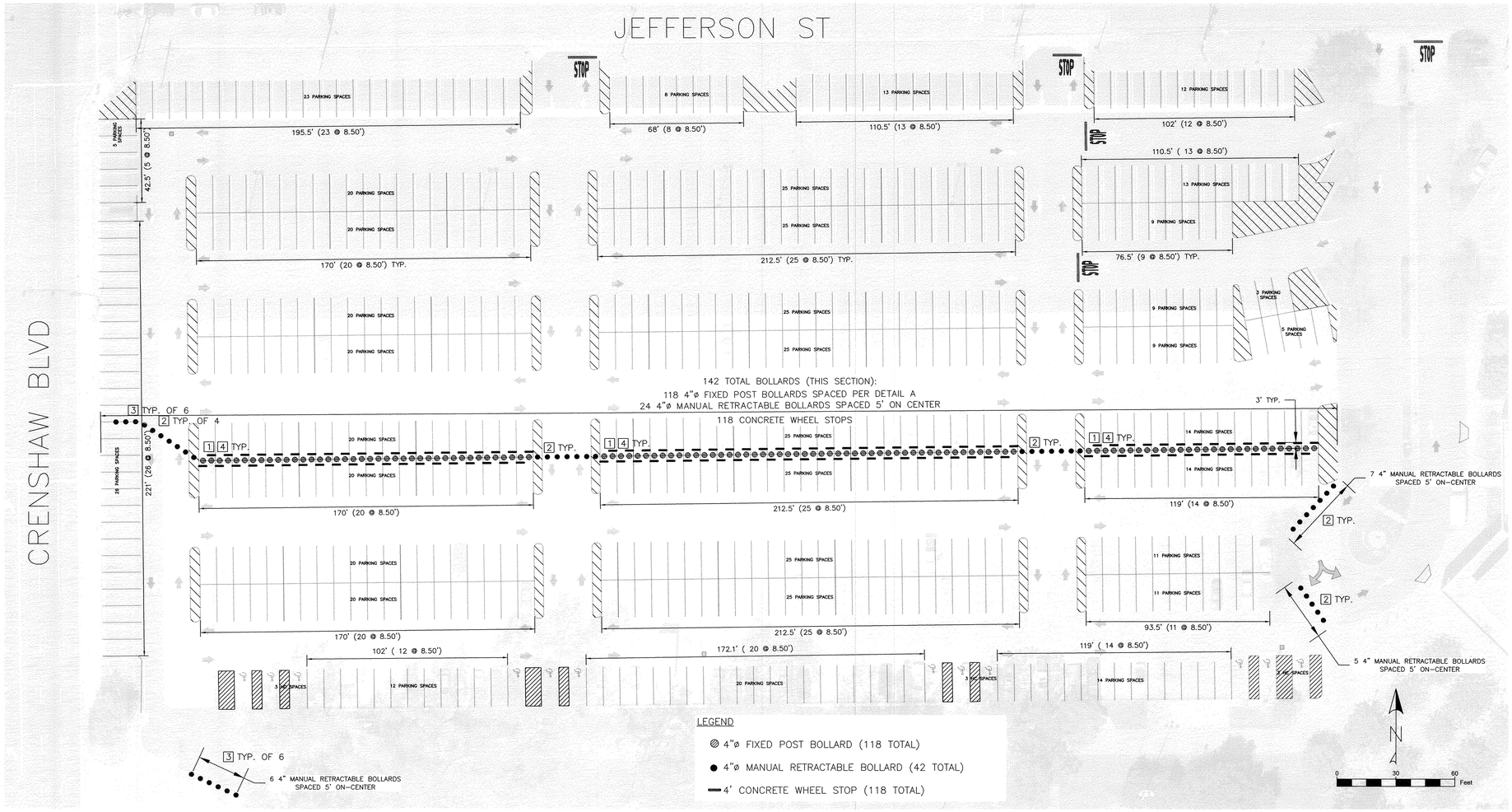
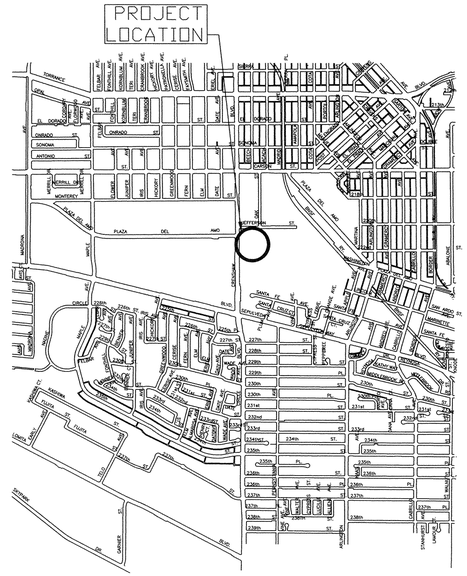
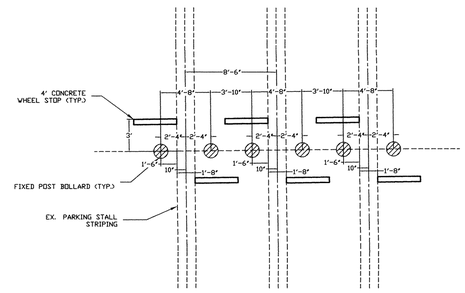




