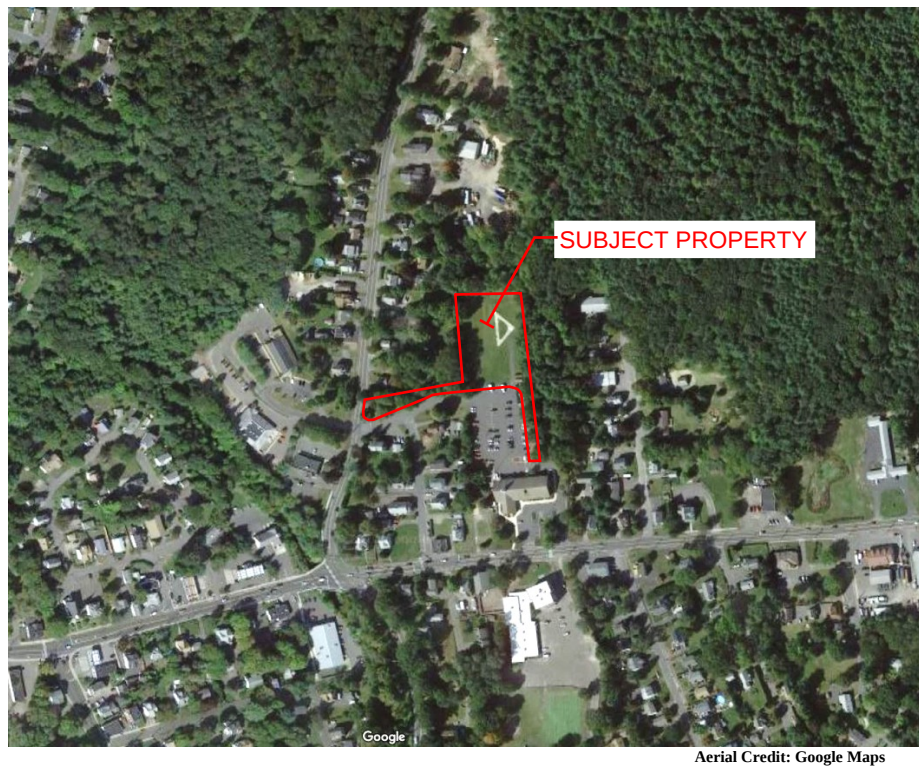
A. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060



Map Credit: Town of Plymouth

Subject Parcel: 20 North Riverside Avenue, Map 042, Block 028 - Lot 060

B. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060



Aerial Credit: Google Maps

Aerial view of 20 N Riverside Ave., Town Hall and immediate surrounds

C. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060



Panographic view looking northwest: 20 N Riverside Ave., Map 042, Block 028 - Lot 060

D. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060



Panographic view looking southeast: 20 N Riverside Ave., Map 042, Block 028 - Lot 060

E. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060

Property Access Analysis



Photo Credit: Google Maps

Sightline on E Main St./US 6 from Town Hall looking east toward Bristol

E. Property Access Analysis (continued)



Photo Credit: Google Maps

Sightline on E Main St./US 6 from Town Hall looking west toward junction CT 72



Photo Credit: Google Maps

Sightline on N Riverside Ave. from Schultz St. looking north toward Harwinton

E. Property Access Analysis
(continued)



Photo Credit: Google Maps

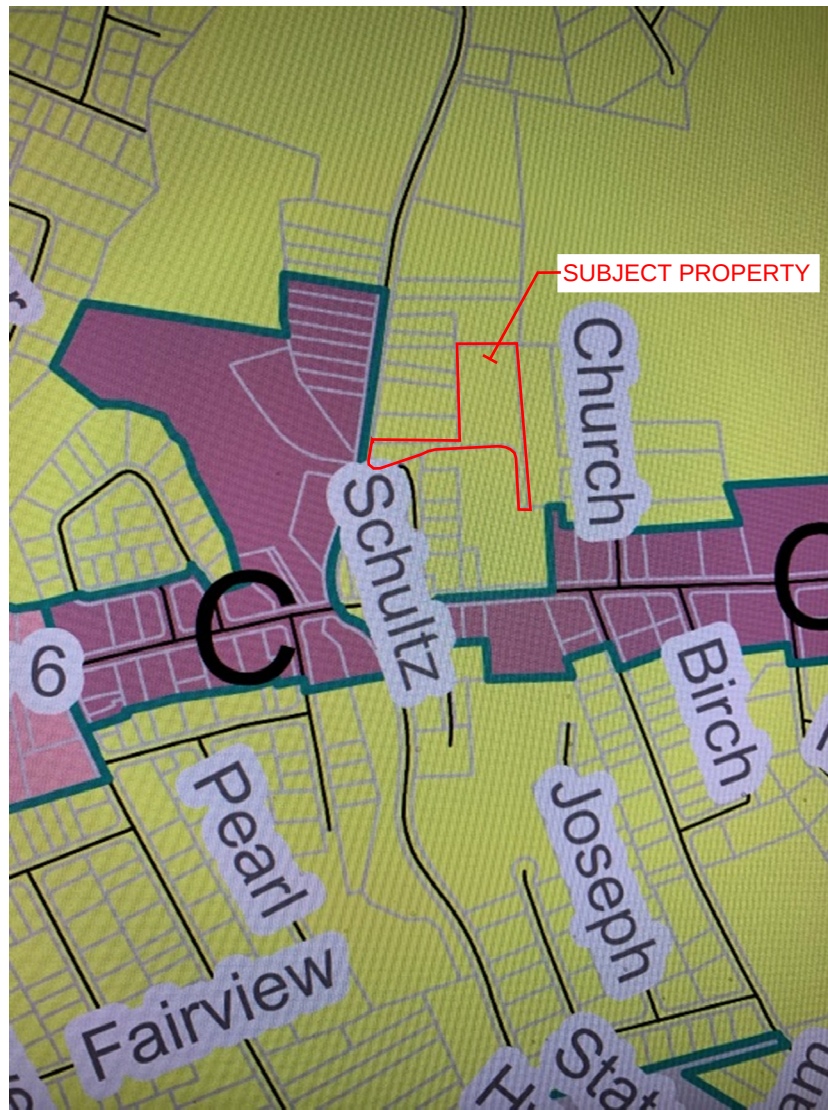
Sightline on N Riverside Ave. from Schultz St. looking south toward junction US 6



Photo Credit: Google Maps

View from Schultz St. looking east into rear access to Town Hall parking lot

F. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060



Zoning Map Credit: Town of Plymouth

Zoning Map: 20 N Riverside Ave, Town Hall and immediate surrounds

Key: Yellow = Residential
Red = Commercial

Executive Summary

This Site Assessment Study has examined the North Riverside Avenue/CT 72 parcel of property to provide for the needs of a modern, efficient, attractive, and cost-effective facility for the Town of Plymouth Police Department.

The site evaluated has the potential to accommodate a new police facility based upon current and future needs of the Plymouth Police Department. It is the goal of this report to identify the site's optimal use that provides the "greatest potential" for the Town of Plymouth.

This "greatest potential" evaluation is contingent upon the following factors:

1. **COST TO THE TOWN OF PLYMOUTH - ACQUISITION COSTS**
2. **LOT SIZE RELATIVE TO SITE NEEDS ASSESSMENT**
3. **PARKING AVAILABILITY**
4. **SITE CONSTRUCTION AND DEVELOPMENT COSTS**
5. **LOCATION / ACCESS / TRAFFIC**
6. **VEHICULAR ACCESS AND EGRESS**
7. **UTILITIES**
8. **VISIBILITY**
9. **NEIGHBORHOOD IMPACT**
10. **ZONING RESTRICTIONS**
11. **WETLANDS**
12. **FLOOD PLAIN**
13. **CONVENIENCE**

Based on the information contained in this Site Assessment Study, the subject property was evaluated for consideration by the Town of Plymouth as follows:

1. 20 North Riverside Avenue, Map 042, Block 028 – Lot 060

The parcel is currently owned by the Town of Plymouth making it desirable for the development of a new Police Department; the purchase of additional property by the Town would not be an incurred expense necessary to undertake the project. Other benefits are its proximity to existing public parking, convenient location and lot size. The location benefit is due to the Plymouth Police Department already occupying a portion of the lower level of the Town Hall building located immediately across the adjacent parking lot to the south. This keeps the Police Department in roughly the same geographic place in town; thus residents and other persons already familiar with the Department's whereabouts would not be required to relearn a new location somewhere else in town.

While immediately surrounded by residential use, the larger area is a hodgepodge mix of both residential and commercial uses set along heavily traveled arterial roadways. Residences on the adjacent properties are set

Executive Summary (continued)

well away from their rear boundaries thus providing adequate lot depth and separation to buffer the new facility from surrounding residences. The north and east extents of adjacent residentially zoned properties are forested. The size of the subject parcel is more than adequate with ample available area for both a new building and its various integral site amenities as set forth in the conclusions of the space needs assessment. The parcel is also easily accessible to and from the main arterials crossing nearby in the immediate vicinity.

Without the costs to associated with acquiring the property, this site would allow the Town to maintain a conveniently located modern Police Facility while allowing for the expansion flexibility needed to meet the future needs of the Plymouth Police Department. The size and configuration would yield a well-situated new two-story police facility where one-story with a public entrance faces south toward the Town Hall parking lot and two-stories facing north to the rear of the property. A “Police Only” drive leading north and around to the rear of the two-story component would be exclusively for Department staff and official vehicles use. Sightlines for egress to and from the site are excellent onto Schultz Street with direct connections from there to both US 6 and CT 72. As mentioned earlier, any additional impact on the local neighborhood is of minimal concern given the proximity of existing commercial activities currently well dispersed into the surrounding developed properties.

Site Evaluation Criteria

SITE: **20 North Riverside Avenue, Map 042, Block 028 – Lot 060**

GROSS AREA: 2.5 acres

CRITERIA:	IDEAL SITE	THIS SITE
LOT SIZE RELATIVE TO SITE NEEDS ASSESSMENT	12	<u>12</u>
ACQUISITION COSTS	10	<u>10</u>
PARKING AVAILABILITY	10	<u>10</u>
SITE CONSTRUCTION COSTS	10	<u>10</u>
LOCATION / ACCESS / TRAFFIC	8	<u>8</u>
VEHICULAR ACCESS AND EGRESS	8	<u>8</u>
UTILITIES	8	<u>8</u>
VISIBILITY	6	<u>6</u>
NEIGHBORHOOD IMPACT	6	<u>4</u>
PUBLIC TRANSPORTATION ROUTE	6	<u>2</u>
ZONING RESTRICTIONS	4	<u>4</u>
WETLANDS	4	<u>4</u>
FLOOD PLAIN	4	<u>4</u>
CONVENIENCE	4	<u>4</u>
TOTAL RANKING	100	<u>94</u>

NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT

20 NORTH RIVERSIDE AVENUE TERRYVILLE, CONNECTICUT

JHI
JACUNSKI HUMES
ARCHITECTS, LLC

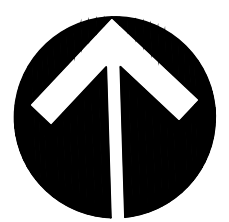
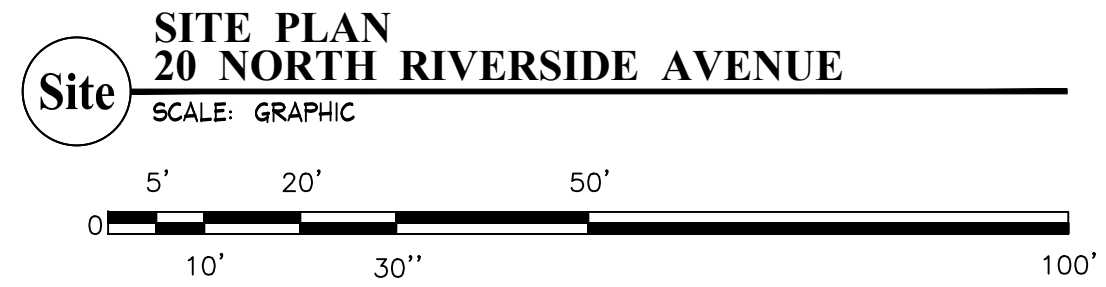
15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

