
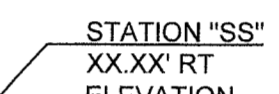



ABBREVIATIONS:

AC	ASPHALT CONCRETE
BKSW	BACK OF SIDEWALK
CB	CATCH BASIN
CG	CROSS GUTTER
C&G	CURB & GUTTER
C/L	CENTERLINE
D/W	DRIVEWAY
EP	EDGE OF PAVEMENT
EX.	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISH SURFACE
GL	GUTTER LIP
GUY	GUY WIRE
MH	MANHOLE
PB	PULLBOX
PCC	PORTLAND CEMENT CONCRETE
PPB	PEDESTRIAN PUSH BUTTON
PP	POWER POLE
PR.	PROPOSED
PVMT	PAVEMENT
R/W	RIGHT OF WAY
S/W	SIDEWALK
SC	SAWCUT
SD	STORM DRAIN
TC	TOP OF CURB
TRC	TOP OF RETAINING CURB
TYP.	TYPICAL
UTIL	UTILITY
WM	WATER METER

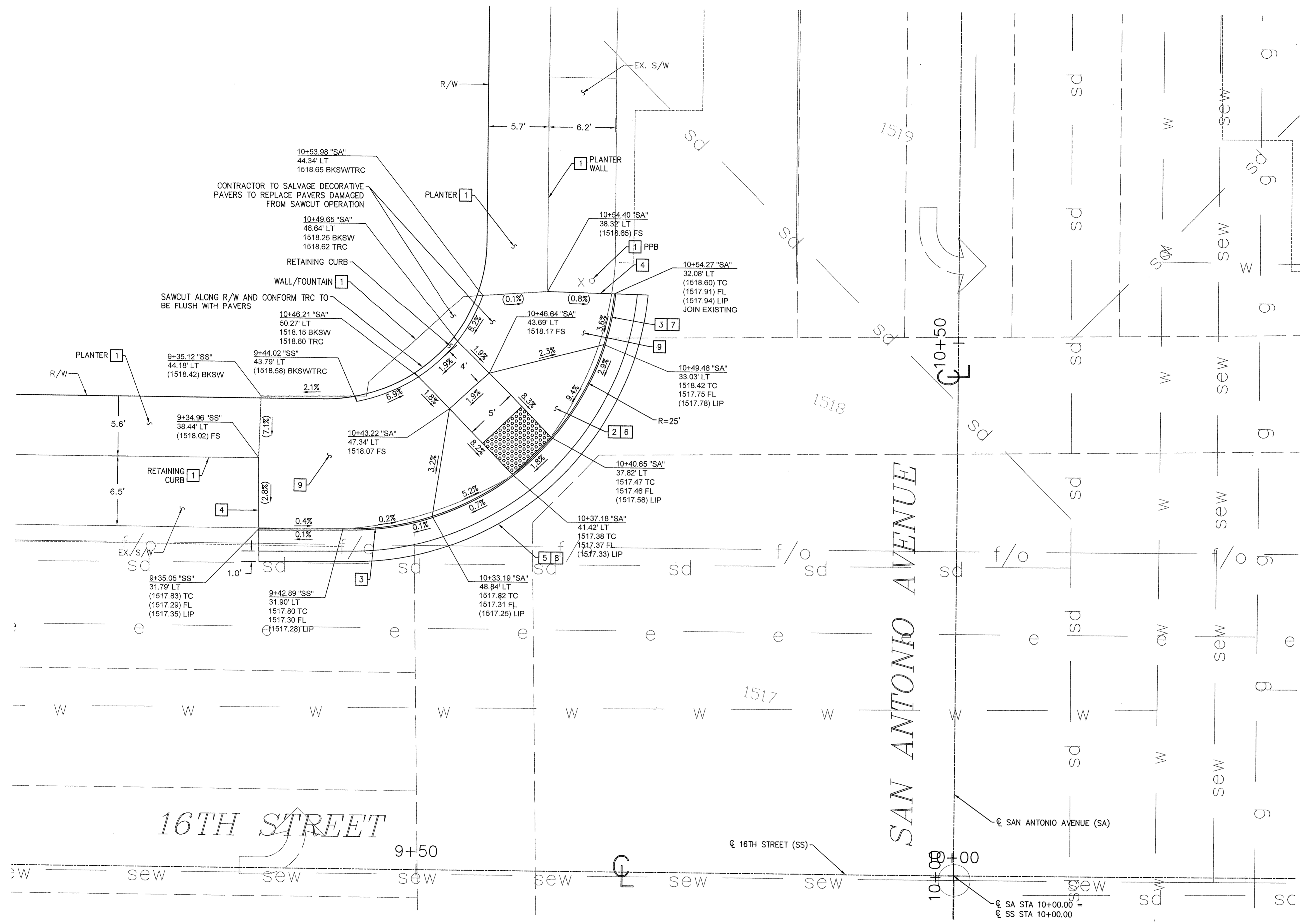
SCALE: 1" = 5'

