

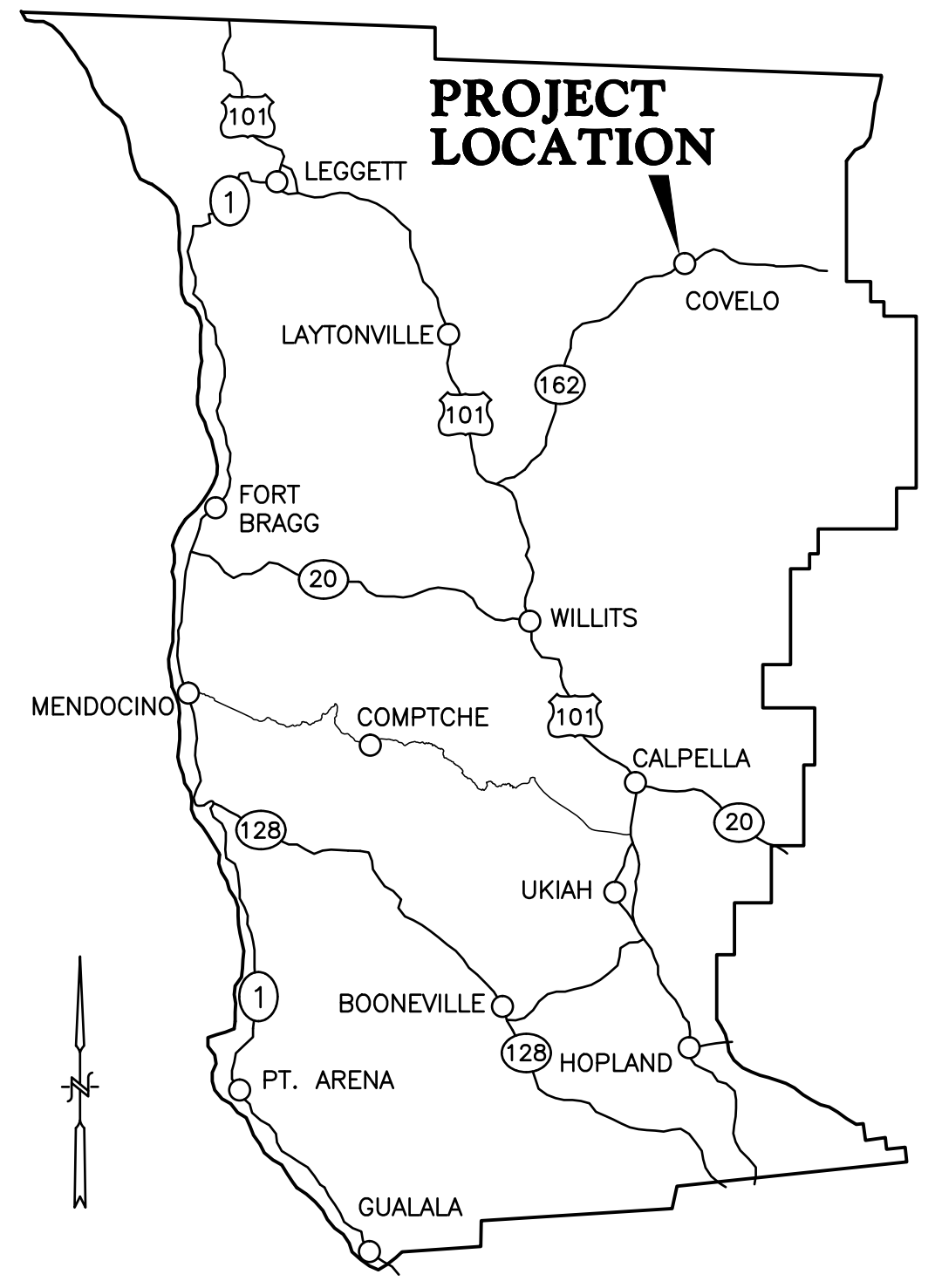
# COVELO/ ROUND VALLEY NON-MOTORIZED NEEDS ASSESSMENT AND ENGINEERED FEASIBILITY STUDY