TOWN HALL
CAMPUS
SITE PLAN

PROJ. NO.	JHI1936	DRAWING NO.
SCALE:	GRAPHIC	A-3.2
DATE:	APRIL 9, 2020	



SITE PLAN
20 NORTH RIVERSIDE AVENUE & SURROUNDS
SCALE: GRAPHIC



**NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT**

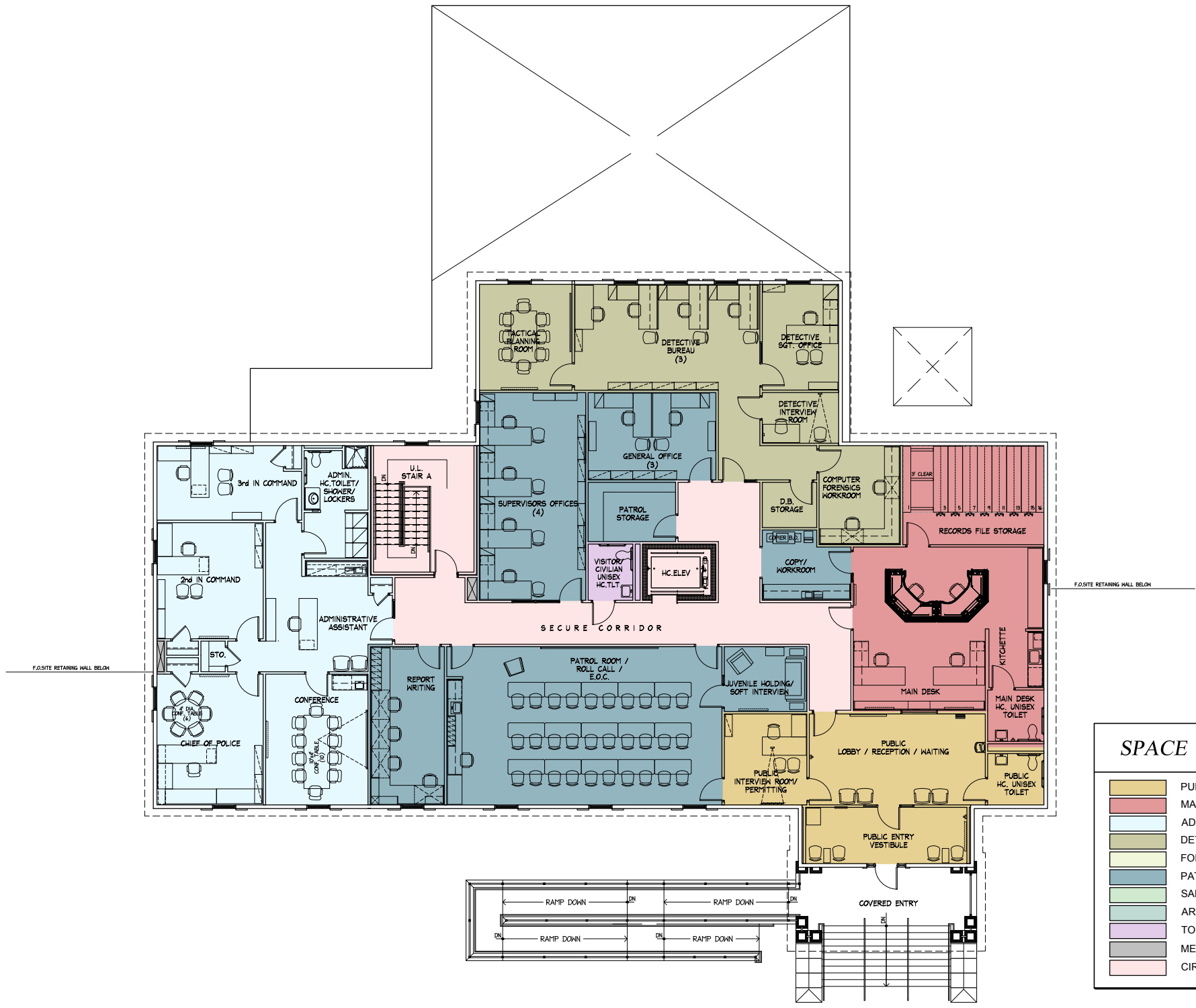
20 NORTH RIVERSIDE AVENUE TERRYVILLE, CONNECTICUT

JHI
JACUNSKI HUMES
ARCHITECTS, LLC

15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

**NEW
FACILITY
SITE PLAN**

PROJ. NO.	JHI936	DRAWING NO.
SCALE:	GRAPHIC	A-3.1
DATE:	APRIL 9, 2020	



SPACE FUNCTION LEGEND

	PUBLIC
	MAIN DESK / RECORDS
	ADMINISTRATION
	DETECTIVE BUREAU
	FORENSICS / EVIDENCE STORAGE
	PATROL FUNCTIONS / GENERAL OFFICE / PBA
	SALLY PORT / DETENTION / PROCESSING
	ARMORY / ARSENAL
	TOILETS & CUSTODIAL SERVICES
	MECHANICAL / I.T. DATA & COMMUNICATION
	CIRCULATION / STAIR / ELEVATOR



1 MAIN LEVEL FLOOR PLAN
SCALE: GRAPHIC

NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT

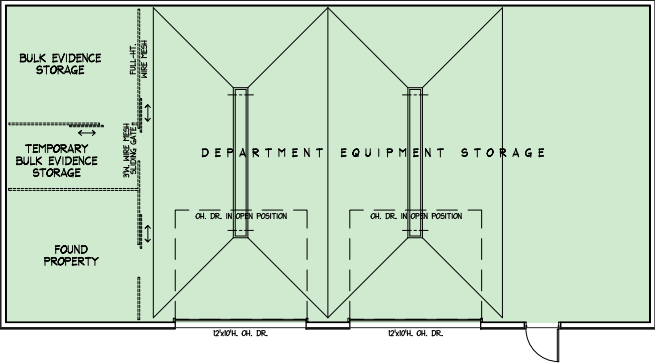
20 NORTH RIVERSIDE AVENUE
TERRYVILLE, CONNECTICUT

J J H H
JACUNSKI HUMES
ARCHITECTS, LLC

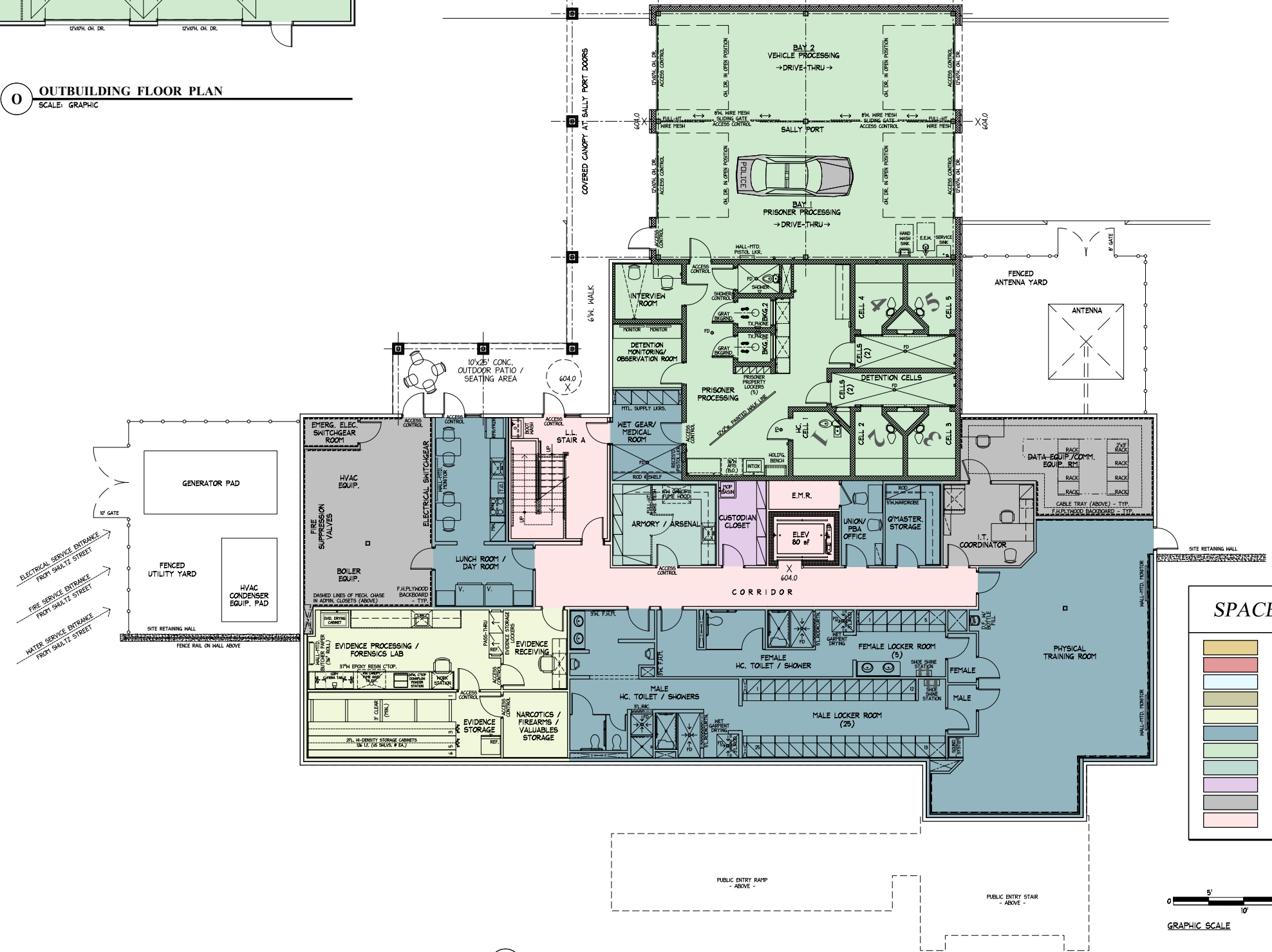
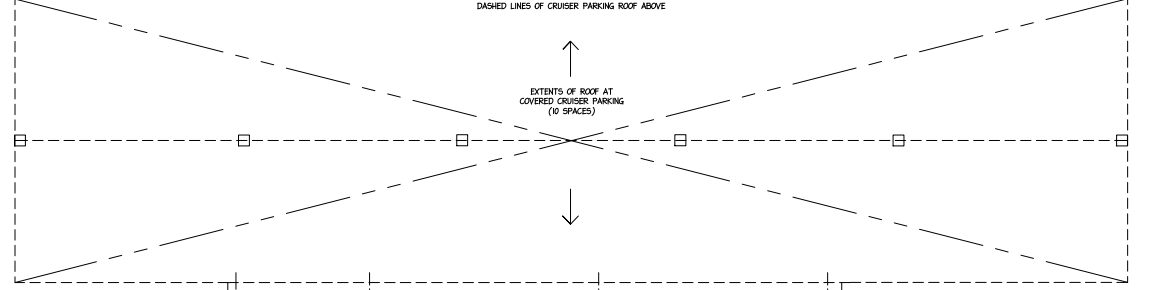
15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

MAIN LEVEL
FLOOR PLAN

PROJ. NO.	JH1936	DRAWING NO.
SCALE:	GRAPHIC	A-1.2
DATE:	APRIL 9, 2020	



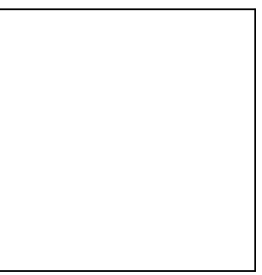
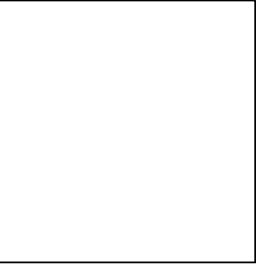
0 OUTBUILDING FLOOR PLAN
SCALE: GRAPHIC



SPACE FUNCTION LEGEND	
[Color Box]	PUBLIC
[Color Box]	MAIN DESK / RECORDS
[Color Box]	ADMINISTRATION
[Color Box]	DETECTIVE BUREAU
[Color Box]	FORENSICS / EVIDENCE STORAGE
[Color Box]	PATROL FUNCTIONS / GENERAL OFFICE / PBA
[Color Box]	SALLY PORT / DETENTION / PROCESSING
[Color Box]	ARMORY / ARSENAL
[Color Box]	TOILETS & CUSTODIAL SERVICES
[Color Box]	MECHANICAL / I.T. DATA & COMMUNICATION
[Color Box]	CIRCULATION / STAIR / ELEVATOR



1 LOWER LEVEL FLOOR PLAN
SCALE: GRAPHIC

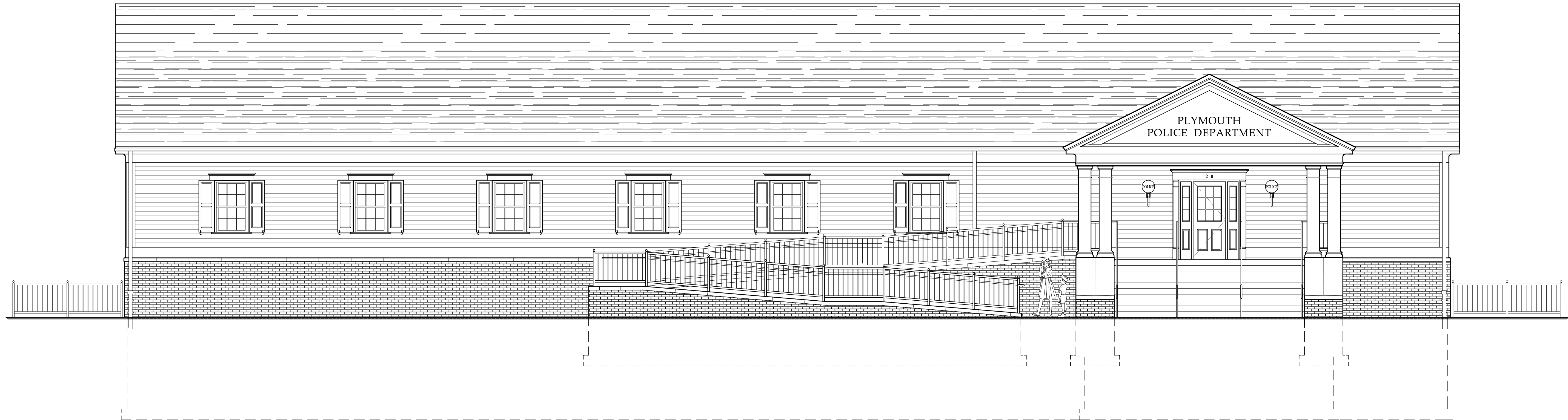


NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT
20 NORTH RIVERSIDE AVENUE
TERRYVILLE, CONNECTICUT

J J H
JACUNSKI HUMES
ARCHITECTS, LLC
15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

LOWER LEVEL
FLOOR PLAN

PROJ. NO.	DRAWING NO.
JH1936	A-1.1
SCALE:	GRAPHIC
DATE:	APRIL 9, 2020



1 SOUTH / FRONT ELEVATION
SCALE: GRAPHIC



2 NORTH / REAR ELEVATION
SCALE: GRAPHIC



**NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT**

20 NORTH RIVERSIDE AVENUE TERRVILLE, CONNECTICUT

JHI
JACUNSKI HUMES
ARCHITECTS, LLC

15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

**FRONT
&
REAR
ELEVATIONS**

PROJ. NO. JHI936

SCALE: GRAPHIC

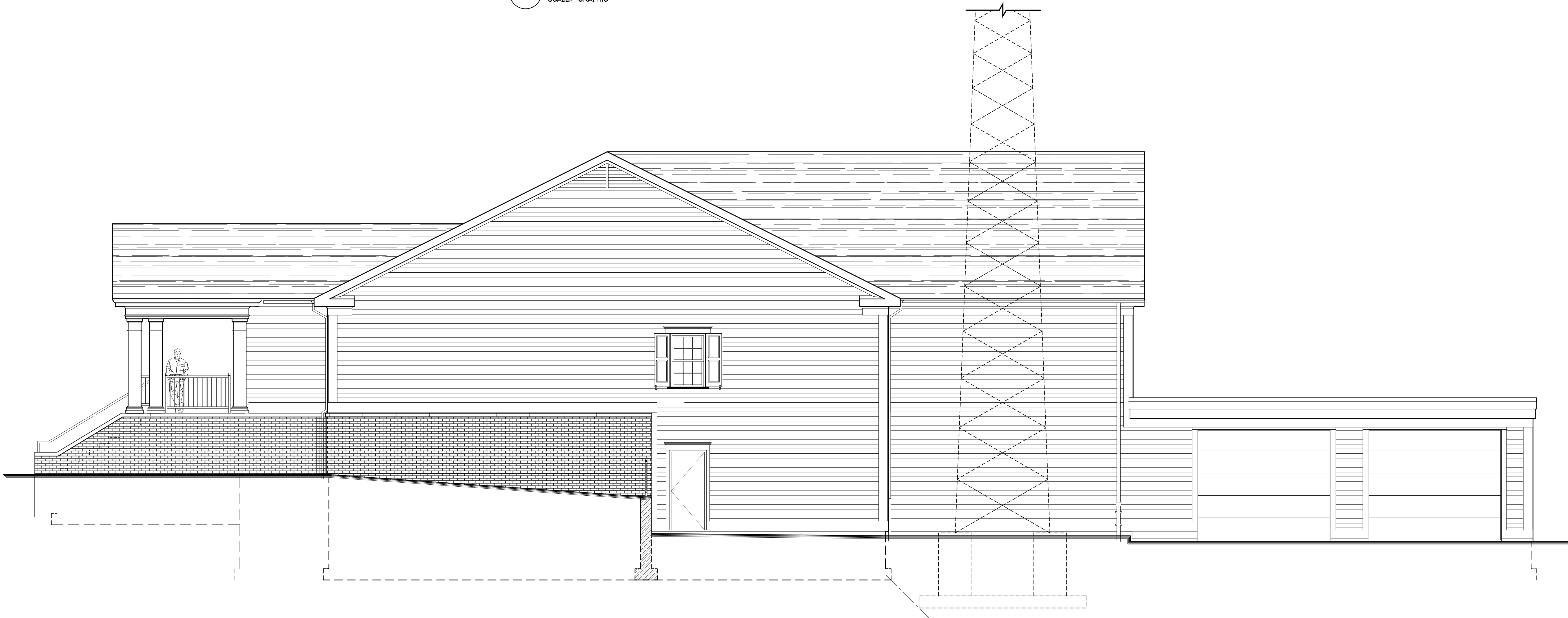
DATE: APRIL 9, 2020

DRAWING NO.