LEGEND (THIS SHEET ONLY):

	TRUNCATED DOME
	STATION, OFFSET, AND ELEVATION 16TH STREET ALIGNMENT
	STATION, OFFSET, AND ELEVATION PER SAN ANTONIO AVENUE ALIGNMENT

CONSTRUCTION NOTES (THIS SHEET ONLY):

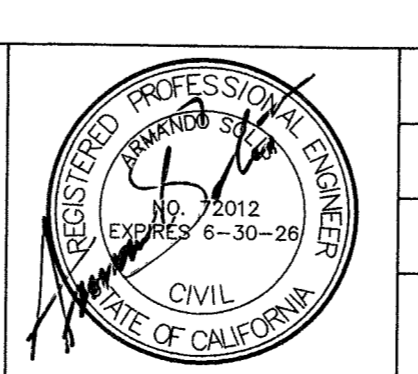
- 1 PROTECT IN PLACE (ITEM NOTED ON PLAN).
- 2 CONSTRUCT CURB RAMP CASE A TYPE 3 WITH RETAINING CURB DETAIL B AND DETECTABLE WARNING SURFACE PER SPPWC STD. PLAN NO. 111-5.
- 3 CONSTRUCT CURB & GUTTER PER SPPWC TYPE A3-6 STD. PLAN NO. 120-3.
- 4 SAWCUT EXISTING PCC & JOIN TO EXISTING.
- 5 SAWCUT & JOIN EXISTING PAVEMENT.
- 6 REMOVE & DISPOSE OF EXISTING CURB RAMP.
- 7 REMOVE & DISPOSE OF EXISTING CURB & GUTTER.
- 8 REMOVE & DISPOSE OF EXISTING AC PAVEMENT.
- 9 REMOVE & RECONSTRUCT 4" PCC SIDEWALK, SLAB & TRANSITIONS.

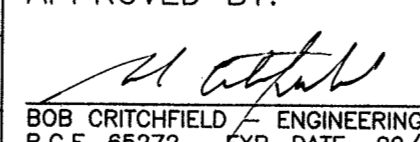



BENCH MARK NO. LOCATION
 THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE UPLAND CITY PUBLIC WORKS BENCHMARK NO. 10E-06 PAGE 51, (YEAR 1988). THE MONUMENT IS A 2" CITY OF UPLAND BRASS DISK IN NE CORNER OF PCC CATCH BASIN, 38' E/O CL SAN ANTONIO AVE AND 82' N/O 16TH ST.
 ELEV. = 1519.65'

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

PLANS PREPARED BY
ADVANTEC Consulting Engineers
 Traffic + ITS + Communications + Civil + Electrical
 21700 Copley Drive, Suite 300, Diamond Bar, CA 91765
 Tel: (909) 860-6222 Fax: (909) 860-6722 www.advantec-usa.com
 ARMANDO SOTIS, R.C.E. 72012 DATE 2/17/2015



DRAWN BY:	APPROVED BY:
DESIGNED BY:	
CHECKED BY:	BOB CRITCHFIELD - ENGINEERING MANAGER R.C.E. 65272 EXP. DATE 09/30/27
RECOMMENDED BY:	RECOMMENDED BY:
	
	ENGINEERING STAFF LAND DEVELOPMENT & TRANSPORTATION

CITY OF UPLAND		PROJECT NO. 70024
PROJECT NO. 70024 TRAFFIC SIGNAL MODIFICATION PROJECT SAN ANTONIO AVENUE AT 16TH STREET STREET IMPROVEMENT - CURB RAMP DETAIL		SHEET 2
		OF 3 SHEETS DRAWING NO. TS 70024