PREPARED FOR  
**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
AND MENDOCINO COUNCIL OF GOVERNMENTS**

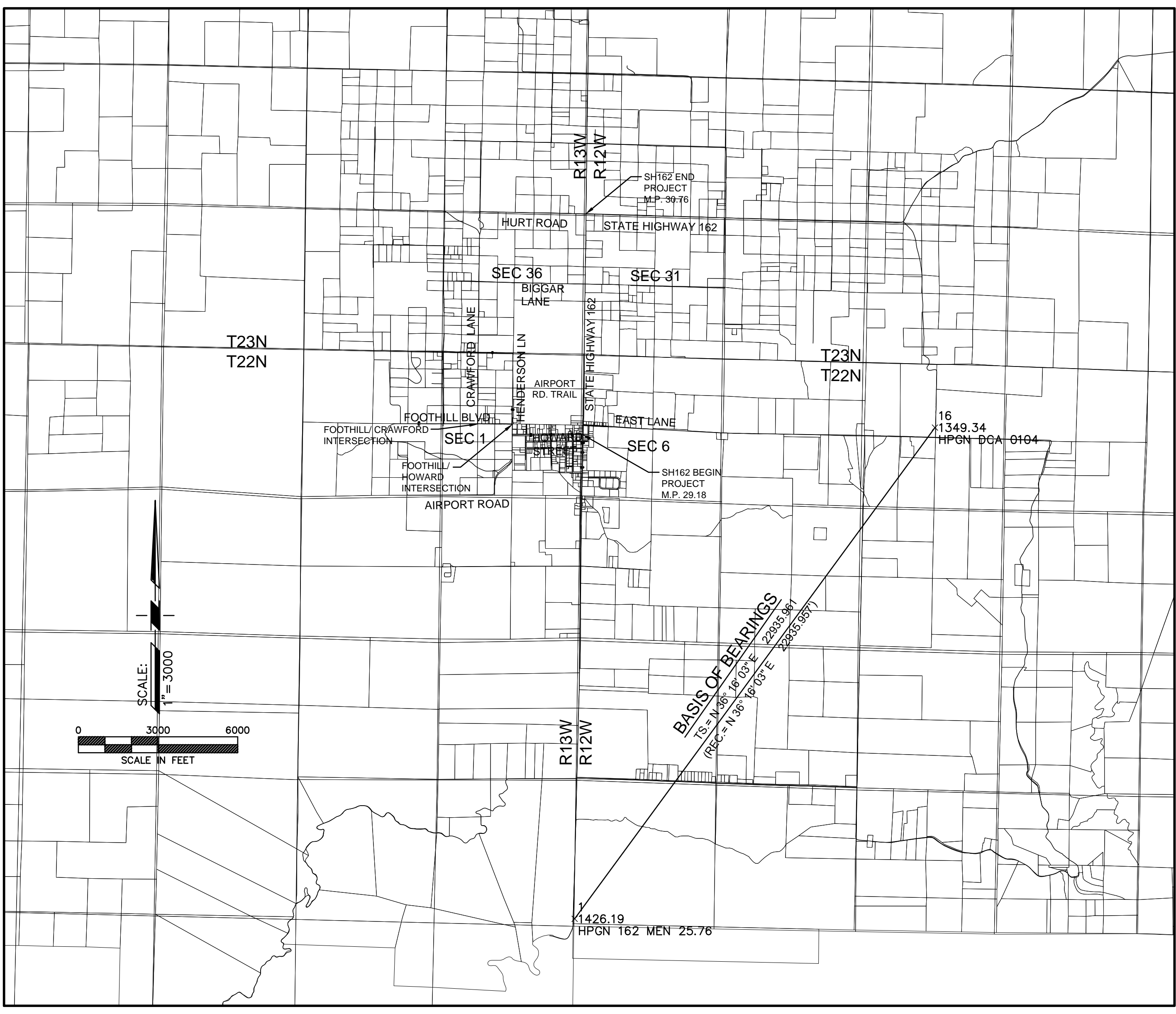
PREPARED BY



OCTOBER 2013



**MENDOCINO COUNTY MAP**  
NOT TO SCALE



**SHEET INDEX**

SHEET #	DRAWING	DESCRIPTION
<b>GENERAL</b>		
1	1	COVER SHEET
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**MENDOCINO COUNTY**



**HORIZONTAL BASIS AND VERTICAL DATUM:**

BEARINGS AND DISTANCES ARE IN GRID.

HORIZONTAL DATUM-BETWEEN FOUND HPGN POINTS DESIGNATED AS 162 MEN 25.76 AND HPGN D CA 01 04. USE COMBINED SCALE FACTOR 0.99992445 WITH EPOCH DATE 2010.00. USE RECIPROCAL 1.0000755557 TO ACHIEVE GROUND DISTANCES.

VERTICAL DATUM-NAVD 1988, BASED ON NGS BENCH MARK DESIGNATED AS R 633 RESET 1956 ELEVATION= 1417.5.