A-2.1



1 WEST / SIDE ELEVATION
SCALE: GRAPHIC



2 EAST / SIDE ELEVATION
SCALE: GRAPHIC



**NEW FACILITY
FOR THE
PLYMOUTH
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20 NORTH RIVERSIDE AVENUE TERRVILLE, CONNECTICUT

JJHI
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ARCHITECTS, LLC

15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9921
FAX 860-828-9923

**SIDE
ELEVATIONS**

PROJ. NO. JH1936

DRAWING NO.

SCALE: GRAPHIC

A-2.2

DATE: APRIL 9, 2020



1 **SOUTH / FRONT ELEVATION**
SCALE: 1/8" = 1'-0"



2 **NORTH / BACK ELEVATION**
SCALE: 1/8" = 1'-0"

**NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT**

20 NORTH RIVERSIDE AVENUE TERRVILLE, CONNECTICUT

JJHI
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ARCHITECTS, LLC

15 MASSIRIO DRIVE
SUITE 101
BERLIN, CT 06037
TEL 860-828-9221
FAX 860-828-9223

**FRONT
&
REAR
ELEVATIONS**

PROJ. NO.
JJH1936
SCALE:
1/8" = 1'-0"
DATE:
APRIL 9, 2020

DRAWING NO.

A-2.1



3 EAST / SIDE ELEVATION
SCALE: 1/8" = 1'-0"



4 WEST / SIDE ELEVATION
SCALE: 1/8" = 1'-0"

**NEW FACILITY
FOR THE
PLYMOUTH
POLICE DEPARTMENT**

20 NORTH RIVERSIDE AVENUE TERRVILLE, CONNECTICUT

JJHI
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***SIDE
ELEVATIONS***

PROJ. NO. JJH1936
SCALE: 1/8" = 1'-0"
DATE: APRIL 9, 2020

DRAWING NO. **A-2.2**

ANTICIPATED PROJECT COSTS

4

New Police Headquarters Plymouth Police Department Plymouth, CT

May 13, 2020

PROJECT COST WORKSHEET

Hard Costs:		
Sitework	\$1,323,970	
Main Building	\$6,967,829	
Storage Outbuilding	\$417,718	
Carport Structure	\$143,825	
Subtotal		\$8,853,342
Soft Costs:		
Architectural/Engineering Fees (8%)	\$700,000	
Project Management Fee (3.5%)	\$300,000	
Furniture, Fixtures, Equipment (& Design)	\$250,000	
High Density Shelving / Residential Appliances	\$40,000	
Land Surveying Services (A-2/T-2)	\$3,800	
Geotechnical Engineering / Soil Testing	\$15,000	
Independent Materials Testing / Inspections	\$35,000	
Commissioning Agent (HVAC)	\$40,000	
Console Furniture / Radio System relocation	\$80,000	
Ground mounted antenna tower	\$60,000	
Telephone / Data System Equipment	\$50,000	
Building Equipment / AV Systems	\$50,000	
Printing, Advertising	\$5,000	
Relocation / Moving Expenses	\$15,000	
Utility Company Backcharges	\$15,000	
Builder's Risk Insurance Policy	\$30,000	
Relocation of Skateboard Park	\$100,000	
Owner's Legal Fees / Bonding Costs	\$125,000	
Administrative Costs / Owner's Expenses	TBD	
Subtotal		\$1,913,800
Project Contingency (10% of hard costs)	\$885,000	\$885,000
Project Total		\$11,652,142

- Excluded from the estimate are costs associated with contaminated soil conditions, mass rock excavation
- Project is a construction duration of 14 months to Substantial Completion
- Hard Cost estimates are from FV Consulting cost estimate, dated May 13, 2020
- Soft Costs are indicated as "allowance" amounts for budgeting purposes. Actual costs may vary.

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

PLYMOUTH POLICE FACILITY
Plymouth , CT
Schematic Design Construction Cost Estimate Summary

	ITEM	Site Improvement Cost	Main Building Cost	\$/SF for Main Building Only	Out Building	Carport	TOTAL COST
1	Sitework Preparation	\$76,980	\$0		\$0	\$0	\$76,980
2	Site Excavation	\$77,030	\$0		\$20,400	\$0	\$97,430
3	Site Utilities	\$433,550	\$0		\$30,200	\$0	\$463,750
4	Site Paving, Concrete and Curbing	\$292,680	\$0		\$0	\$0	\$292,680
5	Site Amenities	\$98,120	\$0		\$0	\$0	\$98,120
6	Landscaping	\$56,900	\$0		\$0	\$0	\$56,900
7	Foundation Excavation		\$93,085	\$5.69	\$4,575	\$2,700	\$100,360
8	Concrete		\$399,408	\$24.41	\$46,976	\$7,180	\$453,564
9	Masonry		\$239,495	\$14.63	\$0	\$0	\$239,495
10	Structural Steel and Precast Plank		\$497,325	\$30.39	\$0	\$57,720	\$555,045
11	Miscellaneous Metal		\$157,755	\$9.64	\$13,800	\$0	\$171,555
12	Rough Carpentry		\$256,459	\$15.67	\$70,559	\$0	\$327,018
13	Finish Carpentry		\$145,765	\$8.91	\$0	\$0	\$145,765
14	Moisture Protection/Roofing		\$198,460	\$12.13	\$25,334	\$34,612	\$258,406
15	Insulation		\$75,625	\$4.62	\$21,530	\$0	\$97,155
16	Windows and Glass		\$48,455	\$2.96	\$0	\$0	\$48,455
17	Doors, Frames and Hardware		\$177,275	\$10.83	\$16,775	\$0	\$194,050
18	Drywall and LGMF		\$417,813	\$25.53	\$8,100	\$0	\$425,913
19	Acoustical Ceiling		\$46,825	\$2.86	\$0	\$0	\$46,825
20	Flooring and Tile		\$234,213	\$14.31	\$1,800	\$0	\$236,013
21	Painting		\$59,267	\$3.62	\$3,760	\$0	\$63,027
22	Specialties/Accessories		\$238,528	\$14.58	\$6,700	\$0	\$245,228
23	Appliances - By Owner		\$0	\$0.00	\$0	\$0	\$0
24	Elevator		\$96,000	\$5.87	\$0	\$0	\$96,000
25	Plumbing		\$309,063	\$18.89	\$10,420	\$0	\$319,483
26	Fire Protection		\$105,000	\$6.42	\$0	\$0	\$105,000
27	HVAC		\$666,409	\$40.72	\$8,400	\$0	\$674,809
28	Electric		\$732,519	\$44.76	\$27,300	\$7,250	\$767,069
29	Integrated Technology		\$253,658	\$15.50	\$10,000	\$3,000	\$266,658
30	Subtotal Direct Trade Costs	\$1,035,260	\$5,448,398	\$332.93	\$326,629	\$112,462	\$6,922,749
31	General Conditions	\$116,133	\$611,190	\$37.35	\$36,641	\$12,616	\$776,580
32	Contractor Fee (3.5%)	\$40,299	\$212,086	\$12.96	\$12,714	\$4,378	\$269,476
33	Winter Weather Protection/ Temporary Heat	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.	In Gen. Cond.
34	Subtotal	\$1,191,692	\$6,271,673	\$383.24	\$375,984	\$129,455	\$7,968,804
35							
36	Performance and Payment Bond (1%)	\$11,917	\$62,717	\$3.83	\$3,760	\$1,295	\$79,688
37	Subtotal	\$1,203,609	\$6,334,390	\$387.07	\$379,744	\$130,750	\$8,048,493
38							
39	Estimating Contingency (10%)	\$120,361	\$633,439	\$38.71	\$37,974	\$13,075	\$804,849
41	Construction Contingency	By Owner	By Owner	By Owner	By Owner	By Owner	By Owner
42	Subtotal	\$1,323,970	\$6,967,829	\$425.78	\$417,718	\$143,825	\$8,853,342
43							
44	Cost Escalation to Construction Start	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded
	PROJECT TOTAL	\$1,323,970	\$6,967,829	\$425.78	\$417,718	\$143,825	\$8,853,342
	NOTES:						
	1. Pricing is based upon prevailing wage labor rates.						
	2. The estimate is based upon April 2020 construction prices. No cost escalation is included.						
	3. The estimate assumes no cost premiums due to construction health & safety measures which may be required due to the Covid-19 pandemic. Furthermore, the estimate does not reflect any cost impacts for materials and labor, either upwards or downwards, which may be influenced by the current US economic downturn.						
	4. The estimate assumes the construction duration is 14 months.						
	5. Removal and disposal of contaminated soil is not included.						
	6. Removal of ledge and below grade obstructions is not included.						
	7. The estimate assumes simple spread footings for the foundations. The footing for the communications tower is included as an allowance of \$25,000.						
	8. The estimate includes an allowance of \$25,000 to demolish and dispose of the existing skateboard park structure. No cost is included to rebuild this venue.						
	9. The estimate <u>excludes</u> the cost of dispatch console and communications tower.						

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
1	Sitework Preparation and Demolition					
2	Silt Fence	900	lf	\$ 2.00	\$ 1,800.00	
3	Haybale Erosion Control	900	lf	\$ 6.00	\$ 5,400.00	
4	Tree Removal and Tree Trimming (appears minor)	1	allow	\$ 2,500.00	\$ 2,500.00	
5	Jersey Barriers at Existing Parking Area abutting Existing Parking	160	lf	\$ 40.00	\$ 6,400.00	
6	Perimeter Construction Fencing 8'	1,200	lf	\$ 24.00	\$ 28,800.00	
7	Fence Gate	1	ea	\$ 1,000.00	\$ 1,000.00	
8	Truck Washdown Area	1	allow	\$ 1,500.00	\$ 1,500.00	
9	Demolish Skateboard Venue and Dispose	1	allow	\$ 25,000.00	\$ 25,000.00	Allowance
10	Remove Impound Fencing and Misc.	1	allow	\$ 2,000.00	\$ 2,000.00	
11	Remove and Dispose of Asphalt Paving	215	sy	\$ 12.00	\$ 2,580.00	
12	Subtotal				\$ 76,980.00	
13						
14	Site Earthwork					
15	Clear and Grub	site is grass				
16	Strip Topsoil (3") and Stockpile	600	cy	\$ 6.00	\$ 3,600.00	
17	Cuts and Fills (assume 1-1/2' avg. excluding building foundation excav.)	2,950	cy	\$ 5.00	\$ 14,750.00	
18	Additional Import structural fill (allow)	Assume None Needed				
19	Soil Disposal as Clean Fill	Assume all Remains on Site				
20	Rough Grade and Proof Roll for Sitework	8,000	sy	\$ 1.25	\$ 10,000.00	
21	Fine Grade and Compact at Paved Areas and Walkways	4,150	sy	\$ 1.50	\$ 6,225.00	
22	6" Gravel under sidewalks and concrete pads	100	cy	\$ 32.00	\$ 3,200.00	
23	12" Dense Grade under Drives and Parking	1,200	cy	\$ 28.00	\$ 33,600.00	
24	Excavate and Backfill for Site Walls	150	cy	\$ 30.00	\$ 4,500.00	
25	Compacted Stone Base for Modular Site Walls	15	cy	\$ 45.00	\$ 675.00	
26	Additional Excavation for Communications Tower Footing	30	cy	\$ 16.00	\$ 480.00	
27	Excavate/Backfill for Underground Piping	in Utilities				
28	Excavate/Backfill for Ductbanks	in Utilities				
29	Trench for Site Lighting Conduit	in Utilities				
30	Subtotal				\$ 77,030.00	
31						
32	Site Utilities					
33	<u>Water Service:</u>					
34	-New Hydrant	1	ea	\$ 3,500.00	\$ 3,500.00	
35	-Domestic Water/Fire Service (assume 4")	300	lf	\$ 90.00	\$ 27,000.00	
36	-Connection and Valve at Schultz St.	1	loc	\$ 7,500.00	\$ 7,500.00	
37	-Trenching and Backfill	300	lf	\$ 40.00	\$ 12,000.00	
38	<u>Sanitary System:</u>					
39	-Manholes	1	allow	\$ 30,000.00	\$ 30,000.00	
40	-Piping	300	lf	\$ 60.00	\$ 18,000.00	
41	-Connect to Existing in Schultz Street	1	loc	\$ 1,500.00	\$ 1,500.00	
42	-Trenching and Backfill	300	lf	\$ 40.00	\$ 12,000.00	
43	<u>Misc. Storm Drainage and Stormwater Infiltration</u>	1	allow	\$ 100,000.00	\$ 100,000.00	
44	<u>Gas Service:</u>					
45	-Piping and Connections	by Utility Company				
46	-Shallow Trenching and Backfill	300	lf	\$ 20.00	\$ 6,000.00	
47	<u>Electrical and Telephone Service:</u>					
48	-Primary Ductbank - 2-4"	285	lf	\$ 170.00	\$ 48,450.00	includes concrete
49	-Secondary Ductbank 4-4"	20	lf	\$ 250.00	\$ 5,000.00	includes concrete
50	-Tie-in Conduit to Service on Schultz	1	loc	\$ 2,500.00	\$ 2,500.00	
51	-Primary Cabling and Connections	by Utility Company				