CONDUCTOR SCHEDULE															
CONDUCTOR	POLE #	PHASES	1	2	3	4	5	6	7	8	9				
#12 CSC SIGNAL CABLE	1	Ø2, Ø2P, Ø5/-													
	2	-/Ø8PPB													
	3	Ø8P/Ø2PPB													
	4	Ø4, Ø4P/-													
	5	-/Ø2PPB													
	6	Ø1, Ø2P/Ø4PPB													
	7	Ø1, Ø6, Ø6P/-													
	8	-/Ø4PPB													
	9	Ø4P/Ø6PPB													
	10	Ø8, Ø8P/-													
	11	-/Ø6PPB													
	12	Ø5, Ø6P/Ø8PPB													
TOTAL #12/#3 CSC			1	2	2	3	4	4	1	2	3	3	8	8	6
AWG#10 LUMINAIRE				2	2	2	2	2	2	4					
AWG#8 SERVICE															2(E)
AWG#10 GROUND OR BONDING CONDUCTOR			1	1	1	1	1	1	1	2	2				2(E)
EVP CABLE				1	1	2	1	1	2	4	4				
VIDEO DETECTION CABLE: POWER/VIDEO				1	1	2	1	1	2	4	4				
CONDUIT SIZE (INCHES)			3"	3"	4"	4"	3"	3"	4"	2-3"(E)	2-3"(E)				
CONDUIT FILL (%)			8.9%	21.8%	17.6%	24.5%	13.2%	21.8%	19.6%	42.3%	42.2%				