RECORD DISTANCE BETWEEN HPGN 162 MEN 25.76 AND HPGN D CA 01 04= N36°16'03"E, 22,935.957 FEET - T.S. 22,935.961 FEET.

**VERTICAL DATUM: R 633 RESET 1956 ELEV. =1417.5' - CONTROL POINT #92**  
0.5 MILE WEST ALONG HOWARD STREET FROM THE POST OFFICE AT COVELO, THENCE 0.6 MILE SOUTHWEST ALONG AIRPORT ROAD, AT THE COVELO AIRPORT, ABOUT 0.4 MILE WEST OF THE HANGAR, 8.2 FEET WEST OF THE WINDSOCK, 2.0 FEET EAST OF A WITNESS POST, AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.5 FEET ABOVE THE GROUND.

**ALTERNATE VERTICAL DATUM: 19 S USGS; DO NOT USE PUBLISHED DATUM OF 1404.6 - THIS PROJECT ELEVATION = 1400.85'**  
AT THE BANK OF COVELO, IN THE EAST WALL, 1 FOOT SOUTH OF THE NORTHEAST CORNER OF THE BUILDING, AND 4.2 FEET ABOVE THE SIDEWALK. A UNITED STATES GEOLOGICAL SURVEY STANDARD DISK, STAMPED 19 S 1924 AND SET VERTICALLY.

**LOCATION OF 162 MEN 25.76 - CONTROL POINT #1**  
TO REACH THE STATION FROM THE INTERSECTION OF HIGHWAYS 101 AND 162 PROCEED 25.76 MI (41.73 KM) NORTHEASTERLY ALONG HIGHWAY 162 TO A GRAVEL ROAD AT POST MILE 25.76 AND THE STATION ON THE EAST SIDE OF HWY 162 THAT HEADS SOUTHERLY.  
THE STATION IS A SURVEY DISK ENCASED WITH PVC PIPE WITH ACCESS COVER SET IN CONCRETE FLUSH WITH THE GROUND. 0.9 M EAST OF A STEEL FENCE POST AND CARSONITE MARKER, 16.3 M EAST OF THE CENTERLINE OF HIGHWAY 162 AT THE EASTERLY EDGE OF THE GRAVEL ROAD, AND 45.7 M EAST OF THE EDGE OF PAVEMENT OF HIGHWAY 162.  
THE STATION IS LOCATED NEAR THE NORTH END OF A LONG DOWNGRADE (HILL) AND THE SOUTHERND OF A LONG LEVEL STRETCH OF HIGHWAY, APPROXIMATELY 265' SOUTH OF THE 'WELCOME TO ROUND VALLEY' SIGN.

**LOCATION OF HPGN- D CA 01 04 - CONTROL POINT #16**  
THE STATION IS LOCATED IN ROUND VALLEY ABOUT 2.5 MI (4.0 KM) EAST OF COVELO. TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 162 (POST MILE 29.25) AND EAST LANE IN COVELO, GO EAST ON EAST LANE FOR 2.5 MI (4.0 KM) TO SHORT CREEK ROAD ON THE LEFT. TURN LEFT AND GO NORTH ON SHORT CREEK ROAD FOR 355 FEET (108.2 M) TO THE STATION ON THE LEFT. THE STATION IS A 2.5 INCH ALUMINUM DISK INSIDE A 6 INCH ALUMINUM ACCESS COVER. LOCATED 22.5 FEET (6.9 M) WEST OF THE CENTERLINE OF SHORT CREEK ROAD AND 2 FT (0.6 M) EAST OF THE FENCE AND A FIBERGLASS WITNESS POST.



BY: \_\_\_\_\_

REVISION \_\_\_\_\_

DATE \_\_\_\_\_

COMPUTER NO. \_\_\_\_\_

PATH: Z:\R12007\G03

FILE: \_\_\_\_\_

PSVIEW: \_\_\_\_\_

MSVP: \_\_\_\_\_

MSVIEW: \_\_\_\_\_

DRAWING: COVER SHEET

PROJECT: COVELO/ ROUND VALLEY ENGINEERED FEASIBILITY STUDY

**RAU AND ASSOCIATES INC.**  
CIVIL ENGINEERS • LAND SURVEYORS  
100 NORTH PINE STREET • (707) 462-6536 • UKIAH, CA 95482