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
52	-Transformer Pad	in Site Concrete				
53	-Emergency Generator Ductbank	in Electrical				
54	-Tel/Data Conduit Duct Bank	300	lf	\$ 200.00	\$ 60,000.00	includes concrete
55	-Excavate/Backfill for Ductbanks	605	lf	\$ 40.00	\$ 24,200.00	
56	<u>Site Lighting:</u>					
57	-Light Poles and Bases	9	ea	\$ 4,000.00	\$ 36,000.00	
58	-Flagpole Lights	2	ea	\$ 600.00	\$ 1,200.00	
59	-Light Bollards	12	ea	\$ 750.00	\$ 9,000.00	
60	-Conduit and Wire for Site Lights	850	lf	\$ 20.00	\$ 17,000.00	
61	-Timer/Control for Site Lights	1	allow	\$ 1,000.00	\$ 1,000.00	
62	-Shallow Trench for Site Lighting Conduit	850	lf	\$ 12.00	\$ 10,200.00	
63	<u>Misc. Power Requirements:</u>					
64	-Power to Access Gates	1	allow	\$ 1,500.00	\$ 1,500.00	
65	-Conduit and Power to Carport	in Carport Estimate				
66	-Conduit and Power to Out Building	in Out Building Estimate				
67	Subtotal				\$ 433,550.00	
68						
69	<u>Site Paving, Concrete and Curbing</u>					
70	Precast Concrete Curbs	1,365	lf	\$ 34.00	\$ 46,410.00	
71	Precast Wheelstops at HC Parking	3	ea	\$ 100.00	\$ 300.00	
72	Plating/Asphalt Patching Street for Utility Tie-ins	1	allow	\$ 20,000.00	\$ 20,000.00	
73	Sawcut Pavement at Existing Parking	200	lf	\$ 4.00	\$ 800.00	
74	Asphalt Paving (3-1/2")	3,760	sy	\$ 27.00	\$ 101,520.00	
75	Parking Lot Striping	58	spcs	\$ 25.00	\$ 1,450.00	
76	Handicap Space Symbols	3	loc	\$ 25.00	\$ 75.00	
77	Crosshatch Striping	6	loc	\$ 150.00	\$ 900.00	
78	Misc. Line Striping and Lettering on Pavement	1	allow	\$ 1,500.00	\$ 1,500.00	
79	Engineered Modular Concrete Retaining Walls	900	sf	\$ 35.00	\$ 31,500.00	
80	Precast Cap for Site Walls	265	lf	\$ 45.00	\$ 11,925.00	
81	Concrete Pad for Emergency Generator	1	allow	\$ 5,000.00	\$ 5,000.00	
82	Concrete Transformer Pad	1	allow	\$ 4,000.00	\$ 4,000.00	
83	Concrete Footings for Gate Operators	2	ea	\$ 700.00	\$ 1,400.00	
84	Footing for Radio Tower	1	allow	\$ 25,000.00	\$ 25,000.00	
85	Concrete Sidewalks	2,130	sf	\$ 10.00	\$ 21,300.00	
86	Tactile Warning Strips at Wheelchair Ramps and Haunch	4	loc	\$ 400.00	\$ 1,600.00	
87	Concrete Pads at Utility and Communication Tower Locations	1,600	sf	\$ 10.00	\$ 16,000.00	
88	Concrete Footings for Flagpoles	2	ea	\$ 1,000.00	\$ 2,000.00	
89	Subtotal				\$ 292,680.00	
90						
91	<u>Site Amenities</u>					
92	<u>Fencing:</u>					
93	-Aluminum Picket Fencing on Top of Site Walls	235	lf	\$ 75.00	\$ 17,625.00	
94	-8' High Vinyl Coated Chain Link Fence at Perimeter	800	lf	\$ 35.00	\$ 28,000.00	
95	-8' High Vinyl Coated Chain Link Fence at Car Impond	105	lf	\$ 35.00	\$ 3,675.00	
96	-8' High x 15' Vinyl Coated Chain Link Gates at Impound	4	ea	\$ 1,000.00	\$ 4,000.00	
97	-6' High Vinyl Coated Chain Link Fence at Generator and Comm Tower	90	lf	\$ 30.00	\$ 2,700.00	
98	-6' Double Chain Link Gates at Generator and Tower Enclosures	2	ea	\$ 500.00	\$ 1,000.00	
99	-Wood Stockade Fence at Dumpster Enclosure	52	lf	\$ 85.00	\$ 4,420.00	
100	-Fence Gate at Dumpster Enclosure	1	ea	\$ 750.00	\$ 750.00	
101	Automatic Operators for Swing Gates and Controls	1	allow	\$ 20,000.00	\$ 20,000.00	
102	HC Ramp and Stairs at Building Entry	in Building Estimate				
103	Bike Rack including Concrete Footing		None			

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
104	Metal Benches including Concrete Footing		None			
105	Bollards at Transformer and Generator	6	ea	\$ 700.00	\$ 4,200.00	
106	Flagpoles	2	ea	\$ 3,000.00	\$ 6,000.00	
107	HC Parking Signage	3	ea	\$ 125.00	\$ 375.00	
108	Do Not Enter Signs	1	ea	\$ 125.00	\$ 125.00	
109	Restricted Access Signs	2	ea	\$ 125.00	\$ 250.00	
110	Building Identification Sign	1	allow	\$ 5,000.00	\$ 5,000.00	
111	Subtotal				\$ 98,120.00	
112						
113	Landscaping					
114	Reuse and Fortify Stockpiled Loam	600	cy	\$ 25.00	\$ 15,000.00	
115	Trees	1	allow	\$ 25,000.00	\$ 25,000.00	
116	Shrubs, Flowering Plants and Groundcover	1	allow	\$ 10,000.00	\$ 10,000.00	
117	Mulch	1	allow	\$ 2,500.00	\$ 2,500.00	
118	Hydroseed	22,000	sf	\$ 0.20	\$ 4,400.00	
119	Irrigation	Not Included				
120	Subtotal				\$ 56,900.00	
121						
122	Building Excavation					
123	Excavate for Building to Subgrade Elevation 602.5'	2,350	cy	\$ 6.00	\$ 14,100.00	
124	Excavate for Foundation Footings	200	cy	\$ 10.00	\$ 2,000.00	
125	Excavate for Entry Ramp and Stair Footings	200	cy	\$ 10.00	\$ 2,000.00	
126	Excavate and Backfill for Elevator Pit	1	ea	\$ 2,000.00	\$ 2,000.00	
127	General Backfill of Building Foundation and Footings	550	cy	\$ 14.00	\$ 7,700.00	
128	General Backfill of Ramp and Stair Foundation	120	cy	\$ 14.00	\$ 1,680.00	
129	Perimeter Foundation Drain for Main Building	500	lf	\$ 25.00	\$ 12,500.00	
130	4" Crushed Stone under Slabs	105	cy	\$ 25.00	\$ 2,625.00	
131	Gravel for Slabs (12")	315	cy	\$ 32.00	\$ 10,080.00	
132	Trenching for Interior Piping	600	lf	\$ 12.00	\$ 7,200.00	
133	Excavate /Backfill for Generator Ductbank	in Foundation Excavation				
134	Ledge and Obstruction Removal	Not Included				
135	Truck Out Overburden as Clean Fill	2,080	cy	\$ 15.00	\$ 31,200.00	
136	Contaminated Soil Removal	Not Included				
137	Subtotal				\$ 93,085.00	
138						
139	Concrete					
140	Strip Footings for Frost Walls (assume 1'x2'-6"):					
141	-Formwork	600	sf	\$ 8.00	\$ 4,800.00	
142	-Rebar	1,500	lbs	\$ 1.25	\$ 1,875.00	assume 2#/sf
143	-Concrete Furnished and Installed	28	cy	\$ 190.00	\$ 5,320.00	
144	Frost Walls (assume 1'x3'-6"):					
145	-Formwork	2,100	sf	\$ 10.00	\$ 21,000.00	
146	-Rebar	2,600	lbs	\$ 1.25	\$ 3,250.00	assume 2-1/2#/sf
147	-Concrete Furnished and Installed	39	cy	\$ 205.00	\$ 7,995.00	
148	-Rebar Dowels for CMU and At Exterior Door Openings	1	allow	\$ 1,500.00	\$ 1,500.00	
149	Strip Footings for High Walls (assume 1-4'x4'):					
150	-Formwork	550	sf	\$ 8.00	\$ 4,400.00	
151	-Rebar	2,920	lbs	\$ 1.25	\$ 3,650.00	assume 4#/sf
152	-Concrete Furnished and Installed	36	cy	\$ 190.00	\$ 6,840.00	
153	High Walls (assume 1'x11'):					
154	-Formwork	4,000	sf	\$ 10.00	\$ 40,000.00	
155	-Rebar	8,000	lbs	\$ 1.25	\$ 10,000.00	assume 4#/sf

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
156	-Concrete Furnished and Installed	74	cy	\$ 205.00	\$ 15,170.00	
157	Interior Spread Footings for Building	6	ea	\$ 600.00	\$ 3,600.00	
158	Spread Footings for Canopy	6	ea	\$ 500.00	\$ 3,000.00	
159	Spread Footings at Perimeter Walls	24	ea	\$ 400.00	\$ 9,600.00	
160	Piers at Frost Wall	14	ea	\$ 300.00	\$ 4,200.00	
161	Piers at High Wall	10	ea	\$ 500.00	\$ 5,000.00	
162	Piers at Canopy Footings	6	ea	\$ 400.00	\$ 2,400.00	
163	Set Column Base Plates	40	ea	\$ 150.00	\$ 6,000.00	
164	Elevator Pit	1	ea	\$ 15,000.00	\$ 15,000.00	
165	Ejector Pit	1	ea	\$ 2,500.00	\$ 2,500.00	
166	Set Column Base Plates	30	ea	\$ 150.00	\$ 4,500.00	
167	SOG (4")	6,830	sf	\$ 9.50	\$ 64,885.00	
168	SOG (6") at Sally Port	1,530	sf	\$ 11.00	\$ 16,830.00	
169	Concrete Aprons at Sally Port Doors	100	sf	\$ 15.00	\$ 1,500.00	
170	Formwork for Trench Drains	60	lf	\$ 8.00	\$ 480.00	
171	Formwork for Misc. Slab Depressions	1	allow	\$ 1,000.00	\$ 1,000.00	
172	Thickened slab for CMU walls	5	cy	\$ 200.00	\$ 1,000.00	
173	2" Lightweight Concrete Topping Slab	7,200	sf	\$ 5.50	\$ 39,600.00	
174	Moisture Mitigation Additive in SOG and Topping Slab	14,030	sf	\$ 1.25	\$ 17,537.50	
175	Concrete Fill in Stair Pans and Landing	1	flight	\$ 2,000.00	\$ 2,000.00	
176	Concrete Base for Lockers	72	lf	\$ 30.00	\$ 2,160.00	
177	Mechanical Equipment Pads	1	allow	\$ 2,500.00	\$ 2,500.00	
178	<u>Footings for Exterior Stair and Ramp Walls:</u>					
179	-Formwork	260	sf	\$ 8.00	\$ 2,080.00	
180	-Rebar	1,700	lbs	\$ 1.25	\$ 2,125.00	assume 2#/sf
181	-Concrete Furnished and Installed	28	cy	\$ 190.00	\$ 5,320.00	
182	<u>Exterior Stair and Ramp Walls (assume 1'x3'-6"):</u>					
183	-Formwork	3,200	sf	\$ 10.00	\$ 32,000.00	
184	-Rebar	4,500	lbs	\$ 1.25	\$ 5,625.00	assume 2.5#/sf
185	-Concrete Furnished and Installed	45	cy	\$ 205.00	\$ 9,225.00	
186	6" Exterior Slabs for Stair Landing and Ramp	540	sf	\$ 11.00	\$ 5,940.00	
187	Exterior Stairs	8	cy	\$ 750.00	\$ 6,000.00	
188	Subtotal				\$ 399,407.50	
189						
190	<u>Masonry</u>					
191	8" CMU Solid Grout at Detention	3,815	sf	\$ 32.00	\$ 122,080.00	
192	8" Standard CMU at Sally Port	830	sf	\$ 28.00	\$ 23,240.00	
193	8" CMU at Elevator Hoistway	1,000	lf	\$ 32.00	\$ 32,000.00	
194	Thin Brick Veneer at Building	945	sf	\$ 26.00	\$ 24,570.00	
195	Thin Brick Veneer at Exterior Stair and Ramp	530	sf	\$ 26.00	\$ 13,780.00	
196	Precast Cap at Thin Brick on Building	170	lf	\$ 40.00	\$ 6,800.00	
197	1' Wide Precast Cap on Ramp and Stair Landings	140	lf	\$ 60.00	\$ 8,400.00	
198	2'-6" Wide Precast Cap at Stair Cheek Walls	115	sf	\$ 75.00	\$ 8,625.00	
199	Subtotal				\$ 239,495.00	
200						
201	<u>Structural Steel and Precast Plank</u>					
202	Column Base Plates and Bolts	40	ea	\$ 200.00	\$ 8,000.00	
203	Steel Framing for Main Level	45	tons	\$ 3,700.00	\$ 166,500.00	assume 12 lbs/sf
204	Steel Framing for Roof Attics	38	tons	\$ 3,700.00	\$ 140,600.00	assume 10 lbs/sf
205	Steel Framing for Flat Roofs	13	tons	\$ 3,700.00	\$ 48,100.00	assume 10 lbs/sf
206	8" Precast Hollow Core Plank	7,200	sf	\$ 16.00	\$ 115,200.00	
207	2" Concrete Topping Slab	in Concrete				

