CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION
CONSTRUCTION PLANS FOR
LINCOLN PARK IMPROVEMENTS
PROJECT NO. 428-81055

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK), STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (A.P.W.A. STANDARDS), AND STANDARDS OF THE CITY OF POMONA PUBLIC WORKS DEPARTMENT.
2. APPLICATION FOR EXCAVATION AND INSPECTION IN CONNECTION WITH WORK SHOWN ON THIS PLAN MUST BE MADE BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO STARING ANY WORK.
3. WORK IN PUBLIC STREETS ONCE BEGUN SHALL BE PROSECUTED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
4. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE CALIFORNIA MUTCD.
5. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT ALL TIMES.
6. CONTRACTOR SHALL PROTECT EXISTING IRRIGATION LINES AND SPRINKLER HEADS BEHIND EXISTING CURB. THE CONTRACTOR SHALL REPLACE ANY DAMAGED LINES AND SPRINKLER HEADS AT HIS OWN EXPENSE.
7. CONTRACTOR SHALL REPLACE TRAFFIC STRIPES, LEGENDS, LOOP DETECTORS AND MARKINGS DAMAGED DURING THE CONSTRUCTION OF THIS PROJECT. TRAFFIC STRIPES, PAVEMENT LEGENDS, RAISED PAVEMENT MARKERS AND LOOP DETECTORS SHALL BE PER THE 2010 CALIFORNIA MUTCD, CALTRANS STANDARD PLANS AND CALTRANS STANDARD SPECIFICATIONS 84, 85, AND 86, LATEST EDITIONS.
8. REFLECTORIZE ALL STRIPES AND LEGENDS. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL MATCH CITY STENCILS, OR CALTRANS STANDARDS.
9. TRAFFIC STRIPES AND MARKINGS SHALL BE THERMOPLASTIC.
10. STRIPING SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL INSTALLATION.
11. CONTRACTOR SHALL RE-STRIPE EXISTING STRIPING, MARKING ALL INTERSECTING, AND JOINING STREETS WITHIN 100' OF LIMITS OF PROJECT.
12. TYPE DB 2-WAY BLUE REFLECTIVE MARKERS SHALL BE INSTALLED ADJACENT TO EXISTING FIRE HYDRANTS WITHIN THE LIMITS OF CONSTRUCTION PER STATE AND CITY STANDARDS.
13. AS BUILTS OF THE COMPLETED PROJECT SHALL BE SUBMITTED FOR APPROVAL OF THE CITY ENGINEER.
14. CONTRACTOR SHALL NOTIFY ALL AFFECTED RESIDENCES IN WRITING AT LEAST TOW (2) FULL WORKING DAYS BEFORE ANY START OF CONSTRUCTION AS SPECIFIED.
15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (DIG ALERT) AT 811, TWO (2) FULL WORKING DAYS PRIOR TO START OF WORK. THE CONTRACTOR MUST OBTAIN AND MAINTAIN VALID DIG ALERT REFERENCE NUMBER THROUGH THE LIFE OF THE PROJECT AS NECESSARY FOR CONSTRUCTION.
16. CONTRACTOR SHALL PROJECT ALL CENTERLINE SURVEY MONUMENT AND CENTERLINE TIES AS SPECIFIED.
17. EXISTING STRIPES AND MARKINGS TO BE REMOVED SHALL BE DONE BY WET SANDBLASTING.
18. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
19. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION AND SEDIMENT AND PRESERVE WATER QUALITY TO THE MAXIMUM EXTENT POSSIBLE.
20. THE CITY OF POMONA WILL USE COBBLESTONE AND DECOMPOSED GRANITE (DG) WITHIN THE BULB-OUT AREAS AS AN ALTERNATE LANDSCAPE MATERIAL FOR THE PROJECT IN THE EVENT THAT A RESIDENT DOES NOT REACH AN AGREEMENT WITH THE CITY FOR THEIR REQUESTED LANDSCAPE MATERIAL OR DOES NOT PROVIDE THE NECESSARY RIGHT OF ENTRY.

ABBREVIATIONS & SYMBOLS

	STREET LIGHT
	FIRE HYDRANT
	MANHOLE
	WATER VALVE
	SIGN
	TREE
S	SEWER
W	WATER
SD	STORM DRAIN
G	GAS
GV	GAS VALVE
E	ELECTRIC
EB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
DC	DETECTOR CHECK
T	TELEPHONE
SL	STREET LIGHT
SLB	STREET LIGHT PULL BOX
FH	FIRE HYDRANT
VP	VENT PIPE
TL	TRAFFIC LIGHT
TCB	TRAFFIC CONTROL PULL BOX
WM	WATER METER
MB	MAIL BOX
PD	PARKWAY DRAIN
CB	CATCH BASIN
P	PILASTER
GP	GATE POST
CF	CURB FACE
MAX.	MAXIMUM
PT.	POINT
FS	FINISH SURFACE
FL	FLOW LINE
TC	TOP OF CURB
NEC	NORTHEAST CORNER
BCR	BEGIN CURB RADIUS
HT	HEIGHT
RCP	REINFORCED CONCRETE PIPE
TC	TRAFFIC CONTROL (ABOVE GROUND)
PSI	POUNDS PER SQUARE INCH
PCC	PORTLAND CEMENT CONCRETE
RETAIN.	RETAINING
INV.	INVERT
PROP.	PROPOSED
HORIZ.	HORIZONTAL
VERT.	VERTICAL
EX.	EXISTING
EXIST.	EXISTING
MH	MANHOLE
DWG	DRAWING
DWY.	DRIVEWAY
TEL.	TELEPHONE
ELECT.	ELECTRICAL
NO.	NUMBER
CONC.	CONCRETE
STD.	STANDARD
℄	CENTER LINE
FT.	FEET
ST.	STREET
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
DEPT.	DEPARTMENT
PROJ.	PROJECT
VCP	VITRIFIED CLAY PIPE
ECR	END CURB RADIUS
L	LENGTH
BOP	BOTTOM OF PIPE
TOP	TOP OF PIPE
GB	GRADE BRAKE
R/W	RIGHT OF WAY
BW	BACK OF WALK
TG	TOP OF GRATE
CATV	CABLE TV
LAT.	LATERAL
JS	JUNCTION STRUCTURE
BC	BEGINNING CURVE
EC	END OF CURVE
ARHM	ASPHALT RUBBER HOT MIX
GG	GAP GRADED

SHEET INDEX

1	TITLE SHEET & GENERAL NOTES
2	INDEX MAP, TYPICAL SECTIONS AND QUANTITIES
3	DETAIL PLAN – INTERSECTION OF LINCOLN AVE./COMO DR. & PALOMARES ST.
4	DETAIL PLAN – INTERSECTION OF JEFFERSON AVE./COMO DR. & JEFFERSON AVE.
5	DETAIL PLANS – INTERSECTIONS OF COMO DR.–JEFFERSON AVE.–PALOMARES ST.
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7	CURB RAMP DETAILS
8	CURB RAMP DETAILS
9	SIGNING AND STRIPING PLAN
10	PAVEMENT REHAB, SIDEWALK & CURB REPAIR AND DG PATH HORIZONTAL CONTROL
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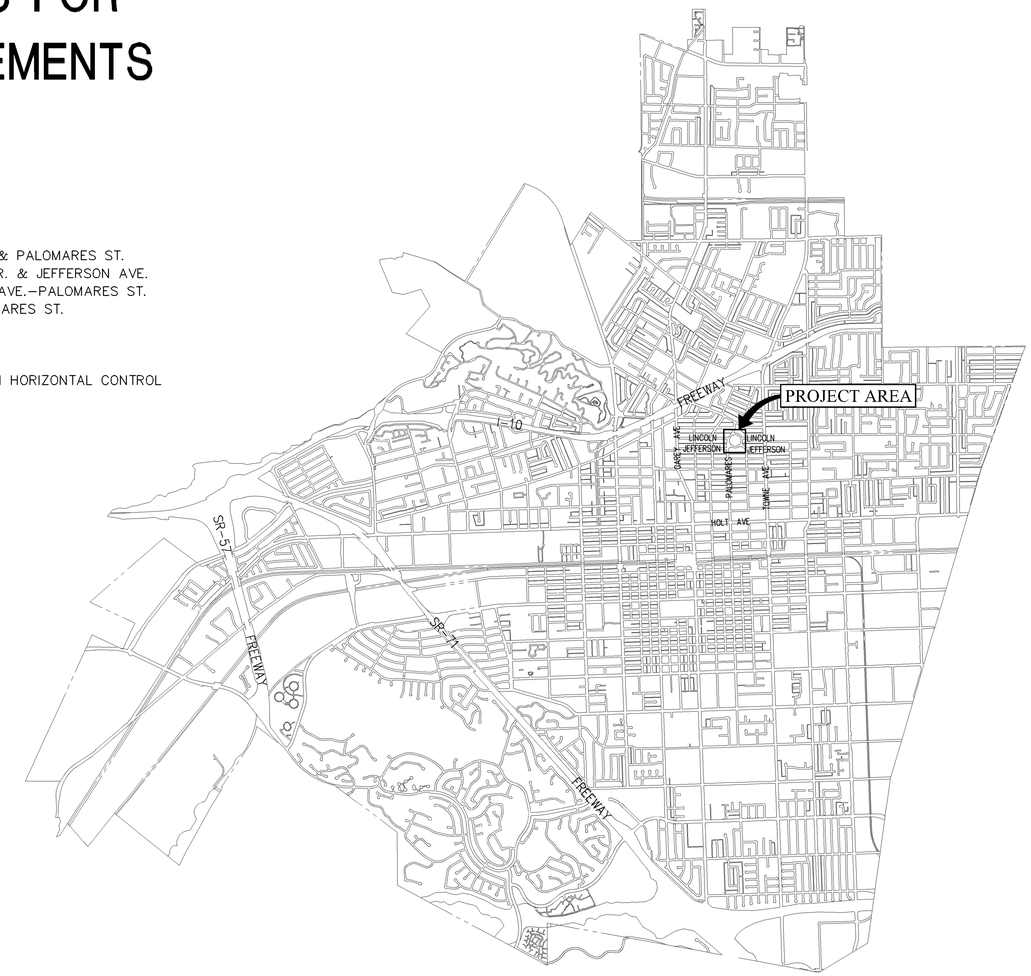
LI-02	SPARE
LI-03	IRRIGATION LEGEND AND NOTES
LI-04	IRRIGATION DETAIL
LP-01	PLANTING REFERENCE PLAN
LP-02	SPARE
LP-03	SPARE
ST-01	SPARE
ST-02	SPARE
ST-03	SPARE



VICINITY MAP
N.T.S.

APPROVED BY:

FIRE DEPARTMENT
LEINBURG WILSON – (909) 620-2402 SIGNATURE DATE

P/W–PUBLIC SERVICES
JERRY PEREZ – (909) 620-2482 SIGNATURE DATE

WATER/WASTE
WATER OPERATIONS:
RAUL GARIBAY – (909) 620-2239 SIGNATURE DATE

P/W–TRANSPORTATION
& DEVELOPMENT DIVISION
RON CHAN – (909) 620-2286 SIGNATURE DATE

P/W–ENVIRONMENTAL*
JULIE CARVER – (909) 620-3628 SIGNATURE DATE
(AVAILABLE: MON, WED. 7:30 A.M. TO 11:30 A.M. AT PUBLIC WORKS COUNTER)

ACCEPTED BY
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED
BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CALL TOLL FREE 811
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

CAUTION: REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

REGISTERED PROFESSIONAL ENGINEER
CARLOS A. PINEDA
No. C38639
Exp. 03/31/17
STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

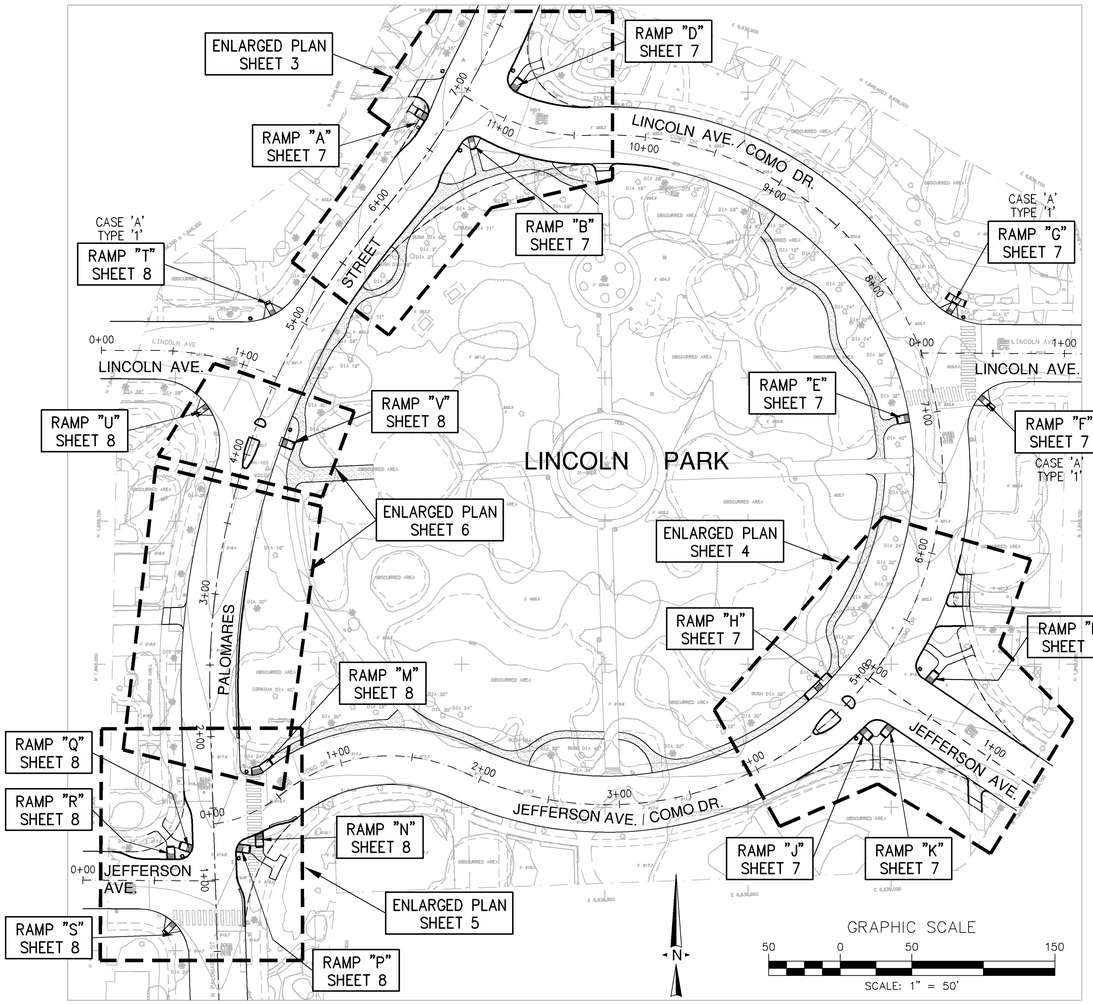
CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

