

GNSS PROJECT CONTROL MONUMENTS - NAD83(2011) EPOCH 2010.00													
POINT		NAD83(2011) GEODETIC COORDINATES			NETWORK ACCURACY (2σ)		CCS83, ZONE 1 EPOCH 2010.00		ORTHO HEIGHT				
	PID	LATITUDE	LONGITUDE	ELLIP. HT.	CIRCULAR ERROR(cm)	HEIGHT (cm)	NORTHING	EASTING	ELEVATION	DESCRIPTION	CGF	MAP ANGLE	MONUMENTATION TYPE
PORTOLA	DH6429	39°48'25.72319"	-120°29'03.83972"	4751.795	0.63	1.00	1816713.547	6987475.695	4828.346	FOUND CADT ALUMINUM DISK IN WELL PER NGS DATA SHEET	0.9998269559	0°59'27.7"	PRIMARY
9-70-66.72 GPS		39°47'01.24481"	-120°37'08.29917"	4355.440	1.19	1.07	1807541.075	6949805.578	4432.015	FOUND 2 1/4" CADT BRASS DISK IN CONCRETE PER 16 RS 98-99 (SEE SURVEY NOTE 3)	0.9998532459	0°54'10.9"	PRIMARY
9-89-8.44 GPS		39°46'51.05287"	-120°37'18.67687"	4291.087	0.73	0.85	1806497.093	6949011.682	4367.688	FOUND 2 1/4" CADT BRASS DISK IN CONCRETE PER 16 RS 98-99 (SEE SURVEY NOTE 3)	0.9998572192	0°54'04.1"	PRIMARY
HPGN D CA 03 MN	AE9837	39°46'37.67623"	-120°33'57.67080"	4812.969	0.41	0.84	1805395.472	6964725.592	4889.551	FOUND CADT ALUMINUM DISK IN ROCK PER NGS DATA SHEET	0.9998334545	0°56'15.6"	PRIMARY
GRAEAGLE		39°46'01.74678"	-120°37'00.85166"	4306.158	0.52	0.55	1801530.203	6950481.986	4382.793	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998608731	0°54'15.8"	PROJECT
9-89-6.32 GPS		39°45'25.47310"	-120°36'08.11570"	4343.509	0.55	0.61	1797925.361	6954658.273	4420.168	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998623415	0°54'50.3"	PROJECT
9-89-5.47 GPS		39°44'53.10263"	-120°35'31.41764"	4351.409	0.58	0.64	1794695.989	6957576.787	4428.101	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998648933	0°55'14.3"	PROJECT
9-89-4.55 GPS		39°44'24.68131"	-120°34'56.84837"	4314.370	0.49	0.52	1791863.844	6960323.305	4391.104	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998692557	0°55'36.9"	PROJECT
9-89-3.89 GPS		39°44'04.81810"	-120°34'26.55718"	4356.738	0.43	0.43	1789892.473	6962722.145	4433.504	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998690529	0°55'56.7"	PROJECT
CALFPASTURE	DH6419	39°43'58.88107"	-120°33'26.82081"	4393.075	0.49	0.88	1789368.154	6967398.581	4469.891	FOUND CADT BRASS DISK IN HEADWALL PER NGS DATA SHEET	0.9998678624	0°56'35.7"	PRIMARY
9-89-1.99 GPS		39°43'28.30216"	-120°32'44.07185"	4472.344	0.58	0.67	1786329.393	6970789.519	4549.173	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998669008	0°57'03.7"	PROJECT
9-89-0.79 GPS		39°42'48.77388"	-120°32'02.42445"	4511.157	0.64	0.88	1782384.158	6974110.364	4587.967	2 1/4" CADT BRASS DISK IN CONCRETE	0.9998687325	0°57'30.9"	PROJECT
9-89-0.02 GPS		39°42'13.79991"	-120°31'42.22294"	4614.188	0.58	0.94	1778871.957	6975748.405	4690.960	2 1/4" CADT BRASS DISK IN ASPHALT	0.9998670997	0°57'44.1"	PROJECT
THUMPER	DH6432	39°40'44.82910"	-120°29'24.38668"	5221.643	0.46	0.86	1770053.227	6986675.963	5298.355	FOUND CADT ALUMINUM DISK IN WELL PER NGS DATA SHEET	0.9998465652	0°59'14.3"	PRIMARY

