

CITY OF ALBANY

ALAMEDA COUNTY, CALIFORNIA

PLANS FOR THE CONSTRUCTION OF

BUCHANAN/JACKSON TRAFFIC SIGNAL AND INTERSECTION SAFETY IMPROVEMENTS

CITY OF ALBANY CONTRACT NO. 10-22
CALTRANS PROJECT NO. SR2SL-5178(009)

PROJECT:
BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR
CITY OF ALBANY, CALIFORNIA
COMMUNITY DEVELOPMENT DEPARTMENT
1000 SAN PABLO AVENUE
ALBANY, CALIFORNIA 94706
(510) 528-5760



DESIGNER:

AECOM

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OAKLAND, CALIFORNIA 94612
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REGISTRATION:

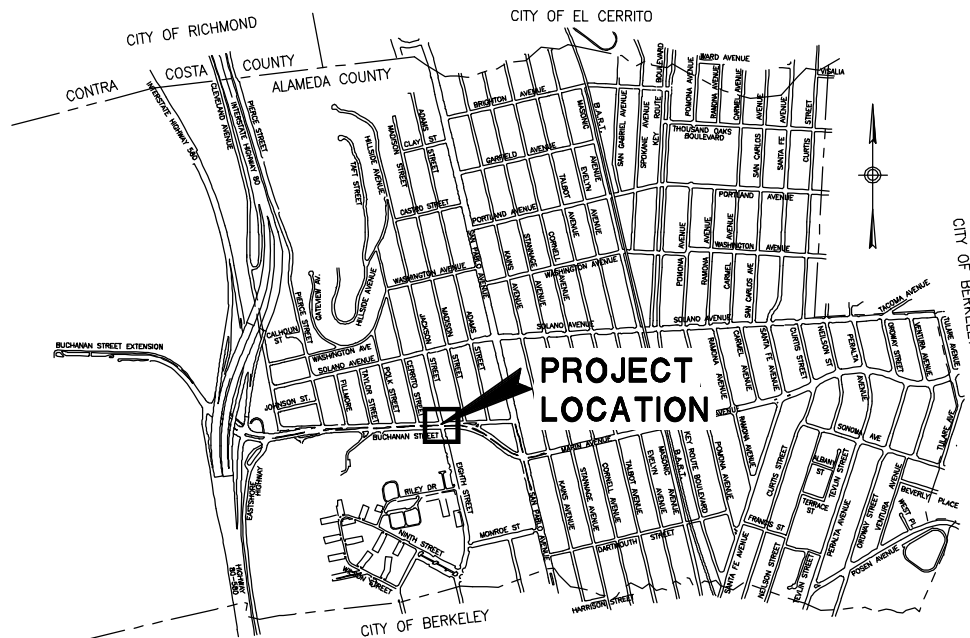


SHEET INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
1	G1.01	TITLE SHEET AND LEGEND
2	G1.02	GENERAL NOTES AND ABBREVIATIONS
3	C1.01	EXISTING UTILITY AND DEMOLITION PLAN
4	C1.02	CIVIL LAYOUT AND IMPROVEMENT PLAN
5	C1.03	CONSTRUCTION DETAILS
6	C1.04	CONSTRUCTION DETAILS
7	C1.05	SIGNING AND STRIPING PLAN
8	E1.01	TRAFFIC SIGNAL PLAN
9	E1.02	TRAFFIC SIGNAL SCHEDULE
10	E1.03	SIGN AND SIGNAL DETAILS

GENERAL LEGEND

EXISTING	NEW	DESCRIPTION
		UTILITY POLE
		ELECTROLIER/LUMINAIRE
		FIRE HYDRANT
		ROADSIDE SIGN
		WATER VALVE
		GAS VALVE
		DRAINAGE CATCH BASIN
		SANITARY SEWER LINE
		WATER LINE
		STORM DRAIN LINE
		TRAFFIC SIGNAL CONDUIT
		UNDERGROUND ELECTRIC LINE
		OVERHEAD UTILITY LINE
		GAS LINE
		DIAMETER
		FENCE
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		STORM DRAIN INLET
		MONUMENT LINE



VICINITY MAP

NOT TO SCALE

STANDARD PLANS WITH SPECIAL PROVISIONS BY CITY OF ALBANY

ST 1
ST 5
ST 8

CALTRANS STANDARD PLANS (MAY 2006)

ES-1A	ES-2D	ES-4B	ES-7B	ES-9A
ES-1B	ES-3A	ES-4C	ES-7E	ES-9B
ES-1C	ES-3B	ES-4D	ES-7F	
ES-2A	ES-3C	ES-4E	ES-7N	
ES-2C	ES-4A	ES-5C	ES-8	
A20A	A20D	A24C		
A20B	A24A	A88A		
A20C				

BASIS OF BEARINGS

THE BASIS OF BEARINGS HEREON IS BASED ON THE BEARING BETWEEN THE NGS MONUMENT DE8482, LOCATED 36.75 FEET WEST OF THE CENTERLINE OF GRIZZLY PEAK ROAD AND 35.80 FEET NORTH OF THE CENTERLINE OF SPRUCE STREET; AND THE CITY OF ALBANY CONTROL POINT NUMBER 423, A CUT CROSS IN THE SOUTHERLY END OF THE MEDIAN ISLAND ON SAN PABLO AVENUE, APPROXIMATELY 84.4 FEET NORTH OF THE INTERSECTION OF MARIN AVENUE AND SAN PABLO AVENUE, BEING S52°57'26"E (NA083).

HORIZONTAL DATUM

ALL COORDINATES AND DISTANCES SHOWN HEREON ARE BASED ON NORTH AMERICAN DATUM 1983, ZONE III, (CORS96) 2002.00 EPOCH, AND ARE GIVEN IN U.S. SURVEY FEET. DISTANCES SHOWN HEREON ARE AT GROUND LEVEL.

VERTICAL DATUM

ELEVATIONS SHOWN HEREON ARE BASED UPON CITY OF ALBANY VERTICAL CONTROL POINT NUMBER 3017 (ELEV 25.63').

REV	DATE	DESCRIPTION
-	12/03/10	REVISED 100% DESIGN
-	10/06/10	REVISED 100% DESIGN
-	04/15/10	100% DESIGN

PROJECT NO:	60051218
DRAWN BY:	P. ARIGO
CHECKED BY:	G. RUBENDALL
SCALE:	AS NOTED
DRAWING DATE:	12/03/10

KEY PLAN:

DRAWING TITLE:

BUCHANAN/JACKSON
Title Sheet
and Legend

DRAWING NUMBER:

G1.01

SHEET 1 OF 10

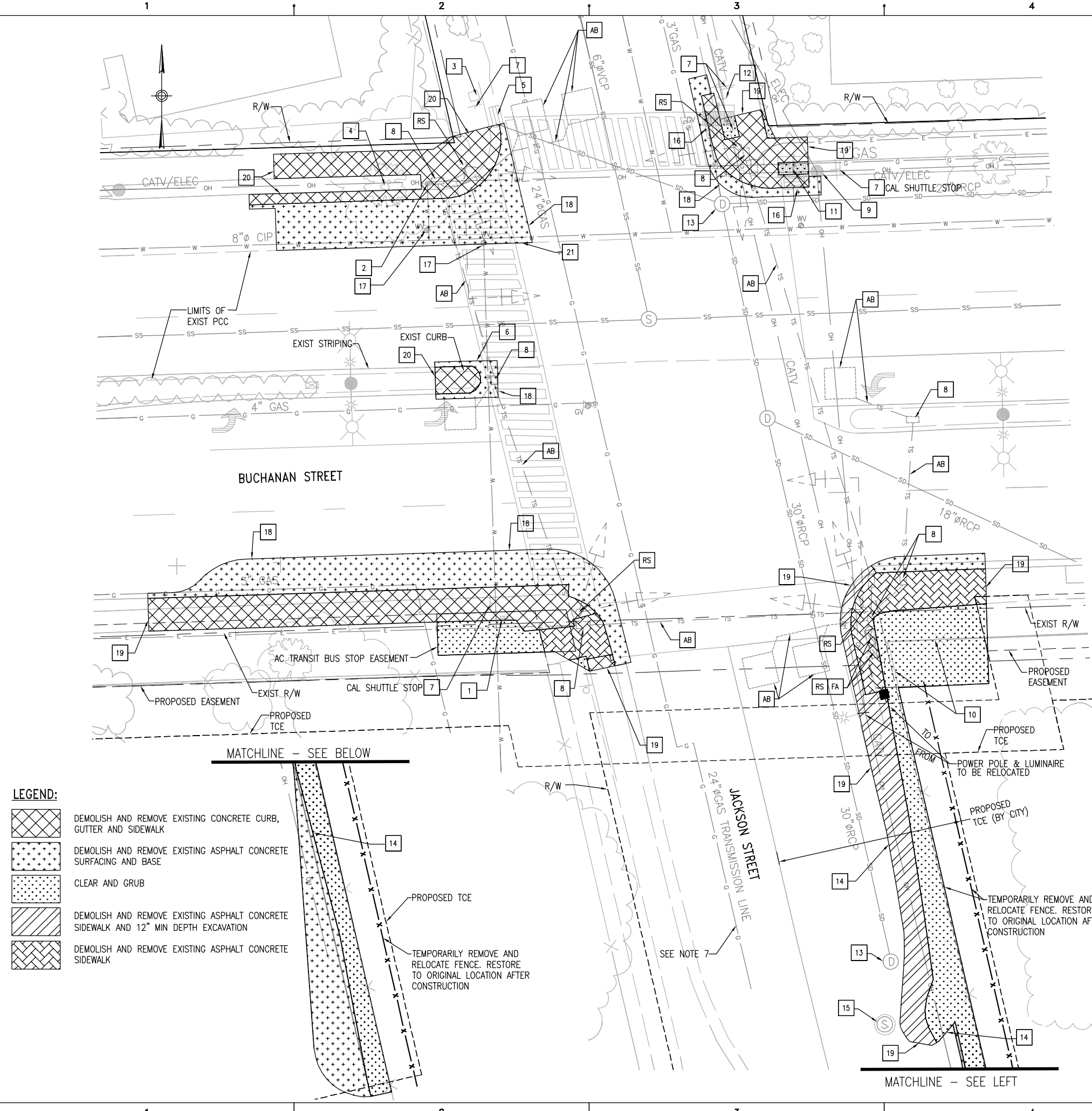
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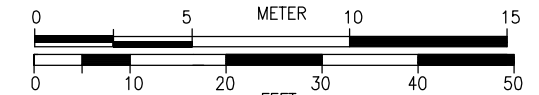