TITLE SHEET & GENERAL NOTES

SCALE	DESIGNED: JL	SHT. 1
	DRAWN: JL	OF
	CHECKED: CP	
	REVIEWED:	
AS SHOWN	REVIEWED (CONST.)	17 SHTS

Plan Number _____



PALOMARES ST. – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00				
		221.90	N 01°43'17" W		
BC	2+21.90				
		372.15	41°48'34"	510.00	194.80
PRC	5+94.05				
		215.56	21°40'01"	570.00	109.08
END ALIGNMENT	8+09.61				

COMO DR. – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
PALOMARES ST. (1+38.92) INT.	0+00.00				
		50.92	32°25'05"	90.00	26.16
PRC	0+50.92				
		137.15	64°56'39"	121.00	77.00
PRC	1+88.07				
		849.46	207°59'39"	234.00	938.73
PRC	10+37.54				
		73.98	32°36'25"	130.00	38.02
EC	11+11.52				
		21.31	N 60°03'08" W		
PALOMARES ST. (6+94.94) INT.	11+32.83				

JEFFERSON AVE. (W) – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00				
		92.47	S 89°35'10" E		
PALOMARES ST. (0+99.13) INT.	0+92.47				

LINCOLN AVE. (W) – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
BEGIN ALIGNMENT	0+00.00				
		37.89	S 89°48'20" E		
BC	0+37.89				
		87.38	25°02'01"	200.00	44.40
PALOMARES ST. (4+57.53) INT.	1+25.27				

JEFFERSON AVE. (E) – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
COMO DR. (5+02.69) INT.	0+00.00				
		137.30	S 55°57'18" E		
END ALIGNMENT	1+37.30				

LINCOLN AVE. (E) – CONSTRUCTION CENTERLINE

DESCRIPTION	STATION	LENGTH	DELTA OR BEARING	RADIUS	TANGENT
COMO DR. (7+42.26) INT.	0+00.00				
		128.79	S 89°47'28" E		
END ALIGNMENT	1+28.79				

CONSTRUCTION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
11	CONSTRUCT 8" AC PAVEMENT.	5,555	SF
12	CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.	1,163	LF
13	CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'D', TYPE '1' UNLESS NOTED OTHERWISE).	19	EA
14	CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.	820	SF
15	CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.	2	SF
16	CONSTRUCT DRIVEWAY APPROACH PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 110-2 AND DETAIL HEREON.	3	EA
17	CONSTRUCT 8" CF, 18" GUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.	166	LF
18	SEE LANDSCAPING PLAN.		LS
19	CONSTRUCT ALLEY INTERSECTION WITH ASPHALT CONCRETE PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.	1	EA
20	CONSTRUCT PARKWAY DRAIN PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 151-2.	60	LF
21	CONSTRUCT (3) 3" PVC PIPE CULVERT PER ELEVATIONS SHOWN ON THE PLAN.	1	EA
22	CONSTRUCT 12"x12" BROOKS GRATE INLET CATCH BASIN (MODEL 1212CB) AND 4" PVC PIPE PER PLAN.	1	EA
23	ADJUST EXISTING WATER VALVE TO GRADE	3	EA
24	FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE. SEE ELECTRICAL PLANS.	4	EA
25	RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP. SEE ELECTRICAL PLANS.	7	EA
26	RELOCATE EX. WATER METER.	1	EA
27	CONSTRUCT 4" PVC CURB DRAIN.	1	EA
28	SAWCUT, REMOVE DAMAGED SIDEWALK AND RECONST. 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.	130	SF
29	SAWCUT, REMOVE DAMAGED CURB AND RECONST TYPE 'A-2' CURB PER CITY OF POMONA STD. PLAN NO. A-3-64.	50	LF

DEMOLITION NOTES & QUANTITIES

NO.	ITEM	QUANTITY	UNIT
P	PROTECT IN PLACE, ITEM PER PLAN		
1	SAWCUT AND REMOVE EXISTING CURB	920	LF
2	SAWCUT AND REMOVE EXISTING AC PAVEMENT	14,580	SF
3	SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY	450	SF
4	REMOVE EXISTING DG PATH	90	SF

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

INDEX MAP, TYPICAL SECTIONS & QUANTITIES

CALL TOLL FREE 811
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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:

Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX

CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

SCALE			SHT.
AS SHOWN	DESIGNED: JL DRAWN: JL CHECKED: CP REVIEWED: REVIEWED (CONST.):		2 OF 17 SHTS

Plan Number _____

CONSTRUCTION NOTES

(11) CONSTRUCT 8" AC PAVEMENT.

(12) CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.

(13) CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'D', TYPE '1' UNLESS NOTED OTHERWISE).

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(15) CONSTRUCT ALLEY INTERSECTION PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.

(16) CONSTRUCT DRIVEWAY APPROACH PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 110-2 AND DETAIL HEREON.

(18) INSTALL PLANTS SEE LANDSCAPING PLAN.

(24) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.

(25) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.

(26) RELOCATE EX. WATER METER.

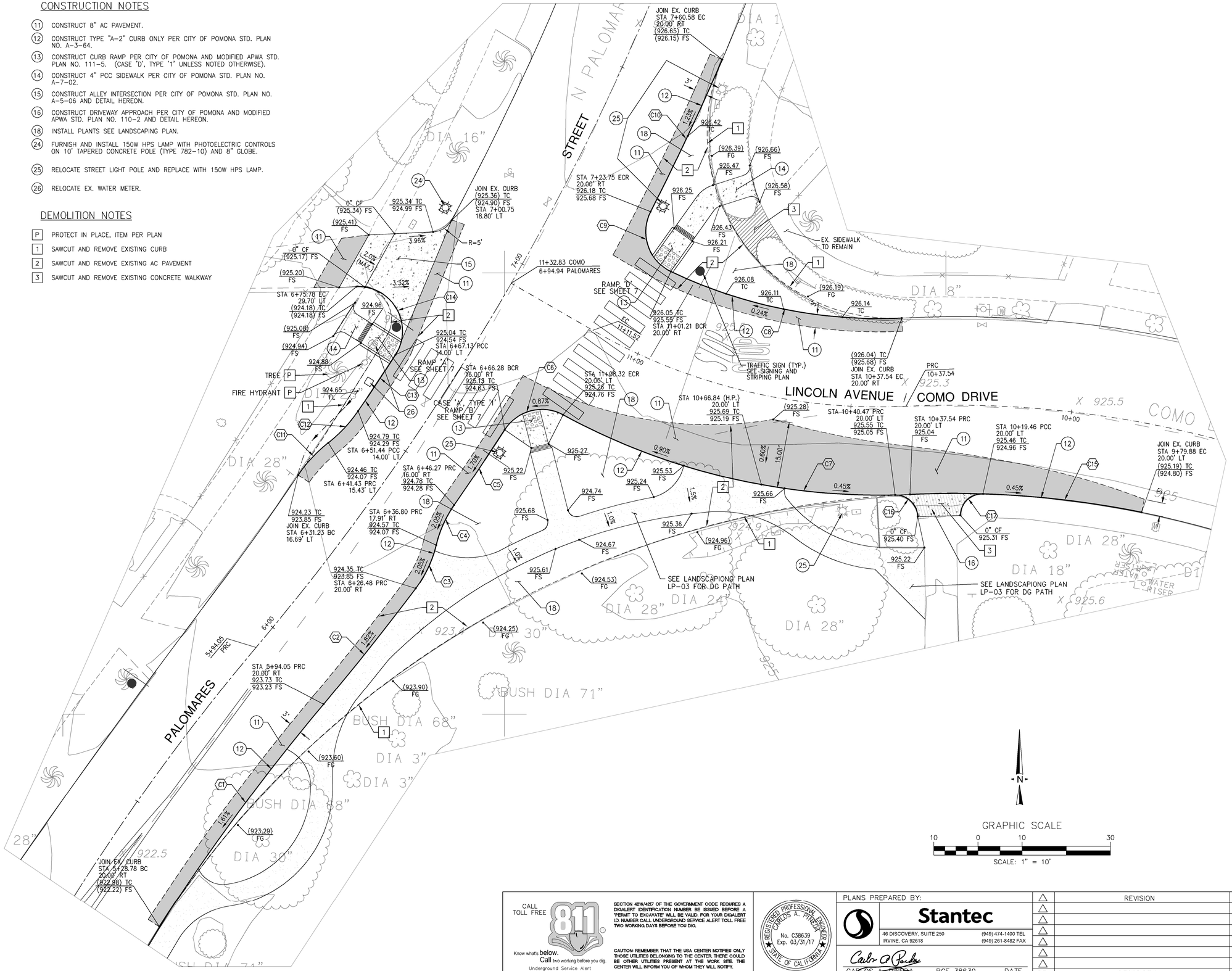
DEMOLITION NOTES

[P] PROTECT IN PLACE, ITEM PER PLAN

[1] SAWCUT AND REMOVE EXISTING CURB

[2] SAWCUT AND REMOVE EXISTING AC PAVEMENT

[3] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY



CURB ALIGNMENT TABLE

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C1	62.71	490.00	7°20'00"	31.40
C2	34.04	590.00	3°18'22"	17.03
C3	10.94	27.00	23°12'27"	5.54
C4	10.00	27.00	21°13'05"	5.06
C5	20.57	586.00	2°00'41"	10.29
C6	14.96	10.00	85°42'35"	9.28
C7	78.29	150.00	29°54'18"	40.06
C8	53.88	110.00	28°03'46"	27.49
C9	16.00	10.00	91°38'54"	10.29
C10	38.13	590.00	3°42'10"	19.07
C11	10.03	32.00	17°57'57"	5.06
C12	9.90	32.00	17°43'03"	4.99
C13	15.31	556.00	1°34'38"	7.65
C14	21.86	10.00	125°13'51"	19.30
C15	36.20	214.00	9°41'32"	18.14
C16	7.89	5.00	90°26'55"	5.04
C17	7.90	5.00	90°29'36"	5.04

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

DETAIL PLAN - INTERSECTION OF LINCOLN AVE. / COMO DR. & PALOMARES ST.

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 IRVINE, CA 92618
(949) 474-1400 TEL (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

SCALE: AS SHOWN
DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)
SHT. 3 OF 17 SHTS

Plan Number _____

CONSTRUCTION NOTES

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(18) SEE LANDSCAPING PLAN.

(23) ADJUST EXISTING VALVE TO GRADE.

(25) RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.

