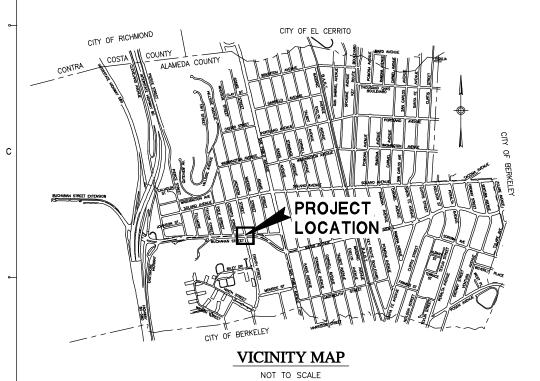
ALAMEDA COUNTY, CALIFORNIA

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)



SHEET INDEX

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STANDARD PLANS WITH SPECIAL PROVISIONS BY CITY OF ALBANY

ST 1 ST 5 ST 8

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 (NAD83).

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').

CALTRANS STANDARD PLANS (MAY 2006)

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

GENERAL LEGEND

EXISTING	<u>NEW</u>	DESCRIPTION
-	-	UTILITY POLE
OR ()	₩ OR ○	ELECTROLIER/LUMINAIRE
+++		FIRE HYDRANT
-		ROADSIDE SIGN
⊕ OR WV	$oldsymbol{\Theta}$	WATER VALVE
⊕ OR ⊠ _{GV}		GAS VALVE
		DRAINAGE CATCH BASIN
———SS———		SANITARY SEWER LINE
—— W ———		WATER LINE
———SD———	——SD——	STORM DRAIN LINE
——TS——		TRAFFIC SIGNAL CONDUIT
—— E ——		UNDERGROUND ELECTRIC LINE
——OH——		OVERHEAD UTILITY LINE
—— G ——		GAS LINE
Ø		DIAMETER
—X——X—	—X——X—	FENCE
S		SANITARY SEWER MANHOLE
D		STORM DRAIN MANHOLE
		STORM DRAIN INLET
		MONUMENT LINE

BUCHANAN/JACKSON TRAFFIC SIGNAL AND INTERSECTION SAFETY IMPROVEMENTS

CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR CITY OF ALBANY, CALIFORNIA COMMUNITY DEVELOPMENT DEPARTMENT



DESIGNER:

AECOM

2101 WEBSTER STREET, SUITE 1900 OAKLAND, CALIFORNIA 94612 PHONE: 510-763-2929 FAX: 510-834-5220

REGISTRATION



-	12/03/10	REVISED 100% DESIGN						
-	10/06/10	REVISED 100% DESIGN						
-	04/15/10	100% DESIGN						
REV	DATE	DESCRIPTION						
PROJE	CT NO:	60051218						
DRAW	N BY:	P. ARIGO						
CHEC	KED BY:	G. RUBENDALL						
SCALE	:	AS NOTED						
DRAW	NG DATE:	12/03/10						
CEY DI ANI-								

DRAWING TITLE:

BUCHANAN/JACKSON Title Sheet and Legend

REV XXX

SHEET 1 OF 10

100% SUBMITTAL NOT FOR CONSTRUCTION

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- 1. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- ALL MATERIALS AND WORK TO CONSTRUCT THE IMPROVEMENTS SHOWN HERE ON THESE PLANS SHALL CONFORM TO THE LATEST EDITION OF THE COUNTY OF ALAMEDA PUBLIC WORKS AGENCY STANDARD SPECIFICATIONS AND DETAILS, AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THE PROJECT REQUIREMENTS CONTAINED IN THE STANDARD SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS. CONTRACTOR SHALL MAINTAIN A COPY OF THE STANDARD SPECIFICATIONS AND APPROVED PROJECT PLANS AND SPECIAL PROVISIONS AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FROM APPLICABLE AGENCIES TO PERFORM THE WORK SHOWN ON THESE PLANS PRIOR TO COMMENCING WORK
- WORKING HOURS SHALL BE FROM 7:00AM TO 5:00PM MONDAY THROUGH FRIDAY; AND 8:00AM TO 5:00PM WEEKENDS AND HOLIDAYS. NO STARTUP OF HEAVY EQUIPMENT IS ALLOWED PRIOR TO 8:00AM. WRITTEN PERMISSION MUST BE OBTAINED FROM THE CITY ENGINEER PRIOR TO ANY WEEKEND OR HOLIDAY WORK, ALL WORK SHALL BE DONE BETWEEN JUNE 25, 2010 AND SEPTEMBER 3, 2010 SO AS NOT TO CONFLICT WITH THE SCHOOL YEAR UNLESS OTHERWISE
- 6. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHERS, INCLUDING SUBCONTRACTORS, AT THE PROJECT SITE. CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO TO REPRESENT AND ACT ON BEHALF OF THE CONTRACTOR AT THE PROJECT SITE DURING ALL WORKING HOURS.
- CONTRACTOR SHALL NOTIFY THE CITY AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK.
- 8. CONTRACTOR SHALL INFORM THE CITY ENGINEER AT LEAST THREE (3) WORKING DAYS PRIOR TO WHEN WORK REQUIRING SPECIAL INSPECTION IS AVAILABLE FOR INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED INSPECTION OR NOTIFICATION IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE DIRECTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE WITH NO IMPACT TO THE PROJECT SCHEDULE.
- 9. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL PUBLIC OR PRIVATE UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING
- 10. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS. OR ANY WORK INVOLVING UTILITIES, WITH THE APPROPRIATE UTILITY COMPANIES.
- 11. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST TEN (10) DAYS PRIOR TO START OF CONSTRUCTION AND AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF ANY EXCAVATIONS
- 12. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS HAVE NOT BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATIONS AND DEPTHS OF ANY UNDERGROUND UTILITIES OR STRUCTURES WITHIN THE LIMITS OF THE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, PROTECT AND MAINTAIN ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
- 13. CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE CITY POLICE DEPARTMENT, FIRE DEPARTMENT AND THE CITY ENGINEER AND NOTIFY THEM OF ANY LANE CLOSURES OR DETOURS. DETOURS SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT SAFETY DEVICES INCLUDING BARRICADES, FENCING, WARNING SIGNS, LIGHTS OR FLAGGERS TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC WITHIN THE PROJECT AREA, TO THE SATISFACTION OF THE CITY ENGINEER. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 15. CONTRACTOR SHALL PROVIDE ONE (1) COMPLETE SET OF AS-BUILT DRAWINGS WITH CHANGES INDICATED IN RED INK ON FULL-SIZE DRAWINGS. AS-BUILTS SHALL BE DELIVERED TO THE CITY'S REPRESENTATIVE AT THE COMPLETION OF WORK PRIOR TO FINAL PROGRESS PAYMENT.
- 16. THE CONTRACTOR SHALL BE REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE PUBLIC RIGHT-OF-WAY AND EASEMENT OBTAINED FOR THE PROJECT UNLESS OTHERWISE SHOWN. SHALL INCLUDE, BUT NOT BE LIMITED TO: VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATIONS, STOCKPILED NEW MATERIAL, EXCAVATED MATERIAL AND BACKFILL MATERIAL. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION FASEMENTS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENT FROM INDIVIDUAL PROPERTY OWNERS.
- CONTRACTOR SHALL EXERCISE DUE CAUTION DURING CONSTRUCTION TO PROTECT AND MAINTAIN ANY EXISTING CONCRETE CURBS, GUTTERS, SIDEWALKS AND DRIVEWAYS IDENTIFIED TO REMAIN. ANY DAMAGE RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.

