



Elementary School Bollards

Agenda

- Process & Selection Criteria
- Bollards for Elementary Schools – visual representations
 - Bollards per school
 - Estimated Costs
- Final Estimation: Total Potential Costs
- Timeline for Installation

*Please note, pictures are a visual aid for estimation and not to scale



Process & Selection Criteria

- Process
- Selection Criteria
 - Traffic Engineer Input
 - Intersections/Corners
 - Turn-ins and Turn-outs
- Visual Effects
 - Colors (character counts and/or school colors)
 - Criteria for in-front or behind the fence





Gallatin

Elementary School

Estimations

- Total Bollards for this school: 9
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$7,200
- Bollards located between fence and sidewalk



GALLATIN

**25' LENGTH
5 BOLLARDS RECOMMENDED
5' APART
9 TOTAL BOLLARDS FOR SITE**



GALLATIN

20' LENGTH
4 ADDITIONAL BOLLARDS RECOMMENDED
9 TOTAL BOLLARDS FOR SITE



Price

Elementary School

Estimations

- Total Bollards for this school: 43
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$34,400
- Bollards located inside fence along sidewalk
- 1 bollard needs to be removable for gate access

PRICE

72' LENGTH
12 BOLLARDS RECOMMENDED
5' APART
1 REMOVABLE BOLLARD REQUIRED
43 TOTAL BOLLARDS FOR SITE

REMOVABLE BOLLARD



PRICE



DOWNEY UNIFIED'S
INTERNATIONAL BACCALAUREATE
MIDDLE YEARS CANDIDATE PROGRAMME

6TH GRADE APPLICATION WINDOW: FEB. 1 - MAR. 1, 2024

In partnership with:

GLOBAL LANGUAGE ACADEMIES OF DOWNEY CARPENTER

APPLY TODAY!
web.dusd.net/ibmyp

PRICE ELEMENTARY
WONDER AND



31' LENGTH

6' APART

5 ADDITIONAL BOLLARDS

RECOMMENDED

43 TOTAL BOLLARDS FOR SITE

PRICE

**36' LENGTH
6' APART**

**5 ADDITIONAL BOLLARDS RECOMMENDED
43 TOTAL BOLLARDS FOR SITE**



WHEN
CHILDREN
E PRESENT

PRICE

42' LENGTH
7 BOLLARDS RECOMMENDED
6' APART
6 ADDITIONAL BOLLARDS
43 TOTAL BOLLARDS FOR SITE



PRICE

**102' LENGTH
16 BOLLARDS RECOMMENDED
6' APART
43 TOTAL BOLLARDS FOR SITE**



Williams

Elementary School

Estimations

- Total Bollards for this school: 15
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$12,000
- Bollards located inside fence along sidewalk

WILLIAMS

Julius
Arnett

STOP

NO
PARKING

41' LENGTH

6 BOLLARDS RECOMMENDED

6' APART INSIDE FENCE

15 BOLLARDS FOR SITE

WILLIAMS

**60' LENGTH
9 BOLLARDS ADDITIONAL RECOMMENDED
6' ARART
15 TOTAL BOLLARDS FOR SITE**





Alameda

Elementary School

Estimations

- Total Bollards for this school: 11
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$8,800
- Bollards located inside fence along sidewalk
- 2 bollards need to be removable for gate access