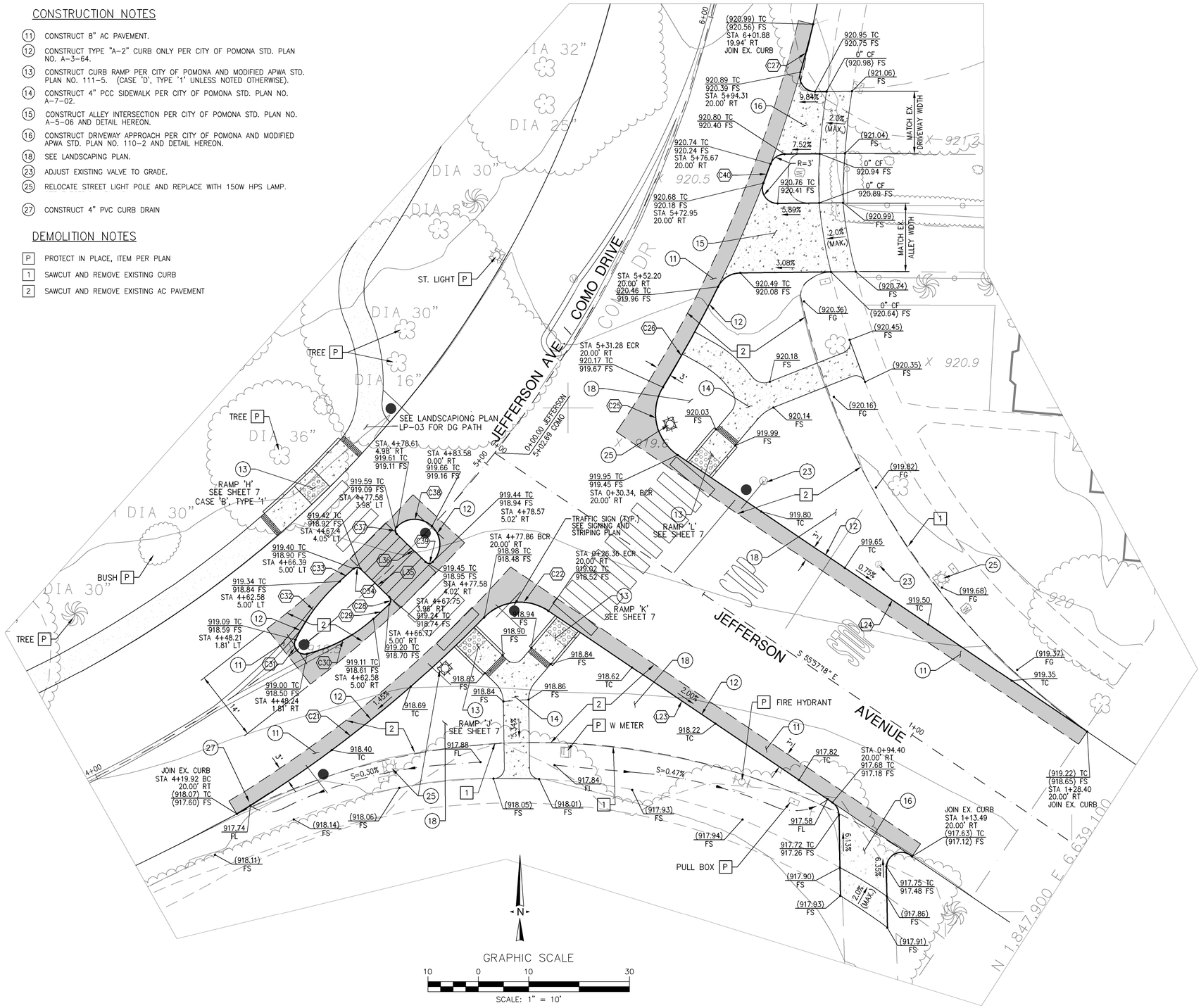
(27) CONSTRUCT 4" PVC CURB DRAIN

DEMOLITION NOTES

P PROTECT IN PLACE, ITEM PER PLAN

1 SAWCUT AND REMOVE EXISTING CURB

2 SAWCUT AND REMOVE EXISTING AC PAVEMENT



CURB ALIGNMENT TABLE

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C21	62.89	254.00	14°11'13"	31.40
C22	13.90	10.00	79°39'56"	8.34
L23	68.04		S 55°57'18" E	
L24	98.06		N 55°57'18" W	
C25	15.23	10.00	87°15'21"	9.53
C26	22.72	254.00	5°07'28"	11.37
C27	9.91	254.00	2°14'09"	4.96
C28	1.62	1.00	92°38'57"	1.05
C29	4.28	239.00	1°01'33"	2.14
C30	15.04	30.56	28°12'16"	7.68
C31	4.53	2.00	129°54'35"	4.28
C32	14.59	38.21	21°53'09"	7.39
C33	3.73	229.00	0°56'01"	1.87
C34	1.52	1.00	87°15'31"	0.95
L35	8.01		S 45°33'11" E	
L36	8.00		N 45°33'11" W	
C37	1.57	1.00	90°07'13"	1.00
C38	15.69	5.00	179°45'34"	INF.
C39	1.57	1.00	90°07'13"	1.00
C40	4.04	254.00	0°54'40"	2.02

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

DETAIL PLAN - INTERSECTION OF JEFFERSON AVE./COMO DR. & JEFFERSON AVE.

CALL TOLL FREE 811 Know what's below. Call two working before you dig. Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:

Stantec
46 DISCOVERY, SUITE 250 IRVINE, CA 92618
(949) 474-1400 TEL (949) 261-8482 FAX

CARLOS A. PINEDA RCE 38639 DATE

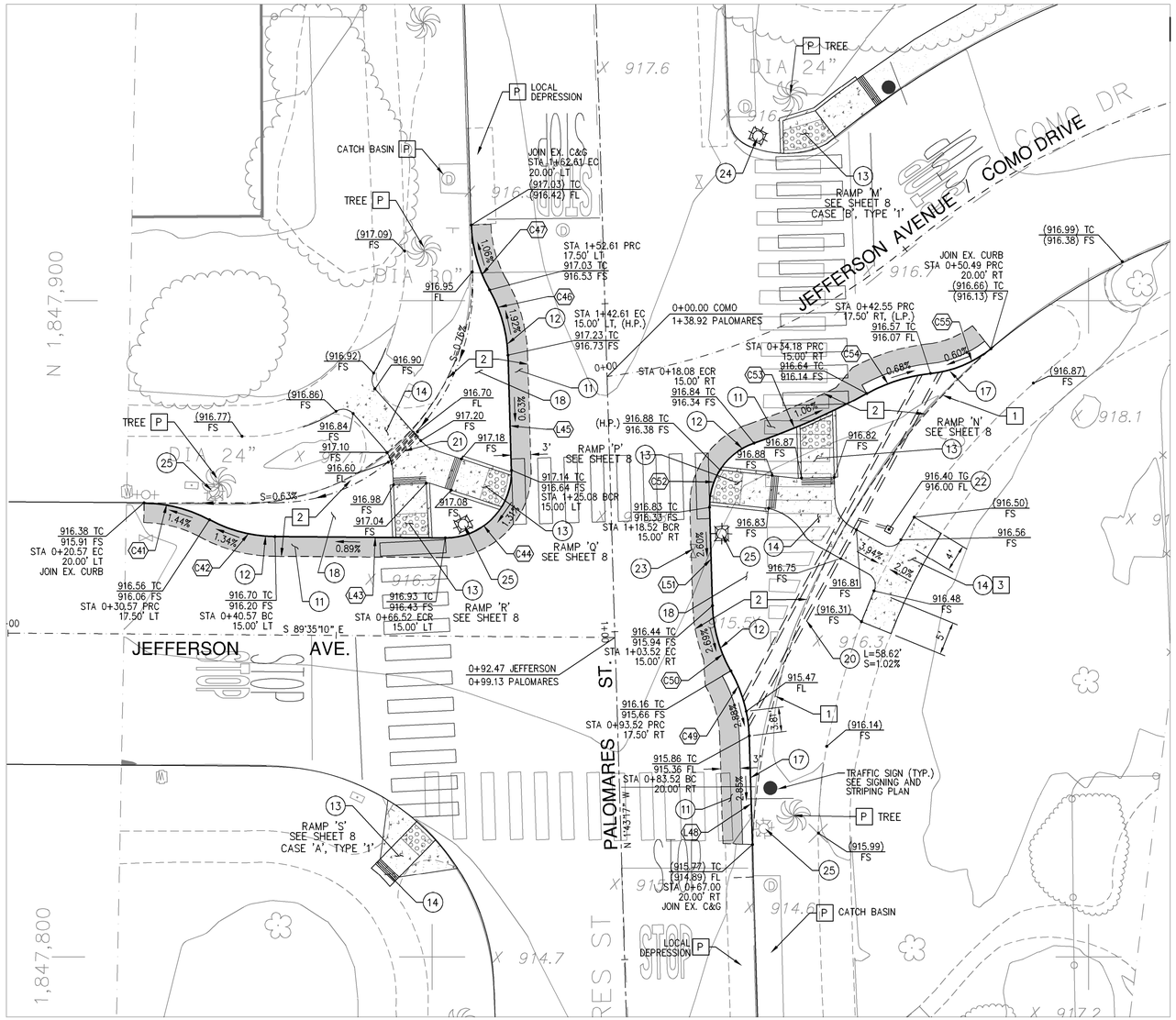
REV	DESCRIPTION	DATE	BY
	REVISION		

SCALE: AS SHOWN

DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)

SHT. 4 OF 17 SHTS

Plan Number _____



CONSTRUCTION NOTES

11. CONSTRUCT 8" AC PAVEMENT.
12. CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.
13. CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'D', TYPE '1' UNLESS NOTED OTHERWISE).
14. CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
17. CONSTRUCT 8" CF, 18" GUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.
18. INSTALL PLANTS SEE LANDSCAPING PLAN.
20. CONSTRUCT PARKWAY DRAIN PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 151-2.
21. CONSTRUCT (3) 3" PVC PIPE CULVERT PER ELEVATIONS SHOWN ON THE PLAN.
22. CONSTRUCT 12"x12" BROOKS GRATE INLET CATCH BASIN (MODEL 1212CB) AND 4" PVC PIPE PER PLAN.
23. ADJUST EXISTING WATER VALVE TO GRADE
24. FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.
25. RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.

DEMOLITION NOTES

- P PROTECT IN PLACE, ITEM PER PLAN
- 1 SAWCUT AND REMOVE EXISTING CURB
- 2 SAWCUT AND REMOVE EXISTING AC PAVEMENT

CURB ALIGNMENT TABLE

	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C41	10.41	21.25	28°04'21"	5.31
C42	10.41	21.25	28°04'21"	5.31
L43	25.95		S 89°35'10" E	
C44	16.08	10.00	92°08'07"	10.38
L45	17.53		N 1°43'17" W	
C46	10.41	21.25	28°04'21"	5.31
C47	10.41	21.25	28°04'21"	5.31
L48	16.52		N 1°43'17" W	
C49	10.41	21.25	28°04'21"	5.31
C50	10.41	21.25	28°04'21"	5.31
L51	15.00		N 1°43'17" W	
C52	12.74	10.00	73°01'22"	7.40
C53	18.79	105.00	10°15'04"	9.42
C54	10.26	25.51	23°02'24"	5.20
C55	10.05	17.67	32°35'15"	5.17

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

N

GRAPHIC SCALE
10 0 10 30
SCALE: 1" = 10'

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 IRVINE, CA 92618
(949) 474-1400 TEL (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

ACCEPTED BY
BY: _____ PUBLIC WORKS DIRECTOR DATE: _____
RECOMMENDED
BY: _____ RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER DATE: _____

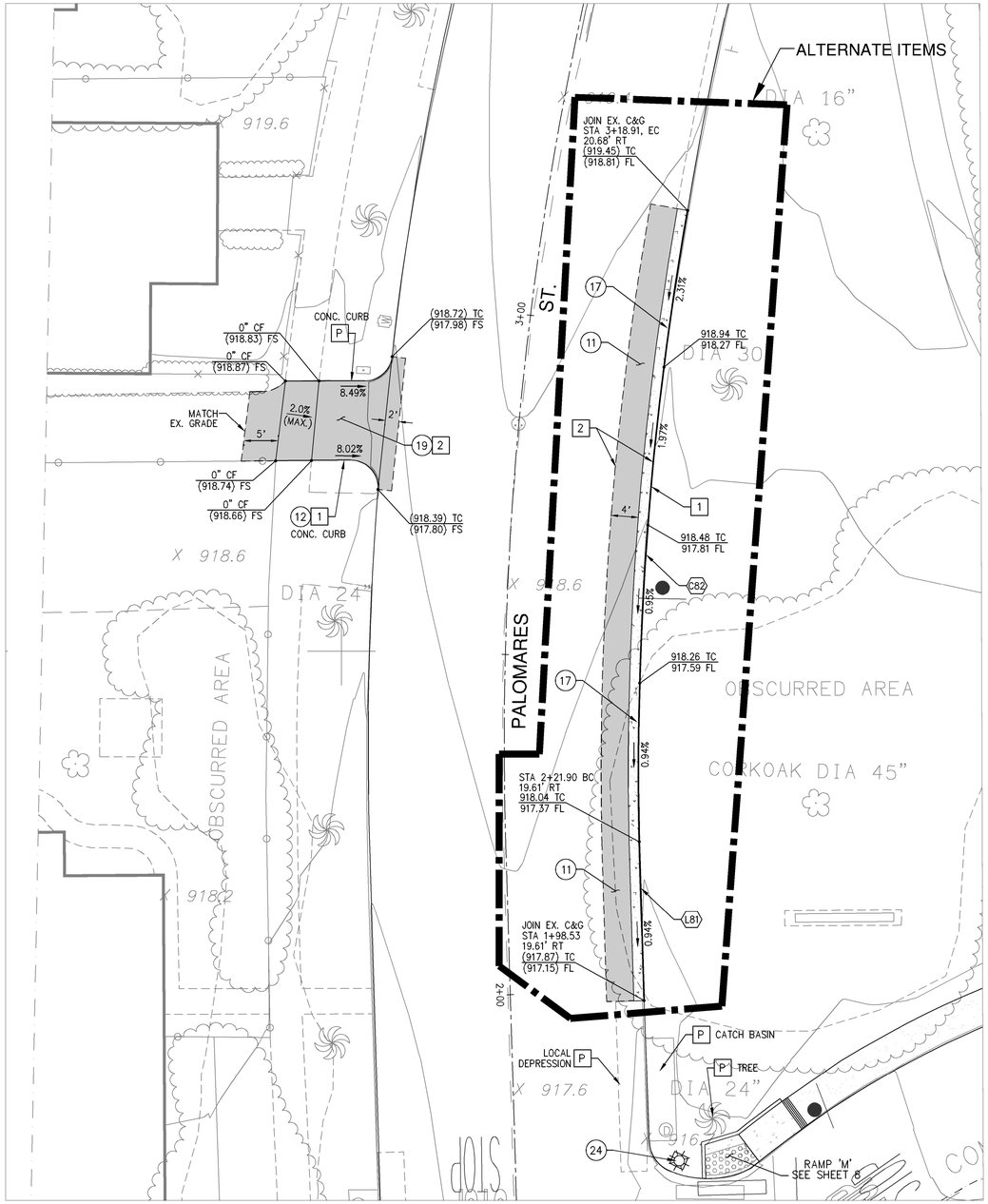
CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