SURVEY NOTES:

1. CADT IS AN ACRONYM FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION A.K.A CALTRANS.
2. ALL COORDINATES AND DISTANCES SHOWN ARE IN TERMS OF THE U.S. SURVEY FOOT UNLESS NOTED OTHERWISE.
3. ORTHOMETRIC HEIGHTS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 DERIVED USING GEOID MODEL GEOID18.
NOTE: TO PRESERVE CONTINUITY BETWEEN RELATED PROJECTS IN THIS AREA, THE GEOID 12B ORTHOMETRIC HEIGHTS WERE HELD ON POINTS 9-70-66.72 GPS AND 9-89-8.44 GPS (16 RS 98-99) FOR THIS ADJUSTMENT.
4. COORDINATE ERRORS ARE CALCULATED PER THE STANDARDS SET BY THE FEDERAL GEOGRAPHIC DATA COMMITTEE'S GEOSPATIAL POSITIONING ACCURACY STANDARDS, SPECIFICALLY FGDC-STD-007.3-1998 (PART 3 NATIONAL STANDARD FOR SPATIAL DATA ACCURACY).
5. ALL PRIMARY AND PROJECT CONTROL MONUMENTS ESTABLISHED BY THIS SURVEY CONFORM TO THE STANDARDS OF 0.07' (2CM) NETWORK ACCURACY, OR HIGHER, FOR HORIZONTAL POSITIONAL ACCURACY AS SET FORTH IN CHAPTER 5 OF THE CALTRANS SURVEYS MANUAL (2015) UNLESS NOTED OTHERWISE.
6. PRIMARY, PROJECT, AND SUPPLEMENTAL MONUMENT TYPES ARE FURTHER DEFINED IN SECTION 5.8, CHAPTER 5 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION SURVEYS MANUAL (2015).
7. THIS SURVEY WAS CONDUCTED UTILIZING STATIC GPS SURVEY METHODS IN ACCORDANCE WITH CHAPTER 6 OF THE CALTRANS SURVEYS MANUAL (2012 CALIFORNIA DEPARTMENT OF TRANSPORTATION). FIELD MEASUREMENTS WERE COLLECTED USING TRIMBLE R10 GNSS ANTENNAS. THE GNSS DATA WAS PROCESSED AND THE SURVEY NETWORK WAS ADJUSTED (USING A LEAST SQUARES ADJUSTMENT) IN TRIMBLE BUSINESS CENTER VERSION 2023.11 SOFTWARE.
8. COMBINED GRID FACTORS SHOWN FOR NGS MONUMENTS DIFFER FROM VALUES LISTED ON NGS DATA SHEETS. THE VALUES SHOWN HEREON ARE DERIVED FROM TRIMBLE BUSINESS CENTER. THE DIFFERENCE IN VALUES IS DUE TO UTILIZATION OF DIFFERENT METHODS TO COMPUTE ELEVATION FACTORS BY TRIMBLE BUSINESS CENTER AND NGS.

STATE OF CALIFORNIA CALIFORNIA STATE TRANSPORTATION AGENCY DEPARTMENT OF TRANSPORTATION, DISTRICT 2			
RECORD OF SURVEY FOR GNSS PROJECT CONTROL ON NAD83(2011), EPOCH 2010.00			
IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF PLUMAS, STATE OF CALIFORNIA, ALONG STATE ROUTE 89, FROM POSTMILE 0.02 TO 8.70 SITUATED IN SECTIONS 4,5 T21N R13E; 31,32 T22N R13E; 10,15,23,25 T22N R12E OF THE MOUNT DIABLO BASE AND MERIDIAN			
EA:	3H950	EFIS:	0218000057
CO.	RTE.	P.M.	SHEET NO.
PLU	89	0.02-8.70	2 OF 2

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