DEMOLITION NOTES:

- 1 ADJUST EXISTING UTILITY APPURTENANCE TO FINISH GRADE
- 2 PROTECT IN PLACE EXISTING FIRE HYDRANT
- 3 PROTECT IN PLACE EXISTING MAILBOX
- 4 PROTECT IN PLACE EXISTING TREE
- 5 PROTECT IN PLACE EXISTING STORM DRAIN CATCH BASIN
- 6 SAWCUT EXISTING CONCRETE PAVEMENT
- 7 PROTECT IN PLACE EXISTING SIGN
- 8 REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL BOX
- 9 PROTECT IN PLACE EXISTING UTILITY POLE
- 10 REMOVE FENCE (PORTION)
- 11 REMOVE EXISTING PEDESTRIAN BARRICADE AND SIGN. DISPOSE OF R-49 SIGN AND RETAIN BARRICADE FOR REINSTALLATION (SEE SHEET C1.05 FOR DETAILS)
- 12 PROTECT EXISTING GUY WIRE IN PLACE
- 13 PROTECT EXISTING STORM DRAIN MANHOLE
- 14 DEMOLISH EXISTING AC DIKE
- 15 PROTECT EXISTING SANITARY SEWER MANHOLE
- 16 REMOVE EXISTING STORM DRAIN INLET AND REPLACE WITH NEW. EXTEND AND CONNECT NEW INLET PIPES TO EXISTING STORM DRAIN SYSTEM (SEE SHEET C1.03 FOR NEW INLET LOCATION)
- 17 PROTECT EXISTING WATER VALVE. WATER VALVE RIM TO BE ADJUSTED BY EBMUD
- 18 SAWCUT EXISTING AC PAVEMENT
- 19 SAWCUT EXISTING AC SIDEWALK
- 20 SAWCUT EXISTING PCC MEDIAN OR SIDEWALK
- 21 SAWCUT AT EXISTING JOINT
- AB ABANDON EXISTING CONDUIT AND REMOVE CONDUCTORS
- RS REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL EQUIPMENT
- FA DEMOLISH AND REMOVE FOUNDATION

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION OF SURFACE AND SUBSURFACE UTILITIES IN THE FIELD PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
2. REFER TO SPECIFICATIONS FOR REQUIREMENTS OF DEMOLITION AND UTILITY ABANDONMENT.
3. CONTRACTOR SHALL NOTIFY AND COORDINATE WORK WITH UTILITY FACILITY OWNERS.
4. EXISTING TRAFFIC SIGNAL SYSTEM SHALL REMAIN OPERATIONAL UNTIL NEW TRAFFIC SIGNAL IS COMPLETELY INSTALLED AND READY FOR ACTIVATION.
5. ITEMS IDENTIFIED TO BE SALVAGED SHALL BE DELIVERED TO THE CITY OF ALBANY MAINTENANCE CENTER AT 548 CLEVELAND AVENUE.
6. REFER TO SHEET C1.02, C1.03 AND C1.04 FOR DETAILS OF NEW CONSTRUCTION IN AREAS TO BE DEMOLISHED.
7. EXTRA CARE MUST BE EXERCISED TO AVOID ANY DAMAGE TO (E) 24" GAS TRANSMISSION LINE WHEN WORKING NEAR AND/OR AROUND IT.



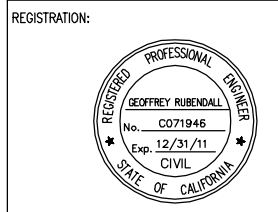
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BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
 CITY OF ALBANY CONTRACT NO. C10-22

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KEY PLAN:

DRAWING TITLE:
BUCHANAN/JACKSON
Existing Utility
and Demolition
Plan

DRAWING NUMBER:
C1.01

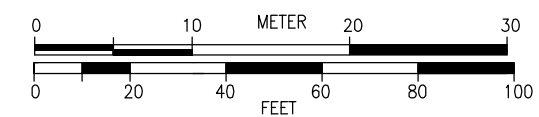
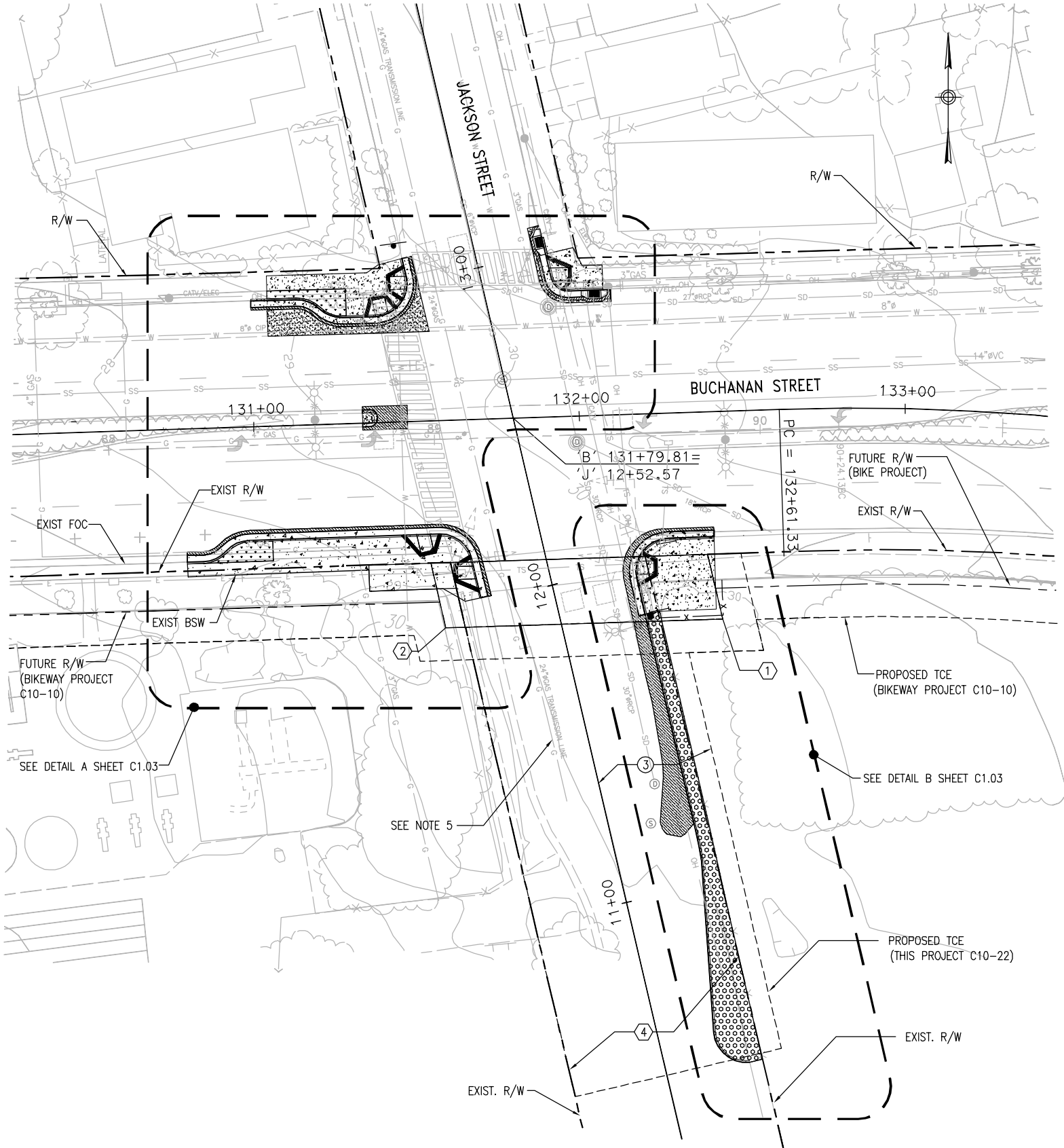
NOTES:

1. ALL DIMENSIONS AND DATA ARE REFERENCED TO FACE OF CURB, UNLESS OTHERWISE NOTED.
2. ALL PAVEMENT SAWCUTS AT CONFORM LOCATIONS SHALL BE VERTICAL.
3. MANHOLES, FRAMES, COVERS, VALVE BOXES AND OTHER UTILITY APPURTENANCES WITHIN THE LIMITS OF WORK SHALL BE RESET TO FINISHED GRADE.
4. SEE SHEET C1.05 FOR SIGNING AND STRIPING.
5. EXTRA CARE MUST BE EXERCISED TO AVOID ANY DAMAGE TO (E) 24" GAS TRANSMISSION LINE WHEN WORKING NEAR AND/OR AROUND IT.

