ODIN SYSTEMS INC.

6642 MERCHANDISE WAY
UNIT 200
DIAMOND SPRINGS, CA 95619

IS

DATE	ESTIMATE #
2/14/18	1652

BILL TO:

City of San Pablo
13831 San Pablo Ave
Building 2
San Pablo,Ca 94806

Odin
Systems, Inc.

TERMS	PROJECT
Due on receipt	Master Plan

ITEM	DESCRIPTION	QTY	COST	TOTAL
Hardware	All associated hardware to the situational awareness camera installations, including HD PTZ Sony cameras, a combination of fixed cameras specific to each site installation, mounts and misc. hardware.	1	121,861.00	121,861.00
Software License	Software license and 3 year support upgrades for the Milestone VMS.	1	31,842.00	31,842.00
Electrical/ Structural	Sub contract pole installations,drawings, and power to specified locations. Final plan to be implemented per site review with contractors. 20k for 11 pole installations	1	220,000.00	220,000.00
ODIN-CLSRSIC	This is a Odin Systems unit that has a 100Mbps upgradable to 200 Max-80GHz. This unit is also battery backed up with cooling and filtration will cover all sites covered in SOS	1	151,710.00	151,710.00
Vigilant	Vigilant ALPR cameras with 5 year software and hardware bundle	1	1112726.16	1,112,726.16
Hawk-Input	Hawkeye PTZ shotspotter integration	1	108,750.00	108,750.00
Installation	Installation of hardware, programming,manufacturing, pre configuration and testing, travel and per-diem at pre-veiling wage	1	207,350.00	207,350.00
Liveearth	LiveEarth software bundle	1	409,462.80	409,462.80
Note	All material is to be as specified. All work to be completed in a workman like manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed upon written orders. Exclusions: Permit Fees or Inspections, excludes traffic and engineering plans		0.00	0.00

PHONE #	FAX #	WEB SITE	**SALES TAX (9.0%)**	$127,632.52
619-955-5500	562-684-0701	www.odinsystems.com	**TOTAL**	$2,491,334.48

2/14/2018

San Pablo Police Department
510.215.3130 | Main
510.215-3244 | Office
13880 San Pablo Avenue, San Pablo, CA 94806
Email: RonR@sanpabloca.gov

Attn: Chief Ron Raman

Job Name: San Pablo City Master Camera Surveillance Plan/ and ALPR Retrofit

Dear Chief,

We are pleased to submit with a "Master Camera Security Plan." The master plan is to bring the City of San Pablo closer to the final stages of video security as a force multiplier to create a safer city.

Total Base Estimate:	**$ 2,491,334.48 (tax included)**
Lease Option:	

❖ **System Cost: $2,491,334.98**

 Exclusion and clarification sheet is attached for your review and is included to be part of this proposal. Please note that our bid is firm for 30 days. Any additional requirements not shown will be considered a change to the quotation and may require a price modification. We thank you for this opportunity to submit our proposal for this project. Please do not hesitate to call should you have any questions.

Sincerely,

CEO
Odin Systems, Inc.
dustin@odinsystems.com

Job Name: San Pablo City Master Camera Surveillance Plan

Inclusions/ Clarifications:

➢ Price based on budgetary scope of work verbally requested by the client and outlined in emails on 10/19/17
➢ Pricing based on normal working hours 8am-5pm
➢ Pricing includes prevailing wages and per diem
➢ These are strictly budgetary numbers and need comprehensive site surveys to finalize pricing.
➢ Includes retrofitting current 3M cameras to Vigilant.

1. **Giant Rd. and Miner Ave.**
   a. No current camera mounting assets or power.
      i. Recommend installing two wood poles and tap power from PG&E.
         a. Install one pole on the SE Corner, on the East side of Giant Rd. several feet south of Miner Ave. (has LOS to SW corner of Parr for situational cams).
         b. Install one pole on the SE corner of Miner Ave approx 55' East Southside on the sidewalk, on Miner. (potential Cell option.)
         c. Recommend 4 ALPR cameras for ingress on Miner Ave., egress, ingress on Giant Rd.
            i. *3 fixed situational cameras and 1 PTZ*
2. **San Pablo Ave and Stanton Ave.**
   a. We have no current assets at this location
         a. Recommend installing a wood pole in front of 2161 Stanton, on North side of road just East of PG&E pole.
         b. Recommend 2 ALPR cameras for ingress coverage to the city.
            i. *There is a PG&E pole at 2161 Stanton (pole #614) that would be a good candidate, but we cannot assume we can use it.*
3. **Giant Rd. and Parr Blvd.**

   a. Recommend using the NE traffic light arm (over Giant) for NB LPR.
   b. Recommend using the NW traffic light arm for (over Parr) WB LPR
   c. Recommend using the SW traffic light arm (over Parr) for EB LPR
   d. Recommend using the SW traffic light arm (over Giant) for SB LPR
      i. *4 ALPR cameras are covering NB and SB on Giant, EB, and WB on Parr.*
      ii. *SW poles have LOS to Wanlass. 3 fixed situational cameras and 1 PTZ*

4. **Giant Rd. and Brookside.**
   a. Directly South of Giant, on the South side of Brookside, at the West end of the sidewalk is perfect to put a pole.
      i. *City power will need to be worked out at these locations.*
   b. There is 110 power at PG&E pole photocell at the same location.
   c. 3 ALPR cameras on one pole are covering all 3 lanes inbound and outbound at the intersection.
   d. 3 fixed situational cameras and 1 PTZ. LOS to SW side of Giant & Parr