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Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
208	Metal Roof Deck at Flat Roofs	2,550	sf	\$ 3.50	\$ 8,925.00	
209	Misc. Detailing for Beam Penetrations and Connections	1	allow	\$ 10,000.00	\$ 10,000.00	
210	Subtotal				\$ 497,325.00	
211						
212	Miscellaneous Metal					
213	Holding Cell fronts		in doors			
214	Steel Access Door		in doors			
215	Secruity Bench with Handcuff Bars		in specialties			
216	Security Collars at Diffusers		in specialties			
217	Light Galvanized Angle to Support Exterior Precast Cap	172	lf	\$ 35.00	\$ 6,020.00	
218	Supports for Lav Countertops	12	lf	\$ 60.00	\$ 720.00	
219	Loose lintels at CMU	80	lf	\$ 50.00	\$ 4,000.00	
220	Toilet Partition Supports		none			
221	Metal Ceilings at detention area		in specialties			
222	Metal Stair Pan and Railings	1	flgt	\$ 20,000.00	\$ 20,000.00	
223	Ship Ladder to Attic	1	ea	\$ 5,000.00	\$ 5,000.00	
224	Elevator Pit Ladder, Hoist Beam and Sill Angles	1	allow	\$ 2,500.00	\$ 2,500.00	
225	Trench Drain Frames and Grates	30	lf	\$ 200.00	\$ 6,000.00	
226	Misc Metal to Support OH Doors	4	ea	\$ 2,000.00	\$ 8,000.00	
227	Bollards at OH Doors	8	ea	\$ 750.00	\$ 6,000.00	
228	Misc. Steel for Mech. Equipment Support	1	allow	\$ 5,000.00	\$ 5,000.00	
229	Clip Angles for CMU	1	allow	\$ 2,500.00	\$ 2,500.00	
230	Stair Railings at Main Entry	48	lf	\$ 300.00	\$ 14,400.00	
231	HC Ramp Railings	175	lf	\$ 350.00	\$ 61,250.00	
232	Catwalk Railings in Attic		Not Required			
233	Misc. Metal	16,365	sf	\$ 1.00	\$ 16,365.00	
234	Subtotal				\$ 157,755.00	
235						
236	Rough Carpentry					
237	Roof Framing and Sheathing:					
238	-Roof Trusses at Main Building	7,210	sf	\$ 5.25	\$ 37,852.50	
239	-Bearing Plate for Roof Trusses	440	lf	\$ 12.00	\$ 5,280.00	
240	-LVL Headers at Overhead Doors	52	lf	\$ 60.00	\$ 3,120.00	
241	-Blocking, Detailing and Lateral Framing for Trusses	7,210	sf	\$ 1.00	\$ 7,210.00	
242	-Conventional Roof Framing at Entry	600	sf	\$ 10.00	\$ 6,000.00	
243	-Framing for Gables at Front Elevation	100	sf	\$ 7.50	\$ 750.00	
244	-Framing and Sheathing for Exterior Walls		in Drywall/LGMF			
245	-Rafter Extentions at Eaves	130	ea	\$ 60.00	\$ 7,800.00	
246	-Framing and Sheathing for Gable Ends		in Drywall/LGMF			
247	-Plywood Sheathing for Sloped Roofs	9,660	sf	\$ 3.00	\$ 28,980.00	
248	-Plywood Decking on Flat Roofs		None			
249	-Framing and Plywood for Catwalk	500	sf	\$ 15.00	\$ 7,500.00	
250	-Blocking at Misc. MEP Roof Penetrations	1	allow	\$ 1,000.00	\$ 1,000.00	
251	-Fasteners, Adhesives and Hangers for Framing	1	allow	\$ 7,500.00	\$ 7,500.00	
252	Exterior Siding and Trim:					
253	-1' EIFS Panels at Exposed Foundation where Meeting Soil	200	sf	\$ 15.00	\$ 3,000.00	
254	-Cementboard Siding	7,200	sf	\$ 5.50	\$ 39,600.00	
255	-Flat Panel Siding at Entry Gable	90	sf	\$ 6.50	\$ 585.00	
256	-Block for Windows, Louvers and Exterior Doors	26	ea	\$ 150.00	\$ 3,900.00	
257	-Blocking at Nailbase		in Drywall			
258	-3/4" Plywood Blocking at Watertable	400	lf	\$ 3.00	\$ 1,200.00	
259	-1x12 PVC Trim Board at Watertable	400	lf	\$ 12.00	\$ 4,800.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
260	-PVC Grounds at Inside Corners	66	lf	\$ 4.00	\$ 264.00	
261	-PVC Outside Corner Trim	230	lf	\$ 8.00	\$ 1,840.00	
262	-Eave Trim, Soffit, Vent and Backup Framing	275	lf	\$ 30.00	\$ 8,250.00	
263	-Rake Trim, Soffit and Back-up Framing	210	lf	\$ 20.00	\$ 4,200.00	
264	-Eave Blocking, Trim and Soffit at Flat Roofs	175	lf	\$ 24.00	\$ 4,200.00	
265	-Install Windows	19	ea	\$ 150.00	\$ 2,850.00	
266	-Window and Door PVC Trim Boards	378	lf	\$ 9.00	\$ 3,402.00	
267	-Decorative Headers at Windows and Doors	95	lf	\$ 12.00	\$ 1,140.00	
268	-Additional Trim at Front Entry	1	allow	\$ 2,500.00	\$ 2,500.00	
269	-PVC Trim Boards at OH Doors	132	lf	\$ 10.00	\$ 1,320.00	
270	-Vinyl Soffits at Canopies	1,115	sf	\$ 6.00	\$ 6,690.00	
271	-PVC Half Columns/Trim	4	ea	\$ 800.00	\$ 3,200.00	
272	-PVC Full Columns/Trim at Entry and Rear Canopy	12	ea	\$ 1,200.00	\$ 14,400.00	
273	-5' Window Shutters	14	pr	\$ 400.00	\$ 5,600.00	
274	-2'-6" Window Shutters	3	pr	\$ 300.00	\$ 900.00	
275	-Triangular Louvers in Gable Ends	3	ea	\$ 400.00	\$ 1,200.00	
276	-Fasteners, Adhesives and Sealants for Siding	1	allow	\$ 2,500.00	\$ 2,500.00	
277	<u>Interior Blocking and Framing:</u>					
278	-2x Infill Framing for Attic Catwalk	1,000	sf	\$ 6.00	\$ 6,000.00	allowance
279	-Plywood Catwalk Decking in Attic	500	sf	\$ 3.25	\$ 1,625.00	allowance
280	-Toilet Accessory Blocking	6	baths	\$ 250.00	\$ 1,500.00	
281	-Electric Backboards with 2x4 Blocking	1	allow	\$ 2,000.00	\$ 2,000.00	
282	-Plywood Ceiling Substrate at Security Ceiling	in Drywall				
283	-Blocking for Millwork/Lockers/Counters	1	allow	\$ 2,500.00	\$ 2,500.00	
284	-Blocking for Cable Trays	1	allow	\$ 1,000.00	\$ 1,000.00	
285	-Blocking at Attic Hatch	1	loc	\$ 200.00	\$ 200.00	
286	-Block for interior doors and borrowed lites	72	opngs	\$ 50.00	\$ 3,600.00	
287	-Misc. Rough Framing, Firestopping and Blocking	1	allow	\$ 5,000.00	\$ 5,000.00	
288	-Misc. Exterior Trim	1	allow	\$ 2,500.00	\$ 2,500.00	
289	Subtotal				\$ 256,458.50	
290						
291	<u>Finish Carpentry/Millwork</u>					
292	Upper Cabinets at Dispatch - PLAM	8	lf	\$ 350.00	\$ 2,800.00	
293	Base Cabinets at Dispatch - PLAM	20	lf	\$ 200.00	\$ 4,000.00	
294	PLAM Counters and Splash at Dispatch	46	sf	\$ 30.00	\$ 1,380.00	
295	PLAM Transaction Counter at Dispatch	18	lf	\$ 60.00	\$ 1,080.00	
296	EOC Room Base Cabinets	9	lf	\$ 350.00	\$ 3,150.00	
297	EOC Room Upper Cabinets	7	lf	\$ 200.00	\$ 1,400.00	
298	EOC Room Open Cubbies	5	lf	\$ 200.00	\$ 1,000.00	
299	EOC Room PLAM Counter and Backsplash	40	sf	\$ 30.00	\$ 1,200.00	
300	Report Writing Room Base Cabinets	6	lf	\$ 350.00	\$ 2,100.00	
301	Report Writing Room Upper Cabinets	18	lf	\$ 200.00	\$ 3,600.00	
302	Report Writing Room Open Cubbies	6	lf	\$ 200.00	\$ 1,200.00	
303	Report Writing Room Solid Surface Counter and Backsplash	67	sf	\$ 80.00	\$ 5,360.00	
304	Copy Room Base Cabinets	13	lf	\$ 350.00	\$ 4,550.00	
305	Copy Room Upper Cabinets	13	lf	\$ 200.00	\$ 2,600.00	
306	Copy Room PLAM Counter and Backsplash	30	sf	\$ 30.00	\$ 900.00	
307	Computer Forensics Base Cabinets	17	lf	\$ 350.00	\$ 5,950.00	
308	Computer Forensics Upper Cabinets	23	lf	\$ 200.00	\$ 4,600.00	
309	Computer Forensics PLAM Counter and Backsplash	54	sf	\$ 30.00	\$ 1,620.00	
310	Quartermaster Base Cabinets	12	lf	\$ 350.00	\$ 4,200.00	
311	Quartermaster Upper Cabinets	12	lf	\$ 200.00	\$ 2,400.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
312	Quartermaster PLAM Counter and Backsplash	28	sf	\$ 30.00	\$ 840.00	
313	Quartermaster Rod and Shelf	5	lf	\$ 40.00	\$ 200.00	
314	Lunch Room Base Cabinets	20	lf	\$ 350.00	\$ 7,000.00	
315	Lunch Room Upper Cabinets	14	lf	\$ 200.00	\$ 2,800.00	
316	Lunch Room PLAM Counter and Backsplash	46	sf	\$ 30.00	\$ 1,380.00	
317	PLAM Counter/Support at Observation	20	sf	\$ 50.00	\$ 1,000.00	
318	Prisoner Processing Base Cabinetry-PLAM	17	lf	\$ 350.00	\$ 5,950.00	
319	Prisoner Processing Upper Cabinetry-PLAM	8	lf	\$ 200.00	\$ 1,600.00	
320	Prisoner Processing countertops-S/S	54	sf	\$ 80.00	\$ 4,320.00	
321	Evidence Base Cabinets	32	lf	\$ 350.00	\$ 11,200.00	
322	Evidence Upper Cabinets	12	lf	\$ 200.00	\$ 2,400.00	
323	Evidence Resin Counter and Backsplash	86	sf	\$ 100.00	\$ 8,600.00	
324	Evidence Pass Thru Cabinets	6	lf	\$ 50.00	\$ 300.00	
325	Armory Base Cabinets	13	lf	\$ 350.00	\$ 4,550.00	
326	Armory Upper Cabinets	13	lf	\$ 200.00	\$ 2,600.00	
327	Armory Resin Counter and Backsplash	30	sf	\$ 100.00	\$ 3,000.00	
328	Admin Kitchen Base Cabinets	8	lf	\$ 350.00	\$ 2,800.00	
329	Admin Kitchen Upper Cabinets	8	lf	\$ 200.00	\$ 1,600.00	
330	Admin Kitchen PLAM Counter and Backsplash	19	sf	\$ 30.00	\$ 570.00	
331	Conf. Room Base Cabinets	5	lf	\$ 350.00	\$ 1,750.00	
332	Conf. Room Upper Cabinets	5	lf	\$ 200.00	\$ 1,000.00	
333	Conf. Room PLAM Counter and Backsplash	12	sf	\$ 30.00	\$ 360.00	
334	PVC Wainscot Panelling Cladding in Circulation Areas	920	sf	\$ 15.00	\$ 13,800.00	
335	Closet Rod and Shelf	20	lf	\$ 40.00	\$ 800.00	
336	Storage Shelving at Custodian		FFE			
337	Storage Shelving at Armory		FFE			
338	Vanity and Countertop at Admin Restroom	1	ea	\$ 1,000.00	\$ 1,000.00	
339	Lav Tops and Backsplashes(solid surface material)	12	lf	\$ 175.00	\$ 2,100.00	
340	Lav Skirt/Pipe Guards	2	loc	\$ 600.00	\$ 1,200.00	
341	Install Doors, Frames, Hardware		in Doors			
342	Window Jamb Extentions	17	loc	\$ 175.00	\$ 2,975.00	
343	Window Apron Trim	60	lf	\$ 8.00	\$ 480.00	
344	Locker Base		in Concrete			
345	Misc. Wood Trim and shelving	1	allow	\$ 2,500.00	\$ 2,500.00	
346	Subtotal				\$ 145,765.00	
347						
348	<u>Moisture Protection/Roofing</u>					
349	<u>Waterproofing:</u>					
350	-Foundation dampproofing	2,000	sf	\$ 2.00	\$ 4,000.00	
351	-Foundation Waterproofing and Drainage Board at High Walls	1,100	sf	\$ 10.00	\$ 11,000.00	
352	-Waterproof Elevator Pit	1	ls	\$ 4,000.00	\$ 4,000.00	
353	-Concrete Floor Sealer		in Flooring			
354	<u>Air Barriers and Flashings:</u>					
355	-Peel and Stick Air and Water Barrier at CMU	1,000	sf	\$ 8.00	\$ 8,000.00	
356	-Air Barrier at Exterior Siding and Soffits	7,000	sf	\$ 2.50	\$ 17,500.00	
357	-Wrap Air Barrier into Window, Louver and Door Openings	30	loc	\$ 150.00	\$ 4,500.00	
358	-Bond Breaker Membrane at Foundation Wall	400	lf	\$ 2.00	\$ 800.00	
359	-Flashing at PVC Watertable	400	lf	\$ 10.00	\$ 4,000.00	
360	-Flashing at Base of Brick Veneer	320	lf	\$ 10.00	\$ 3,200.00	
361	-Flashing at Window, Louver and Door Headers	26	opngs	\$ 100.00	\$ 2,600.00	
362	-Flashing at Overhead Door Headers	4	opngs	\$ 300.00	\$ 1,200.00	
363	-Flashing at CMU		in Masonry			