LEGEND:

- FULL DEPTH TYPE A ASPHALT CONCRETE PATCH (12" MINIMUM DEPTH)
- 6" TYPE A ASPHALT CONCRETE BACKFILL
- PCC CURB, GUTTER AND SIDEWALK
- LANDSCAPE AREA
- AC GRIND
- TRAFFIC SIGNAL POLE LOCATION, SEE SHEETS C1.03, E1.01 AND E1.02 FOR DETAILS
- CURVE NUMBER, SEE SHEET C1.03 FOR DETAILS
- RIGHT-OF-WAY IDENTIFICATION NUMBER
- TEMPORARY CONSTRUCTION EASEMENT (TCE)

ROW LOG				
No.	OWNER	TYPE	DATE RECEIVED	RECORD
①	UNIVERSITY OF CALIFORNIA (UC)	DEDICATION		
②	ALBANY UNIFIED SCHOOL DISTRICT (AUSD)	DEDICATION		
③	UNIVERSITY OF CALIFORNIA (UC)	TEMPORARY CONSTRUCTION EASEMENT (TCE)		
④	UNIVERSITY OF CALIFORNIA (UC)	PRIVATE STREET		



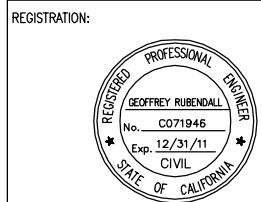
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BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
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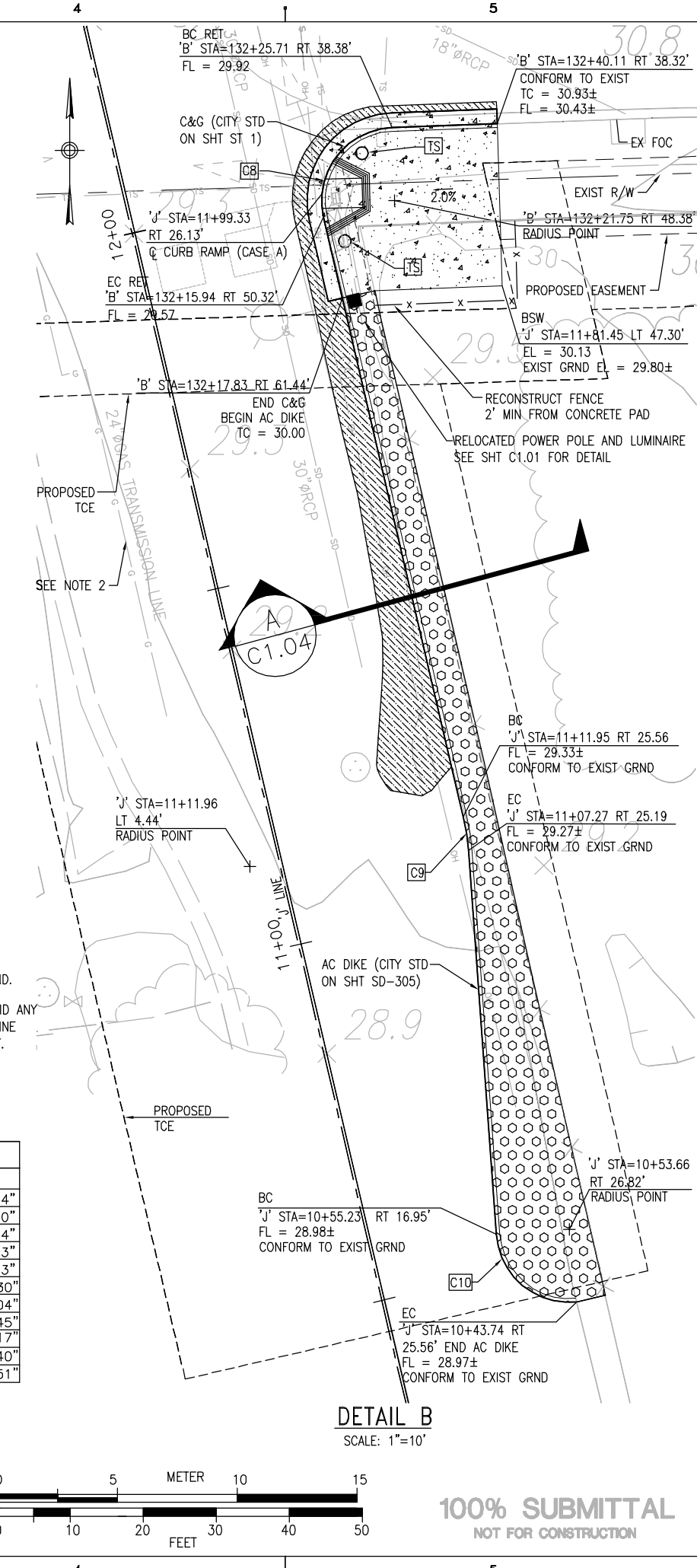
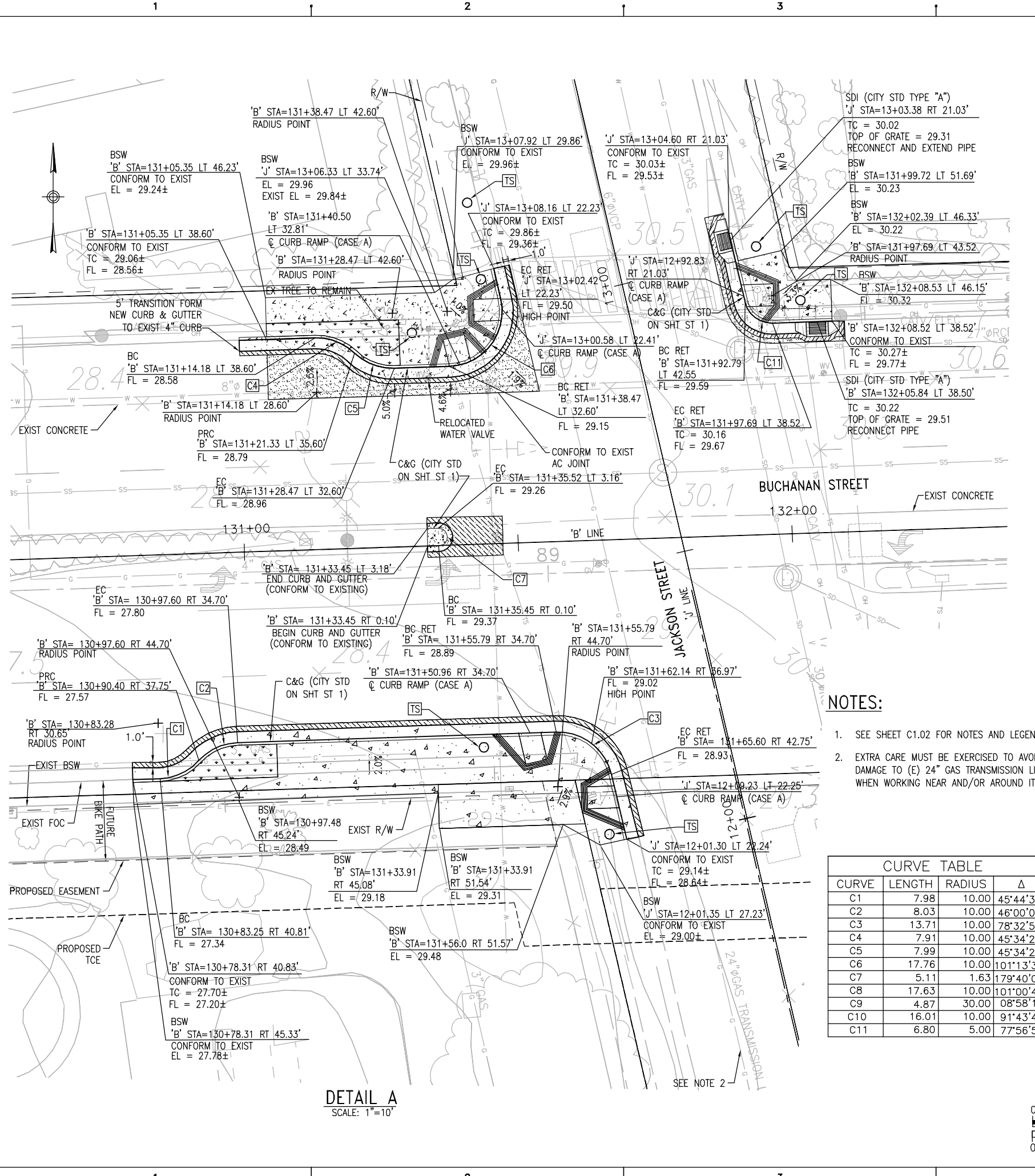
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CHECKED BY: G. RUBENDALL
SCALE: 1"=20'
DRAWING DATE: 10/13/10