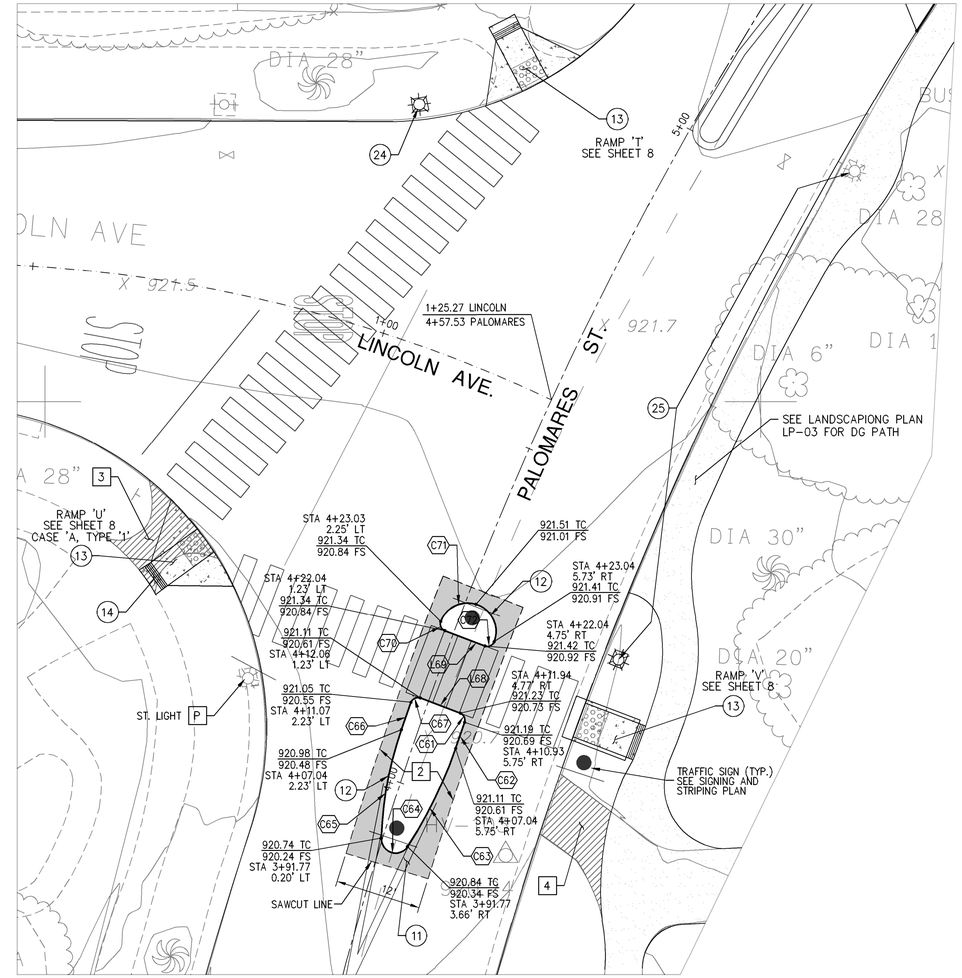
LINCOLN PARK IMPROVEMENTS

DETAIL PLANS - INTERSECTIONS OF JEFFERSON AVE-COMO DR/-PALOMARES AVE

SCALE: AS SHOWN
DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)
SHT. 5 OF 17 SHTS

Plan Number _____





CURB ALIGNMENT TABLE				
	LENGTH	RADIUS	DELTA OR BEARING	TANGENT
C61	1.55	1.00	88°45'09"	0.98
C62	3.85	504.25	0°26'16"	1.93
C63	15.31	63.04	13°54'40"	7.69
C64	5.20	2.00	148°57'29"	7.20
C65	15.50	51.81	17°08'17"	7.81
C66	4.04	512.25	0°27'08"	2.02
C67	1.59	1.00	91°13'58"	1.02
C68	6.00		S 69°14'14" E	
C69	6.00		S 69°14'14" E	
C70	1.57	1.00	89°40'21"	1.00
C71	12.61	4.00	180°39'18"	699.86
C72	1.57	1.00	89°40'21"	0.99
L81	23.37		N 1°43'17" W	
C82	93.20	477.00	11°11'40"	46.75

CONSTRUCTION NOTES

11. CONSTRUCT 8" AC PAVEMENT.
12. CONSTRUCT TYPE "A-2" CURB ONLY PER CITY OF POMONA STD. PLAN NO. A-3-64.
13. CONSTRUCT CURB RAMP PER CITY OF POMONA AND MODIFIED APWA STD. PLAN NO. 111-5. (CASE 'D', TYPE '1' UNLESS NOTED OTHERWISE).
14. CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.
17. CONSTRUCT 8" CF, 18" GUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.
19. CONSTRUCT ALLEY INTERSECTION WITH ASPHALT CONCRETE PER CITY OF POMONA STD. PLAN NO. A-5-06 AND DETAIL HEREON.
24. FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.
25. RELOCATE STREET LIGHT POLE AND REPLACE WITH 150W HPS LAMP.

DEMOLITION NOTES

- P PROTECT IN PLACE, ITEM PER PLAN
- 1 SAWCUT AND REMOVE EXISTING CURB
- 2 SAWCUT AND REMOVE EXISTING AC PAVEMENT
- 3 SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY
- 4 REMOVE EXISTING DG PATH

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

FOR PLANTING SEE SHEET LP-02
FOR SIGNING AND STRIPING SEE SHEET 9

N

GRAPHIC SCALE
10 0 10 30
SCALE: 1" = 10'

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PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
	REVISION		

ACCEPTED BY
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED
BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

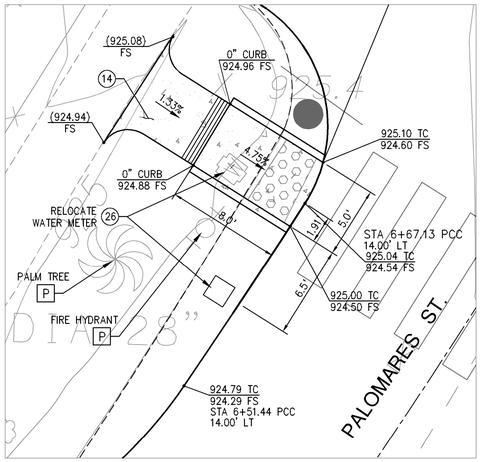
CITY OF POMONA
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

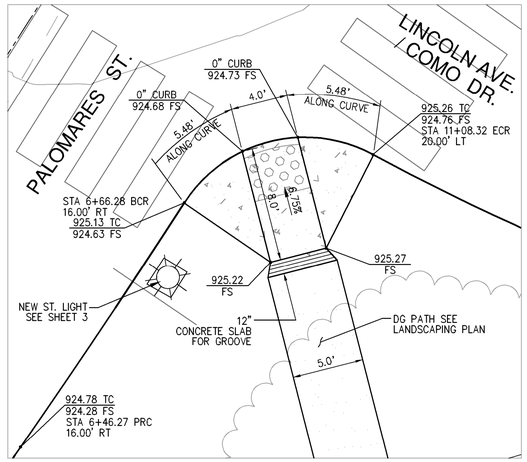
DETAIL PLANS - INTERSECTIONS OF LINCOLN AVE & PALOMARES AVE

SCALE: AS SHOWN
DESIGNED: JL
DRAWN: JL
CHECKED: CP
REVIEWED:
REVIEWED (CONST.)
SHT. 6 OF 17 SHTS

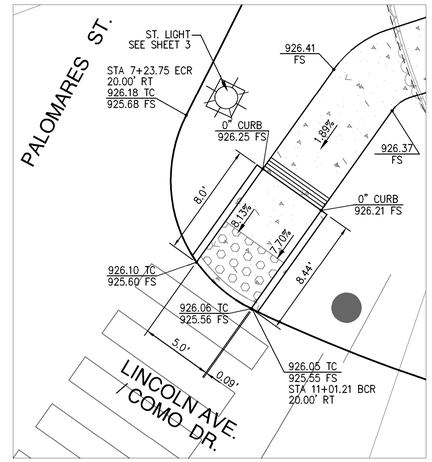
Plan Number _____



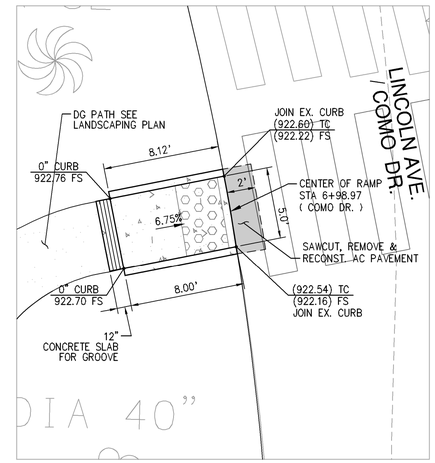
RAMP 'A'
SCALE: 1" = 5'



RAMP 'B'
SCALE: 1" = 5'



RAMP 'D'
SCALE: 1" = 5'



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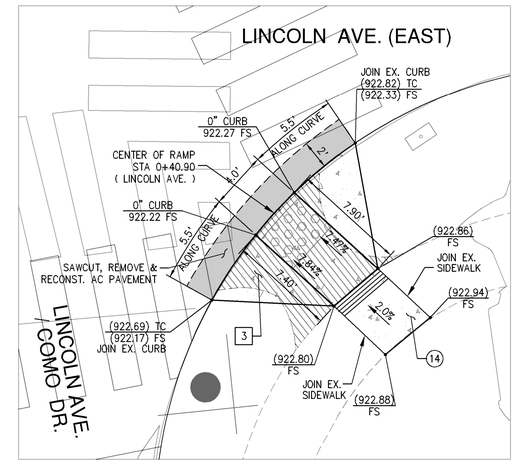
SCALE: 1" = 5'



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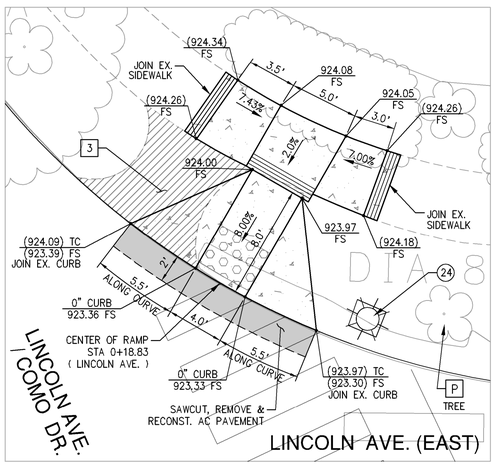
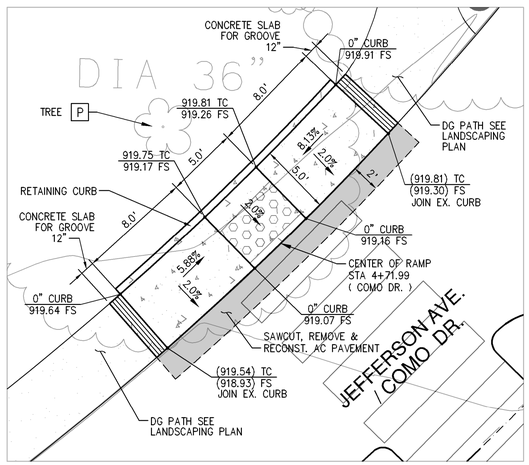
SCALE: 1" = 5'



RAMP 'G'
SCALE: 1" = 5'



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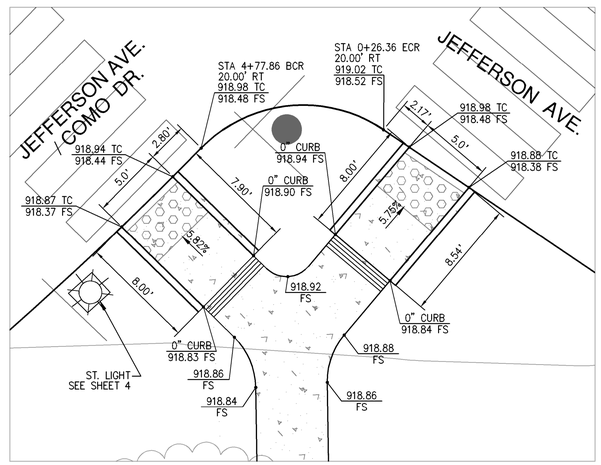
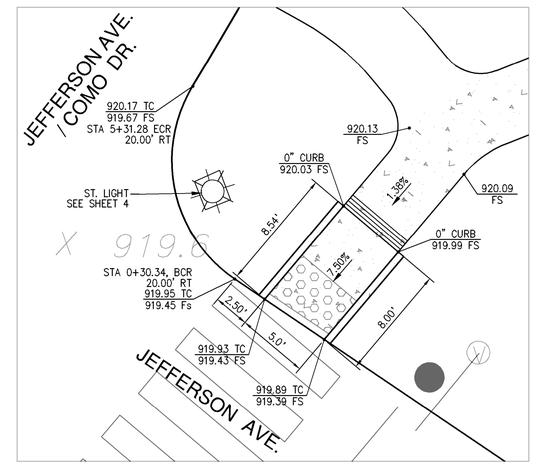
SCALE: 1" = 5'



RAMPS 'J' & 'K'
SCALE: 1" = 5'



RAMP 'L'
SCALE: 1" = 5'

LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

CONSTRUCTION NOTES

(14) CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(24) FURNISH AND INSTALL 150W HPS LAMP WITH PHOTOELECTRIC CONTROLS ON 10' TAPERED CONCRETE POLE (TYPE 782-10) AND 8" GLOBE.

(26) RELOCATE EX. WATER METER.