- 18. CONTRACTOR SHALL RESTORE ALL EXISTING PRIVATE AND PUBLIC IMPROVEMENTS TO THEIR EXISTING CONDITION OR BETTER TO THE SATISFACTION OF THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO: LANDSCAPING, IRRIGATION, DRIVEWAYS, AC PAVING, CONCRETE AND UTILITIES.
- 19. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS WITHIN THE WORK AREA AND SHALL NOT DESTROY ANY PERMANENT SURVEY MARKERS WITHOUT THE PRIOR CONSENT AND APPROVAL OF THE CITY ENGINEER. ANY PERMANENT SURVEY MONUMENTS OR MARKERS DESTROYED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 20. ALL TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD). ALL PROPOSED LANE CLOSURES AND DETOURS REQUIRE A TRAFFIC CONTROL PLAN TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY ENGINEER AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE SCHEDULED CLOSURE.
- 21. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AND DRIVEWAYS, OR PROVIDE ALTERNATE/TEMPORARY ACCESS, AT ALL TIMES.
- 22. ALL TREES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE, UNLESS OTHERWISE IDENTIFIED FOR REMOVAL ON PLANS (SEE TREE PROTECTION NOTES).
- 23 CONSTRUCTION ACTIVITIES AFFECTING SERVICE TO ANY FIRE HYDRANT SHALL BE COORDINATED WITH THE CITY FIRE DEPARTMENT A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO STARTING WORK.
- 24. CONTRACTOR SHALL CONFORM TO EXISTING STREETS, LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION AND CONFORM IN PAVING, CURBS, GUTTERS AND SIDEWALKS TO AVOID ANY ABRUPT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS.
- 25. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR POTENTIAL FIELD CONFLICTS PRIOR TO PROCEEDING WITH THE WORK. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO REPORT SUCH CONFLICTS WILL BE RESPONSIBILITY OF THE CONTRACTOR
- 26. CONTRACTOR SHALL CONDUCT GRADING AND CONSTRUCTION ACTIVITIES IN SUCH A MANNER TO CONTROL AIRBORNE DUST AND RELATED DAMAGE TO ADJACENT PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST AND WIND BLOWN MATERIAL IS REQUIRED AT ALL TIMES AND CONTRACTOR ASSUMES FULL LIABILITY FOR DAMAGE CLAIMS RELATING TO DUST.
- 27. ANY MATERIALS CONTAINING ASBESTOS OR OTHER HAZARDOUS MATERIALS THAT ARE REMOVED FROM THE PROJECT SITE MUST BE PERFORMED ONLY BY A PRE-APPROVED STATE OF CALIFORNIA LICENSED ASBESTOS ABATEMENT CONTRACTOR REGISTERED WITH CAL-OSHA. ASBESTOS AND OTHER HAZARDOUS MATERIAL HANDLING MUST BE IN ACCORDANCE WITH CAL-OSHA, FED-OSHA, U.S. EPA, CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCE CONTROL AND THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATIONS.
- 28. AECOM USA, INC. AND ITS SUBCONSULTANTS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR ANY UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS SHALL BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER OF RECORD.

TREE PROTECTION NOTES:

- 1. ARBORIST: IF TREE ROOTS ARE TO BE ENCOUNTERED, CONTRACTOR SHALL CONTACT THE CITY'S ARBORIST FOR "ON-CALL" CONSULTATION DURING CONSTRUCTION. NO EXCAVATION SHALL BE PERMITTED ON-SITE UNTIL THE ARBORIST HAS APPROVED THE PROPOSED STAGING AREA(S). NO TREE PRUNING, REMOVAL OF ROOT-CUTTING SHALL OCCUR WITHOUT THE ARBORISTS DIRECTION, RECOMMENDATIONS OR APPROVAL
- 2. TRENCHING: ALL TRENCHING WITHIN THE DRIP LINE OF EXISTING TREES SHALL BE BY HAND WITH CARE TAKEN NOT TO DAMAGE ROOTS OVER 2" DIAMETER
- ADVANCE MARKING: CITY'S ARBORIST SHALL MARK LIMITS OF AREA WITHIN DRIP LINES IN ADVANCE PRIOR TO FXCAVATING.
- 4. PRUNING: TREES SHALL BE PRUNED ONLY AS RECOMMENDED BY CONTRACTOR'S ARBORIST.
- 5. CONSTRUCTION OPERATIONS: NO CONSTRUCTION OPERATIONS SHALL BE CARRIED ON WITHIN THE DRIP LINE AREA OF ANY TREE DESIGNATED TO BE SAVED EXCEPT AS AUTHORIZED BY THE CITY
- STORAGE: THE AREA UNDER THE DRIP LINE OF THE TREE SHALL BE KEPT CLEAN. NO CONSTRUCTION MATERIALS NOR CHEMICAL SOLVENTS SHALL BE STORED OR DUMPED UNDER A

ABBREVIATIONS

EVCE

FVCS

FB

FDAC

FOC

GB

GRND

GTR

GV

HYD

IN

INV

LED

I G

LS

LT

MIN

N0

N.T.S.