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364	<u>Flat Roofs:</u>					
365	-EPDM Roof with Insulation (flat)	2,550	sf	\$ 18.00	\$ 45,900.00	
366	-EPDM Membrane and Counterflash up Sidewalls	100	sf	\$ 30.00	\$ 3,000.00	
367	-Metal Coping at EPDM	180	lf	\$ 16.00	\$ 2,880.00	
368	-Flashing at Misc. Roof Penetrations	1	allow	\$ 2,000.00	\$ 2,000.00	
369	<u>Sloped Roofs:</u>					
370	-30 Yr Asphalt Shingle Roof and Felt Underlayment	9,660	sf	\$ 5.00	\$ 48,300.00	
371	-Ice and Watershield - 6' From Edge	3,000	sf	\$ 3.50	\$ 10,500.00	
372	-Copper Valleys	102	lf	\$ 30.00	\$ 3,060.00	
373	-Metal Drip Edge	460	lf	\$ 5.00	\$ 2,300.00	
374	-Ridge Vents	200	lf	\$ 10.00	\$ 2,000.00	
375	-Misc Flashing of Mechanical Roof Penetrations	1	allow	\$ 2,000.00	\$ 2,000.00	
376	-Aluminum Gutters	250	lf	\$ 10.00	\$ 2,500.00	
377	-Aluminum Downspouts	140	lf	\$ 8.00	\$ 1,120.00	
378	-Boot Connections to Perimeter Drain	8	ea	\$ 250.00	\$ 2,000.00	
379	<u>Sealants:</u>					
380	-Interior Caulking	1	allow	\$ 2,500.00	\$ 2,500.00	
381	-Exterior Caulking - Windows, Louvers and Doors	26	opngs	\$ 150.00	\$ 3,900.00	
382	-Exterior Caulking - Overhead Doors	4	opngs	\$ 300.00	\$ 1,200.00	
383	-Misc. Exterior Caulking	1	allow	\$ 2,500.00	\$ 2,500.00	
384	Subtotal				\$ 198,460.00	
385						
386	Insulation					
387	Rigid Insulation 2" at Foundation Perimeter	3,100	sf	\$ 2.75	\$ 8,525.00	
388	Rigid Insulation Under Slab on Grade - 4' in from perimeter	2,000	sf	\$ 2.50	\$ 5,000.00	
389	2' Rigid Insulation at CMU	1,200	sf	\$ 3.00	\$ 3,600.00	
390	6" Spray Foam Insulation at Exterior Wall	6,000	sf	\$ 4.50	\$ 27,000.00	
391	Batt Insulation in Webs of Perimeter Steel	900	sf	\$ 3.50	\$ 3,150.00	
392	12" Cellulose Blown In Insulation in Attic Areas	7,400	sf	\$ 2.50	\$ 18,500.00	
393	Rigid Insulation at Flat Roofs	in Roofing				
394	Fire Stopping	in MEP Trades				
395	Interior Vapor Barrier - All Surfaces	17,000	sf	\$ 0.50	\$ 8,500.00	
396	Misc. Insulation at Windows and Exterior Doors	27	opngs.	\$ 50.00	\$ 1,350.00	
397	Subtotal				\$ 75,625.00	
398						
399	Windows and Glass					
400	Vinyl Clad Wood Windows:					
401	-3-0 x 4-8	14	ea	\$ 850.00	\$ 11,900.00	
402	-3-0 x 2-6	3	ea	\$ 475.00	\$ 1,425.00	
403	Exterior Aluminum Door Frame and Sidelight at Rear Entrances	2	ea	\$ 1,500.00	\$ 3,000.00	
404	Exterior Aluminum Door Frame and Double Sidelight at Front Entrance	1	ea	\$ 2,250.00	\$ 2,250.00	
405	Interior Aluminum Door Frame and Double Sidelight at Vestibule	1	ea	\$ 2,250.00	\$ 2,250.00	
406	Exterior Aluminum Doors including Hardware	3	lvs	\$ 4,000.00	\$ 12,000.00	
407	Interior Aluminum Doors including Hardware	1	lvs	\$ 3,500.00	\$ 3,500.00	
408	Interior Sidelight and Borrowed Light Glazing	84	sf	\$ 30.00	\$ 2,520.00	
409	Mirrors at Lav Counters in Locker Rooms	42	sf	\$ 25.00	\$ 1,050.00	
410	Mirror at Fitness	224	sf	\$ 25.00	\$ 5,600.00	28' x8'
411	Impact Glazing at Booking	26	sf	\$ 40.00	\$ 1,040.00	
412	Bullet Resistant Glazing at Transaction Window	16	sf	\$ 120.00	\$ 1,920.00	
413	Subtotal				\$ 48,455.00	
414						
415	Doors, Frames, Hardware					

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
416	10'x12' Overhead Doors-Motorized	4	ea	\$ 7,500.00	\$ 30,000.00	
417	Welded Metal Frames with Sidelight	3	ea	\$ 750.00	\$ 2,250.00	
418	Welded Metal Door Frames - Single	63	ea	\$ 300.00	\$ 18,900.00	
419	Welded Metal Door Frames - Bullet Resistant	1	ea	\$ 1,000.00	\$ 1,000.00	
420	Transaction Counter Frames	1	ea	\$ 1,500.00	\$ 1,500.00	
421	Borrowed Lite Frames at Booking	2	ea	\$ 1,000.00	\$ 2,000.00	
422	Borrowed Lite Frames at Supervisors Offices	2	ea	\$ 500.00	\$ 1,000.00	
423	Exterior Hollow Metal Doors	3	lvs	\$ 375.00	\$ 1,125.00	
424	Interior Hollow Metal Doors	11	lvs	\$ 350.00	\$ 3,850.00	
425	Wood Doors	52	lvs	\$ 425.00	\$ 22,100.00	
426	Wood Doors - Bullet Resistant	1	lvs	\$ 3,000.00	\$ 3,000.00	
427	Misc Vision Panels in Doors	1	allow	\$ 2,000.00	\$ 2,000.00	
428	Premium for Rated Frames and Doors	6	ea	\$ 200.00	\$ 1,200.00	
429	Door Hardware	67	lvs	\$ 800.00	\$ 53,600.00	
430	Premium for Panic Hardware at Stairwell	4	loc	\$ 1,500.00	\$ 6,000.00	
431	ADA Door Operator	2	lvs	\$ 4,000.00	\$ 8,000.00	
432	Detention Cell Doors	in Specialties				
433	Hardware for Aluminum Doors	in Windows and Glass				
434	Electrified Hardware	in Integrated Technology				
435	Door and Borrowed Lite Frame Installation	in Drywall				
436	Door and Hardware Installation	67	lvs	\$ 250.00	\$ 16,750.00	
437	Keying	1	allow	\$ 3,000.00	\$ 3,000.00	
438	Subtotal				\$ 177,275.00	
439						
440	Drywall and LGMF					
441	LGMF at Perimeter Walls and Gables	6,900	sf	\$ 8.00	\$ 55,200.00	
442	Insulated Nailbase Sheathing on Exterior LGMF Walls and Gables	6,200	sf	\$ 4.00	\$ 24,800.00	
443	Insulated Nailbase Sheathing on Exterior CMU	1,000	sf	\$ 5.00	\$ 5,000.00	
444	Blocking at Base of Nail Base	565	lf	\$ 4.00	\$ 2,260.00	
445	Blocking at Precast Cap on Brick Veneer	170	lf	\$ 4.00	\$ 680.00	
446	Blocking at Top of Nailbase	565	lf	\$ 8.00	\$ 4,520.00	
447	Regular 3-5/8" Stud Partitions	12,035	sf	\$ 10.50	\$ 126,367.50	
448	Chase Walls and One-Sided Partitions at Foundation	3,325	sf	\$ 8.00	\$ 26,600.00	
449	One-Sided Partition at CMU	1,200	sf	\$ 8.00	\$ 9,600.00	
450	Rated Partitions	2,050	sf	\$ 15.00	\$ 30,750.00	
451	Premium for Bullet Resistant Partitions	280	sf	\$ 25.00	\$ 7,000.00	
452	5/8" Drywall on Perimeter Framing	5,600	sf	\$ 3.00	\$ 16,800.00	
453	Install HM Door and Borrowed Lite Frames	70	ea	\$ 125.00	\$ 8,750.00	
454	Drywall Framing and Ceilings at Restrooms, Lockers and Vestibule	1,745	sf	\$ 9.00	\$ 15,705.00	
455	Drywall Soffit and Fascia at Lobby	70	lf	\$ 40.00	\$ 2,800.00	
456	Drywall Ceiling at Stairwell	240	sf	\$ 12.00	\$ 2,880.00	
457	Drywall Ceilings in Sally Port	1,530	sf	\$ 9.00	\$ 13,770.00	
458	Rated Drywall Ceiling in Mechanical Room	500	sf	\$ 13.00	\$ 6,500.00	
459	Security Ceiling including Plywood	1,420	sf	\$ 17.00	\$ 24,140.00	
460	Drywall Interior Soffits/Fascia/Plenum	1	allow	\$ 2,000.00	\$ 2,000.00	
461	Premiums to Seal and Paint Locker Plenum	1	allow	\$ 2,000.00	\$ 2,000.00	
462	Insulation-Interior Partitions	17,690	sf	\$ 1.00	\$ 17,690.00	
463	Access Panels	1	allow	\$ 1,000.00	\$ 1,000.00	
464	Durock Premium at Tile Walls	3,000	sf	\$ 2.00	\$ 6,000.00	
465	In-Wall Blocking for Millwork, Fixtures and Equipment	1	allow	\$ 5,000.00	\$ 5,000.00	
466	Subtotal				\$ 417,812.50	
467						

estimate by:
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Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
468	Acoustic Ceilings					
469	2x2 Grid and Tile in Circulation and Lobby	1,300	sf	\$ 5.25	\$ 6,825.00	
470	2x4 Grid and Tile	8,800	sf	\$ 4.50	\$ 39,600.00	
471	Attic Stock	200	sf	\$ 2.00	\$ 400.00	
472	Subtotal				\$ 46,825.00	
473						
474	Flooring and Tile					
475	<u>Porcelain Tile:</u>					
476	Floor	635	sf	\$ 28.00	\$ 17,780.00	
477	Base	180	lf	\$ 16.00	\$ 2,880.00	
478	<u>Ceramic Tile:</u>					
479	Floor	1,500	sf	\$ 22.00	\$ 33,000.00	
480	Base	525	lf	\$ 14.00	\$ 7,350.00	
481	Wainscot Walls	615	sf	\$ 20.00	\$ 12,300.00	
482	Full Height Walls (at Locker Rooms)	2,800	sf	\$ 20.00	\$ 56,000.00	
483	Schluter Strip Thresholds	8	ea	\$ 75.00	\$ 600.00	
484	Rubber Base	3,010	lf	\$ 3.25	\$ 9,782.50	
485	SVT	7,560	sf	\$ 5.50	\$ 41,580.00	
486	SVT at Communications Room	330	sf	\$ 5.50	\$ 1,815.00	
487	Rubber Flooring at Fitness	1,000	sf	\$ 10.00	\$ 10,000.00	
488	Carpet	3,175	sf	\$ 5.50	\$ 17,462.50	
489	Walk-Off Mats/Frames	in Specialties				
490	Epoxy Concrete Sealer	2,030	sf	\$ 1.00	\$ 2,030.00	
491	Epoxy Traffic Coat and Base at Detention	1,735	sf	\$ 9.50	\$ 16,482.50	
492	Rubber Treads and Risers	18	ea	\$ 175.00	\$ 3,150.00	
493	Misc. Floor Leveling	1	allow	\$ 2,000.00	\$ 2,000.00	
494	Moisture Mitigation	in Concrete				
495	Subtotal				\$ 234,212.50	
496						
497	Painting					
498	<u>Exterior:</u>					
499	Paint Bollards	8	ea	\$ 75.00	\$ 600.00	
500	<u>Interior:</u>					
501	Walls GWB	28,000	sf	\$ 1.00	\$ 28,000.00	
502	CMU Walls-Epoxy	5,900	sf	\$ 2.50	\$ 14,750.00	
503	HM Doors	14	lvs	\$ 100.00	\$ 1,400.00	
504	Wood Doors	Pre-finished				
505	Door and Borrowed Lite Frames	72	ea	\$ 70.00	\$ 5,040.00	
506	Paint Plywood Backboards with Fire Retardent Paint	1	allow	\$ 1,000.00	\$ 1,000.00	
507	Windowsills and Trim	17	opngs	\$ 100.00	\$ 1,700.00	
508	Access Doors	3	ea	\$ 200.00	\$ 600.00	
509	Epoxy Floors and Base	in Flooring				
510	Wall Covering	Not Included				
511	Protective Wallcovering	Not Included				
512	Drywall Ceilings	4,085	sf	\$ 0.90	\$ 3,676.50	
513	Paint Exposed Ceiling Structure		None			
514	Misc. Surfaces-interior	1	allow	\$ 2,500.00	\$ 2,500.00	
515	Subtotal				\$ 59,266.50	
516						
517	Specialties/Accessories					
518	Toilet Partitions -Handicap	2	ea	\$ 1,700.00	\$ 3,400.00	
519	Toilet Partitions -Standard	1	ea	\$ 1,400.00	\$ 1,400.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
520	TP Holder	7	ea	\$ 50.00	\$ 350.00	
521	Soap Dispenser	8	ea	\$ 50.00	\$ 400.00	
522	Shower Soap Dish	4	ea	\$ 50.00	\$ 200.00	
523	Towel Paper Dispenser	5	ea	\$ 250.00	\$ 1,250.00	
524	Sanitary Napkin Disposal	4	ea	\$ 75.00	\$ 300.00	
525	Grab Bars at Water Closets	6	ea	\$ 250.00	\$ 1,500.00	
526	Shower Grab Bars	3	ea	\$ 200.00	\$ 600.00	
527	Robe Hooks	8	ea	\$ 25.00	\$ 200.00	
528	Framed Mirrors	4	ea	\$ 200.00	\$ 800.00	
529	Mop and Broom Holder	1	ea	\$ 75.00	\$ 75.00	
530	Shower Curtain/Rod	4	ea	\$ 100.00	\$ 400.00	
531	Fold Down Shower seats	3	ea	\$ 400.00	\$ 1,200.00	
532	Toilet Accessory Installation	3	MD	\$ 750.00	\$ 2,250.00	
533	Fire Extinguishers/cabinets	4	ea	\$ 350.00	\$ 1,400.00	
534	Fire Extinguishers on Brackets	1	ea	\$ 150.00	\$ 150.00	
535	Interior Code and Wayfinding Signage	16,365	sf	\$ 0.50	\$ 8,182.50	
536	Metal ID Lettering on Building	1	allow	\$ 2,000.00	\$ 2,000.00	
537	Dedication Plaque at Entry Vestibule	1	allow	\$ 2,000.00	\$ 2,000.00	
538	Footprint Graphic at Detention	2	loc	\$ 250.00	\$ 500.00	
539	Stencil Numbering at Cells	5	ea	\$ 250.00	\$ 1,250.00	
540	Large Ward Lockers- Full Height Large w/Power & Vent	33	ea	\$ 1,600.00	\$ 52,800.00	
541	Large Lockers at Medical Room	4	ea	\$ 1,000.00	\$ 4,000.00	
542	Locker Benches	48	lf	\$ 100.00	\$ 4,800.00	
543	Cell Sliding Door	4	ea	\$ 10,000.00	\$ 40,000.00	
544	Cell Swing Door	1	ea	\$ 9,000.00	\$ 9,000.00	
545	Steel Access Doors at Detention	3	ea	\$ 2,000.00	\$ 6,000.00	
546	Metal Property Lockers at Detention	5	ea	\$ 400.00	\$ 2,000.00	
547	Evidence Locker	1	ea	\$ 4,000.00	\$ 4,000.00	
548	Pistol Lockers	2	ea	\$ 1,500.00	\$ 3,000.00	
549	8' Wire Mesh Partition and Swing Door at Armory	1	ea	\$ 1,500.00	\$ 1,500.00	
550	Transaction Drawers	1	ea	\$ 500.00	\$ 500.00	
551	Roll Down Window Shades at Windows	220	sf	\$ 8.00	\$ 1,760.00	
552	Hand Sanitizer Dispenser	4	ea	\$ 100.00	\$ 400.00	
553	Projection Screen	None Indicated				
554	Coat Hooks	1	allow	\$ 1,000.00	\$ 1,000.00	
555	Corner Guards in Main Corridors	2	ea	\$ 250.00	\$ 500.00	
556	Walk-Off Mats/Frames - 8x8	64	sf	\$ 40.00	\$ 2,560.00	
557	Cell Bunks	5	ea	\$ 3,000.00	\$ 15,000.00	
558	Booking Stool	2	ea	\$ 750.00	\$ 1,500.00	
559	Booking Writing Shelf	2	ea	\$ 750.00	\$ 1,500.00	
560	Holding Bench with Handcuff Bars	3	lf	\$ 500.00	\$ 1,500.00	
561	Steel Security Ceiling	510	sf	\$ 40.00	\$ 20,400.00	
562	Security Collars at Diffusers	1	allow	\$ 5,000.00	\$ 5,000.00	
563	Forensics Equipment	1	allow	\$ 15,000.00	\$ 15,000.00	
564	Visual Display Boards	1	allow	\$ 3,000.00	\$ 3,000.00	
565	Tack Boards and Marker Boards	1	allow	\$ 2,000.00	\$ 2,000.00	
566	Fume Hoods	2	ea	\$ 5,000.00	\$ 10,000.00	
567	High Density File System		FFE			
568	Subtotal				\$ 238,527.50	
569						
570	Appliances	by Owner				
571	Subtotal				\$ -	