[3] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY

N

GRAPHIC SCALE

5 0 5 15

SCALE: 1" = 5'

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Underground Service Alert

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:

Stantec

46 DISCOVERY, SUITE 250 IRVINE, CA 92618

(949) 474-1400 TEL (949) 261-8482 FAX

CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

ACCEPTED BY

BY: _____ DATE: _____

PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____

RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

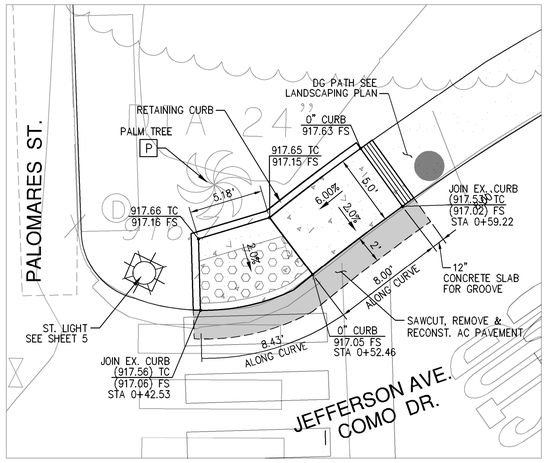
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

DETAIL ADA RAMPS

SCALE			SHT.
AS SHOWN	DESIGNED: JL DRAWN: JL CHECKED: CP REVIEWED: REVIEWED (CONST.)		7 OF 17 SHTS

Plan Number _____



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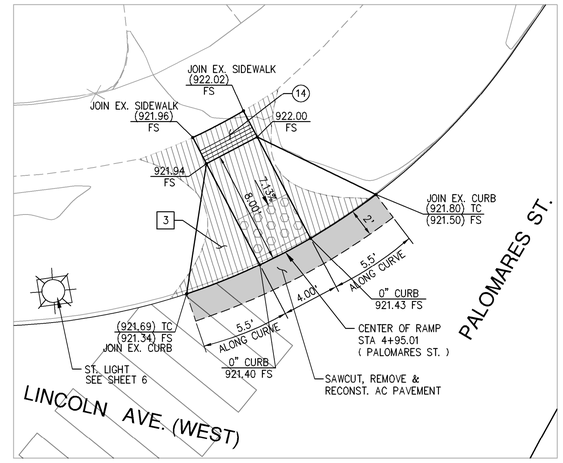
SCALE: 1" = 5'



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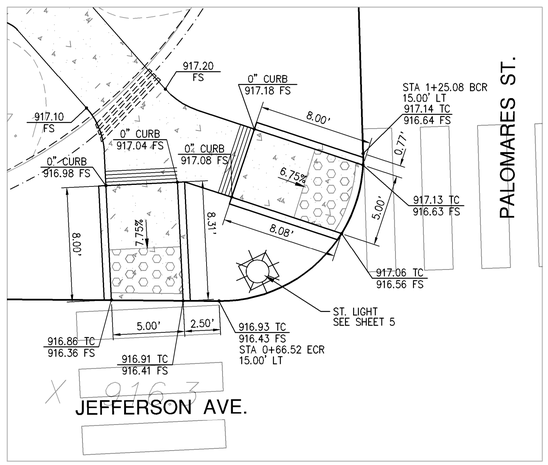
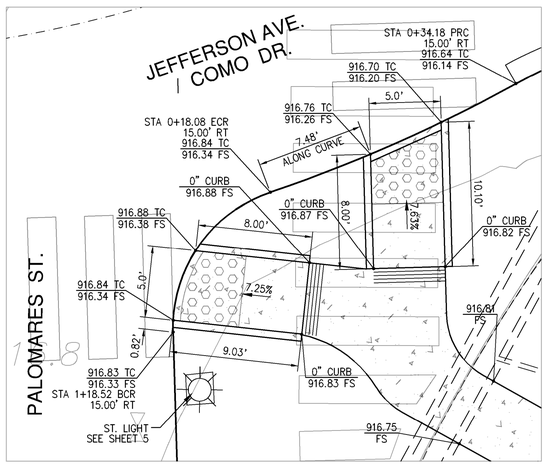
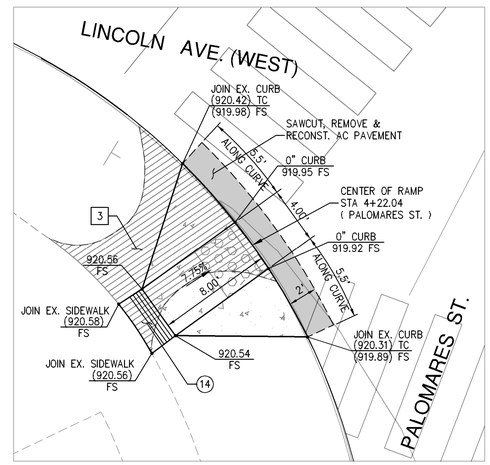
SCALE: 1" = 5'



RAMPS 'Q' & 'R'
SCALE: 1" = 5'



RAMPS 'N' & 'P'
SCALE: 1" = 5'



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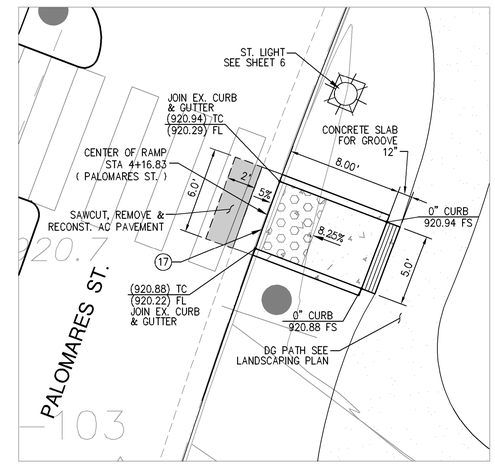

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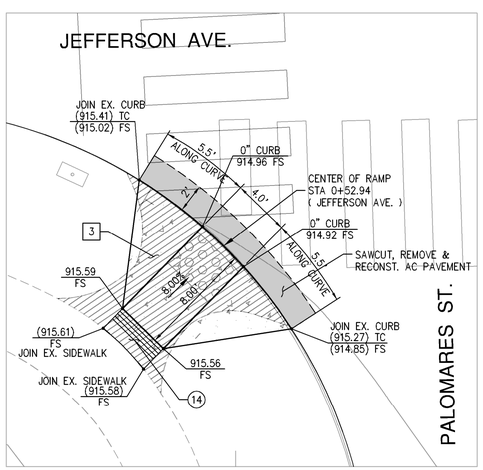
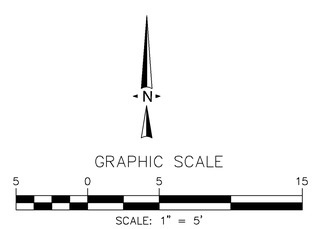
SCALE: 1" = 5'



RAMP 'S'
SCALE: 1" = 5'



LEGEND

● PROPOSED TRAFFIC SIGN. SEE SIGNING AND STRIPING PLAN ON SHEET 9.

CONSTRUCTION NOTES

(14) CONSTRUCT 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(17) CONSTRUCT 8" CF, 18" GUTTER TYPE "B" INTEGRAL CURB AND GUTTER PER CITY OF POMONA STD. PLAN NO. A-3-64.

[3] SAWCUT AND REMOVE EXISTING CONCRETE WALKWAY

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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 IRVINE, CA 92618
(949) 474-1400 TEL (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

ACCEPTED BY
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED
BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

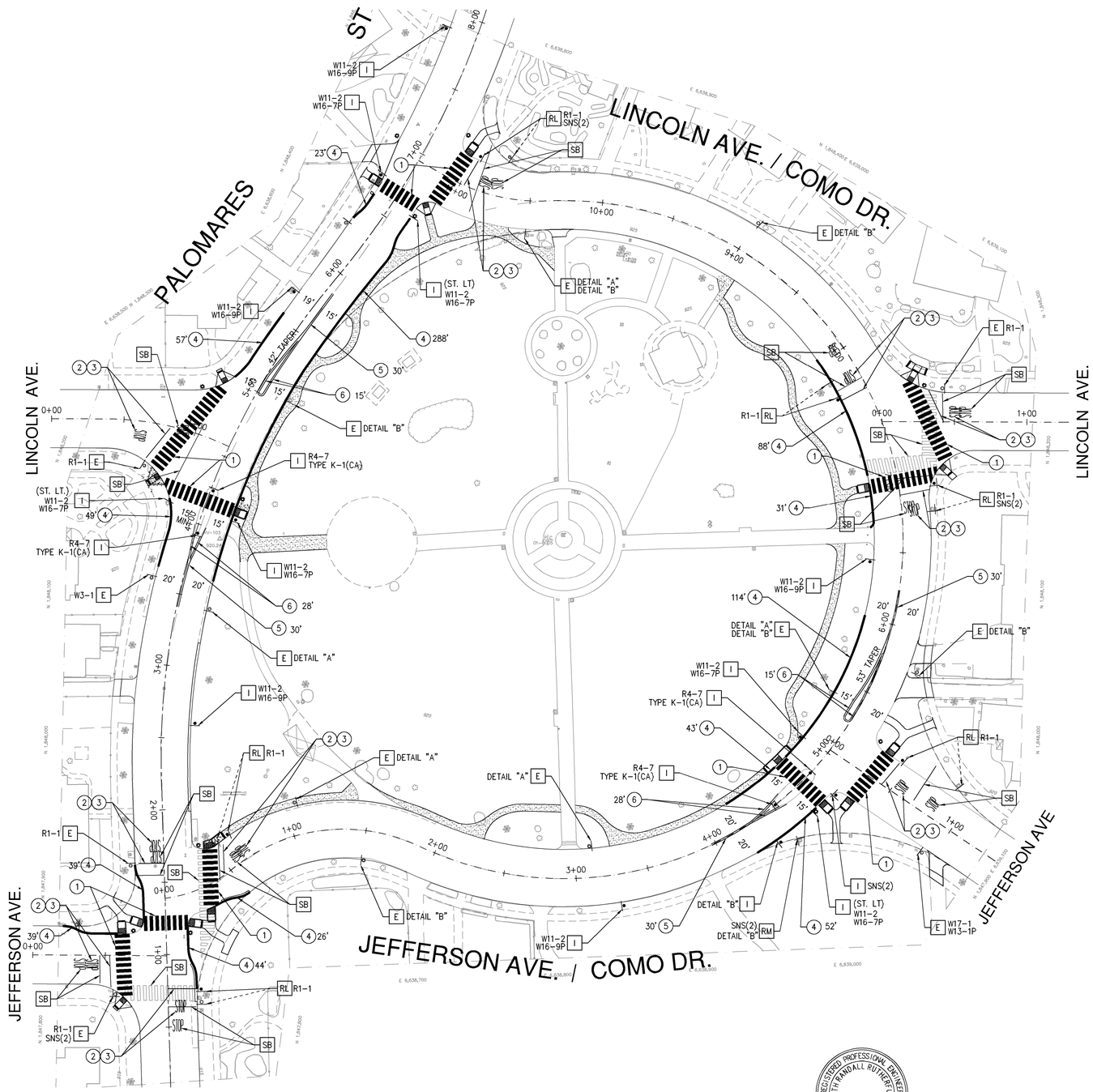
PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

DETAIL
ADA RAMPS

SCALE			SHT.
AS SHOWN	DESIGNED: JL DRAWN: JL CHECKED: CP REVIEWED: REVIEWED (CONST.)		8 OF 17 SHTS

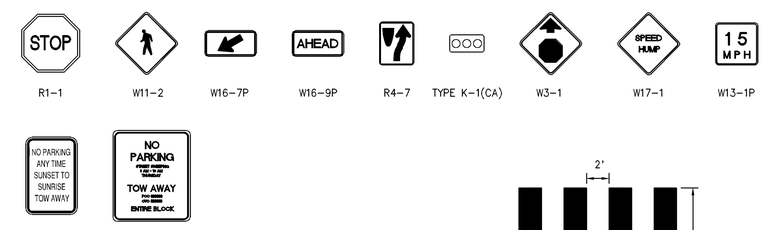
Plan Number _____

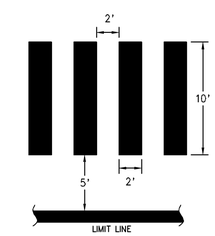


SIGNING & STRIPING GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARDS PLANS AND SPECIFICATIONS (2015 EDITION), AND SPECIAL PROVISIONS, AND ALL ADDENDUM THERETO.
2. ALL PAVEMENT STRIPING, MARKINGS AND LEGENDS SHALL BE THERMOPLASTIC (MINIMUM 0.15" THICK) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND INSTALL RAISED PAVEMENT MARKERS FOR ALL STRIPING. STRIPING, MARKINGS, AND LEGENDS SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS A20A THRU A20D AND A24D THRU A24F.
3. EXISTING STRIPING AND PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED BY WEST SAND BLASTING OR GRINDING AND DISPOSED OF PER SECTIONS 15-2.02 (B&C) AND 15-2.03 OF THE STATE STANDARD SPECIFICATIONS. BLACK OUT IS NOT PERMITTED. ALL DAMAGED PAVEMENT DU TO REMOVALS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A SMOOTH AND UNIFORM SURFACE OR AS DIRECTED BY CITY ENGINEER.
4. TEMPORARY STRIPING, MARKINGS AND TABS SHALL BE APPLIED ON STREET WITH PAVEMENT SURFACE COURSE REPLACEMENTS PRIOR TO OPENING STREET TO THE PUBLIC. IN NO CASE SHALL A NEWLY (BASED OR FINAL) PAVED STREET OPEN TO THE PUBLIC BE LEFT UNSTRIPED OVERNIGHT. PERMEANT STRIPING & MARKING SHALL BE INSTALLED WITHIN SEVEN (7) CALENDAR DAYS AFTER INSTALLING THE FINAL PAVEMENT SURFACE.
5. ALL TEMPORARY PAVEMENT MARKERS/TABS SHALL BE REMOVED AT THE CONCLUSION OF THE PROJECT.
6. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER OR AUTHORIZED REPRESENTATIVE PRIOR TO FINAL INSTALLATION.
7. PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL PAVEMENT STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION AREA SHALL BE RESTORED TO LIKE NEW CONDITION, IN MANNER MEETING THE APPROVAL OF THE CITY ENGINEER.
8. THE CONTRACTOR SHALL RESTRIPE EXISTING AND CURB MARKINGS OBLITERATED BY NEW CONSTRUCTION WHETHER OR NOT SHOWN ON PLANS AT NO COST TO THE CITY.
9. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED.
10. CLEARANCE FROM THE FINISHED GRADE TO THE BASE OF ALL SIGNS SHALL BE 7 FEET MINIMUM.
11. ALL SIGNS SHALL MEET THE 2014 CA MUTCD REQUIREMENTS AND SHALL HAVE 3M DIAMOND GRADE REFLECTIVE SHEETING (OR APPROVED EQUAL) AND 3M 1160 ANTI-GRAFFITI FILM (OR APPROVED EQUAL).
12. TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED AND FUNCTIONAL WITHIN FIVE (5) CALENDAR DAYS OF INSTALLING FINAL PAVEMENT SURFACE.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL TYPE D 2-WAY BLUE REFLECTIVE PAVEMENT MARKERS AT ALL FIRE HYDRANTS WITHIN THE PROJECT LIMITS PER THE 2014 CA MUTCD.