DRAWING TITLE:
BUCHANAN/JACKSON
Civil Layout and
Improvement
Plan

DRAWING NUMBER:
C1.02

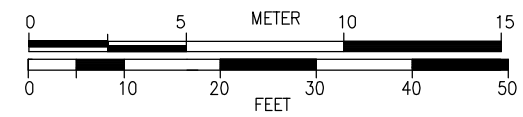
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- NOTES:**
- SEE SHEET C1.02 FOR NOTES AND LEGEND.
 - EXTRA CARE MUST BE EXERCISED TO AVOID ANY DAMAGE TO (E) 24" GAS TRANSMISSION LINE WHEN WORKING NEAR AND/OR AROUND IT.

CURVE TABLE			
CURVE	LENGTH	RADIUS	Δ
C1	7.98	10.00	45°44'34"
C2	8.03	10.00	46°00'00"
C3	13.71	10.00	78°32'54"
C4	7.91	10.00	45°34'23"
C5	7.99	10.00	45°34'23"
C6	17.76	10.00	101°13'30"
C7	5.11	1.63	179°40'04"
C8	17.63	10.00	101°00'45"
C9	4.87	30.00	08°58'17"
C10	16.01	10.00	91°43'40"
C11	6.80	5.00	77°56'51"



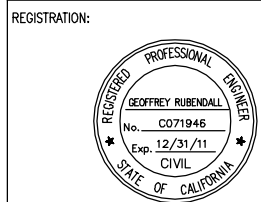
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**BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS**
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PROJECT NO: 60051218
DRAWN BY: P. ARIGO
CHECKED BY: G. RUBENDALL
SCALE: 1"=10'
DRAWING DATE: 12/03/2010

KEY PLAN:

DRAWING TITLE:
**BUCHANAN/JACKSON
Construction
Details**

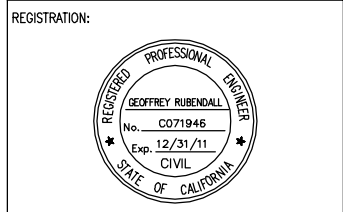
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PROJECT:
BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
 CITY OF ALBANY CONTRACT NO. C10-22

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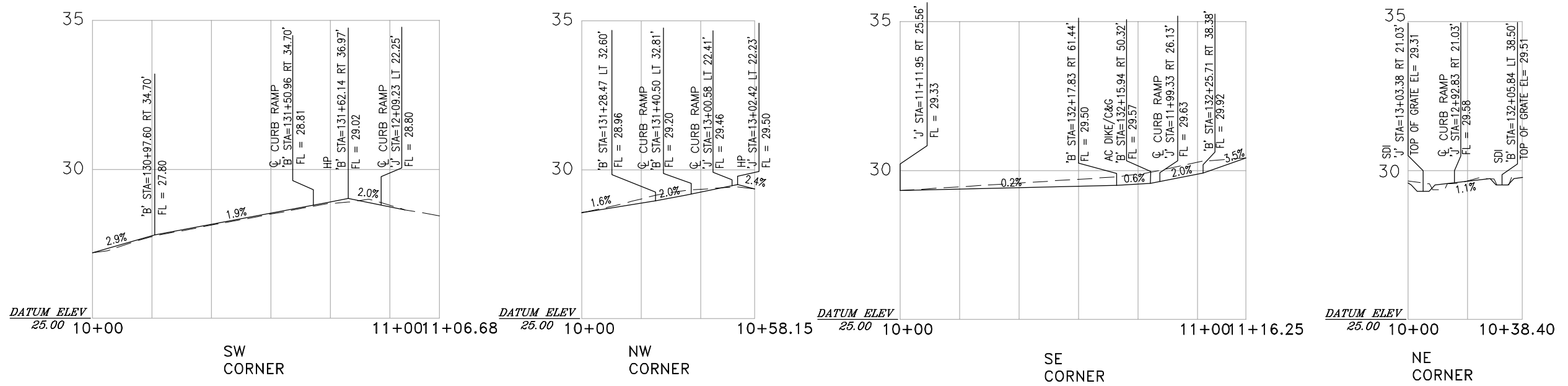
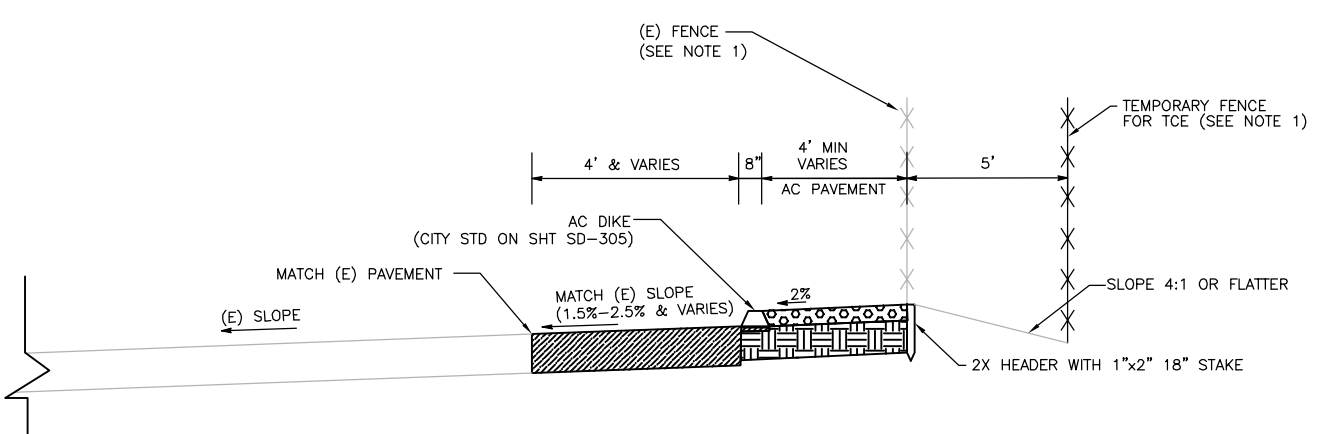
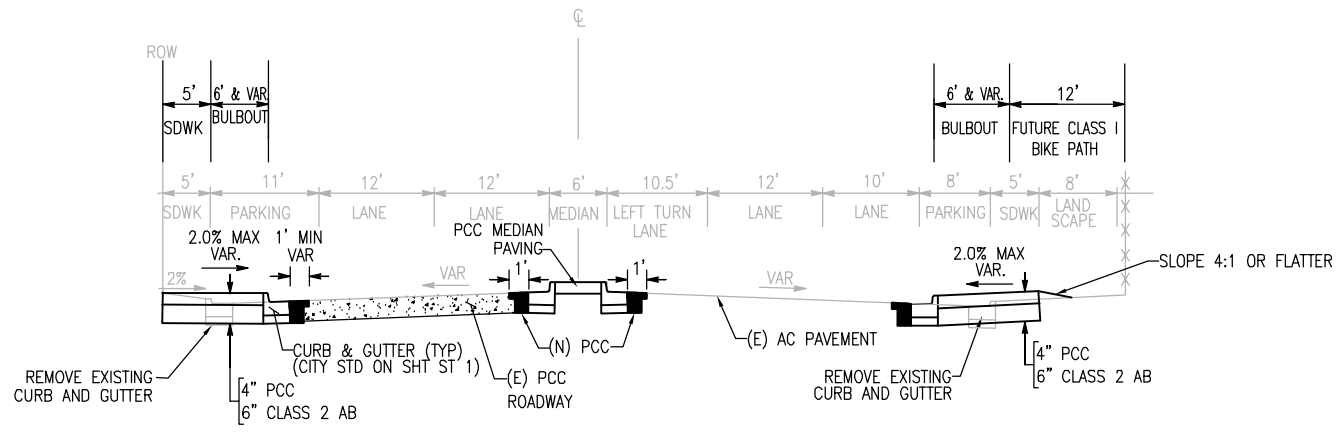
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-	04/15/10	100% DESIGN

PROJECT NO: 60051218
 DRAWN BY: P. ARIGO
 CHECKED BY: G. RUBENDALL
 SCALE: AS NOTED
 DRAWING DATE: 12/03/2010

DRAWING TITLE:
BUCHANAN/JACKSON
Construction
Details

DRAWING NUMBER:
C1.04

NOTE:
 1. (E) FENCE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION. INSTALL (N) FENCE AT ORIGINAL LOCATION AFTER CONSTRUCTION.