PROJECT VICINITY MAP
N.T.S.



DETAIL "A"
TYPICAL FIXED POST BOLLARD AND WHEEL STOP LAYOUT
N.T.S.

CONSTRUCTION NOTES (THIS SHEET):

1— INSTALL 4" DIAMETER FIXED POST BOLLARDS IN CONCRETE (APPROX. CONCRETE THICKNESS: 3–4') PER MANUFACTURER'S RECOMMENDATIONS (CAL PIPE SECURITY BOLLARD 562–803–4388 OR APPROVED EQUAL). FIXED POST BOLLARD SPACING SHALL BE PER DETAIL "A".

2— INSTALL 4" DIAMETER MANUAL LIFT RETRACTABLE BOLLARDS IN CONCRETE (APPROX. CONCRETE THICKNESS: 3–4') PER MANUFACTURER'S RECOMMENDATIONS (CAL PIPE SECURITY BOLLARD 562–803–4388 OR APPROVED EQUAL).

3— INSTALL 4" DIAMETER MANUAL LIFT RETRACTABLE BOLLARDS IN ASPHALT PER MANUFACTURER'S RECOMMENDATIONS (CAL PIPE SECURITY BOLLARD 562–803–4388 OR APPROVED EQUAL).

4— INSTALL NEW 4' CONCRETE WHEEL STOPS AND SECURE WITH ANCHOR PINS. SPACING AND LAYOUT SHALL BE PER DETAIL "A".

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV	DATE	BY	CHECKED	DESCRIPTION

FARMERS' MARKET
BOLLARD INSTALLATION, FEAP 910
WILSON PARK PARKING LOT
2200 CRENSHAW BOULEVARD

BOLLARD INSTALLATION

DESIGNED BY:	DRAWN BY:
DG	DG
PROJECT ENGINEER: DANIEL GRUEZO	
ENGINEERING MANAGER: TED SEMAAN	

CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT

APPROVED BY:

CRAIG BILEZERIAN, PE — DATE 6/1/15
CITY ENGINEER
R.C.E. NO. 55339 (EXP. 12/31/2016)

SHEET	1 OF 1
SCALE: 1" = 30'	SPECIFICATON NO. B2015–16
SUPPLEMENTAL PLAN NO.	N/A
PLAN NO.	**CP-417**

X:\ENG\DGruezo\for Others\for Eve Rappoport\RFP For Farmers Market Bollards FEAP910\CAD\FEAP 910 Farmers Market Bollard Installation 2015-05-28.dwg