(P)

PBB

PCC

PCC

P0C

PRC

PRKG

PVC

H.HORIZ

EXIST, EX (E) EXISTING

AB	AGGREGATE BASE	R	RADIUS
AC	ASPHALT CONCRETE	R/R	REMOVE AND REPLACE
ACB	ASPHALT CONCRETE BASE	R/W	RIGHT OF WAY
AC TRANSIT	ALAMEDA COUNTY TRANSIT	RCP	REINFORCED CONCRETE PIPE
ANG. PT	ANGLE POINT	RT	RIGHT
APPROX	APPROXIMATE	REQ'D	REQUIRED
BC	BEGIN CURVE	RET	RETURN
BOC	BACK OF CURB	RWL	ROOF WATER LEADER
BSW	BACK OF SIDEWALK	S	SLOPE
BVCE	BEGIN VERTICAL CURVE ELEVATION	SD	STORM DRAIN
BVCS	BEGIN VERTICAL CURVE STATION	SDI	STORM DRAIN INLET
С	CURVE	SDMH	STORM DRAIN MANHOLE
C&G	CURB AND GUTTER	SF	SQUARE FEET
CB	CATCH BASIN	SHLD	SHOULDER
CD	CURB DRAIN	SIC	SIGNAL INTERCONNECT CONDUIT
CH	CURB HEIGHT	SSMH	SANITARY SEWER MANHOLE
CIP	CAST IRON PIPE	SS	SANITARY SEWER
CL	CENTERLINE	STA	STATION
CMP	CORRUGATED METAL PIPE	ST	STREET
D, DIA	DIAMETER	SW	SIDEWALK
DI	DRAINAGE INLET	T	TOTAL
DIP	DUCTILE IRON PIPE	TCE	TEMPORARY CONSTRUCTION EASEMENT
DWG	DRAWING	TEL	TELEPHONE
E	EASTING, ELECTRICAL	TOC	TOP OF CURB
ELEC	ELECTRICAL	TS	TRAFFIC SIGNAL
EC	END CURVE	TYP	TYPICAL
EDG	EDGE	VAR	VARIES
EL OR ELEV	ELEVATION	VC	VERTICAL CURVE
ELEC OH	ELECTRICAL OVERHEAD	VCP	VITRIFIED CLAY PIPE
ELL	ELBOW	W	WATER
EP, EOP	EDGE OF PAVEMENT	W/	WITH
ETW	EDGE OF TRAVEL WAY	WM	WATER MAIN

2:1

END OF VERTICAL CURVE ELEVATION

END OF VERTICAL CURVE STATION

FULL DEPTH ASPHALT CONCRETE

FACE OF BUILDING

FACE OF CURB GALVANIZED

GRADE BREAK

GROUND

GUTTER

GAS VALVE

HORIZONTAL

HIGH POINT

HYDRANT

INCH

INVFRT

LENGTH

LIGHT EMITTING DIODE

NORTH, NORTHING, NEW

LIP OF GUTTER

LANDSCAPE

MINIMUM

NUMBER

PAVEMENT

PROPOSED

PARKING

NOT TO SCALE

PACIFIC BELL BOX

PORTLAND CEMENT CONCRETE

POINT OF COMPOUND CURVE

POINT ON HORIZONTAL CURVE

POINT OF REVERSE CURVE

POLYVINYL CHLORIDE

LEFT

REGISTRATION

DESIGNER:

AECOM

FAX: 510-834-5220

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

BUCHANAN/JACKSON

SAFETY IMPROVEMENTS

CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR

CITY OF ALBANY, CALIFORNIA

COMMUNITY DEVELOPMENT DEPARTMENT

TRAFFIC SIGNAL AND INTERSECTION

12/03/10 REVISED 100% DESIGN - 10/06/10 REVISED 100% DESIGN - 04/15/10 100% DESIGN REV DATE DESCRIPTION PROJECT NO: 60051218 DRAWN BY: P. ARIGO CHECKED BY: G. RUBENDALL SCALE: AS NOTED DRAWING DATE: 12/03/2010 KEY PLAN

DRAWING TITLE:

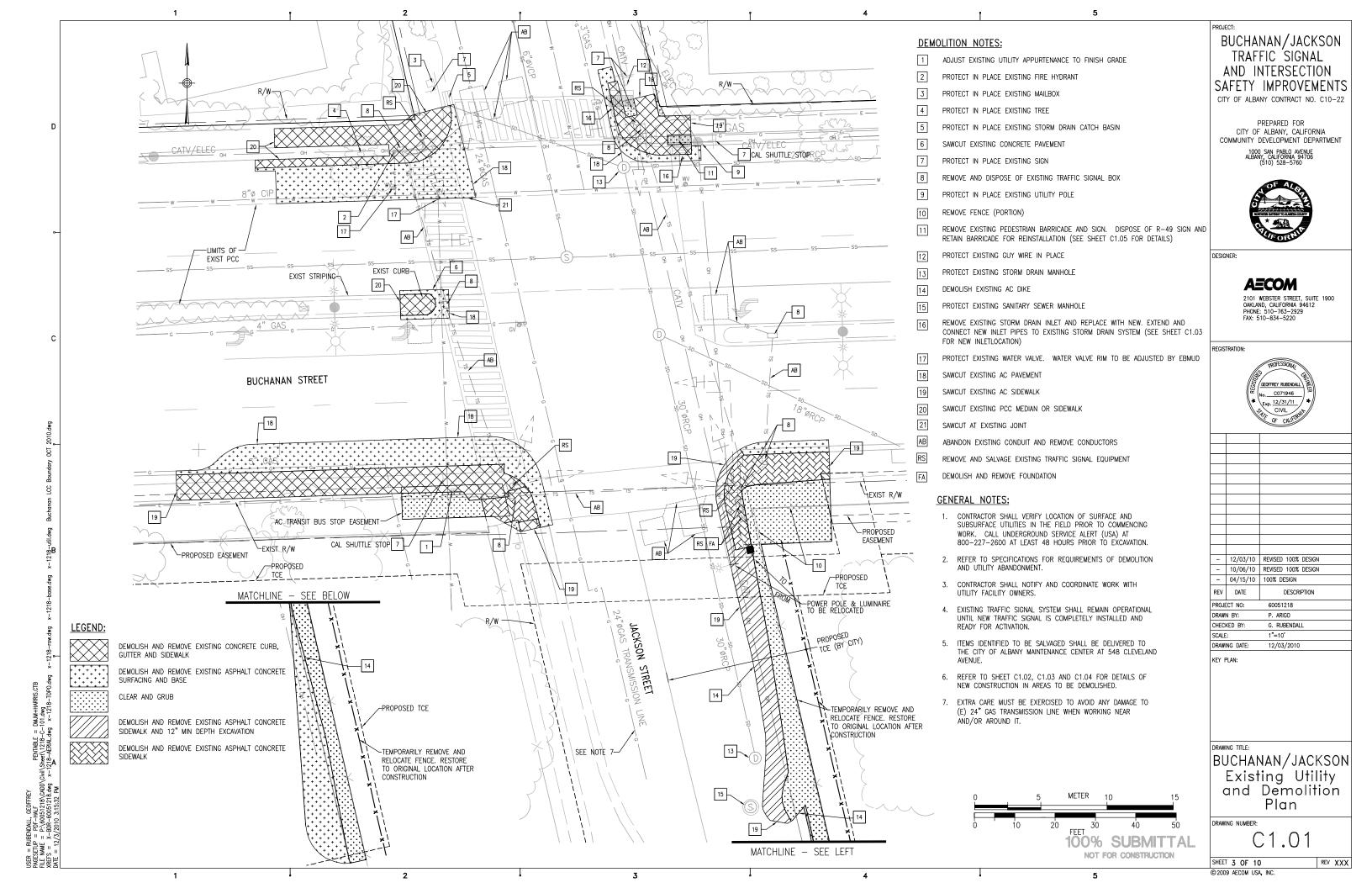
BUCHANAN/JACKSON General Notes & Abbreviations