SIGN LEGEND:





DETAIL "C"
CROSSWALK TYP. DIMENSIONS
NO SCALE

CONSTRUCTION NOTES

1. INSTALL HIGH-VISIBILITY CONTINENTAL CROSSWALK PER CALTRANS STD. PLAN A24F WITH WHITE THERMOPLASTIC MATERIAL, SEE DETAIL "C".
2. INSTALL 12" LIMIT LINE WITH WHITE THERMOPLASTIC MATERIAL.
3. INSTALL PAVEMENT LEGEND INDICATED PER CALTRANS STD. PLAN A24D WITH WHITE THERMOPLASTIC MATERIAL.
4. PAINT RED CURB PER LENGTH SPECIFIED ON PLAN.
5. PAINT 4" SOLID DOUBLE YELLOW LINE PER CALTRANS STD. PLAN A20A, DETAIL 22.
6. PAINT 4" SOLID DOUBLE YELLOW MEDIAN ISLAND LINE PER CALTRANS STD. PLAN A20B, DETAIL 29.

E — EXISTING SIGN OF TYPE INDICATED TO REMAIN IN PLACE.
I — INSTALL SIGN OF TYPE INDICATED ON NEW POST OR ON STREET LIGHT AS INDICATED.
RL — RELOCATE SIGN OF TYPE INDICATED.
RM — REMOVE SIGN OF TYPE INDICATED.
SB — REMOVE EXISTING PAVEMENT MARKING OR STRIPING BY SANDBLASTING AND REMOVE RAISED PAVEMENT MARKERS, IF ANY.

REGISTERED PROFESSIONAL ENGINEER KEITH RANDALL RUTHERFORD No. TR001647 TRAFFIC STATE OF CALIFORNIA

N

GRAPHIC SCALE
40 0 40 120
SCALE: 1" = 40'

ACCEPTED BY

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

SIGNING & STRIPING PLAN

CALL TOLL FREE 811®
Know what's below. Call two working before you dig.
Underground Service Alert

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE TWO WORKING DAYS BEFORE YOU DIG.

CAUTION: REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY.

REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:
Stantec
46 DISCOVERY, SUITE 250 (949) 474-1400 TEL
IRVINE, CA 92618 (949) 261-8482 FAX
CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		

SCALE: AS SHOWN	DESIGNED: JDP DRAWN: JDP CHECKED: KRR REVIEWED: REVIEWED (CONST.)	SHT. 9 OF 17 SHTS

Plan Number _____

CONSTRUCTION NOTES

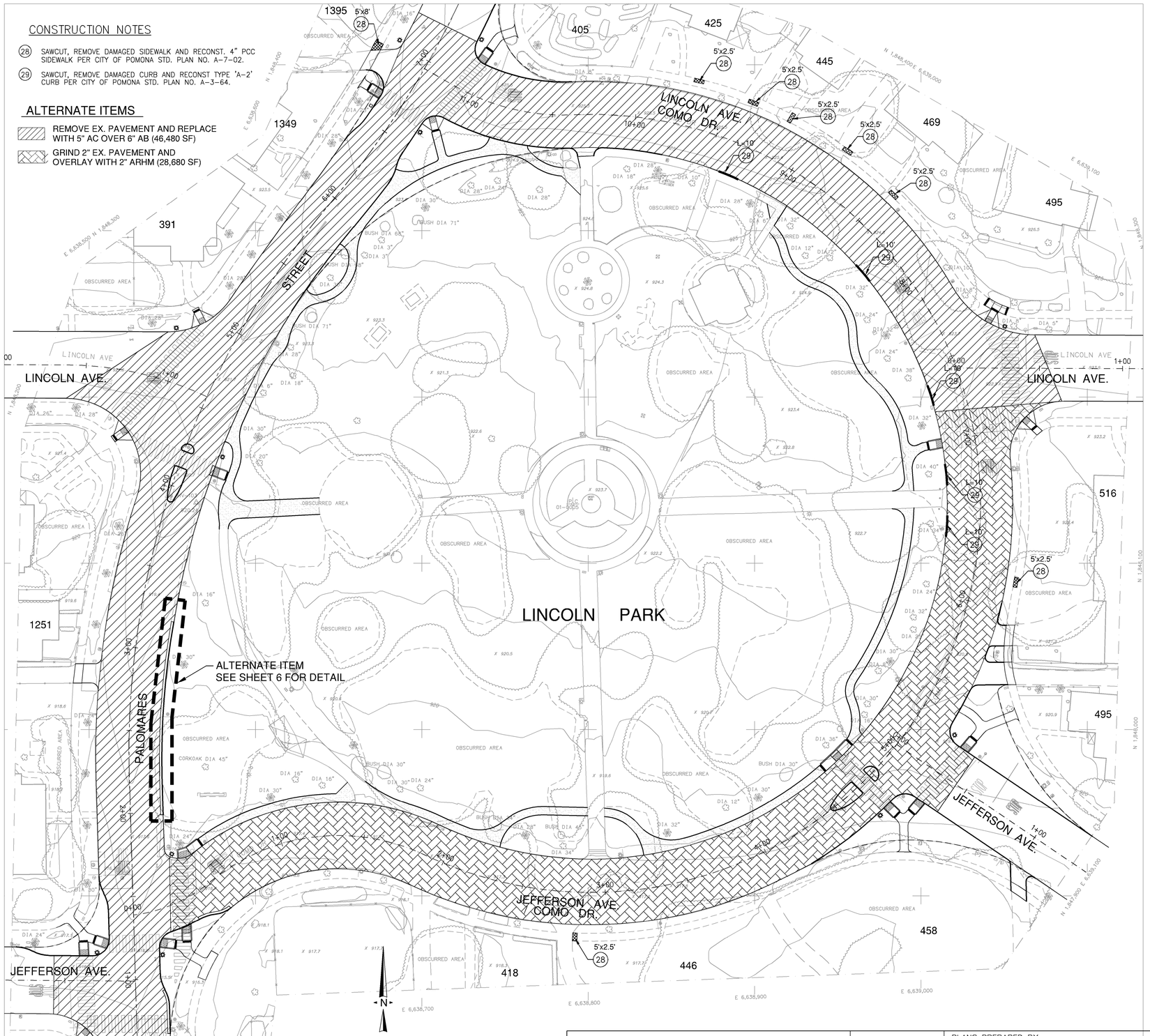
(28) SAWCUT, REMOVE DAMAGED SIDEWALK AND RECONST. 4" PCC SIDEWALK PER CITY OF POMONA STD. PLAN NO. A-7-02.

(29) SAWCUT, REMOVE DAMAGED CURB AND RECONST TYPE 'A-2' CURB PER CITY OF POMONA STD. PLAN NO. A-3-64.

ALTERNATE ITEMS

REMOVE EX. PAVEMENT AND REPLACE WITH 5" AC OVER 6" AB (46,480 SF)

GRIND 2" EX. PAVEMENT AND OVERLAY WITH 2" ARHM (28,680 SF)



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REGISTERED PROFESSIONAL ENGINEER CARLOS A. PINEDA No. C38639 Exp. 03/31/17 STATE OF CALIFORNIA

PLANS PREPARED BY:

Stantec

46 DISCOVERY, SUITE 250 IRVINE, CA 92618

(949) 474-1400 TEL (949) 261-8482 FAX

CARLOS A. PINEDA RCE 38639 DATE

REV	DESCRIPTION	DATE	BY
△	REVISION		
△			
△			
△			
△			
△			
△			

ACCEPTED BY

BY: _____ DATE: _____

PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____

RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENTS

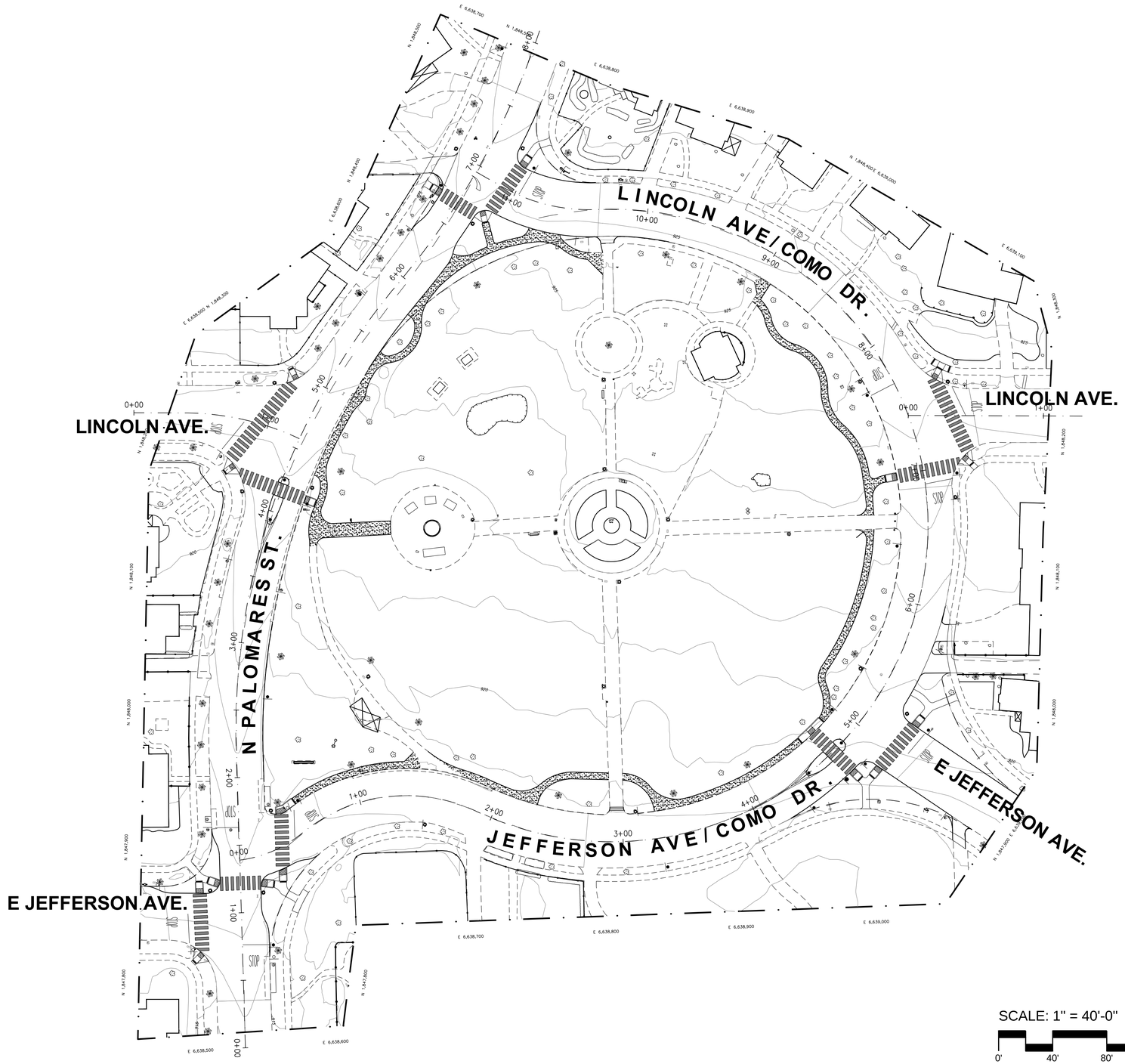
STREET REHAB, SIDEWALK & CURB REPAIR AND DG PATH HORIZONTAL CONTROL

SCALE			
AS SHOWN	DESIGNED: JL	SHT. 10	
	DRAWN: JL		
	CHECKED: CP	OF	
	REVIEWED:		
	REVIEWED (CONST.)	17 SHTS.	

Plan Number _____

NOTE:

1. PLAZA - EXISTING IRRIGATION HEADS OPERATED BY VALVE 18 AT OUTER EDGE. PLAZA SHALL REMAIN & BE PROTECTED AND SHALL REMAIN FULLY OPERATIONAL.
2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.



NOTE

1. REFER TO SHEET LI-03 FOR IRRIGATION NOTES AND LEGEND.
2. REFER TO SHEET LI-04 FOR IRRIGATION DETAILS.
3. CONTRACTOR SHALL REVIEW THE EXISTING IRRIGATION SYSTEM DURING BIDDING & PRIOR TO CONSTRUCTION TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING THEIR BID & PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL ENSURE THAT ALL RELOCATED SYSTEMS ARE FULLY OPERATIONAL AFTER COMPLETION OF WORK.

SCALE: 1" = 40'-0"

0' 40' 80' 160'

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA

PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION PLAN

811 Know what's **below.** **Call** before you dig.

ATTENTION:
All utilities shown on this plan are based on available records. It shall be the sole responsibility of the contractor to verify all existing utilities by contacting utility agencies and to avoid damaging existing utilities during excavation.