OWNER: CALTRANS

LOCATION: STATE HIGHWAY 162  
M.P. 29.18-30.76 IN COVELO, CA

DATE: OCT. 2013

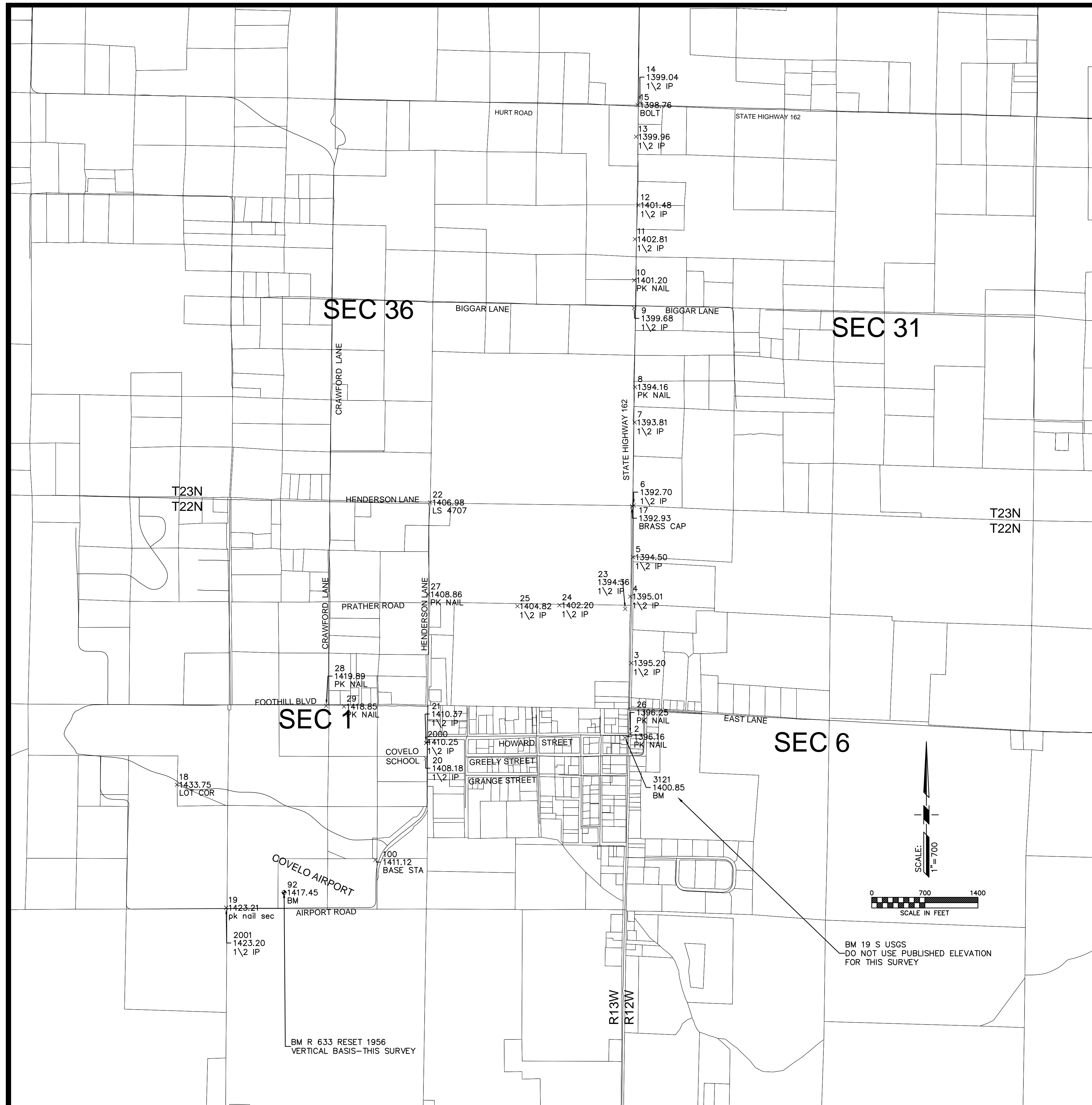
SCALE: AS SHOWN

DRAWN: J CJ

CHECKED: GCR

JOB NO. R12007.1 & 2

SHEET **1** of 2 SHEETS



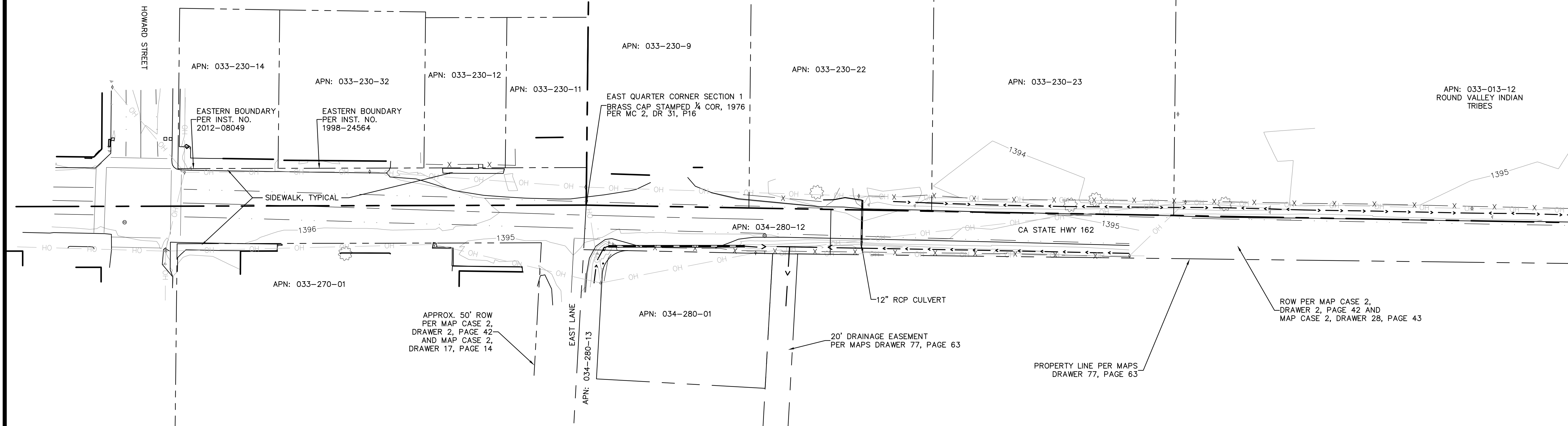
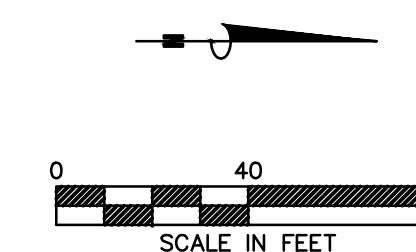
# DOWNTOWN COVELO, CA

## CONTROL SCHEDULE

Point Table				
Point #	Northing	Easting	Description	Elevation
1	2399448.17	6210647.43	HPGN 162 MEN 25.76	1426.19
2	2417698.55	6210973.17	PK NAIL	1396.16
3	2418634.87	6210988.57	1/2 IP	1395.20
4	2419512.47	6210972.58	1/2 IP	1395.01
5	2420031.06	6211011.35	1/2 IP	1394.50
6	2420713.23	6211020.17	1/2 IP	1392.70
7	2421808.06	6211032.24	1/2 IP	1393.81
8	2422273.56	6211038.20	PK NAIL	1394.16
9	2423315.22	6211023.48	1/2 IP	1399.68
10	2423680.79	6211024.44	PK NAIL	1401.20
11	2424222.11	6211034.62	1/2 IP	1402.81