ALL CONDUITS AND CABLES ARE NEW UNLESS OTHERWISE NOTED. (E) = EXISTING

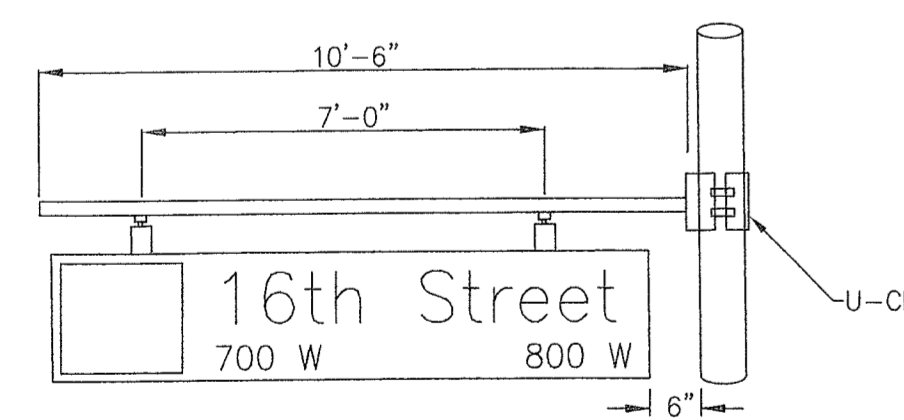
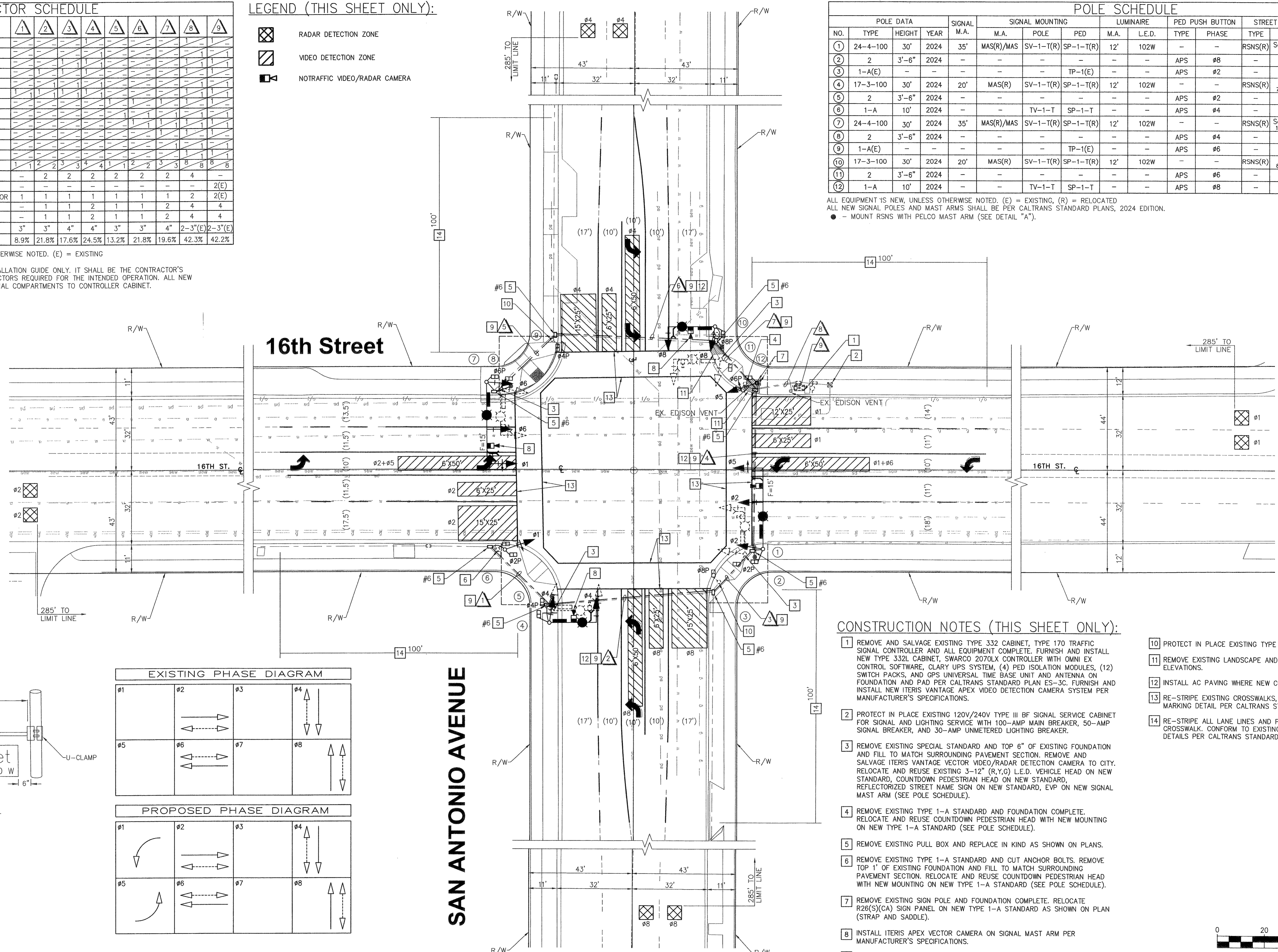
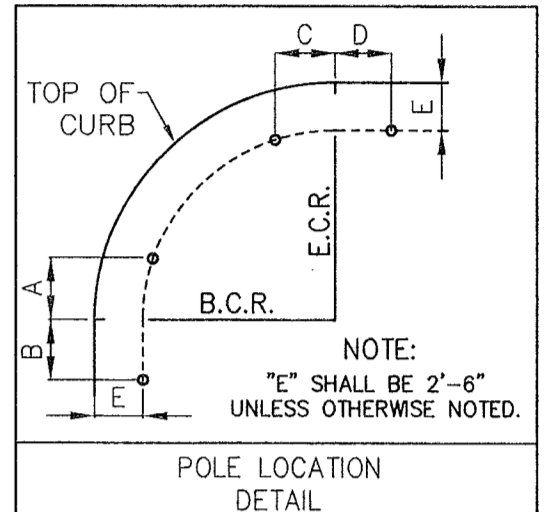
CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION. ALL NEW CONDUCTORS SHALL BE CONTINUOUS FROM TERMINAL COMPARTMENTS TO CONTROLLER CABINET.