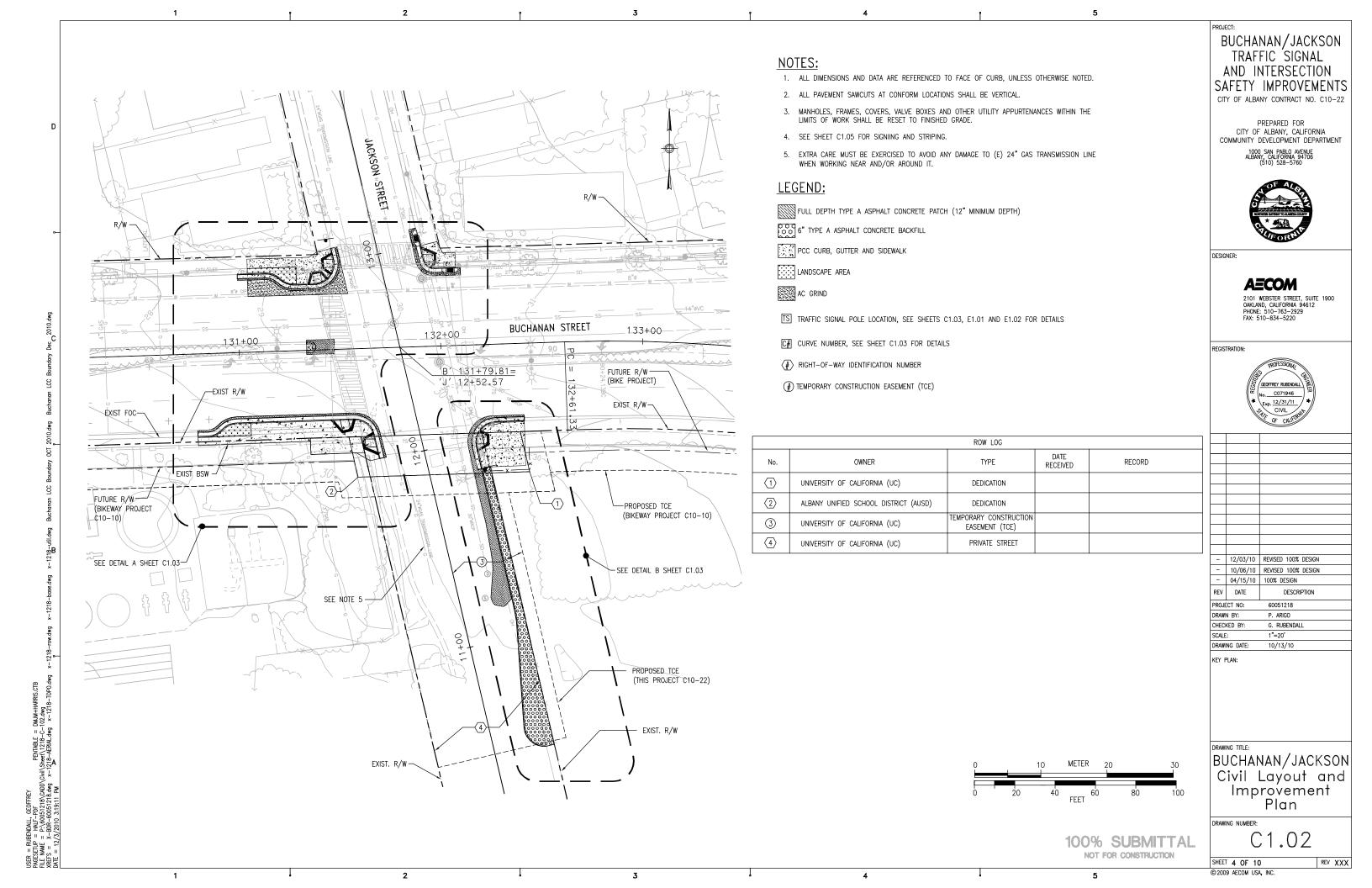
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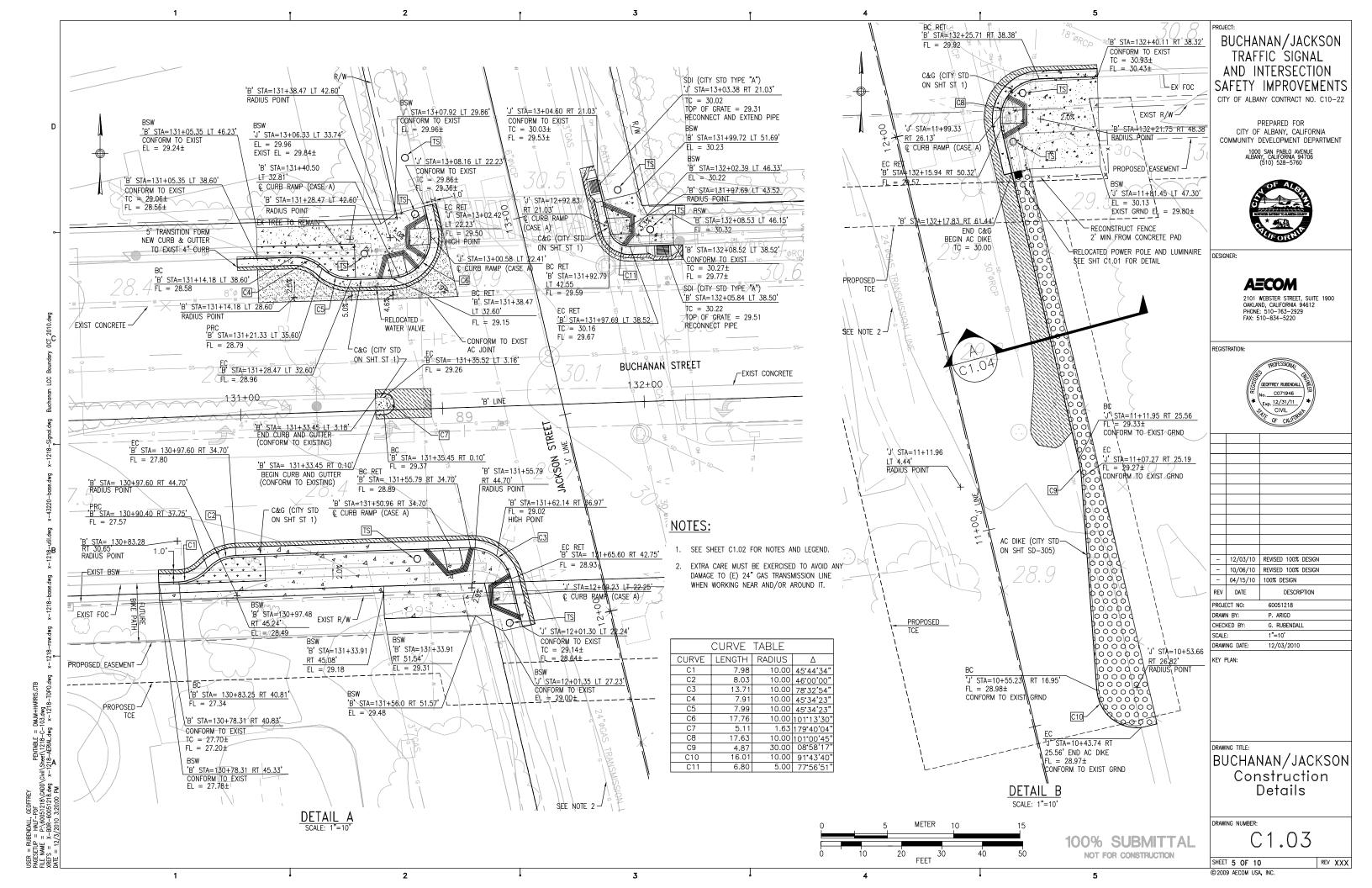
SHEET 2 OF 10 © 2009 AECOM USA, INC.