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Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
572						
573	Elevator	by Owner				
574	2-Stop Hydraulic - 2,500 lbs	2	stops	\$ 48,000.00	\$ 96,000.00	
575	Subtotal				\$ 96,000.00	
576						
577	Plumbing					
578	New Water Service	1	allow	\$ 5,000.00	\$ 5,000.00	
579	Backflow Preventor for HVAC Make-up Water	1	ea	\$ 600.00	\$ 600.00	
580	120 Gallon Gas Fired HWH and Circulator	1	ea	\$ 7,500.00	\$ 7,500.00	
581	Mixing Valve and Expansion Tank	1	ea	\$ 1,500.00	\$ 1,500.00	
582	Piping for HWH System	1	allow	\$ 1,500.00	\$ 1,500.00	
583	Underslab Waste and Vent Piping	600	lf	\$ 65.00	\$ 39,000.00	
584	Sewage Ejector	1	allow	\$ 5,000.00	\$ 5,000.00	
585	Gas/Sand Separator	1	ea	\$ 4,000.00	\$ 4,000.00	
586	Sump Pump and Piping for Elevator Pit	1	ea	\$ 1,000.00	\$ 1,000.00	
587	Above Grade Water, Waste and Pent Piping	in Fixture Units				
588	Water Closets	7	ea	\$ 3,500.00	\$ 24,500.00	
589	Urinals	2	ea	\$ 3,500.00	\$ 7,000.00	
590	Lavs Drop in	5	ea	\$ 3,750.00	\$ 18,750.00	
591	Wall Hung Lavs	3	ea	\$ 4,000.00	\$ 12,000.00	
592	Showers - Mixing Valve, Head and Drain	4	ea	\$ 4,500.00	\$ 18,000.00	
593	Drinking Fountain	2	ea	\$ 5,000.00	\$ 10,000.00	
594	Mop Receptor	1	ea	\$ 3,750.00	\$ 3,750.00	
595	Boot Wash	1	ea	\$ 3,750.00	\$ 3,750.00	
596	Kitchen Sinks	5	ea	\$ 3,750.00	\$ 18,750.00	
597	Bar Sink	1	ea	\$ 3,750.00	\$ 3,750.00	
598	Lab Sink	1	ea	\$ 5,000.00	\$ 5,000.00	
599	Armory Sink	1	ea	\$ 5,000.00	\$ 5,000.00	
600	Hand Sink	1	ea	\$ 3,750.00	\$ 3,750.00	
601	Eyewash	1	ea	\$ 4,000.00	\$ 4,000.00	
602	Appliance Hookups	1	allow	\$ 500.00	\$ 500.00	
603	Cell Toilet/Sink Units	6	ea	\$ 5,000.00	\$ 30,000.00	
604	Detention Shower	1	ea	\$ 2,750.00	\$ 2,750.00	
605	Trench Drains at Sally Port	2	ea	\$ 2,000.00	\$ 4,000.00	
606	Floor Drains at Mechanical, Detention and Locker Area	12	ea	\$ 900.00	\$ 10,800.00	
607	Roof Drain and Piping at Flat Roofs	1	allow	\$ 10,000.00	\$ 10,000.00	
608	Exterior Sillcocks	4	ea	\$ 750.00	\$ 3,000.00	
609	Hose Bibbs	6	ea	\$ 500.00	\$ 3,000.00	
610	Pipe Insulation	16,365	sf	\$ 2.50	\$ 40,912.50	
611	Firesafing	1	allow	\$ 1,000.00	\$ 1,000.00	
612	Subtotal				\$ 309,062.50	
613						
614	Fire Protection					
615	Sprinkler Protection at Sally Port	1,530	sf	\$ 5.00	\$ 7,650.00	
616	Sprinkler Protection at Detention Area	1,420	sf	\$ 8.00	\$ 11,360.00	
617	Sprinkler Protection for Remainder of Areas	13,415	sf	\$ 6.00	\$ 80,490.00	
618	Firesafing	1	allow	\$ 500.00	\$ 500.00	
619	Engineering	1	allow	\$ 5,000.00	\$ 5,000.00	
620	Subtotal				\$ 105,000.00	
621						
622						
623	HVAC					

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MAIN POLICE DEPARTMENT BUILDING and SITEWORK

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Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
624	Sally Port Heating and Ventilation	1,530	sf	\$ 18.00	\$ 27,540.00	
625	Detention Area HVAC	1,420	sf	\$ 38.00	\$ 53,960.00	
626	Stairwell Cabinet Unit Heaters	2	ea	\$ 2,000.00	\$ 4,000.00	
627	Dedicated Split System for Elevator Machine Room and Hoistway Vent	1	ea	\$ 15,000.00	\$ 15,000.00	
628	Dedicated Split System for Data/Equipment Room	1	ea	\$ 12,000.00	\$ 12,000.00	
629	Exhaust Ducts for Fume Hoods	2	ea	\$ 2,500.00	\$ 5,000.00	hoods in Specialties
630	HVAC for Balance of Building	12,440	sf	\$ 32.00	\$ 398,080.00	
631	DDC Temperature Control System	16,365	sf	\$ 7.00	\$ 114,555.00	
632	Vibration Isolation and Sound Attenuation	1	allow	\$ 10,000.00	\$ 10,000.00	
633	Fire Stopping	1	allow	\$ 1,500.00	\$ 1,500.00	
634	Rigging	1	allow	\$ 7,500.00	\$ 7,500.00	
635	Coordination Drawings	1	allow	\$ 5,000.00	\$ 5,000.00	
636	Testing and Balancing	16,365	sf	\$ 0.75	\$ 12,273.75	
637	Subtotal				\$ 666,408.75	
638						
639	Electrical					
640	Primary and Secondary Ductbanks	in Site Utilities				
641	Transformer and Primary Cabling	by Utility Company				
642	Secondary Cabling	160	lf	\$ 30.00	\$ 4,800.00	
643	Main Electric Service	16,365	sf	\$ 4.00	\$ 65,460.00	
644	General Power Distribution and Panelboards	16,365	sf	\$ 3.50	\$ 57,277.50	
645	Centralized UPS	1	allow	\$ 35,000.00	\$ 35,000.00	
646	Emergency Power Plant:					
647	-Diesel Emergency Generator	200	KW	\$ 320.00	\$ 64,000.00	
648	-Acoustical Weatherproof Generator Enclosure	1	allow	\$ 15,000.00	\$ 15,000.00	
649	-Automatic Transfer Switch	1	ea	\$ 5,000.00	\$ 5,000.00	
650	-Generator Docking Station	1	ea	\$ 2,500.00	\$ 2,500.00	
651	-Generator Control Panel	1	ea	\$ 1,500.00	\$ 1,500.00	
652	-Ductbank to Generator (2-4" conduit)	40	lf	\$ 160.00	\$ 6,400.00	
653	-Feeders to Gen Set	160	lf	\$ 30.00	\$ 4,800.00	
654	-Power for Battery Charger and Water Heater	1	allow	\$ 600.00	\$ 600.00	
655	Convenience Power Outlets	16,365	sf	\$ 3.75	\$ 61,368.75	
656	LED Lighting and Switching:					
657	-Lighting at Sally Port	1,530	sf	\$ 5.00	\$ 7,650.00	
658	-Lighting at Detention	1,420	sf	\$ 14.00	\$ 19,880.00	
659	-Lighting in Stairwell	480	sf	\$ 6.00	\$ 2,880.00	
660	-Lighting in Mechanical Room	500	sf	\$ 4.00	\$ 2,000.00	
661	-Lighting in Remainder of Building	12,275	sf	\$ 12.00	\$ 147,300.00	
662	-Exterior Lighting at Canopies	1,115	sf	\$ 7.00	\$ 7,805.00	
663	-Exterior Wall Paks at Overhead Doors	4	ea	\$ 700.00	\$ 2,800.00	
664	-Exterior Lights at Egress Doors	3	ea	\$ 600.00	\$ 1,800.00	
665	-Elevator Pit Light	1	ea	\$ 500.00	\$ 500.00	
666	-Attic Lighting	1	allow	\$ 2,000.00	\$ 2,000.00	
667	-Site Lighting	in Sitework				
668	-Switching and Light Controls	16,365	sf	\$ 2.00	\$ 32,730.00	
669	-Emergency Circuitry	16,365	sf	\$ 0.50	\$ 8,182.50	
670	-Site Lighting	in Site Utilities				
671	Power for HVAC	16,365	sf	\$ 2.50	\$ 40,912.50	
672	Fire Alarm System	16,365	sf	\$ 4.00	\$ 65,460.00	
673	Power for Misc. Equipment:					
674	-Elevator	1	ls	\$ 5,000.00	\$ 5,000.00	
675	-Overhead Doors and Controls	4	ea	\$ 1,200.00	\$ 4,800.00	

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	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
676	-Automatic Door Opener	2	ea	\$ 350.00	\$ 700.00	
677	-Power to FACP	1	ea	\$ 500.00	\$ 500.00	
678	-HWH	1	ea	\$ 350.00	\$ 350.00	
679	-Water Control System for Detention	1	ea	\$ 350.00	\$ 350.00	
680	-Power to Projectors		None			
681	-Power to Trap Primers	1	ea	\$ 200.00	\$ 200.00	
682	-Drinking Fountain	2	ea	\$ 300.00	\$ 600.00	
683	-Appliances and Lab Equipment	1	allow	\$ 2,500.00	\$ 2,500.00	
684	Tel/Data	16,365	sf	\$ 2.50	\$ 40,912.50	
685	Fire Safing	1	allow	\$ 1,000.00	\$ 1,000.00	
686	Lightning Protection	1	allow	\$ 10,000.00	\$ 10,000.00	
687	Temp Power and Light	in General Conditions				
688	Subtotal				\$ 732,518.75	
689						
690	Integrated Technology					
691	Access Control, Surveillance and Paging	16,365	sf	\$ 13.00	\$ 212,745.00	
692	Wiring for Other Integrated Technology	16,365	sf	\$ 2.50	\$ 40,912.50	
693	Subtotal				\$ 253,657.50	
694						
695	General Conditions (Assume 14 months for Entire Project)					
696	Project Manager (50% time)	14	mos	\$ 12,000.00	\$ 168,000.00	
697	Superintendent (incl. 1 month punchlist)	15	mos	\$ 20,000.00	\$ 300,000.00	
698	Assistant Superintendent	Not Needed				
699	Accounting	14	mos	\$ 1,000.00	\$ 14,000.00	
700	Miscellaneous Survey Work	1	allow	\$ 7,500.00	\$ 7,500.00	
701	Job Site Trailers	14	mos	\$ 800.00	\$ 11,200.00	
702	Job Office Equipment	1	allow	\$ 5,000.00	\$ 5,000.00	
703	Job Office Supplies	14	mos	\$ 200.00	\$ 2,800.00	
704	Temp Utilities-Power and Light	16,365	sf	\$ 0.60	\$ 9,819.00	
705	Temp Utilities-Water	1	ls	\$ 2,500.00	\$ 2,500.00	
706	Temp Utilities-Telephone	1	ls	\$ 1,000.00	\$ 1,000.00	
707	Utility Consumption-Electric	14	mos	\$ 500.00	\$ 7,000.00	
708	Utility Consumption-Water	14	mos	\$ 100.00	\$ 1,400.00	
709	Utility Consumption-Telephone	14	mos	\$ 300.00	\$ 4,200.00	
710	Temporary Toilets	14	mos	\$ 300.00	\$ 4,200.00	
711	Temporary Heat	4	mos	\$ 6,000.00	\$ 24,000.00	
712	Winter Weather Protection	1	allow	\$ 25,000.00	\$ 25,000.00	
713	Snow Removal	1	allow	\$ 10,000.00	\$ 10,000.00	
714	Temporary Protection-Interiors	1	allow	\$ 2,500.00	\$ 2,500.00	
715	General Cleaning	12	mos	\$ 2,000.00	\$ 24,000.00	
716	Final Cleaning - Out Building	1,800	sf	\$ 0.20	\$ 360.00	
717	Final Cleaning - Main Building	16,365	sf	\$ 0.70	\$ 11,455.50	
718	Street Cleaning	1	allow	\$ 2,500.00	\$ 2,500.00	
719	Dumpsters	20	ea	\$ 700.00	\$ 14,000.00	
720	Job Safety	1	allow	\$ 2,500.00	\$ 2,500.00	
721	Building Permit	By Owner				
722	Blueprinting	1	allow	\$ 5,000.00	\$ 5,000.00	
723	Postage/FedEx	14	mos	\$ 300.00	\$ 4,200.00	
724	Courier Service	14	mos	\$ 100.00	\$ 1,400.00	
725	Small Tools and Supplies	1	allow	\$ 5,000.00	\$ 5,000.00	
726	Construction fence	in Site Prep				
727	Temporary signage	1	allow	\$ 1,000.00	\$ 1,000.00	

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
MAIN POLICE DEPARTMENT BUILDING and SITEWORK

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 16,365 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
728	Project Sign	1	allow	\$ 1,500.00	\$ 1,500.00	
729	General Liability Insurance	7,965	\$	\$ 13.00	\$ 103,545.00	
730	Builders Risk Insurance	by Owner				
731	Expenses for Ceremonies	by Owner				
732	Subtotal				\$ 776,579.50	
733						