LEGEND (THIS SHEET ONLY):

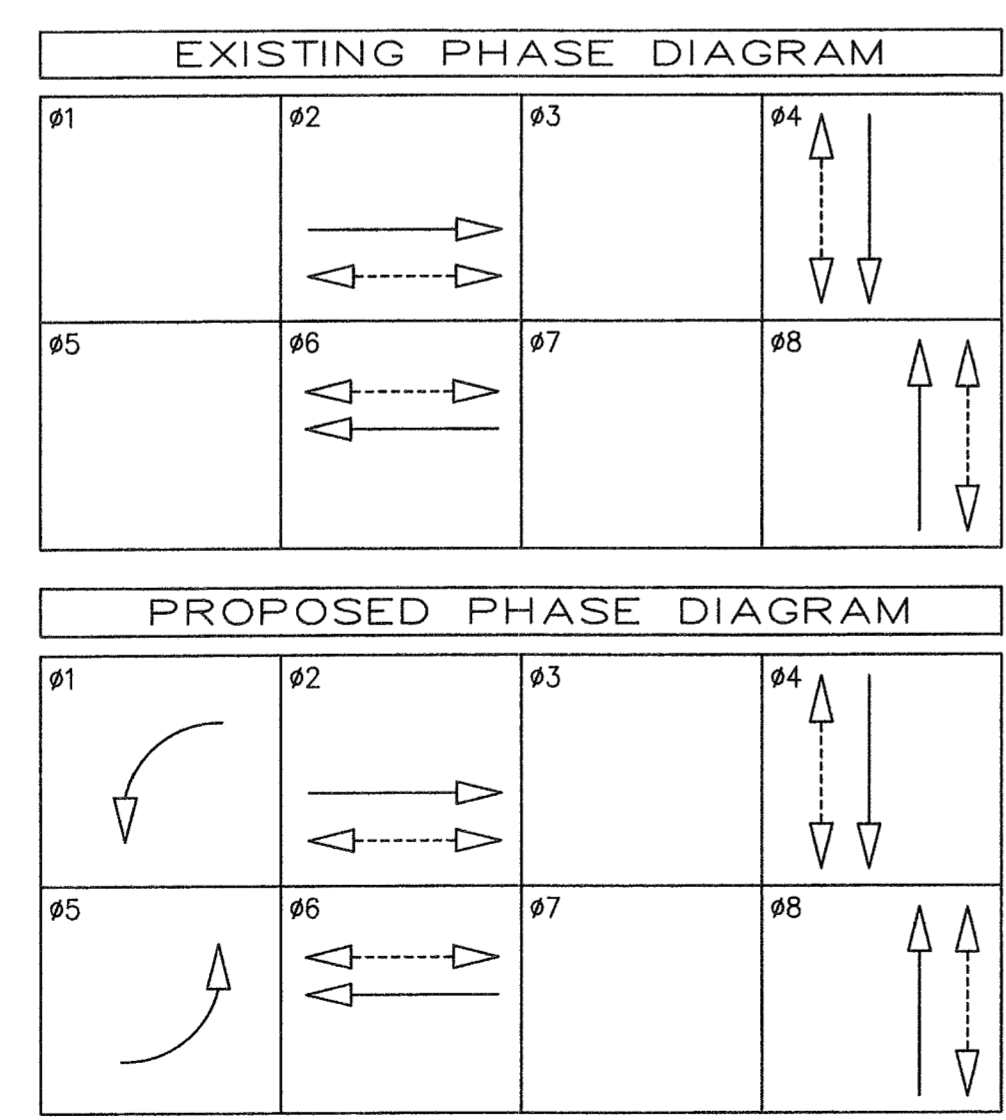
- RADAR DETECTION ZONE
- VIDEO DETECTION ZONE
- NOTRAFFIC VIDEO/RADAR CAMERA

POLE SCHEDULE																			
NO.	POLE DATA			SIGNAL M.A.	SIGNAL MOUNTING			LUMINAIRE		PED PUSH BUTTON		STREET NAME SIGN		POLE LOCATION					
	TYPE	HEIGHT	YEAR		M.A.	POLE	PED	M.A.	L.E.D.	TYPE	PHASE	TYPE	LEGEND	A	B	C	D	E	
1	24-4-100	30'	2024	35'	MAS(R)/MAS	SV-1-T(R)	SP-1-T(R)	12'	102W			RSNS(R)	San Antonio Ave 1600N 1500N			2.3'		2.5'	
2	2	3'-6"	2024							APS	Ø8					5.5'		5.0'	
3	1-A(E)						TP-1(E)			APS	Ø2					9.0'		2.5'	
4	17-3-100	30'	2024	20'	MAS(R)	SV-1-T(R)	SP-1-T(R)	12'	102W			RSNS(R)	16th Street 800W					7.5'	3.5'
5	2	3'-6"	2024							APS	Ø2							3.5'	2.5'
6	1-A	10'	2024			TV-1-T	SP-1-T			APS	Ø4					2.0'			2.5'