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GENERAL NOTES:

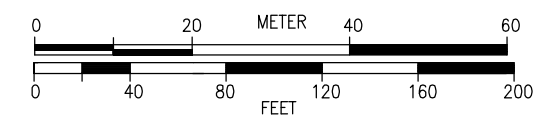
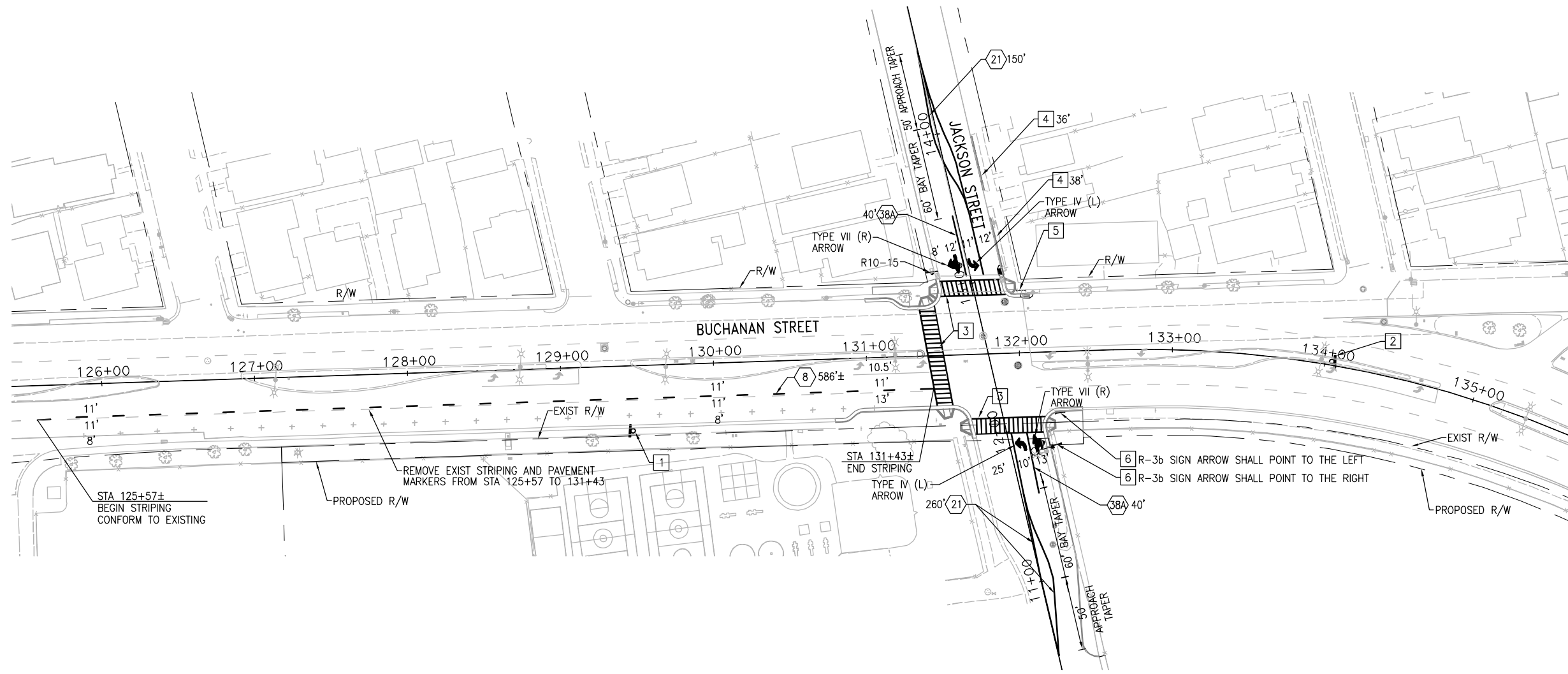
1. ALL STRIPING AND PAVEMENT MARKING SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
2. REMOVE EXISTING STRIPING WHERE IN CONFLICT WITH PROPOSED STRIPING.
3. LOCATION AND POSITION OF SIGNS SHALL BE MARKED, VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
4. STRIPING DETAILS AND PAVEMENT MARKING DIMENSIONS SHALL BE PER CALTRANS STANDARD PLANS A20A-A20D AND A24A-A24E.
5. THIS PLAN ACCURATE FOR SIGNING AND STRIPING ONLY.
6. RADAR SIGN PANEL DIMENSIONS AND LED TEXT DISPLAY SIZE AND COLOR VARIES, DEPENDING ON MANUFACTURER.
7. VEHICLE SPEED FEEDBACK SIGN PANEL AND ITS RADAR DETECTION SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION FOR MAXIMUM DETECTION.
8. ADJUST SPEED FEEDBACK SIGN SOLAR PANEL TO FACE SOUTH AND TILT 55 DEGREES ZENITH OR AS DIRECTED BY THE ENGINEER. HEIGHT OF SOLAR PANEL SHALL BE AS RECOMMENDED BY MANUFACTURER OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION NOTES:

- 1 FURNISH AND INSTALL SOLAR POWERED LED VEHICLE SPEED FEEDBACK SIGN PER DETAIL ON SHEET E1.03 AT STATION 129+46. INSTALL R2-1(25) ON SPEED FEEDBACK SIGN PER DETAIL ON E1.03.
- 2 FURNISH AND INSTALL SOLAR POWERED LED VEHICLE SPEED FEEDBACK SIGN PER DETAIL ON SHEET E1.03 AT STATION 134+15. INSTALL R2-1(25) ON SPEED FEEDBACK SIGN PER DETAIL ON E1.03.
- 3 INSTALL 11' O.C. YELLOW CROSSWALK. OUTER EDGES SHALL BE 12", TRANSVERSE MARKINGS SHALL BE 12" SPACED 3' O.C.
- 4 INSTALL RED CURB (DISTANCE SHOWN ON PLANS).
- 5 REINSTALL EXIST. PEDESTRIAN BARRICADE. INSTALL R9-3a AND R9-3b PER CA MUTCD. ARROW ON R9-3b SHALL POINT RIGHT.
- 6 INSTALL PEDESTRIAN BARRICADE PER CALTRANS STANDARD PLAN ES-7P. INSTALL R9-3a AND R9-3b ON BARRICADE IN PLACE OF R49 PER CA MUTCD.

LEGEND:

- SOLAR VEHICLE SPEED FEEDBACK SIGN
- ROADSIDE SIGN ON METAL POLE
- CALTRANS PAVEMENT DELINEATION DETAIL NUMBER PER CALTRANS STANDARD PLANS A20A-A20D.



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PROJECT NO:	60051218
DRAWN BY:	P. ARIGO
CHECKED BY:	G. RUBENDALL
SCALE:	1"=40'
DRAWING DATE:	12/03/2010

KEY PLAN:

DRAWING TITLE:
BUCHANAN/JACKSON
Signing and
Striping Plan

DRAWING NUMBER:

C1.05

SHEET 7 OF 10

REV

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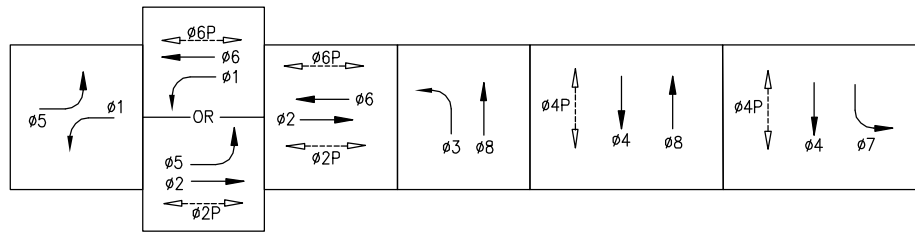
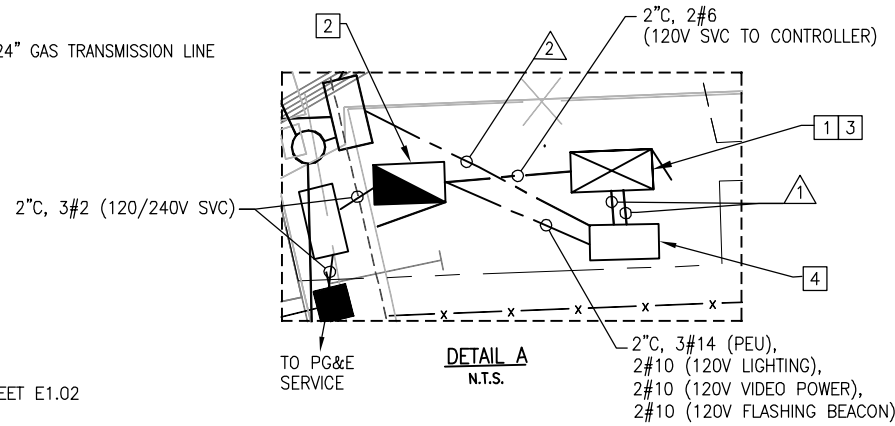
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GENERAL NOTES:

- FOR GENERAL NOTES, SEE SHEET G1.02.
- ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY OF ALAMEDA STANDARD PLANS, THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, MAY 2006, AND THE PROJECT SPECIAL PROVISIONS.
- LOCATIONS OF POLES, PULL BOXES, CONTROLLER AND SERVICE CABINET ARE SCHEMATIC UNLESS NOTED OTHERWISE. BEFORE BEGINNING ANY CONSTRUCTION OPERATION, THE CONTRACTOR SHALL CHECK FOR CONFLICTS WITH UNDERGROUND AND OVERHEAD UTILITIES EQUIPMENT. ANY CONFLICTING UTILITIES OR POLES MUST BE RELOCATED, AND THE NEW LOCATION SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES AND AFFECTED AGENCIES FOR VERIFICATION OF LOCATION AND DEPTHS OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO DOING ANY WORK.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CERTIFY THAT ALL WORK WAS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. VARIATIONS SHALL BE DECLARED AND PRESENTED TO THE ENGINEER ON MARKED-UP DRAWINGS UPON COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL NOT BE LIMITED TO NORMAL WORKING HOURS. WORK SHALL NOT BEGIN UNTIL ADEQUATE TEMPORARY BARRICADES, BARRIERS, FENCES, WARNING AND CONTROL DEVICES ARE IN PLACE AS REQUIRED BY THE CONTRACT OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL THE WORK DONE BY HIS/HER SUBCONTRACTORS, INCLUDING TRAFFIC CONTROL WORK, CONCRETE CONSTRUCTION WORK, AND OTHERS.
- ALL EXISTING TRAFFIC SIGNAL SYSTEMS SHALL REMAIN FULLY OPERATIONAL UNTIL NEW SYSTEM IS INSTALLED. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY TRAFFIC CONTROL IF TRAFFIC SIGNAL OPERATION IS INTERRUPTED DURING CONSTRUCTION.
- ALL EXISTING STREET LIGHTS SHALL REMAIN IN OPERATION UNTIL FINAL CONNECTIONS ARE MADE. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STREET LIGHTING.
- THE CONTRACTOR SHALL REPAIR/REPLACE ALL LANDSCAPING, CURBS, ETC.. DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL VEHICLE SIGNAL HEADS SHALL BE 12" LED MODULES UNLESS NOTED OTHERWISE.
- ALL PULL BOXES SHALL BE NO. 5 UNLESS NOTED OTHERWISE.
- ALL VIDEO DETECTION ZONES SHALL BE 50'X6' UNLESS NOTED OTHERWISE.
- ALL SIGNS SHALL BE OF HIGH INTENSITY SHEETING.
- EXTRA CARE MUST BE EXERCISED TO AVOID ANY DAMAGE TO (E) 24" GAS TRANSMISSION LINE WHEN WORKING NEAR AND/OR AROUND IT.

LEGEND:

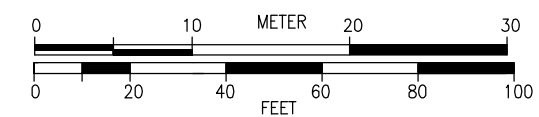
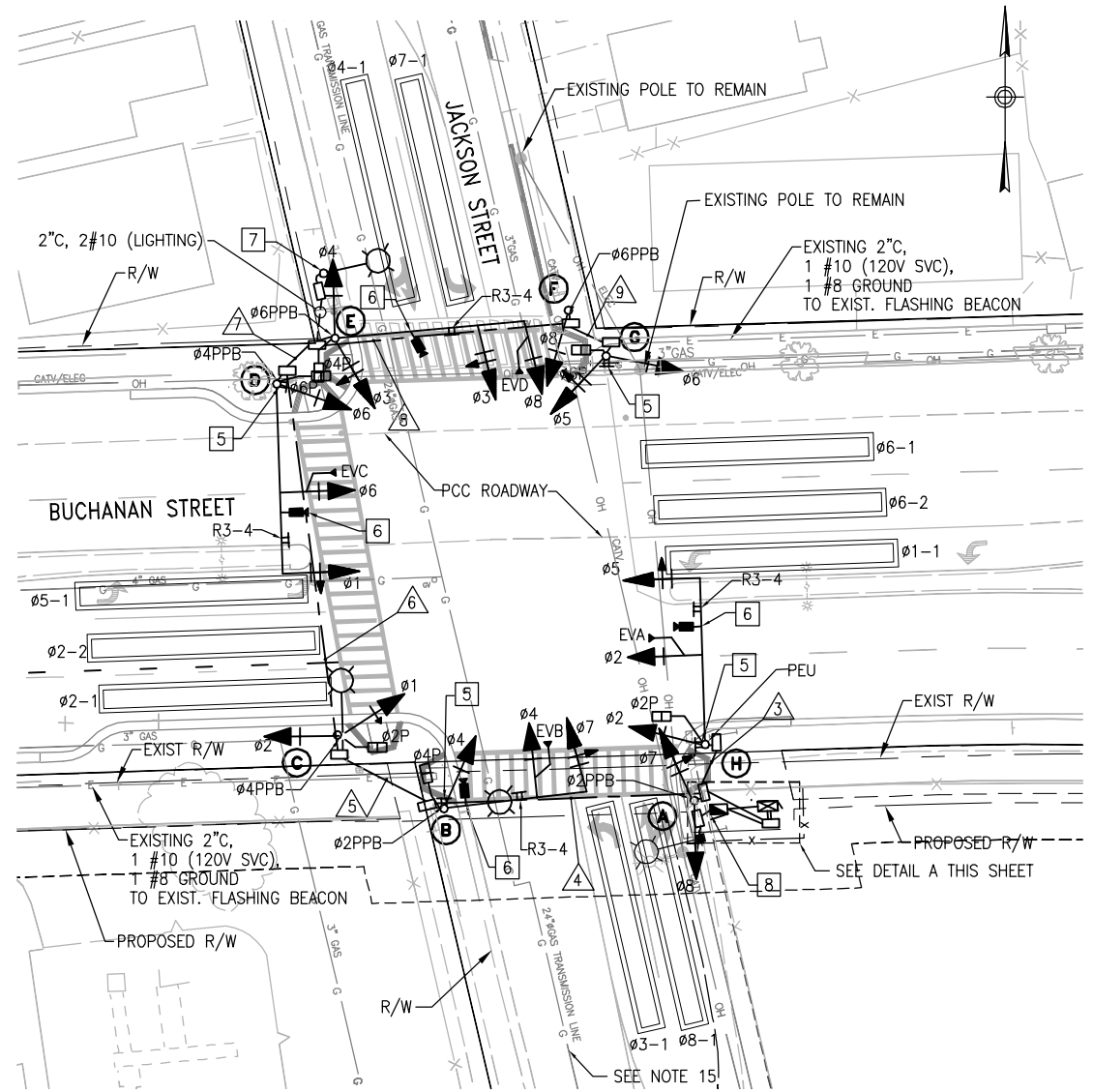
- TT SIGN MOUNTED ON SIGNAL MAST ARM OR POLE
- VIDEO DETECTION ZONE
- VIDEO DETECTION CAMERA
- EMERGENCY VEHICLE DETECTOR UNIT
- CONDUIT RUNS SHOWN ON SHEET E1.02
- POLE AND EQUIPMENT SCHEDULES SHOWN ON SHEET E1.02



- EVP:**
- EVA = 02
 - EVB = 04
 - EVC = 06
 - EVD = 08

CONSTRUCTION NOTES:

- FURNISH AND INSTALL TYPE 2070 CONTROLLER ASSEMBLY AND CALTRANS TYPE 332 CABINET WITH NAZTEC INC. SOFTWARE. INSTALL FOUNDATION FOR MODEL 332 CABINET PER CALTRANS STANDARD PLANS (MAY 2006) ES-3C.
- FURNISH AND INSTALL CALTRANS TYPE III-AF 120/240V METERED SERVICE ENCLOSURE AND FOUNDATION PER CALTRANS STANDARD PLANS (MAY 2006) ES-2D.
- FURNISH AND INSTALL EMERGENCY VEHICLE DISCRIMINATOR UNITS IN CONTROLLER ASSEMBLY.
- INSTALL NUMBER 6 PULL BOX WITH DOUBLE 6" EXTENSIONS.
- INSTALL STREET NAME SIGN (SNS) ON POLE.
- INSTALL VIDEO CAMERA ON SIGNAL MAST ARM WITH 5' EXTENSION PER DETAIL ON SHEET E1.03 AS DIRECTED BY ENGINEER.
- INSTALL TYPE 15 LUMINAIRE WITH 310W HPS PER CALTRANS STANDARD PLANS (MAY 2006) ES-6A.
- INSTALL NEW METER AND CONNECT SIGNAL SERVICE TO EXISTING PG&E SYSTEM.