12	2424671.59	6211079.08	1/2 IP	1401.48
13	2425572.58	6211049.24	1/2 IP	1399.96
14	2426024.10	6211100.93	1/2 IP	1399.04
15	2425990.68	6211070.63	BOLT	1398.76
16	2417940.60	6224215.34	HPGN DCA 0104	1349.34
17	2420702.45	6210996.95	BRASS CAP	1392.93
18	2417031.19	6204997.44	LOT COR	1433.75
19	2415410.19	6205646.82	pk nail sec	1423.21
20	2417377.22	6208279.37	1/2 IP	1408.18
21	2417581.63	6208281.53	1/2 IP	1410.37
22	2420751.87	6208335.02	LS 4707	1406.98
23	2419349.28	6210907.03	1/2 IP	1394.36
24	2419397.94	6210040.12	1/2 IP	1402.20
25	2419385.13	6209486.02	1/2 IP	1404.82
26	2417698.54	6210973.17	PK NAIL	1396.25
27	2419540.53	6208309.39	PK NAIL	1408.86
28	2418070.91	6206965.00	PK NAIL	1419.89
29	2418062.04	6207199.99	PK NAIL	1418.85
92	2415611.02	6206410.36	BM	1417.45
100	2416040.29	6207612.63	BASE STA	1411.12
3121	2417651.59	6210904.10	BM	1400.85