7	24-4-100	30'	2024	35'	MAS(R)/MAS	SV-1-T(R)	SP-1-T(R)	12'	102W			RSNS(R)	San Antonio Ave 1500N 1600N					5.5'	6.0'
8	2	3'-6"	2024							APS	Ø4							5'	3'
9	1-A(E)						TP-1(E)			APS	Ø6					1.5'			2.5'
10	17-3-100	30'	2024	20'	MAS(R)	SV-1-T(R)	SP-1-T(R)	12'	102W			RSNS(R)	16th Street 800W					4.5'	2.5'
11	2	3'-6"	2024							APS	Ø6							4.5'	5.0'
12	1-A	10'	2024			TV-1-T	SP-1-T			APS	Ø8					4.5'			4.5'

ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED. (E) = EXISTING, (R) = RELOCATED
 ALL NEW SIGNAL POLES AND MAST ARMS SHALL BE PER CALTRANS STANDARD PLANS, 2024 EDITION.
 ● - MOUNT RSNS WITH PELCO MAST ARM (SEE DETAIL "A").



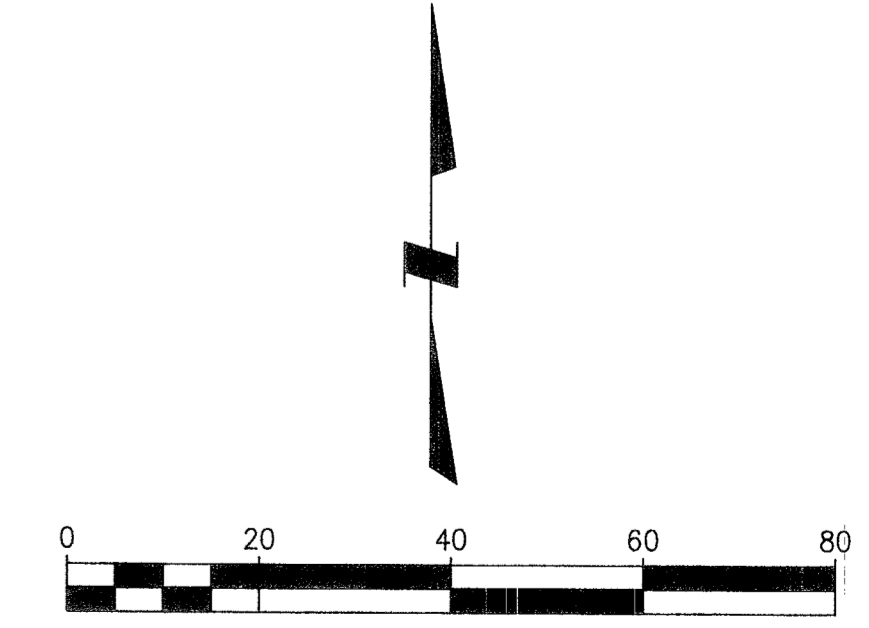
DETAIL "A"
(NO SCALE)



SAN ANTONIO AVENUE

CONSTRUCTION NOTES (THIS SHEET ONLY):