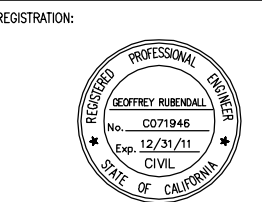


PROJECT:
BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
 CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR
 CITY OF ALBANY, CALIFORNIA
 COMMUNITY DEVELOPMENT DEPARTMENT
 1000 SAN PABLO AVENUE
 ALBANY, CALIFORNIA 94706
 (510) 528-5760



DESIGNER:
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REV	DATE	DESCRIPTION
-	12/03/10	REVISED 100% DESIGN
-	10/06/10	REVISED 100% DESIGN
-	04/15/10	100% DESIGN

PROJECT NO: 60051218
 DRAWN BY: P. ARIGO
 CHECKED BY: G. RUBENDALL
 SCALE: 1"=20'
 DRAWING DATE: 12/03/2010

DRAWING TITLE:
BUCHANAN/JACKSON
Traffic Signal
Plan

DRAWING NUMBER:
E1.01
 SHEET 8 OF 10
 REV XXX

100% SUBMITTAL
 NOT FOR CONSTRUCTION

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CONDUCTOR SCHEDULE

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
	RUN NUMBER								
	1	2	3	4	5	6	7	8	9
No. 14 CONDUCTORS									
Ø1	3	3		3	3	3			
Ø2	6	6	3	3	3				
Ø3	3	3		3	3	3			
Ø4	3	3		3	3	3	3		
Ø5	6	6	3	3	3	3	3	3	3
Ø6	3	3		3	3	3	3	3	3
Ø7	3	3		3					
Ø8	3	3		3	3	3	3	3	
Ø2P	4	4	2	2	2				
Ø4P	2	2		2	2	2	2		
Ø6P	2	2		2	2	2	2	2	2
Ø2PPB	1	1		1					
Ø4PPB	1	1		1	1	1			
Ø6PPB	1	1		1	1	1	1	1	
PPB COMMON	2	2	1	1	1	1	1	1	1
PEU	3	3	3						
SPARES	6	6	3	3	3	3	3	3	3
TOTAL No. 14	52	52	15	37	33	28	24	16	12
No. 10 CONDUCTORS									
VIDEO POWER	4	4	2	2	2	2	2		
FLASHING BEACON (SERVICE)	2	2		2	2	1	1	1	1
LIGHTING	2	2		2	2	2	2		
SIGNAL COMMON	6	6	3	3	3	3	3	3	3
TOTAL No. 10	14	14	5	9	9	8	8	4	4
No. 8 CONDUCTORS									
FLASHING BEACON (GROUND)	2	2		2	2	1	1	1	1
VIDEO DETECTION COAXIAL CABLE									
Ø1-1	1	1		1	1	1			
Ø2-1, Ø2-2	2	2	1	1	1				
Ø3-1	1	1		1	1	1	1		
Ø4-1, Ø4-2	1	1		1					
Ø5-1	2	2	1	1	1	1	1	1	1
Ø6-1, Ø6-2	1	1		1	1	1	1	1	1
Ø7-1	1	1		1					
Ø8-1, Ø8-2	1	1		1	1	1	1	1	1
TOTAL VIDEO DETECTION CABLE	10	10	2	8	6	5	4	3	2
EMERGENCY PREEMPTION									
EVA	1	1	1						
EVB	1	1		1	1				
EVC	1	1		1	1	1			
EVD	1	1		1	1	1	1	1	
TOTAL PREEMPTION	4	4	1	3	3	2	1	1	1
PERCENT FULL	21	21	19	15	22	19	16	15	15
CONDUIT SIZE	4"	4"	2"	4"	3"	3"	3"	3"	2"

ALL CONDUITS AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.

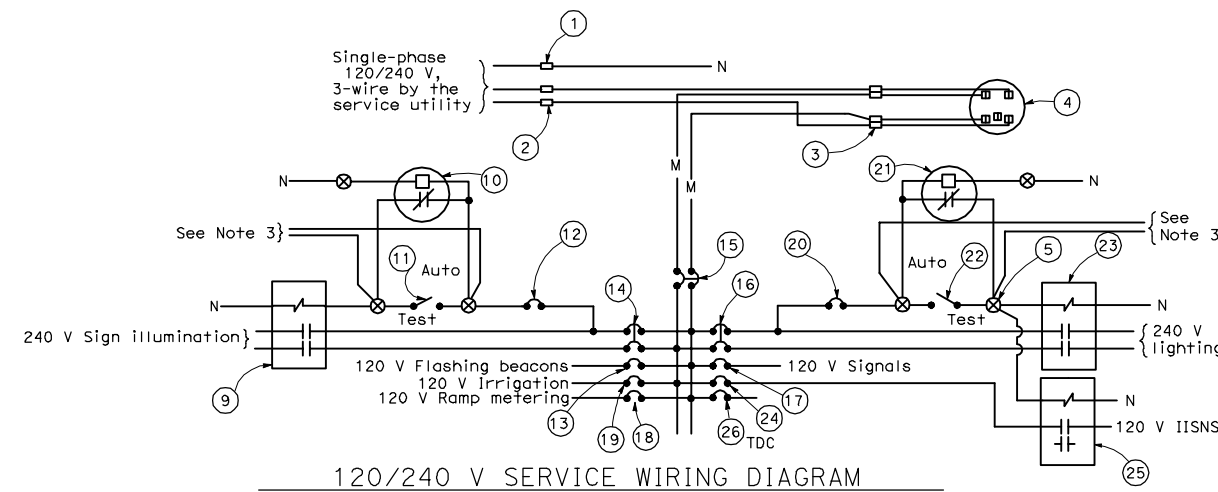
APPLICABLE STANDARD PLANS (MAY 2006):

ES-1A	ES-2D	ES-4B	ES-6A
ES-1B	ES-3A	ES-4C	ES-7B
ES-1C	ES-3B	ES-4D	ES-7F
ES-2A	ES-3C	ES-4E	ES-7N
ES-2C	ES-4A	ES-5C	ES-8

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD			VEH. SIGNAL MOUNTING		PED SIGNAL	PPB		SPECIAL REQUIREMENT*
	TYPE	SIG. MA (FEET)	LUM. MA (FEET)	HPS LUM. WATTAGE	MAST ARM	POLE	MOUNTING	Ø	
A	1-B	-	-	-	-	TV-2-T	-	2P	→
B	19-4-100	30'	12'	200W	MAS	SV-1-T	SP-1-T	2P	←
C	15-TS	-	12'	310W	-	TV-2-T	SP-1-T	4P	→
D	27-4-100	40'	-	-	MAS	SV-1-T	SP-1-T	4P	←
E	27-4-100	40'	-	-	MAS	SV-2-T	SP-1-T	6P	→
F	1-B	-	-	-	-	TV-1-T	-	6P	←
G	1-B	-	-	-	-	TV-2-T	SP-1-T	-	-
H	23-4-100	35'	-	-	MAS	SV-1-T	SP-1-T	-	-

* OTHER REQUIREMENTS ARE COVERED BY NOTES, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.



ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	Neutral lug		4	30 A, 240 V, 2P, CB	Sign Illumination
2	Landing lug (Note 6)		5	100 A, 240 V, 2P, CB	Main Breaker
3	Test bypass facility		6	30 A, 240 V, 2P, CB	Lighting
4	Meter socket and support		7	50 A, 120 V, 1P, CB	Signals
5	Terminal blocks		8	30 A, 120 V, 1P, CB	
6	Neutral bus		9	20 A, 120 V, 1P, CB	Irrigation
7	Ground bus		10	15 A, 120 V, 1P, CB	Lighting Control
8	Grounding electrode		11	Photoelectric unit (Note 7)	
9	30 A, 2PNO Contactor	Sign Illumination	12	15 A, 1P, Test switch	Lighting Test Switch
10	Photoelectric unit (Note 7)		13	60 A, 2PNO Contactor	Lighting
11	15 A, 1P, Test switch	Sign Illumination Test Switch	14	15 A, 120 V, 1P, CB	IISNS
12	15 A, 120 V, 1P, CB	Sign Illumination Control	15	30 A, 2PNO Contactor	IISNS
13	15 A, 120 V, 1P, CB	Flashing Beacon	16	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
- Connect to remote test switch mounted on lighting standards, sign post or structure when required.
- Items No. 1 and 6 shall be isolated from the service equipment enclosure.
- Meter sockets shall be 5 clip type.
- The landing lug shall be suitable for multiple conductors.
- Type I photoelectric control shall be used unless otherwise indicated on the plans.