FOR UNDERGROUND SERVICE ALERT CALL:
811

REGISTERED LANDSCAPE ARCHITECT
ROBERT W. STONE No. 1891
Signature
SEPTEMBER 30, 2017
Expiration Date
12/10/2016
Date
STATE OF CALIFORNIA

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE			
AS SHOWN	DESIGNED:	LK	SHT. LI-01
	DRAWN:	LK	OF
	CHECKED:	TM	16 SHTS
	REVIEWED:	BS	

Z:\DWG\16217-01 Lincoln Park, City of Pomona\NUVIS\CD\SHEETS\16217-01_LIP.dwg 1/23/17 16:45

Plan Number 428-81055

IRRIGATION NOTES

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
2. DESIGN REFLECTS COMPLIANCE WITH CALIFORNIA STATE ASSEMBLY BILL 325 (AB 325) AND THE STATE'S MODEL ORDINANCE AND/OR THE LOCAL GOVERNING AGENCY'S ADOPTED WATER EFFICIENT LANDSCAPE ORDINANCE.
3. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS.
4. CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (P.S.I.) AND A MAXIMUM DEMAND (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE.
6. EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS.
7. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.
8. WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.
9. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
10. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10' ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.
11. WIRE CONNECTORS SHALL BE SCOTCH DBY OR APPROVED EQUAL.
12. CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS R.C.V.
13. FINAL LOCATION FOR BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CITY'S/OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLING. CONTRACTOR SHALL NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
14. CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.
15. ALL IRRIGATION HEADS ADJACENT TO HARDSCAPE SHALL BE POP-UP STYLE.
16. IRRIGATION HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHEWISE DESIGNATED ON THE PLANS.
17. BUBBLERS SHALL BE LOCATED ON THE UPHILL SIDE OF TREES.

VALVE LOCATION NOTE

ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THESE DRAWINGS ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE ENGINEER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, OTHERWISE DIRECTED BY ENGINEER, ALL VALVES SHALL BE INSTALLED ONE FOOT FROM EDGE OF HARDCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

PRESSURE LOSS CALCULATIONS

WATER PRESSURE CALCULATIONS

POC NUMBER	X	POC SIZE	X
HYDRAULIC GRADE LINE	-	POC ELEVATION	-
ELEVATION DIFFERENCE	-	MINIMUM STATIC WATER PRESSURE	X
REMOTE CONTROL VALVE #	X	REMOTE CONTROL VALVE SIZE	X
R.C.V. DEMAND (GPM)	X	TOTAL DEMAND (GPM)	X
HIGHEST HEAD ELEVATION	-	STATIC PRESSURE AT R.C.V.	-

SIZE	DESCRIPTION		PSI LOSS	
X"	SERVICE LINE	1	X	PSI
X"	WATER METER	2	X	PSI
X"	BACKFLOW PREVENTER	3	X	PSI
X"	BALL VALVES	4	X	PSI
X"	MASTER CONTROL VALVE	5	X	PSI
X"	XXX FEET OF MAINLINE: TYPE CLASS 315	6	X	PSI
-	FEET OF MAINLINE: TYPE	7	-	PSI
X"	REMOTE CONTROL VALVE	8	X	PSI
10%	LATERAL LINE LOSS	9	X	PSI
10%	FITTING LOSS	10	X	PSI
0	FT. OF ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11	0.0	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12	0.0	PSI
PRESSURE REQUIRED AT HEAD		13	30.0	PSI
TOTAL PRESSURE REQUIRED (SUM OF #12 AND # 13)		14	30.0	PSI
STATIC WATER PRESSURE (FROM ABOVE)		15	X	PSI
RESIDUAL PRESSURE (SUBTRACT # 14 FROM # 15)		16	#VALUE!	PSI
SET PRV OR MCV AT (# 14 PLUS 10 PSI)		17	0.0	PSI
PRESSURE BOOST, IF REQUIRED (#14-#15 + 20 PSI)		18	0.0	PSI

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ATTENTION:
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FOR UNDERGROUND SERVICE ALERT CALL:
811

DRIPLINE PLAN NOTES

1. PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
2. INSTALL DRIPLINE A MAXIMUM OF 18" APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
3. PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 1125' OF TOTAL DRIPLINE PER ZONE.
4. PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
5. INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
6. ON ALL SLOPES AND MOUNDS, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
7. PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
   - 0-8 GPM – 3/4"
   - 8.1-15 GPM – 1"
   - 15.1-25 GPM – 1 1/4"
8. FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
9. THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.
10. RUN THE DRIPLINE SYSTEM EVERY DAY OR EVERY OTHER DAY TO ESTABLISH PLANT MATERIAL. MAINTAIN A CONSISTENT MOISTURE BALANCE IN THE SOIL. IT IS IMPORTANT TO KEEP THE SOIL MOIST WITHOUT SATURATION.

WATER EFFICIENT LANDSCAPE CALCULATIONS

PROJECT NAME:	NAME OF PROJECT	
PART ONE:	MAXIMUM APPLIED WATER ALLOWANCE (MAWA)	
	MAWA = (ETo) (0.7) (LA) (0.62)	
	MAWA = (ETo) (0.62) [(0.7 x LA) + (0.3 x SLA)]	
	YEARLY ETo	0.0
	CONVERSION FACTOR	0.00
	ET ADJUSTMENT FACTOR	0.0
	TOTAL LANDSCAPE AREA (LA in S.F.)	0
	ET ADJUSTMENT FACTOR FOR SPECIAL LANDSCAPE AREA	0.00
	TOTAL SPECIAL LANDSCAPE AREA (SLA in S.F.)	0
	MAWA GAL./YR.	**0**
PART TWO:	ESTIMATED TOTAL WATER USE (ETWU)	
	ETWU = (ETo) (HA) (PF) (0.62) / (IE)	
	ETWU = (ETo) (0.62) ((PF x HA / IE) + SLA)	

IRRIGATION METHOD	PLANT WATER USE TYPE	HYDROZONE AREA (HA in S.F.)	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	ELWU (GAL./YR.)
SUB-SURFACE (SHRUB)	LOW	0	0.0	0.00	0
DRIP (SHRUB)	LOW	0	0.0	0.00	0
DRIP (SHRUB)	MEDIUM	0	0.0	0.00	0
SPRAY (LAWN)	HIGH	0	0.0	0.00	0
WATER FEATURE	HIGH	0	0.0	0.00	0
	TOTAL	0		**ETWU GAL./YR.**	**0**

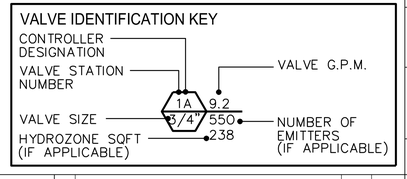
PART THREE HYDROZONE INFORMATION TABLE

HYDROZONE PLANT WATER USE TYPE	ZONE OR VALVES	IRRIGATION METHOD	HYDROZONE AREA (S.F.)	% OF LANDSCAPE AREA
LOW		DRIP	0	0.00%
MODERATE		DRIP	0	0.00%
HIGH		POOL	0	0.00%
TOTAL				0.00%

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	DETAIL
	RAIN BIRD	XFS-06-12 SUBSURFACE DRIP TUBING (COPPER EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER CHIP TECHNOLOGY TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP TUBING SHALL BE INSTALLED 2" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 9" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDTS140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS, SEE ACTUAL SPACING REQUIREMENTS ABOVE AND IN DETAILS.	B,F SHT. L-03
NO SYMBOL	RAIN BIRD	CONNECTION BETWEEN XFS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING XF DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.	
NO SYMBOL	RAIN BIRD	XF SERIES 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). ALL BARBED DRIP TUBING FITTINGS SHALL BE INSTALLED USING A FITINS-TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED.	
	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.	B,F SHT. L-03
F	GPH IRRIG./ RAIN BIRD	GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A RAIN BIRD 1812 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.	C SHT. L-03
A	RAIN BIRD	ARV050 AIR/VACUUM RELIEF VALVE INSTALLED WITH A XFD-TFA-075 BARB X BARB X 3/4" FIPT TEE FITTING AND A AND A 3/4" X 1/2" SCH. 40 PVC THREADED REDUCER BUSHING. INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. SEE PLANS FOR APPROXIMATE LOCATION AND QUANTITY OF ARV'S PER DRIP ZONE. USING AN AIR RELIEF LATERAL CONSTRUCTED OF XFD "BLANK" XF TUBING, CONNECT AIR RELIEF VALVE TO ALL DRIP LINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S MAY BE REQUIRED PER DRIP TUBING ZONE, SEE PLANS. INSTALL INSIDE A 7" ROUND VALVE BOX.	I SHT. L-03
●	RAIN BIRD	XXX-PEB PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1") . INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A RAIN BIRD LCRBY-100D DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR. INSTALL THE DRCV ASSEMBLY INSIDE A NDS 314BC RECTANGULAR VALVE BOX. INSTALL 2-WIRE DECODER COMPATIBLE WITH DISTRICT CONTROLLER.	H SHT. L-03
	AS APPROVED	PVC PIPE 1" – 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE	G SHT. L-03
	AS APPROVED	CL-315 PVC MAINLINE PIPE – 2" AND LARGER SCH 40 PVC PURPLE PIPE MAINLINE PIPE – 1 1/2" AND SMALLER . 2" DIA. OR SMALLER –18" MIN. COVER. ALL MAINLINE TO BE INSTALLED WITH TRACER WIRE. ALL MAINLINE SHALL BE PURPLE.	G SHT. L-03
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. ALL MAINLINE SLEEVES ARE TO BE CONSIDERED EXISTING VERIFY LOCATION IN FIELD.	D SHT. L-03
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.	
		1-1/4" MINIMUM SCH. 40 PVC ELECTRICAL CONDUIT FOR 2-WIRE SYSTEM WITH ELECTRICAL SWEEPS. PROVIDE PULL BOXES PER PLAN.	
PR	NDS	NDS 312BC ROUND SPLICE BOX FOR LOW VOLTAGE CONTROL WIRE.	
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS	A SHT. L-03
NO SYMBOL	NDS	ALL VALVE BOXES SHALL BE NDS SERIES, PLASTIC TYPE WITH OVERLAPPING LIDS. VALVE BOX BODIES SHALL BE PURPLE IN COLOR. LIDS FOR BOXES SHALL BE PURPLE LIDS. ALL BOXES SHALL BE SECURED WITH A RAIN BIRD VB-LOCK-P PENTA HEAD BOLT, WASHER AND CLIP.	J SHT. L-03

VALVE IDENTIFICATION KEY



REGISTERED LANDSCAPE ARCHITECT ROBERT W. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2017
Expiration Date
12/10/2016
Date

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION LEGEND AND NOTES

SCALE AS SHOWN

DESIGNED: LK
DRAWN: LK
CHECKED: TM
REVIEWED: BS

SHT. **LI-03** OF **17** SHTS

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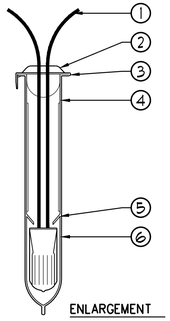
Plan Number 428-81055

NOTES:
1. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.
2. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

1. LOW VOLTAGE WIRES, THREE (3) MAXIMUM
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
3. CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE
4. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
5. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
6. SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTIOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS



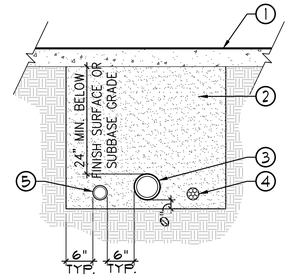
ENLARGEMENT

A TYPICAL WIRE CONNECTION
SCALE: NTS

© NUVIS JULY 2009 / Irr-WireConnect01.dwg

NOTES:
1. PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.
2. DETAIL ALSO FOR PIPE INSTALLED IN ROCK SOIL.
3. ALL SLEEVES TO BE SCHEDULE 40 PVC.
4. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.
5. 24" MINIMUM COVER ON MAINLINE 3" AND LARGER

1. FINISH SURFACE, REFER TO CONSTRUCTION PLAN
2. CLEAN SAND BACKFILL MINIMUM 90% COMPACTION
3. PRESSURE MAINLINE IN SCHEDULE 40 SLEEVE - SIZE SLEEVE TWICE DIAMETER OF PRESSURE SUPPLY LINE
4. CONTROL WIRES IN SLEEVE - SIZE PER PLAN. INSTALL ADJACENT TO PRESSURE SUPPLY LINE
5. NON-PRESSURE LATERAL LINE IN SLEEVE TWICE DIAMETER OF LATERAL LINE



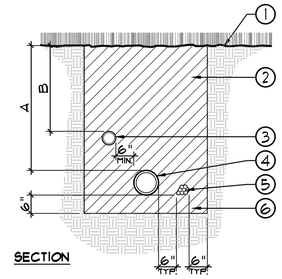
SECTION

D TYPICAL SLEEVING
SCALE: 3/4"=1'-0"

NOTES:
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90° CHANGES IN DIRECTION.
2. PROVIDE A MINIMUM 10 FEET SEPERATION BETWEEN POTABLE AND RECLAIMED MAINLINE PIPING.
3. 24" MINIMUM COVER ON 3" MAINLINE AND LARGER.