- 1 REMOVE AND SALVAGE EXISTING TYPE 332 CABINET, TYPE 170 TRAFFIC SIGNAL CONTROLLER AND ALL EQUIPMENT COMPLETE. FURNISH AND INSTALL NEW TYPE 332L CABINET, SWARCO 2070LX CONTROLLER WITH OMNI EX CONTROL SOFTWARE, CLARY UPS SYSTEM, (4) PED ISOLATION MODULES, (12) SWITCH PACKS, AND GPS UNIVERSAL TIME BASE UNIT AND ANTENNA ON FOUNDATION AND PAD PER CALTRANS STANDARD PLAN ES-3C. FURNISH AND INSTALL NEW ITERIS VANTAGE APEX VIDEO DETECTION CAMERA SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
- 2 PROTECT IN PLACE EXISTING 120V/240V TYPE III BF SIGNAL SERVICE CABINET FOR SIGNAL AND LIGHTING SERVICE WITH 100-AMP MAIN BREAKER, 50-AMP SIGNAL BREAKER, AND 30-AMP UNMETERED LIGHTING BREAKER.
- 3 REMOVE EXISTING SPECIAL STANDARD AND TOP 6" OF EXISTING FOUNDATION AND FILL TO MATCH SURROUNDING PAVEMENT SECTION. REMOVE AND SALVAGE ITERIS VANTAGE VECTOR VIDEO/RADAR DETECTION CAMERA TO CITY. RELOCATE AND REUSE EXISTING 3-12" (R,Y,G) L.E.D. VEHICLE HEAD ON NEW STANDARD, COUNTDOWN PEDESTRIAN HEAD ON NEW STANDARD, REFLECTORIZED STREET NAME SIGN ON NEW STANDARD, EVP ON NEW SIGNAL MAST ARM (SEE POLE SCHEDULE).
- 4 REMOVE EXISTING TYPE 1-A STANDARD AND FOUNDATION COMPLETE. RELOCATE AND REUSE COUNTDOWN PEDESTRIAN HEAD WITH NEW MOUNTING ON NEW TYPE 1-A STANDARD (SEE POLE SCHEDULE).
- 5 REMOVE EXISTING PULL BOX AND REPLACE IN KIND AS SHOWN ON PLANS.
- 6 REMOVE EXISTING TYPE 1-A STANDARD AND CUT ANCHOR BOLTS. REMOVE TOP 1' OF EXISTING FOUNDATION AND FILL TO MATCH SURROUNDING PAVEMENT SECTION. RELOCATE AND REUSE COUNTDOWN PEDESTRIAN HEAD WITH NEW MOUNTING ON NEW TYPE 1-A STANDARD (SEE POLE SCHEDULE).
- 7 REMOVE EXISTING SIGN POLE AND FOUNDATION COMPLETE. RELOCATE R26(S)(CA) SIGN PANEL ON NEW TYPE 1-A STANDARD AS SHOWN ON PLAN (STRAP AND SADDLE).
- 8 INSTALL ITERIS APEX VECTOR CAMERA ON SIGNAL MAST ARM PER MANUFACTURER'S SPECIFICATIONS.
- 9 INSTALL TYPE 3 SCHEDULE 80 PVC CONDUIT AT MINIMUM OF 18" PER OPEN TRENCH METHOD.
- 10 PROTECT IN PLACE EXISTING TYPE 1-A STANDARD.
- 11 REMOVE EXISTING LANDSCAPE AND CONSTRUCT PCC SIDEWALK TO EXISTING ELEVATIONS.
- 12 INSTALL AC PAVING WHERE NEW CONDUIT IS INSTALLED IN THE ROADWAY.
- 13 RE-STRIPE EXISTING CROSSWALKS, CONFORM TO EXISTING PAVEMENT MARKING DETAIL PER CALTRANS STANDARD PLAN.
- 14 RE-STRIPE ALL LANE LINES AND PAVEMENT MARKINGS FROM BACK OF CROSSWALK. CONFORM TO EXISTING STRIPING AND PAVEMENT MARKING DETAILS PER CALTRANS STANDARD PLANS.



BENCH MARK NO. LOCATION	REVISIONS	PLANS PREPARED BY ADVANTEC Consulting Engineers Traffic + ITS + Communications + Civil + Electrical 21700 Copley Drive, Suite 300, Diamond Bar, CA 91765 Tel: (909) 860-6222 Fax: (909) 860-6722 www.advantec-usa.com	DRAWN BY: DESIGNED BY: CHECKED BY: RECOMMENDED BY:	APPROVED BY: <i>Bob Critchfield</i> BOB CRITCHFIELD - ENGINEERING MANAGER R.C.E. 65272 EXP. DATE 09/30/27	RECOMMENDED BY: <i>Harry Phw</i> HARRY PHW LAND DEVELOPMENT & TRANSPORTATION	CITY OF UPLAND PROJECT NO. 70024 TRAFFIC SIGNAL MODIFICATION PROJECT SAN ANTONIO AVENUE AT 16TH STREET TRAFFIC SIGNAL MODIFICATION PLAN	PROJECT NO. 70024 SHEET 3 OF 3 SHEETS DRAWING NO. TS 70024
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