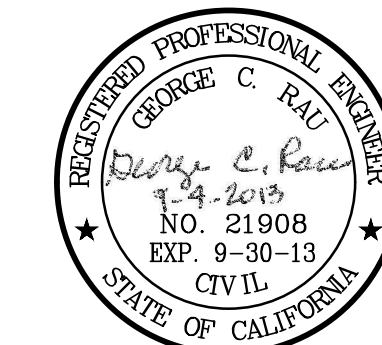


BY:	
REVISION	
DATE	
COMPUTER NO.	PATH: Z:\R12007\GCG
FILE:	PSVIEW
MSVP:	MSVIEW
DRAWING:	CONTROL MAP
PROJECT:	COVELO/ ROUND VALLEY ENGINEERED FEASIBILITY STUDY
OWNER:	CALTRANS
LOCATION:	STATE HIGHWAY 162 M.P. 29.18-30.76 IN COVELO, CA
DATE:	OCT. 2013
SCALE:	AS SHOWN
DRAWN:	JJR
CHECKED:	GCR
JOB NO.	R12007.1 & .2
SHEET	2 of 2
	SHEETS



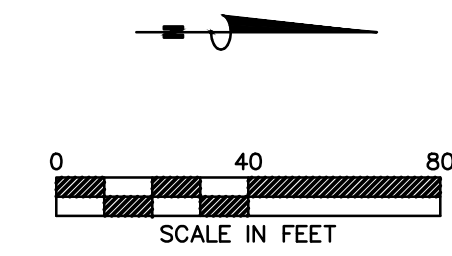
- ⊗ SEWER MANHOLE
- ⊗ FIRE HYDRANT
- ⊗ UTILITY POLE
- ⊗ SHRUB
- ⊗ TREE
- ⊗ GAS SERVICE
- ⊗ ELECTRIC UTILITY
- ⊗ WATER VALVE
- POST/ BOLLARD
- SS — SANITARY SEWER
- OH — OH — OVERHEAD UTILITY
- 222 — CONTOUR
- x — FENCE
- ■ ■ ■ ■ STORM DRAIN
- ⊗ SIGN
- ⊗ COMMUNICATIONS MANHOLE
- STORMDRAIN INLET
- ⊗ STORMDRAIN MANHOLE
- · · · — FOG LINE
- APPROXIMATE ROW PER 1778 O.R. 649, OR AS NOTED.
- SECTION LINES
- < — FLOWLINE DITCH
- RIGHT OF WAY NOTED ON SHEET 1 OF 18, MAP CASE 2, DRAWER 31, PAGE 16, AND AS SHOWN ON GLO MAP 3-F4 OF DIMINISHED ROUND INDIAN RESERVATION DATED JUNE 15, 1893 (TO BE VERIFIED BY FURTHER RESEARCH - JURISDICTION DIFFERENT FOR TRIBAL AND NON TRIBAL LANDS).
- APPROXIMATE ASSESSOR'S PARCEL BOUNDARY
- BUILDING LINE

RIGHT OF WAY BY CALIFORNIA LEGISLATION  
 THERE MAY BE A RIGHT OF WAY ESTABLISHED BY THE CALIFORNIA STATE LEGISLATURE ALONG THIS SEGMENT OF STATE HIGHWAY 162. SEVERAL TIMES IN THE LATE 1800s, EARLY 1900s THE LEGISLATURE PASSED LEGISLATION DECLARING THAT ALL COUNTY ROADS IN EXISTANCE AT THE TIME WERE GRANTED A RIGHT OF WAY OF A STATED WIDTH. IT WOULD REQUIRE RESEARCH INTO MENDOCINO COUNTY RECORDS TO ASCERTAIN IF THIS SEGMENT OF STATE HIGHWAY 162 WAS A COUNTY ROAD AT THE TIME OF ONE OF THESE ACTS.



DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	DRAWING:	Date:	<b>SHEET</b> <span style="font-size: 2em; font-weight: bold;">1</span> of <span style="font-size: 2em; font-weight: bold;">10</span> <b>SHEETS</b>
			PATH: Z:\P\CIVIL	CALTRANS	TOPOGRAPHIC SURVEY MAP	Scale: AS SHOWN	
			FILE: FILE NAME.DWG	LOCATION:	PROJECT:	Drawn: JCU	
			PSVIEW:	HIGHWAY 162 COVELO, CALIFORNIA	PEDESTRIAN PATHS	Checked: JCU	
			MSVP:			Reviewed: GCR	
			MSVIEW:			JOB NO. R12007	

**RAU AND ASSOCIATES INC.**  
 CIVIL ENGINEERS · LAND SURVEYORS  
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482



