

**ABBREVIATIONS**

AP	ANGLE POINT
ARV	AIR RELIEF VALVE
AR	HANDICAP ACCESS RAMP
BFP	BACK FLOW METER
BSC	BLUE STAKE COMMUNICATIONS
BSE	BLUE STAKE ELECTRIC
BSG	BLUE STAKE GAS
BSS	BLUE STAKE SEWER
BSW	BLUE STAKE WATER
BWF	BARR WIRE FENCE
CALC	CALCULATED
CATV	CABLE TELEVISION BOX
CB	CATCH BASIN
C/L	CONTROL LINE
CMH	COMMUNICATIONS MANHOLE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
CSTG	SURVEY MONUMENTS IN CASTING CWAULT
CWAULT	COMMUNICATIONS VAULT
D	DUMPSTER
DW	DRIVEWAY
DWELL	DRY WELL
EDR	EDGE OF DIRT ROAD
EGD	EDGE OF GRAVEL DRIVE
EMH	ELECTRIC MANHOLE
EP	EDGE OF PAVEMENT
EPD	EDGE OF PAVED DRIVE
EPED	ELECTRIC PEDESTAL
ECAB	ELECTRIC CABINET
EWALUT	ELECTRIC VAULT
FD	FOUND POINT
FDF	FINISH FLOOR ELEVATION
FEE	FIBER OPTICS
FL	FLOW LINE
FL	GATE VALVE
GATEV	GRADE BREAK
GB	GUARD RAIL
GRAIL	GAS METER
GM	GAS REGULATOR
GR	GUTTER
G	TELEPHONE POLE GUIDE WIRE
GUY	GAS VALVE
GV	GAS VALVE
GVALUT	HOSE BIB
HB	HOUSE CONNECTION SEWER
HCS	HEADER
HDR	

**DESCRIPTION**

FH	FIRE HYDRANT
ICV	IRRIGATION CONTROL VALVE
MB	MAILBOX
MH	MANHOLE
OHE	OVERHEAD ELECTRIC
PAV'T	PAVEMENT SPOT ELEVATION
POL	POINT ON LINE
PP	POWER POLE
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RR	RADIUS POINT
RR	RAILROAD
RET WL	RETAINING WALL
RWMH	RECLAIMED WATER MANHOLE
RWV	RECLAIMED WATER VALVE
SDMH	STORM DRAIN MANHOLE
SHLDR	SHOULDER
INV	SAINTARY SEWER INVERT ELEVATION
SM	SURVEY MONUMENT
SMH	SEWER MANHOLE
SW	SIDEWALK
TC	TOP OF BANK
TOB	TOP OF CURB
TMH	TELEPHONE MANHOLE
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TPED	TELEPHONE PEDESTAL
TR	TRANSFORMER
TSB	TRAFFIC SIGNAL BOX
TSP	TRAFFIC SIGNAL POLE
VG	VALLEY GUTTER
WH	WEEP HOLE
WM	WATER METER
WMH	WATER MANHOLE
WT	WATER TANK

EARTHWORK FACTORS (PRELIMINARY)		
STATION	SHRINK/SWELL	GROUND COMPACTON
ENTIRE PROJECT	15% SHRINK	0.1'

**EARTHWORK QUANTITIES**  
(PRELIMINARY, NOT ADJUSTED)

DESCRIPTION	ALTERNATIVE 1		ALTERNATIVE 2		ALTERNATIVE 3	
	CUT C.Y.	FILL C.Y.	CUT C.Y.	FILL C.Y.	CUT C.Y.	FILL C.Y.
ROADWAY	3,474	48,060	68	38,715	597	56,618
BANK PROTECTION	64,234	30,910	51,150	24,614	79,307	38,162
IMPORT VOLUME		75,495	63,260		94,780	

**LENGTH OF PROJECT**

ALTERNATIVE 1: STA 23+32.94 THRU STATION 56+93.42 = 3,260 FEET  
 NET & GROSS LENGTH = 0.62 MILES  
 ALTERNATIVE 2: STA 23+30.00 THRU STA 49+25.81 = 2,596 FEET  
 STA 23+30.00 THRU STA 58+39.13 = 3,509 FEET  
 NET LENGTH = 0.49 MILES  
 GROSS LENGTH = 0.66 MILES  
 ALTERNATIVE 3: STA 23+30.00 THRU STATION 63+54.91 = 4,025 FEET  
 NET & GROSS LENGTH = 0.76 MILES

**DESIGN DATA**

ROADWAY	DESIGN VEHICLE	DESIGN SPEED, MPH	POSTED SPEED, MPH
PALO PARADO ROAD (ALTERNATIVE 1)	WB-40	55	45-35
PALO PARADO ROAD (ALTERNATIVE 2)	WB-40	55	45-35
PALO PARADO ROAD (ALTERNATIVE 3)	WB-40	55	45
PALO PARADO ROAD (ALTERNATIVE 3)	WB-40	35	30
PALO PARADO ROAD (ALTERNATIVE 3)	WB-40	45	35

**LEGEND**

	NEW PAVEMENT
	EXISTING FENCE
	STREET CENTERLINE
	RIGHT-OF-WAY
	EXISTING WATER LINE
	MONUMENT FOUND AS NOTED
	EXISTING SURVEY MONUMENT
	NEW SURVEY MONUMENT
	EXISTING GAS LINE
	EXISTING OVERHEAD POWER POLE
	EXISTING OVERHEAD ELECTRIC/ CABLE TV
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING UNDERGROUND ELECTRIC
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