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PROJECT:
BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR
CITY OF ALBANY, CALIFORNIA
COMMUNITY DEVELOPMENT DEPARTMENT
1000 SAN PABLO AVENUE
ALBANY, CALIFORNIA 94706
(510) 528-5760



DESIGNER:

AECOM

2101 WEBSTER STREET, SUITE 1900
OAKLAND, CALIFORNIA 94612
PHONE: 510-763-2929
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REGISTRATION:



REV	DATE	DESCRIPTION
-	12/03/10	REVISED 100% DESIGN
-	10/06/10	REVISED 100% DESIGN
-	04/15/10	100% DESIGN

PROJECT NO: 60051218
DRAWN BY: P. ARIGO
CHECKED BY: G. RUBENDALL
SCALE: NTS
DRAWING DATE: 12/03/2010

KEY PLAN:

DRAWING TITLE:
BUCHANAN/JACKSON
Traffic Signal
Schedule and
Details

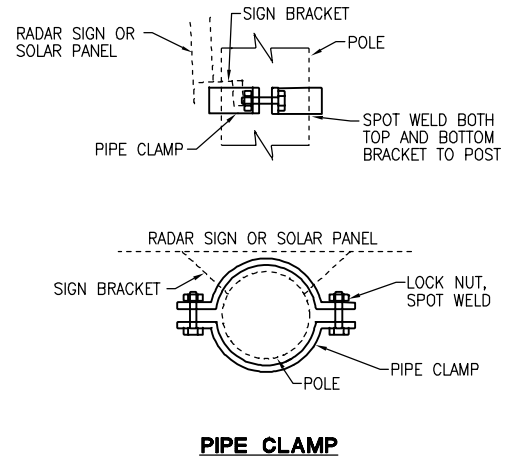
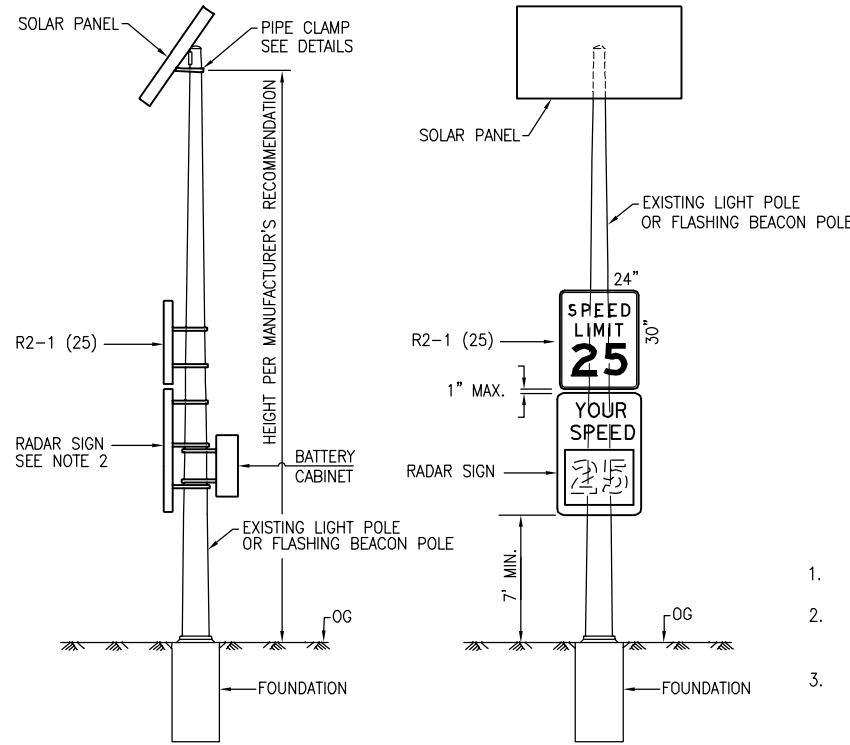
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E1.02

SHEET 9 OF 10

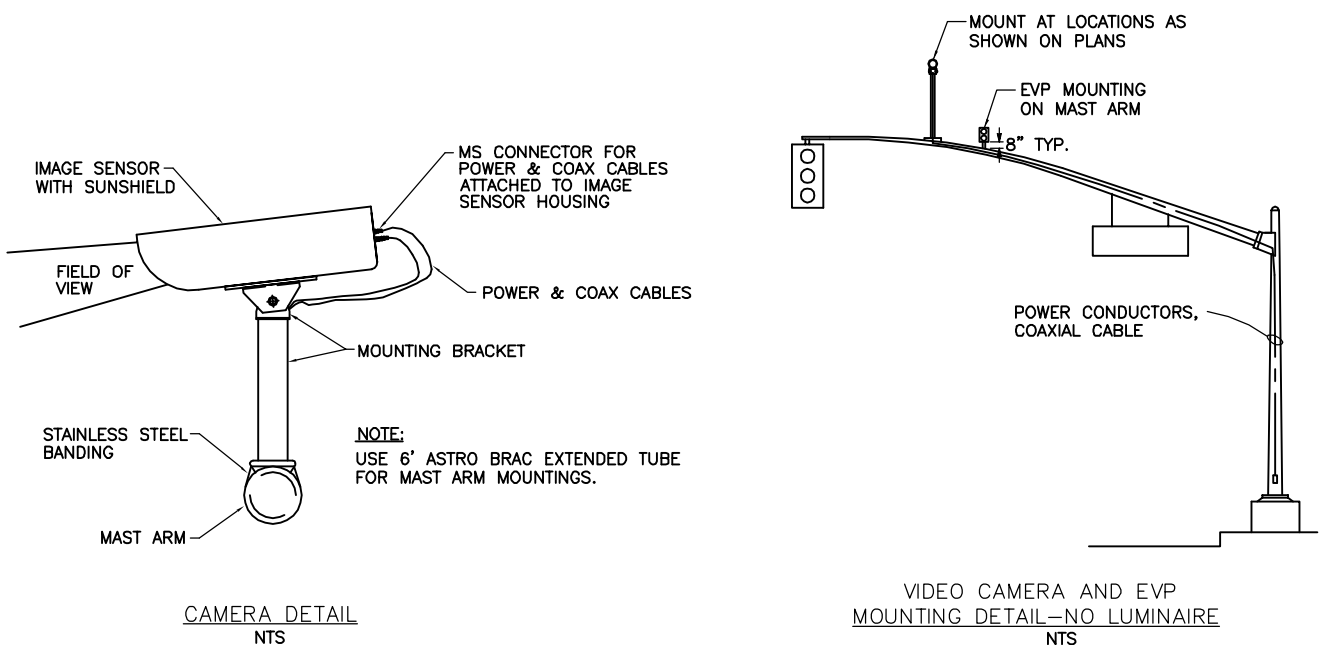
REV XXX

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1. RADAR SIGN PANEL DIMENSIONS AND LED TEXT DISPLAY SIZE AND COLOR VARIES, DEPENDING ON MANUFACTURER.
2. VEHICLE SPEED FEEDBACK SIGN PANEL AND ITS RADAR DETECTION SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION FOR MAXIMUM DETECTION.
3. ADJUST SPEED FEEDBACK SIGN SOLAR PANEL TO FACE SOUTH AND TILT 55 DEGREES ZENITH OR AS DIRECTED BY THE ENGINEER. HEIGHT OF SOLAR PANEL SHALL BE AS RECOMMENDED BY MANUFACTURER OR AS DIRECTED BY THE ENGINEER.

SOLAR VEHICLE SPEED FEEDBACK SIGN
NTS
SEE SHEET C1.05 (STRIPING PLAN) FOR LOCATIONS



CAMERA DETAIL
NTS

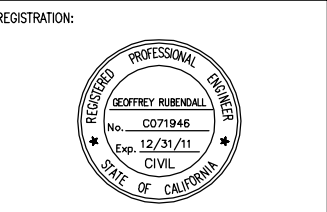
VIDEO CAMERA AND EVP MOUNTING DETAIL-NO LUMINAIRE
NTS

PROJECT:
BUCHANAN/JACKSON
TRAFFIC SIGNAL
AND INTERSECTION
SAFETY IMPROVEMENTS
CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR
CITY OF ALBANY, CALIFORNIA
COMMUNITY DEVELOPMENT DEPARTMENT
1000 SAN PABLO AVENUE
ALBANY, CALIFORNIA 94706
(510) 528-5760



DESIGNER:
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-	04/15/10	100% DESIGN

PROJECT NO: 60051218
DRAWN BY: P. ARIGO
CHECKED BY: G. RUBENDALL
SCALE: NTS
DRAWING DATE: 12/03/2010

KEY PLAN:

DRAWING TITLE:
BUCHANAN/JACKSON
Sign and Signal
Details

DRAWING NUMBER:
E1.03

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