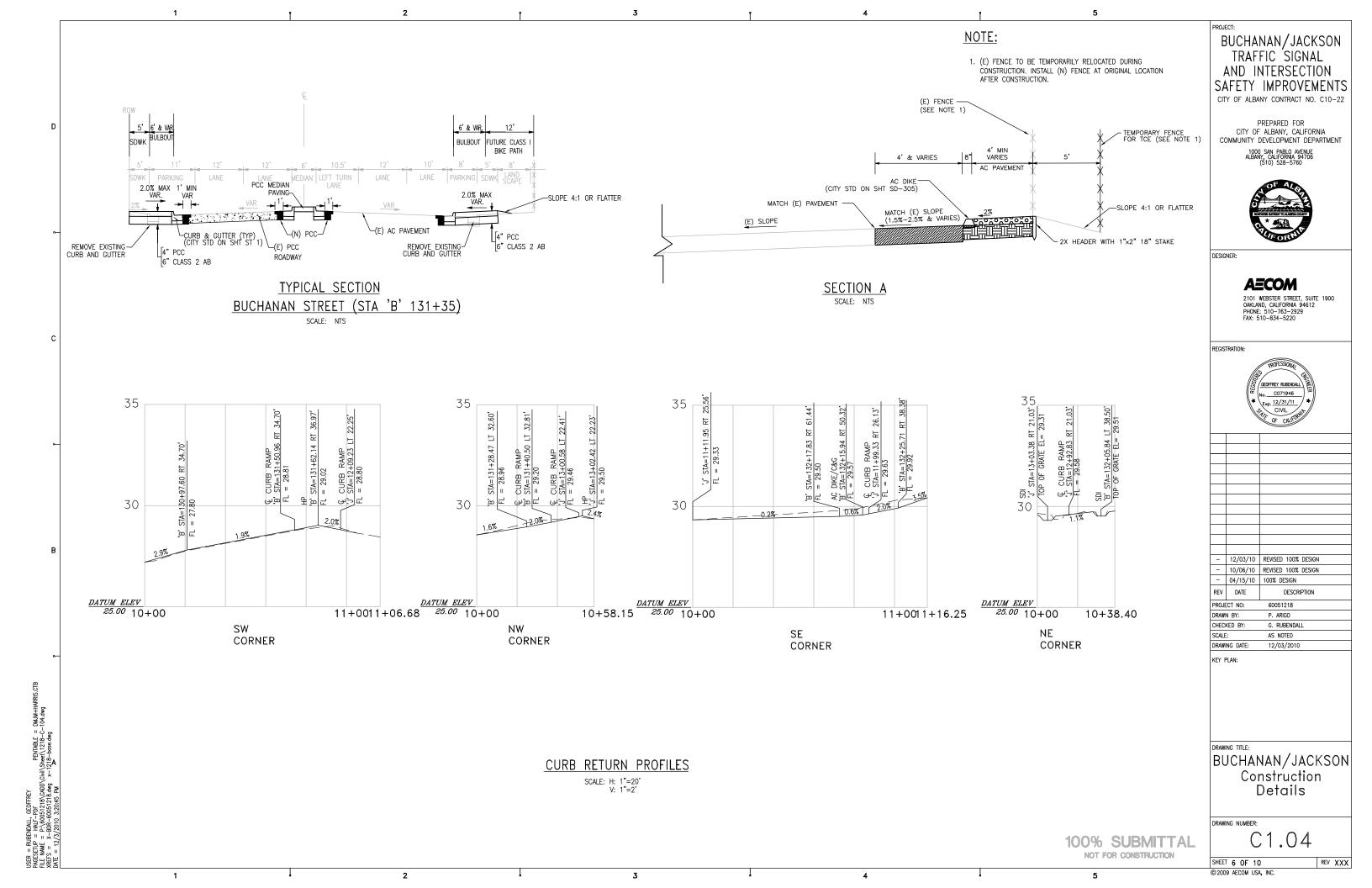
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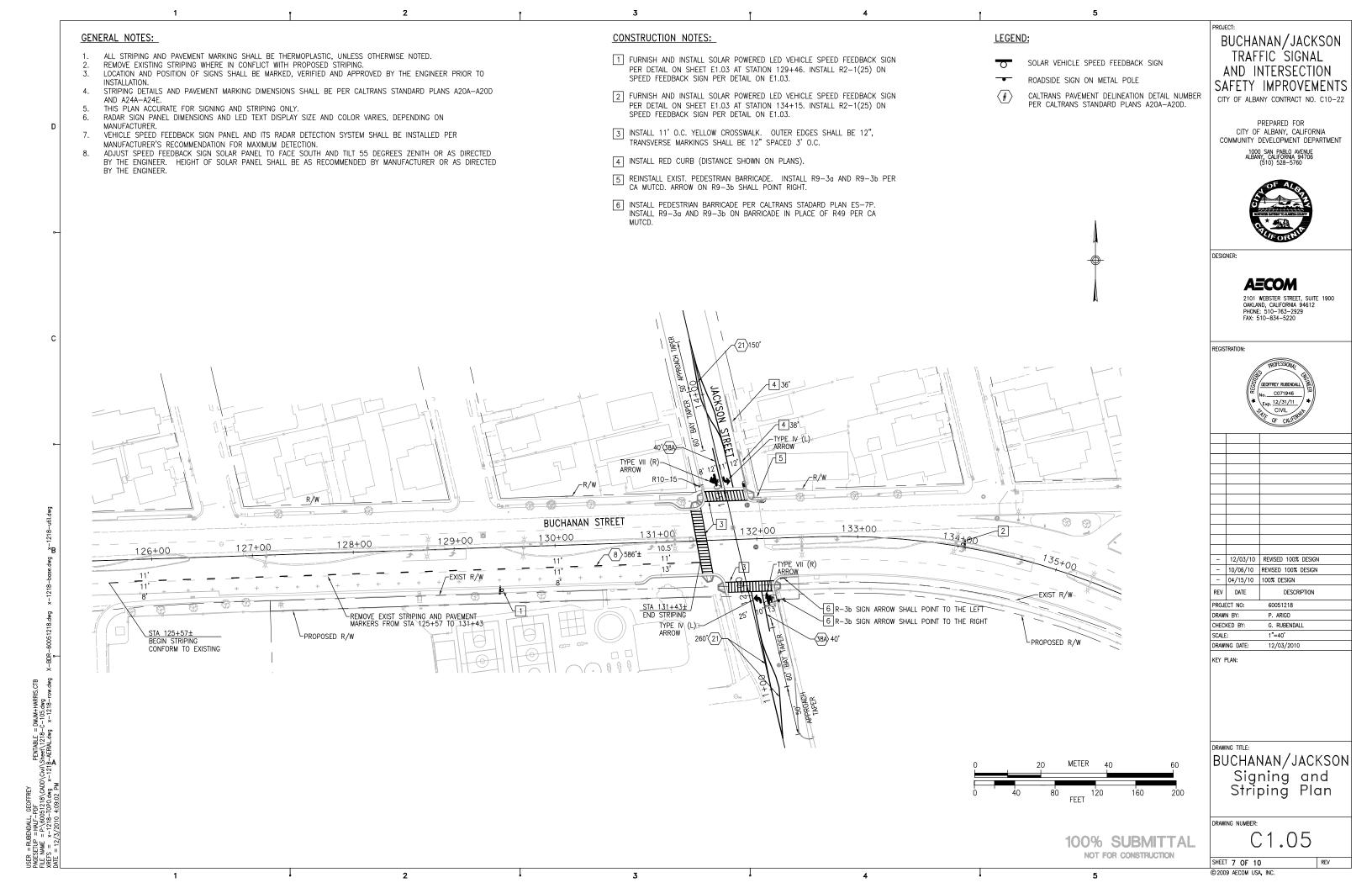
2 HORIZONTAL TO 1 VERTICAL SLOPE