5. **Stanton Ave and Miner Ave.**
   a. South Corner or West Corner have LOS to PD tower
      i. Recommend installing one wood pole and tap power from PG&E
      ii. *3 fixed cameras and 1 PTZ camera for situational awareness.*

6. **San Pablo Dam Rd. and Morrow Dr.**
      i. The location has LOS.
      ii. Poles on SW and NE side of the intersection have 120vac and LOS to PD tower.
   b. 5 ALPR cameras are covering all lanes inbound and outbound.
   c. 3 fixed situational cameras and 1 PTZ camera

7. **San Pablo Ave and Rheem Ave.**
   a. 4 ALPR cameras covering NB and SB lanes into city
   b. 3 Fixed and 1 PTZ situational cameras
      i. *It appears the City has ownership of NE corner pole and SW corner pole*
      ii. *This location has LOS to SP Ave & SP Dam*

8. **23rd. St. and Market Ave.**
   a. Per city map, it appears the city has assets.
   b. 4 Fixed ALPR cameras are covering all lanes at the intersection.
   c. 3 Fixed cameras and 1 PTZ camera.

9. **11th St. and Broadway**
   a. Recommend moving this location @ 12th due to trees.
   b. 2 ALPR cameras are covering lanes in both directions on separate poles.
      i. *NW pole has LOS to Rumril Pole and 23rd & Dover*

10. **Amador St. and McBryde Ave.**
    a. 2 ALPR on one pole
       i. Install pole East side of Amador near 2nd or 3rd PG&E pole, North on Amador from McBryde
       ii. Has 110vac on 3rd pole photocell

11. **Market Ave and 19th. St.**
    a. No current camera mounting assets.
    b. Recommend installing 1 wood pole SE corner and tap power from PG&E.

     i. Install 3 fixed situational cameras and 1 PTZ

     ii. LOS to Dover school communications

12. Rumrill Blvd. and 19th. St.

    a. No current camera mounting assets.

    b. Recommend installing 1 wooden pole in the center median if possible can cover all directions.

    c. Recommend installing 3 wood poles with 10ft. Horizontal arms to allow ALPR lane coverage.

     i. This location will accommodate 5 ALPR cameras to cover all lanes

     ii. Location will require hop to Rumril & Broadway City pole and then to 15th & Broadway.

     iii. 3 Fixed situational cameras and 1 PTZ.

13. San Pablo Ave. and La Puerta

    a. No current camera mounting assets.

    b. Recommend installing 1 wood pole and tap power from PG&E.

    c. 2 LPR

     i. Pole location South Side of LaPuerta, 60' East, next to "No Parking" sign. Trench or overhead power from existing PG&E pole SW corner on San Pablo Ave. 120 vac at the pole.

14. Road 20 and Abella Circle

    a. 3 Fixed situational cameras and 1 PTZ.

     i. This is a circle. It links to Road 20 in 2 Places.

     ii. Directly in front of School, South Steet light pole at a crosswalk. LOS to Community Center Roof for the relay. Power at light cobra head photocell, 235vac.

     iii. East of School at Abella Circle.. No Photocells. Has LOS to Community Center.

    b.

15. San Pablo Dam Rd. and Barranca St.

    a. 4 Fixed ALPR cameras are covering lanes TBA due to pole ownership.

    b. 3 Situational cameras and 1 PTZ

    c. LOS to back side of Clear Channel Billboard. 240vac at both corners.

16. San Pablo Ave and 23rd. and Road 20

    a. 3 fixed situational camera and 1 PTZ

    b. South (corner) Street Light Pole, Front of Mercado Market Parking Lot. South side of intersection. 240VAC at Photocell on Cobra Light. LOS to PD tower, upper half

17. El Portal and I-80

    a. *West side of Freeway, Pole on NW corner. LOS to Clear Channel sign.*

    b. *2 LPR on NW corner and 2 LPR on South Corner.*

    c. *Situational cameras on NW corner.*

     i. Need to determine ownership

     ii. No power at photocells, most likely remotely controlled.

18. *San Pablo Ave. and Church Lane.*

    a. 6 Fixed ALPR cameras are covering all lanes of traffic.

    b. 3 fixed situational cameras and 1 PTZ

        i. No power at photocells. Can see PD tower from all poles.

19. El Portal and Rollingwood

    a. *Add 6 Fixed ALPR cameras to current camera location*

- **LiveEarth**
  - Base License
  - One additional archive day
  - One additional account user
  - Milestone Integration
  - Shot Spotter Integration
  - DOT Integration

❖ **This plan includes Hawkeye/ Shotspotter PTZ integration for 5 years**
❖ **Vigilant ALPR license for 5 years plus 5 year hardware coverage**
❖ **LiveEarth Subscription for 5 years (lease option covers total of 5 years)**
❖ **Retrofit all current ALR locations from 3M to Vigilant**

Exclusions:

1. Provide pole or mounting source for the cameras at locations not in the SOS.
2. Return trips should power, and poles not be set in place at the time of the installation.
3. Approvals from City Agencies.
4. Unforeseen conditions.
5. Stamped or engineered drawings unless specified in SOS
6. Working not specifically referenced above.
7. Engineering fees
8. Plan check fees.
9. Payment and performance bond.
10. Permit fees.
11. Overtime.
12. CAD drawings.
13. Web-Hosting
14. Provide power to locations other than poles we install.