ALAMEDA

REMOVABLE BOLLARD
FOR GATE ACCESS

30' LENGTH
6 BOLLARDS RECOMMENDED
5' APART
1 REMOVABLE FOR GATE ACCESS
11 TOTAL BOLLARDS FOR SITE



ALAMEDA

REMOVABLE BOLLARD
FOR GATE ACCESS



36' LENGTH
5 ADDITION BOLLARDS RECOMMENDED
1 REMOVABLE BOLLARD
6' APART
11 TOTAL BOLLARDS FOR SITE



Ward

Elementary School

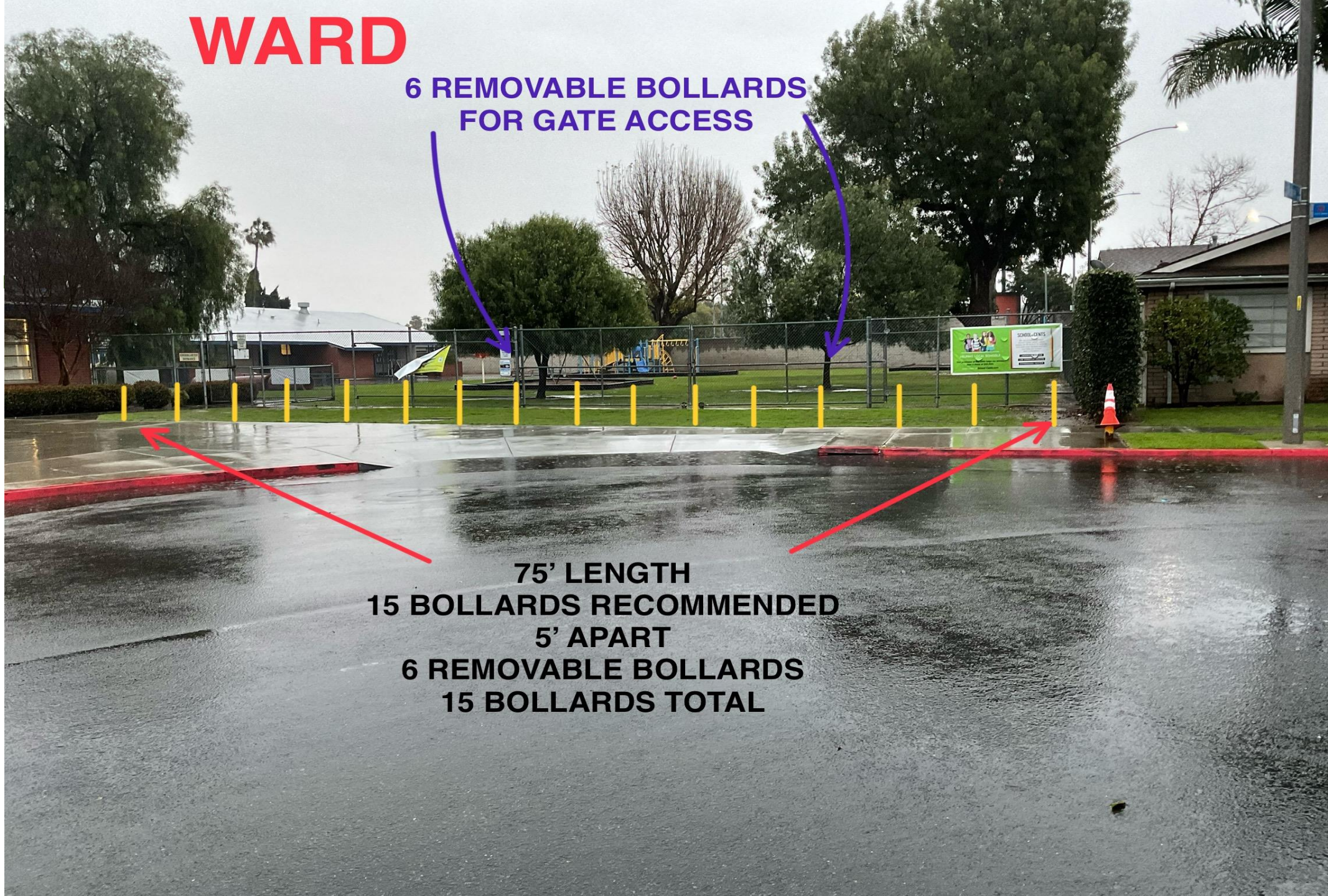
Estimations

- Total Bollards for this school: 15
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$12,000
- Bollards located along sidewalk in grass
- 6 bollards need to be removable for driveway/gate access

WARD

6 REMOVABLE BOLLARDS
FOR GATE ACCESS

75' LENGTH
15 BOLLARDS RECOMMENDED
5' APART
6 REMOVABLE BOLLARDS
15 BOLLARDS TOTAL





Lewis

Elementary School

Estimations

- Total Bollards for this school: 19
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$15,200
- Bollards located inside fence

LEWIS



54' LENGTH
8 BOLLARDS RECOMMENDED
6' APART
19 TOTAL BOLLARDS FOR SITE

LEWIS



83' LENGTH
11 ADDITIONAL BOLLARDS RECOMMENDED
6' APART
19 TOTAL BOLLARDS FOR SITE



Pace

Education Center

Estimations

- Total Bollards for this school: 22
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$17,600
- Bollards located inside fence