- 1. 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
- 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
- ALL EXISTING STREET LIGHTS SHALL REMAIN IN OPERATION UNTIL FINAL CONNECTIONS ARE MADE. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY STREET LIGHTING.
- 10. THE CONTRACTOR SHALL REPAIR/REPLACE ALL LANDSCAPING, CURBS, ETC., DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CONTRACT.
- 11. ALL VEHICLE SIGNAL HEADS SHALL BE 12" LED MODULES UNLESS NOTED OTHERWISE.
- 12. ALL PULL BOXES SHALL BE NO. 5 UNLESS NOTED OTHERWISE.
- 13. ALL VIDEO DETECTION ZONES SHALL BE 50'X6' UNLESS NOTED OTHERWISE.
- 14. ALL SIGNS SHALL BE OF HIGH INTENSITY SHEETING
- 15. EXTRA CARE MUST BE EXERCISED TO AVOID ANY DAMAGE TO (E) 24" GAS TRANSMISSION LINE WHEN WORKING NEAR AND/OR AROUND IT.

LEGEND:

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SIGN MOUNTED ON SIGNAL MAST ARM OR POLE $\top \top$

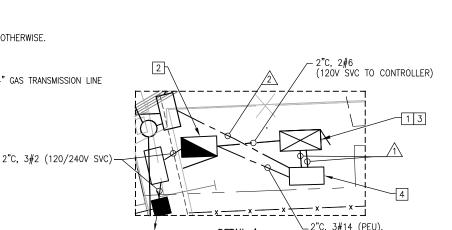
VIDEO DETECTION ZONE

VIDEO DETECTION CAMERA

EMERGENCY VEHICLE DETECTOR UNIT

CONDUIT RUNS SHOWN ON SHEET E1.02

POLE AND EQUIPMENT SCHEDULES SHOWN ON SHEET E1.02



2#10 (120V LIGHTING).

2#10 (120V VIDEO POWER),

EVP:

EVA = Ø2

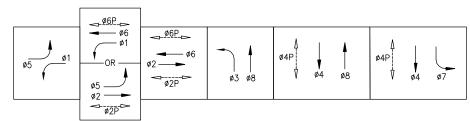
EVB = Ø4 EVC = Ø6

EVD = Ø8

2#10 (120V FLASHING BEACON)

DETAIL A

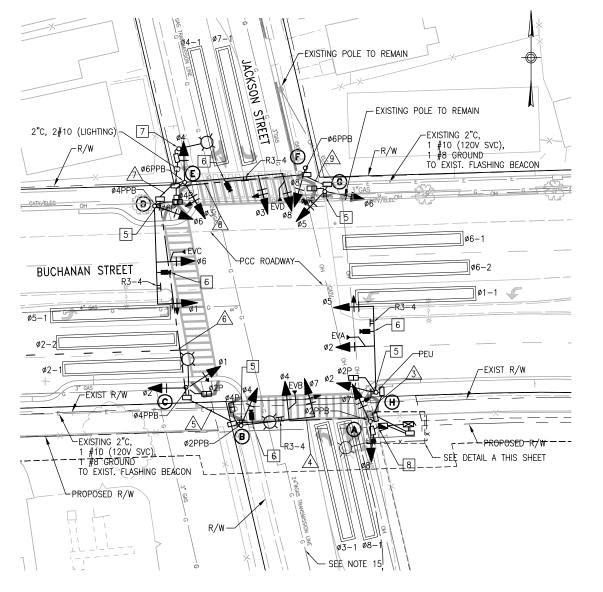
N.T.S.



PHASE DIAGRAM (PROPOSED)

CONSTRUCTION NOTES:

- 1 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 (MÁY 2006) ES-2D.
- 3 FURNISH AND INSTALL EMERGENCY VEHICLE DISCRIMINATOR UNITS IN CONTROLLER ASSEMBLY.
- 4 INSTALL NUMBER 6 PULL BOX WITH DOUBLE 6" EXTENSIONS.
- 5 INSTALL STREET NAME SIGN (SNS) ON POLE.
- [6] INSTALL VIDEO CAMERA ON SIGNAL MAST ARM WITH 5' EXTENSION PER DETAIL ON SHEET E1.03 AS DIRECTED BY ENGINEER.
- 7 INSTALL TYPE 15 LUMINAIRE WITH 310W HPS PER CALTRANS STANDARD PLANS (MAY 2006) ES-6A.
- 8 INSTALL NEW METER AND CONNECT SIGNAL SERVICE TO EXISTING PG&E SYSTEM.