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
OUT BUILDING

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 1,800 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
1	Site Earthwork					
2	Trenching for Waste Piping	220	lf	\$ 40.00	\$ 8,800.00	
3	Trenching for Gas Piping	200	lf	\$ 20.00	\$ 4,000.00	
4	Trenching for Conduit Ductbank from Main Building	190	lf	\$ 40.00	\$ 7,600.00	
5	Subtotal				\$ 20,400.00	
6						
7	Site Utilities					
8	3" Waste Piping Trench Drains to Main Building	220	lf	\$ 30.00	\$ 6,600.00	
9	1" Gas Piping from Main Building	200	lf	\$ 30.00	\$ 6,000.00	
10	Conduits and Feeders from Main Building (Concrete Encased)	220	lf	\$ 80.00	\$ 17,600.00	3 - 3" Conduit
11	Subtotal				\$ 30,200.00	
12						
13	Building Excavation					
14	Excavate for Footings	70	cy	\$ 10.00	\$ 700.00	
15	General Backfill of Foundation	40	cy	\$ 14.00	\$ 560.00	
16	Perimeter Drain		None			
17	4" Crushed Stone under Slabs	25	cy	\$ 25.00	\$ 625.00	
18	Gravel for Slabs (12")	70	cy	\$ 32.00	\$ 2,240.00	
19	Ledge Removal	Not Included				
20	Truck Out Overburden as Clean Fill	30	cy	\$ 15.00	\$ 450.00	
21	Contaminated Soil Removal	Not Included				
22	Subtotal				\$ 4,575.00	
23						
24	Concrete					
25	Strip Footings:					
26	-Formwork	360	sf	\$ 8.00	\$ 2,880.00	
27	-Rebar	720	lbs	\$ 1.25	\$ 900.00	
28	-Concrete Furnished and Installed	14	cy	\$ 190.00	\$ 2,660.00	
29	Frost Walls:					
30	-Formwork	1,680	sf	\$ 10.00	\$ 16,800.00	
31	-Rebar	1,260	lbs	\$ 1.25	\$ 1,575.00	
32	-Concrete Furnished and Installed	19	cy	\$ 205.00	\$ 3,895.00	
33	Formwork for Trench Drains	52	lf	\$ 8.00	\$ 416.00	
34	SOG (4")	1,800	sf	\$ 9.50	\$ 17,100.00	
35	Concrete Aprons at Overhead Doors	50	sf	\$ 15.00	\$ 750.00	
36	Subtotal				\$ 46,976.00	
37						
38	Masonry		None			
39	Subtotal				\$ -	
40						
41	Structural Steel		None			
42	Subtotal				\$ -	
43						
44	Miscellaneous Metal					
45	Bollards at OH Doors	4	ea	\$ 750.00	\$ 3,000.00	
46	Misc Metal to Support OH Doors	2	ea	\$ 2,000.00	\$ 4,000.00	
47	Trench Drain Frames and Grates	24	lf	\$ 200.00	\$ 4,800.00	
48	Misc. Metal	1	allow	\$ 2,000.00	\$ 2,000.00	
49	Subtotal				\$ 13,800.00	
50						
51	Rough Carpentry					
52	Double 2x6 PT Sill Plate and Anchor Bolts	153	lf	\$ 10.00	\$ 1,530.00	
53	2x6 Framing for Walls	1,740	sf	\$ 5.50	\$ 9,570.00	
54	Framing for Gables	225	sf	\$ 6.50	\$ 1,462.50	
55	Roof Trusses	1,980	sf	\$ 5.00	\$ 9,900.00	
56	LVL Headers at Overhead Doors	26	lf	\$ 60.00	\$ 1,560.00	
57	Bearing Plate for Roof Trusses	180	lf	\$ 12.00	\$ 2,160.00	
58	Rafter Extensions at Eaves	60	ea	\$ 50.00	\$ 3,000.00	
59	Sheathing for Exterior Walls and Gables	1,965	sf	\$ 3.00	\$ 5,895.00	
60	Sheathing for Sloped Roofs	2,280	sf	\$ 3.25	\$ 7,410.00	
61	Cupolas		None			
62	Cementboard Vertical Board and Batten Siding	1,965	sf	\$ 5.50	\$ 10,807.50	
63	Corner Trim Boards	88	lf	\$ 8.00	\$ 704.00	
64	Eave Trim, Vent and Backup Framing	120	lf	\$ 30.00	\$ 3,600.00	
65	Rake Trim and Back-up Framing	90	lf	\$ 20.00	\$ 1,800.00	
66	Trim at OH Doors and Man Door	84	lf	\$ 10.00	\$ 840.00	

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
OUT BUILDING

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 1,800 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
67	Louvers	2	ea	\$ 300.00	\$ 600.00	
68	Plywood on Interior Walls in Storage Area	1,740	sf	\$ 3.00	\$ 5,220.00	
69	Fasteners, Adhesives and Sealants	1	allow	\$ 2,500.00	\$ 2,500.00	
70	Misc. Rough Framing and Blocking	1	allow	\$ 1,000.00	\$ 1,000.00	
71	Misc. Exterior Trim	1	allow	\$ 1,000.00	\$ 1,000.00	
72	Subtotal				\$ 70,559.00	
73						
74	Finish Carpentry/Millwork		None			
75						
76	Moisture Protection/Roofing					
77	Foundation dampproofing	720	sf	\$ 2.00	\$ 1,440.00	
78	Concrete Floor Sealer		in Flooring			
79	Air Barrier at Exterior Siding	2,200	sf	\$ 2.50	\$ 5,500.00	
80	Flashing at Watertable Cap	153	lf	\$ 10.00	\$ 1,530.00	
81	Flashings at OH Doors	2	opngs	\$ 300.00	\$ 600.00	
82	30 Yr Asphalt Shingle Roof and Felt Underlayment	2,280	sf	\$ 4.50	\$ 10,260.00	
83	Ice and Watershield - 6' From Edge	720	sf	\$ 3.50	\$ 2,520.00	
84	Metal Drip Edge	200	lf	\$ 4.00	\$ 800.00	
85	Ridge Vents	60	lf	\$ 10.00	\$ 600.00	
86	Misc Flashing of Mechanical Roof Penetrations	1	allow	\$ 500.00	\$ 500.00	
87	Aluminum Gutters	120	lf	\$ 10.00	\$ 1,200.00	
88	Aluminum Downspouts	48	lf	\$ 8.00	\$ 384.00	
89	Subtotal				\$ 25,334.00	
90						
91	Insulation					
92	Rigid Insulation 2" at Foundation Perimeter	720	sf	\$ 2.75	\$ 1,980.00	
93	Rigid Insulation Under Slab on Grade - 4' in from perimeter	720	sf	\$ 2.50	\$ 1,800.00	
94	6" Spray Foam Insulation at Wood Framed Walls	2,200	sf	\$ 4.50	\$ 9,900.00	
95	Cellulose Retention Fabric	1,800	sf	\$ 0.75	\$ 1,350.00	
96	12" Cellulose Blown In Insulation in Attic	1,800	sf	\$ 2.50	\$ 4,500.00	
97	Interior Vapor Barrier - All Surfaces	4,000	sf	\$ 0.50	\$ 2,000.00	
98	Subtotal				\$ 21,530.00	
99						
100	Windows and Glass		None			
101						
102	Doors, Frames, Hardware					
103	12'x10' Motorized Overhead Sectional Doors	2	ea	\$ 7,500.00	\$ 15,000.00	
104	Welded Metal Door Frames - Single	1	ea	\$ 300.00	\$ 300.00	
105	Exterior Hollow Metal Doors	1	lvs	\$ 375.00	\$ 375.00	
106	Door Hardware	1	lvs	\$ 800.00	\$ 800.00	
107	Install Doors, Frames, Hardware	1	lvs	\$ 300.00	\$ 300.00	
108	Subtotal				\$ 16,775.00	
109						
110	Drywall					
111	Interior Drywall Ceiling on Hat Channel	1,800	sf	\$ 4.50	\$ 8,100.00	
112	Subtotal				\$ 8,100.00	
113						
114	Acoustic Ceilings		None			
115						
116	Flooring and Tile					
117	Epoxy Concrete Sealer	1,800	sf	\$ 1.00	\$ 1,800.00	
118	Subtotal				\$ 1,800.00	
119						
120	Painting					
121	Exterior:					
122	Paint Bollards	4	ea	\$ 50.00	\$ 200.00	
123	Paint Door and Frame	1	ea	\$ 200.00	\$ 200.00	
124	Interior:					
125	Paint Drywall Ceilings	1,800	sf	\$ 0.90	\$ 1,620.00	
126	Paint Plywood Walls	1,740	sf	\$ 1.00	\$ 1,740.00	
127	Subtotal				\$ 3,760.00	
128						
129	Specialties/Accessories					
130	Wire Mesh Partitions	40	lf	\$ 90.00	\$ 3,600.00	
131	Wire Mesh Sliding Gates	3	ea	\$ 650.00	\$ 1,950.00	
132	Sectional Overhead Door		in Doors			

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
OUT BUILDING

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: 1,800 sf

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
133	Fire Extinguishers on Brackets	1	ea	\$ 150.00	\$ 150.00	
134	Signage	1	allow	\$ 1,000.00	\$ 1,000.00	
135	Subtotal				\$ 6,700.00	
136						
137	Appliances		None			
138						
139	Plumbing					
140	Trench Drains	2	ea	\$ 2,000.00	\$ 4,000.00	
141	Waste Piping Trench Drains to Main Building	in Site Utilities				
142	Vent Pipe - PVC	50	lf	\$ 40.00	\$ 2,000.00	
143	Gas/Sand Seperator	1	ea	\$ 2,500.00	\$ 2,500.00	
144	Domestic Water Piping	Not Inlcuded				
145	1" Gas Piping from Main Building	in Site Utilities				
146	3/4" Gas Piping to Unit Heaters	80	lf	\$ 24.00	\$ 1,920.00	
147	Subtotal				\$ 10,420.00	
148						
149	Fire Protection		None			
150	Subtotal				\$ -	
151						
152	HVAC					
153	Gas-Fired Unit Heaters	2	ea	\$ 2,500.00	\$ 5,000.00	
154	Vent Stacks for UH	2	ea	\$ 400.00	\$ 800.00	
155	Exhaust Fan (300 cfm)	1	ea	\$ 1,100.00	\$ 1,100.00	
156	Temperature Controls	1	allow	\$ 1,500.00	\$ 1,500.00	
157	Subtotal				\$ 8,400.00	
158						
159	Electric/Security					
160	Conduits and Feeders from Main Building (Concrete Encased)	in Site Utilities				
161	Panel Board	1	ea	\$ 5,000.00	\$ 5,000.00	
162	Misc. Convenience Power	1	allow	\$ 2,000.00	\$ 2,000.00	
163	Lighting and Switching	1,800	sf	\$ 5.00	\$ 9,000.00	
164	Exterior Wall Paks at Overhead Doors	2	ea	\$ 700.00	\$ 1,400.00	
165	Exterior Lights at Egress Doors	1	ea	\$ 600.00	\$ 600.00	
166	Power to Exhaust Fan	1	ea	\$ 600.00	\$ 600.00	
167	Power to Unit Heaters	2	ea	\$ 600.00	\$ 1,200.00	
168	Fire Alarm System Storage Area	1,800	sf	\$ 2.00	\$ 3,600.00	
169	Smoke Dectors in Attic	1	allow	\$ 1,500.00	\$ 1,500.00	
170	Power for Misc. Equipment:					
171	-Overhead Doors and Controls	2	ea	\$ 1,200.00	\$ 2,400.00	
172	Tel/Data conduit, ring and string		None			
173	Temp Power and Light	in General Conditions				
174	Subtotal				\$ 27,300.00	
175						
176	Integrated Technology					
177	Access Control, Surveillance and Paging	1	allow	\$ 10,000.00	\$ 10,000.00	
178	Communications Wiring		None			
179	Subtotal				\$ 10,000.00	

estimate by:
FV Consulting LLC
Newton, MA

May 13, 2020

Estimate for: **New Plymouth Police Facility, Plymouth, CT**
CARPORT

Ref Dwgs: Jacunski Humes Architects, Schematic Drawings dated April 9, 2020
Gross Sq Ft: Not Applicable

	ITEM	QUANTITY	UNIT	UNIT COST	TOTAL	NOTES (See Below)
1						
2	Excavation					
3	Excavate and Backfill for Footings	6	ea	\$ 400.00	\$ 2,400.00	
4	Trench for Conduit	30	lf	\$ 10.00	\$ 300.00	
5	Dense Grade Base for Asphalt		in Sitework			
6	Parking Lot Striping		in Sitework			
7	Subtotal				\$ 2,700.00	
8						
9	Concrete					
10	Formwork for Footings	180	sf	\$ 8.00	\$ 1,440.00	assume 5'x5'x1'-6" deep
11	Formwork for Piers	144	sf	\$ 10.00	\$ 1,440.00	assume 1'-6"x1'-6"
12	Rebar	1,200	lbs	\$ 1.25	\$ 1,500.00	assume 200# per footing
13	Concrete	10	cy	\$ 190.00	\$ 1,900.00	
14	Set Column Base Plates	6	ea	\$ 150.00	\$ 900.00	
15	Subtotal				\$ 7,180.00	
16						
17	Steel					
18	Column Base Plates and Bolts	6	ea	\$ 200.00	\$ 1,200.00	furnished to concrete
19	Galvanized Columns - Custom Shape	6	ea	\$ 2,000.00	\$ 12,000.00	
20	Galvanized Steel Roof Frame	10.6	Tons	\$ 4,200.00	\$ 44,520.00	assume 8#/sf
21	Subtotal				\$ 57,720.00	
22						
23	Roofing					
24	Metal Roof Deck	2,560	sf	\$ 10.00	\$ 25,600.00	
25	Closure/Fascia at Edge	260	lf	\$ 30.00	\$ 7,800.00	
26	Gutter	102	lf	\$ 10.00	\$ 1,020.00	
27	Downspouts	24	lf	\$ 8.00	\$ 192.00	
28	Subtotal				\$ 34,612.00	
29						
30	Electrical					
31	Conduit and Feeder from Building	50	lf	\$ 25.00	\$ 1,250.00	
32	Lighting	5	ea	\$ 800.00	\$ 4,000.00	assume 1/column bay
33	Electric Car Charge Station	1	ea	\$ 2,000.00	\$ 2,000.00	
34	Subtotal				\$ 7,250.00	
35						
36	Integrated Technology					
37	Exterior Surveillance Cameras	2	ea	\$ 1,500.00	\$ 3,000.00	
38	Subtotal				\$ 3,000.00	
39						

Serving the Public Safety Community



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