PACE

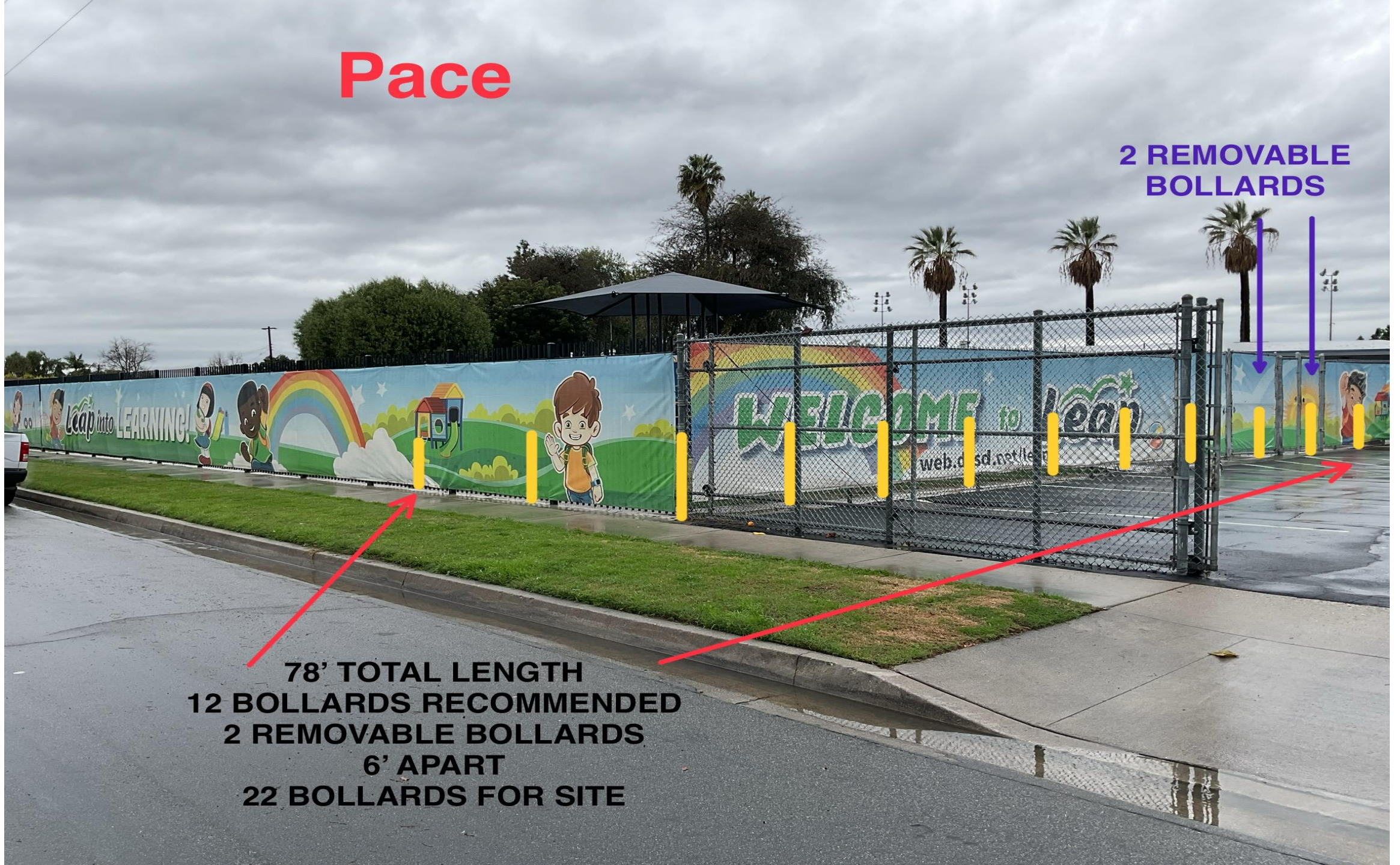


66' TOTAL LENGTH
10 BOLLARDS RECOMMENDED
6' APART
10 BOLLARDS FOR SITE

Pace

2 REMOVABLE
BOLLARDS

78' TOTAL LENGTH
12 BOLLARDS RECOMMENDED
2 REMOVABLE BOLLARDS
6' APART
22 BOLLARDS FOR SITE





Gauldin

Elementary School

Estimations

- Total Bollards for this school: 11
- Estimated cost per bollard: \$800
- Total Estimated costs for this school: \$8,800
- Bollards located inside fence

GAULDIN



**66' LENGTH
11 BOLLARDS RECOMMENDED
6' APART
11 BOLLARDS TOTAL FOR SITE**

4 Construction Schools

- Similar safety improvements are part of the construction plan
 - Carpenter Elementary School
 - Imperial Elementary School
 - Rio Hondo Elementary School
 - Rio San Gabriel Elementary School

Overview for all sites



Overall estimate of bollards for 8 elementary schools

- 145 bollards total

Price per bollard

- \$800

Overall total estimate for bollards project

- \$117,000

*Please note, pictures are a visual aid for estimation and not to scale

Timeline

- Evaluate Site Needs ✓
- Review with Traffic Engineer ✓
- Project advertisement 2/8-2/22 ✓
- Job walk 2/16 ✓
- Close Bid 2/22 ✓
- Award Project 2/28 ✓
- Project Installation (start immediately)
- Board Ratification 3/12



Thank you