BUCHANAN/JACKSON TRAFFIC SIGNAL AND INTERSECTION SAFETY IMPROVEMENTS

CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR CITY OF ALBANY, CALIFORNIA COMMUNITY DEVELOPMENT DEPARTMENT

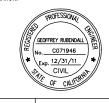


DESIGNER:

AECOM

2101 WEBSTER STREET, SUITE 1900 OAKLAND, CALIFORNIA 94612 PHONE: 510-763-2929 FAX: 510-834-5220

REGISTRATION



12/03/10 REVISED 100% DESIGN 10/06/10 REVISED 100% DESIGN 100% DESIGN 04/15/10 REV DATE DESCRIPTION PROJECT NO: 60051218 DRAWN BY: P. ARIGO CHECKED BY: G. RUBENDALL SCALE: 1"=20" DRAWING DATE 12/03/2010

DRAWING TITLE:

KEY PLAN:

BUCHANAN/JACKSON Traffic Signal Plan

DRAWING NUMBER:

REV XXX

TO PG&E

METER

SHEET 8 OF 10

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COND		` `							
				NUMBE	R OF C	ONDUCT	TORS		
CONDUCTOR DESIGNATION		RUN NUMBER							
NO 44 COMPLICTORS	/1\	/2\	/3\	/4\	/5\	6	/7\	/8\	/ 9\
NO. 14 CONDUCTORS	7	7		7	7	7			<u> </u>
ø1 ***	3	3	7	3	3	3			
ø2 47	6	6	3	3	3	7	7		<u> </u>
ø3 «A	3	3		3	3	3	3		
ø4 «E	3	3	7	3	3	3	3	7	7
ø5 46	6	6	3	3	3	3	3	3	3
ø6 47	3	3		3	J	3	J	3	
φ7 φ8	3	3		3	7	7	7	7	-
90 92P			0		3	3	3	3	
Ø4P	4	4	2	2	2	2	2		-
	2	2		2	2	2	2	0	0
ø6P	2	2		2	2	2	2	2	2
ø2PPB	1	1		1	4	-			
ø4PPB	1	1		1	1	1	-	4	<u> </u>
ø6PPB	1	1	4	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	
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		
TOTAL PREEMPTION	4	4	1	3	3	2	1		
PERCENT FULL	21	21	19	15	22	19	16	15	15
CONDUIT SIZE	4"	4"	2"	4"	3"	3"	3"	3"	2"

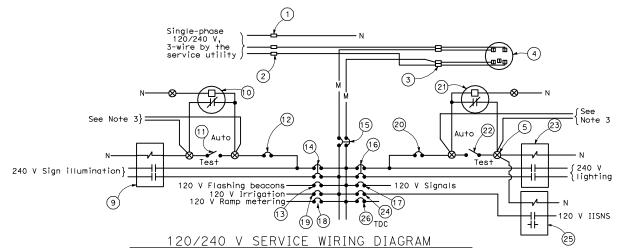
ALL CONDUITS AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.

APPLICABLE STANDARD PLANS (MAY 2006):

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

	POLE AND EQUIPMENT SCHEDULE										
STANDARD			VEH. SIGNAL PED SIGNAL MOUNTING		PPB						
NO	TYPE	SIG. MA (FEET)	LUM. MA (FEET)	HPS LUM. WATTAGE	MAST ARM	POLE	MOUNTING	ø	ARROW	SPECIAL REQUIREMENT*	
(4)	1-B	_	_	-	-	TV-2-T	-	2P	->		
®	19-4-100	30'	12'	200W	MAS	SV-1-T	SP-1-T	2P	<u> </u>	SNS TO READ "BUCHANAN STREET"	
0	15-TS	_	12'	310W	-	TV-2-T	SP-1-T	4P	_>		
0	27-4-100	40'	-	_	MAS	SV-1-T	SP-1-T	4P	-	SNS TO READ "JACKSON STREET"	
(E)	27-4-100	40'	-	-	MAS	SV-2-T	SP-1-T	6P	_>		
(Ē)	1-B	-	-	-	-	TV-1-T	-	6P	_		
©	1-B	-	-	-	_	TV-2-T	SP-1-T	-		SNS TO READ "BUCHANAN STREET". SPECIAL CARE SHOULD BE EXERCISED WHEN PLACING THIS POLE NEAR GAS LINE	
\oplus	23-4-100	35'	-	-	MAS	SV-1-T	SP-1-T	_	-	SNS TO READ "JACKSON STREET". INSTALL PEU ON TOP OF POLE	

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



	TYPE II-A SERVICE (120/240 V) EQUIPMENT LEGEND									
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		0	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		(P)	15 A, 120 V, 1P, CB	Lighting Control					
8	Grounding electrode		(21)	Photoelectric unit (Note 7)						
9	30 A, 2PNO Contactor	Sign Illumination	(2)	15 A, 1P, Test switch	Lighting Test Switch					
0	Photoelectric unit (Note 7)		(3)	60 A, 2PNO Contactor	Lighting					
(1)	15 A, 1P, Test switch	Sign Illumination Test Switch	(4)	15 A, 120 V, 1P, CB	IISNS					
2	15 A, 120 V, 1P, CB	Sign Illumination Control	(3)	30 A, 2PNO Contactor	IISNS					
(3)	15 A, 120 V, 1P, CB	Flashing Beacon	<u>@</u>	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet					

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

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

100% SUBMITTAL NOT FOR CONSTRUCTION

BUCHANAN/JACKSON TRAFFIC SIGNAL AND INTERSECTION SAFETY IMPROVEMENTS

CITY OF ALBANY CONTRACT NO. C10-22

PREPARED FOR CITY OF ALBANY, CALIFORNIA COMMUNITY DEVELOPMENT DEPARTMENT



DESIGNER:

AECOM

2101 WEBSTER STREET, SUITE 1900 OAKLAND, CALIFORNIA 94612 PHONE: 510-763-2929 FAX: 510-834-5220

REGISTRATION:



12/03/10 REVISED 100% DESIGN - 10/06/10 REVISED 100% DESIGN - 04/15/10 100% DESIGN REV DATE DESCRIPTION PROJECT NO: 60051218 DRAWN BY: P. ARIGO CHECKED BY: G. RUBENDALL SCALE: NTS DRAWING DATE: 12/03/2010

DRAWING TITLE:

KEY PLAN:

BUCHANAN/JACKSON Traffic Signal Schedule and Details

DRAWING NUMBER:

SHEET 9 OF 10 REV XXX

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