DIMENSION	A	B
1/2" TO 2-1/2" IN SIZE	18"	12"
3" TO 6" IN SIZE	24"	

1. FINISH GRADE, REFER TO CONSTRUCTION PLAN
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED
3. NON-PRESSURE LATERAL LINE. SNAKE PIPE IN TRENCH
4. PRESSURE SUPPLY LINE. SNAKE PIPE IN TRENCH
5. CONTROL WIRES - BUNDLE AND TAPE AT 10' O.C. AND INSTALL ADJACENT TO PRESSURE SUPPLY LINE



SECTION

G TYPICAL TRENCHING
SCALE: 3/4"=1'-0"

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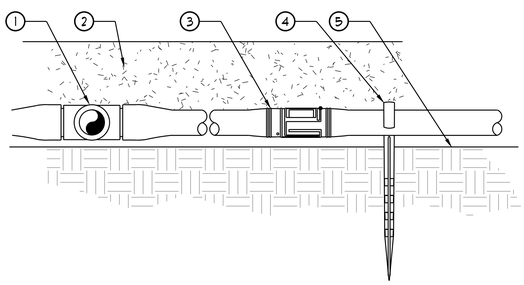
1. TEE
2. TOP OF MULCH
3. PRESSURE-COMPENSATING IN-LINE EMITTER TUBING PER LEGEND. INSTALL AT 2" DEPTH MAX.
4. TIE DOWN STAKE
5. FINISH GRADE



B DRIPLINE INSTALLATION
SCALE: NTS

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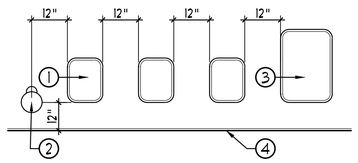
NOTES:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 2" ABOVE FINISH GRADE OR MULCH COVER IN GROUND- COVER/SHRUB AREA AND 1" ABOVE FINISH GRADE IN TURF AREA.
3. SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. BRAND VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2 - 2" LETTERING.

1. TYPICAL 16"X21" RECTANGULAR VALVE BOX
2. TYPICAL QUICK COUPLING VALVE
3. TYPICAL 19"X26" OR LARGER VALVE BOX
4. EDGE OF LAWN, WALK, FENCE, CURB, ETC.



PLAN VIEW

E VALVE BOX INSTALLATION
SCALE: 1/2"=1'-0"

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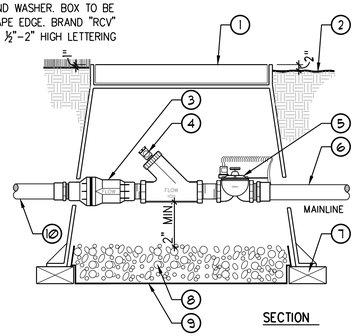
NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.

1. PLASTIC RECTANGULAR 'JUMBO' VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. BRAND "RCV" AND CONTROL STATION # ONTO LID, 1 1/2"-2" HIGH LETTERING
2. FINISH GRADE
3. PRESSURE REGULATOR, REFER TO LEGEND
4. WYE FILTER, REFER TO LEGEND
5. R.C.V., REFER TO LEGEND
6. PVC MAINLINE
7. BRICK SUPPORT(S)
8. ¾" WASHED CRUSHED GRAVEL
9. LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
10. PVC TO DRIP SYSTEM



SECTION

H DRIP RVC ASSEMBLY
SCALE: NTS

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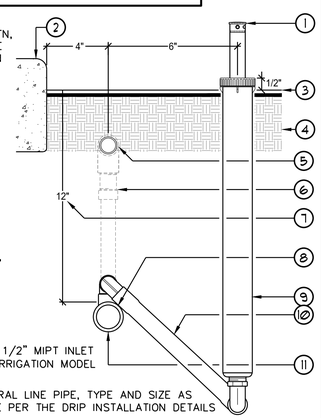
NOTES:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.
INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

1. POP-UP INDICATOR HEAD, WITH A GPH IRRIGATION DRIP FLUSH NOZZLE, MODEL #GDFN, ORANGE COLORED NOZZLE TO REMAIN IN THE CLOSED POSITION DURING SYSTEM OPERATION AND OPENED FOR SYSTEM FLUSHING. DIRECT FLUSH STREAM INTO PLANTER
2. INSTALL POP-UP INDICATOR HEAD 10" OFF OF PAVEMENT OR THE EDGE OF PLANTED AREA SERVED BY DRIP TUBING
3. INSTALL POP-UP INDICATOR HEAD 1/2" ABOVE FINISHED GRADE IN SHRUB AND GROUND COVER AREAS
4. UNDISTURBED SOIL
5. SUBSURFACE DRIP TUBING, DEPTH AS SHOWN ON LEGEND AND DETAIL
6. DRIP CONNECTION ASSEMBLY, SEE DRIP TUBING CONNECTION DETAIL
7. DISCHARGE HEADER SHALL BE INSTALLED 12" BELOW FINISHED SOIL GRADE, TYPICAL
8. SCH 40 PVC SxSxT TEE FITTING, LATERAL X LATERAL X 1/2" SIZE WITH FIPT THREADS
9. RAIN BIRD 1812, 12" POP-UP HEAD
10. PRE-ASSEMBLED POLY, TRIPLE SWING JOINT, 1/2" MIPT INLET AND OUTLET WITH A 12" LAY LENGTH, GPH IRRIGATION MODEL #GSJ0512
11. DRIP SYSTEM DISCHARGE HEADER, PVC LATERAL LINE PIPE, TYPE AND SIZE AS SHOWN ON LEGEND, OR 1 1/4" MINIMUM SIZE PER THE DRIP INSTALLATION DETAILS



C DRIP FLUSH INDICATOR HEAD
SCALE: NTS

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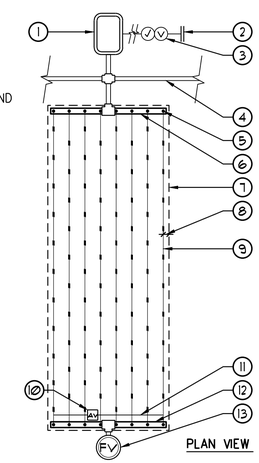
1. REMOTE CONTROL VALVE WITH FILTER AND PRESSURE REGULATOR. REFER TO LEGEND AND PLANS FOR SPECIFICATIONS
2. POINT OF CONNECTION, REFER TO PLANS
3. BACKFLOW PREVENTER, REFER TO LEGEND AND PLANS FOR SPECIFICATIONS
4. LATERAL LINE TO NEXT PLANTER BED
5. MANIFOLD-TO-ELBOW CONNECTION
6. PVC SUPPLY MANIFOLD
7. AREA PERIMETER
8. PERIMETER LATERALS 2" TO 4" FROM EDGE
9. DRIPLINE
10. AIR/VACUUM RELIEF VALVE (PLUMBED TO TUBING AT EACH HIGH POINT) REFER TO LEGEND FOR SPECIFICATIONS
11. AIR/RELIEF LATERAL BLANK TUBING CENTERED ON MOUND OR BERM
12. PVC FLUSH MANIFOLD
13. AUTOMATIC FLUSH VALVE PLUMBED TO TUBING. REFER TO LEGEND FOR SPECIFICATIONS



PLAN VIEW

F END FEE INLINE DRIP
SCALE: NTS

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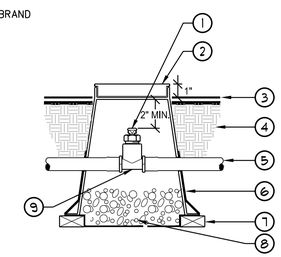
1. AIR / VACUUM RELIEF VALVE, INSTALL AT THE HIGH POINT OF THE SYSTEM
2. PLASTIC ROUND VALVE BOX, 7" SIZE, HEAT BRAND "AR" ONTO LID.
3. FINISHED GRADE IN SHRUB AREAS
4. AMENDED OR NATIVE SOIL
5. SUB-SURFACE DRIP TUBING, DEPTH PER LEGEND
6. LANDSCAPE FABRIC, WRAP UP AND OVER ALL OPENINGS
7. BRICK SUPPORTS, 2 REQ.
8. CRUSHED 3/4" ROCK, MIN. 4" DEPTH INSIDE BOX
9. COMBINATION TEE FITTING, TUBING X TUBING X FIPT, SAME MANUFACTURER AS DRIP TUBING. USE 3/4" X 1/2" PVC THREADED REDUCER BUSHING AS REQUIRED



I DRIP AIR RELIEF VALVE
SCALE: NTS

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811 Know what's below. Call before you dig.

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FOR UNDERGROUND SERVICE ALERT CALL: 811

REGISTERED LANDSCAPE ARCHITECT ROBERT W. STONE No. 1891 STATE OF CALIFORNIA
Signature
SEPTEMBER 30, 2017
Expiration Date
12/10/2016
Date

PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 DATE

NUVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

ACCEPTED
BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED
BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

IRRIGATION DETAILS

SCALE AS SHOWN	DESIGNED: LK	SHT. LI-04
	DRAWN: LK	
	CHECKED: TM	OF
	REVIEWED: BS	17 SHTS

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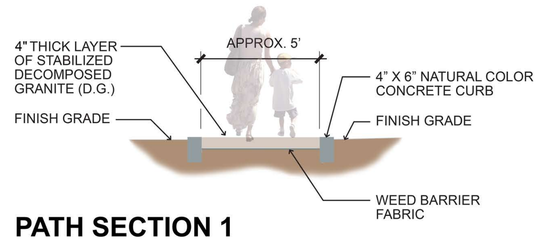
Plan Number 428-81055

EXISTING PLANT LEGEND

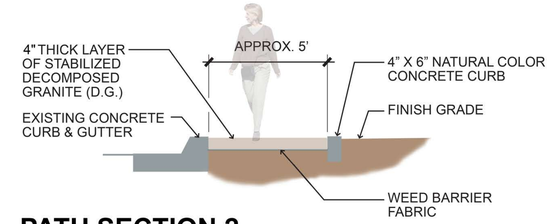
	BOTANICAL NAME	COMMON NAME
1	ABELIA GRANDIFLORA	GLOSSY ABELIA
2	CAMELLIA SPP.	CAMELLIA
3	CINNAMOMUM CAMPHORA	CAMPHOR TREE
4	CUPANIOPSIS ANACARDIOIDES	CARROTWOOD
5	FEIJOA SELLOWIANA	PINEAPPLE GUAVA
6	FRAXINUS SPP.	ASH
7	JUNIPERUS SPP.	JUNIPER
8	LAGERSTROEMIA SPP.	CRAPE MYRTLE
9	PITTOSPORUM TOBIRA	MOCK ORANGE
10	PITTOSPORUM TOBIRA 'VARIEGATA'	MOCK ORANGE
11	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE
12	PYRUS SPP.	EVERGREEN PEAR
13	QUERCUS AGRIFOLIA	COAST LIVE OAK
14	QUERCUS SUBER	CORK OAK
15	RHAPHIOLEPIS SPP.	INDIAN HAWTHORN
16	VACCINIUM SPP.	BLUEBERRIES
17	WASHINGTONIA SPP.	FAN PALM
18	LAURUS NOBILIS	SWEET BAY

CONSTRUCTION LEGEND

- **A** 5' WIDE DECOMPOSED GRANITE PATH. REFER TO SECTIONS HEREON.
- **B** EXISTING TREES & SHRUBS SHALL REMAIN & BE PROTECTED. #'S DENOTE PLANT MATERIAL PER PLANT LEGEND HEREON.
- **C** MEDIAN WITH PAINTED CROSS WALK, RUNNING FROM PARK TO RESIDENTIAL. SIDE OF STREET.
- **D** DENOTES PROPOSED BULB-OUT.
- **E** EXISTING PLANTER WALL SHALL REMAIN, BE PROTECTED & REPAIRED.
- **F** EXISTING TOT LOT AND PLAY EQUIPMENT SHALL REMAIN & BE PROTECTED.
- **G** EXISTING RESTROOM BUILDING SHALL REMAIN & BE PROTECTED.
- **H** EXISTING SHADE STRUCTURE SHALL REMAIN & BE PROTECTED.
- **I** EXISTING PLAZA SHALL BE REFURBISHED:
  - REGRADING FOR ADA ACCESSIBILITY
  - EXISTING CONCRETE MOSAIC PAVING TO BE REMOVED AND REPLACED WITH STABILIZED D.G.
  - MOSIAC BAND TO BE RESET AT BASE OF TREE PLANTER SHALL BE SET IN STABILIZED DECOMPOSED GRANITE (D.G.)
  - EXISTING BBQ'S, TRASH RECEPTACLES, & THREE (3) EXISTING PICNIC TABLES SHALL REMAIN & BE PROTECTED. ONE (1) NEW ADA PICNIC TABLE SHALL BE INCLUDED IN PLAZA.
- **J** NEW TURF AREA
- **K** SUCCULENT PLANTING AREA
- **L** RECYCLED BRICK PAVING



PATH SECTION 1



PATH SECTION 2

VIEW LEGEND

1. COMO DR. & N. PALOMARES ST.
2. COMO DR. & E. JEFFERSON AVE.
3. N PALOMARES ST. & E. JEFFERSON AVE.
4. N. PALOMARES ST. & LINCOLN AVE.

NOTE:
1. VIEWS CORRESPOND TO STREET VIEW PERSPECTIVE DESIGN SIMULATIONS.
2. PROPOSED BULB-OUT IRRIGATION FOR NEW BULB-OUT PLANTING AREAS SHALL BE TIED-INTO HOMEOWNER IRRIGATION SYSTEM.

NOTE

1. REFER TO SHEET LP-03 FOR COMPLETE PLANT LIST, NOTES AND DETAILS.

SITE LAYOUT PLAN
LINCOLN PARK
CITY OF POMONA, CA

ACCEPTED

BY: _____ DATE: _____
PUBLIC WORKS DIRECTOR

RECOMMENDED

BY: _____ DATE: _____
RENE GUERRERO, P.E., RCE NO. 66263, CITY ENGINEER

CITY OF POMONA
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION

LINCOLN PARK IMPROVEMENT

LANDSCAPE SITE PLAN

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Signature
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01/23/2017
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PLANS PREPARED UNDER THE SUPERVISION OF:

ROBERT STONE RLA 1891 DATE

NŪVIS LANDSCAPE ARCHITECTURE

△	REVISIONS	DATE	INITIAL

SCALE			SHT. LP-01
AS SHOWN	DESIGNED:	TM	OF
	DRAWN:	DL	
	CHECKED:	TM	
	REVIEWED:	BS	17 SHTS

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Plan Number 428-81055