MATCHLINE SHEET 9

APN: 033-013-12  
ROUND VALLEY INDIAN  
TRIBES

APN: 033-013-02  
UNITED STATES OF  
AMERICA

CASINO

ECONOMIC CENTER

CA STATE HWY 162

FOUND 1/2" IRON PIPE  
FOR NW CORNER PARCEL 3  
PER MAP CASE 2,  
DRAWER 28, PAGE 43

24" CMP CULVERT

APN: 034-190-36

WESTERN BOUNDARY OF  
SUBDIVISION PARCELS  
PER MAP CASE 2,  
DRAWER 28, PAGE 43

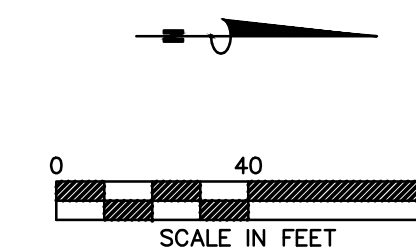
EDGE OF PAVEMENT

TO CULTURAL PERFORMANCE GROUNDS



DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	<p>CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482</p>	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<p>SHEET <b>2</b> of 10 SHEETS</p>	
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			PSVIEW:						Checked:		JCJ
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			MSVIEW:					JOB NO.:	R12007		

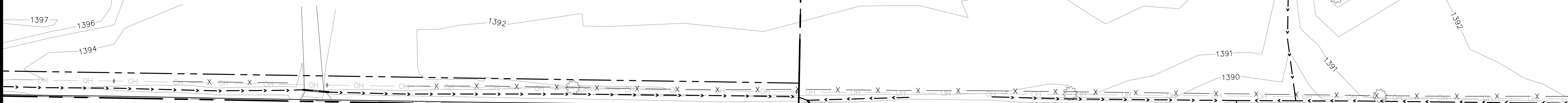




APN: 033-013-02  
UNITED STATES OF  
AMERICA

APN: 032-480-15  
DEWEY-WHITE

CASINO

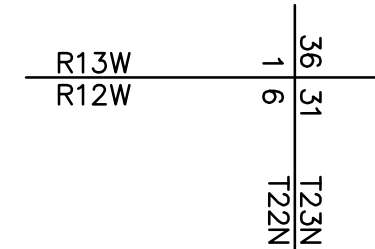


CA STATE HWY 162

12" CMP CULVERT

30" CMP CULVERT

SECTION CORNER 1, 6, 36, 31



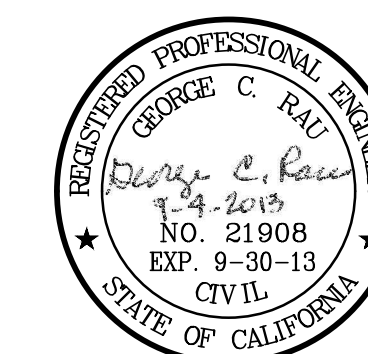
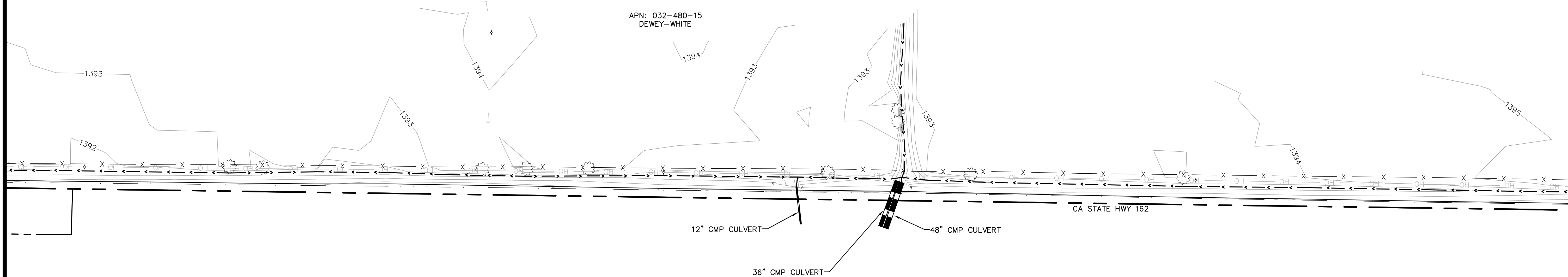
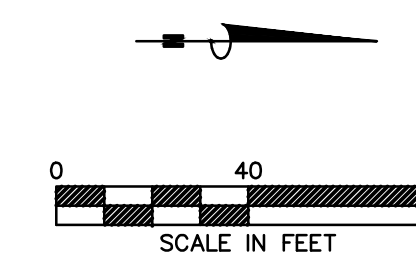
TOWNSHIP 23 NORTH  
TOWNSHIP 22 NORTH


RIGHT OF WAY NOTE

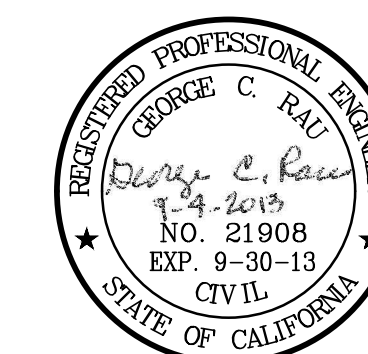
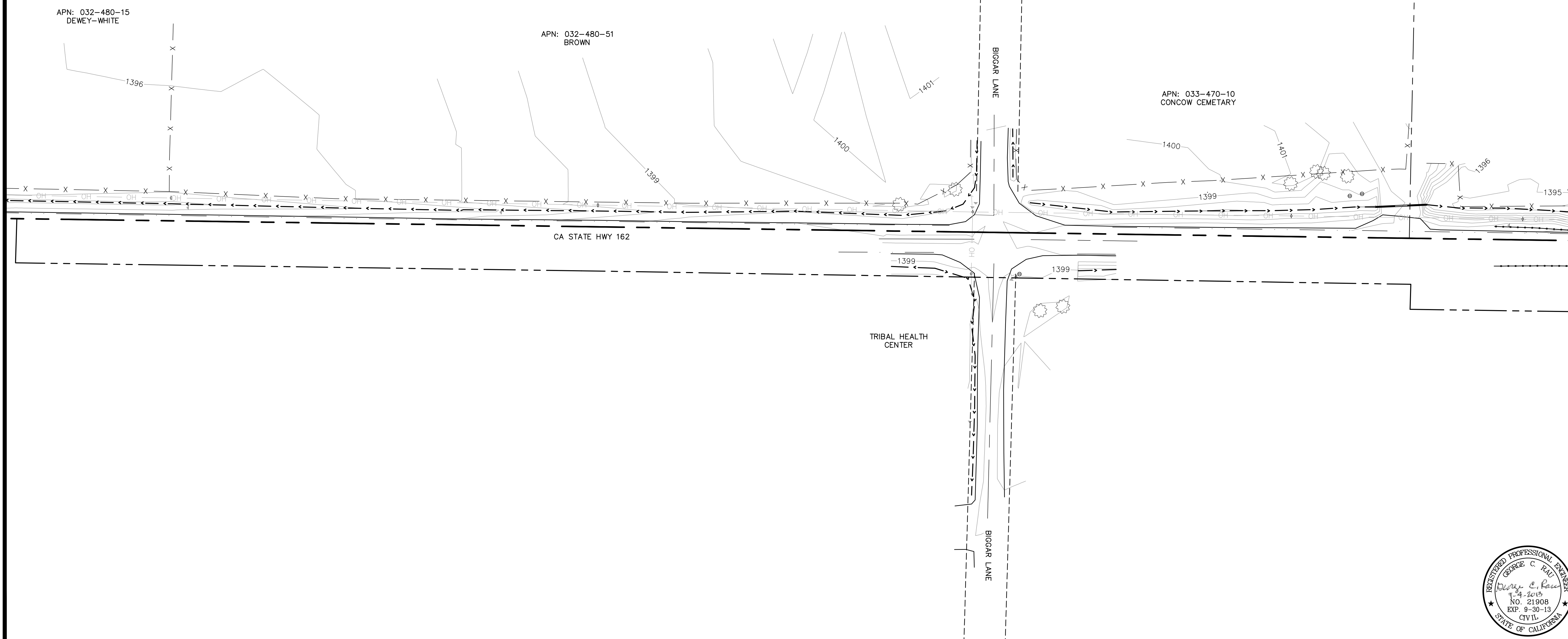
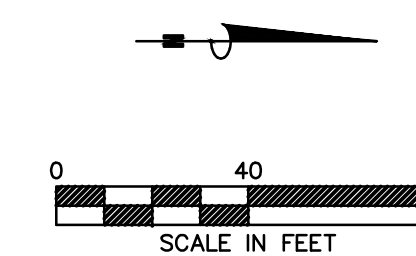
THERE IS AN EASEMENT ALONG THE SECTION LINE BETWEEN SECTION 36 AND SECTION 31, SHOWN ON THE GLO MAP 3-F4 OF THE DIMINISHED ROUND VALLEY INDIAN RESERVATION DATED JUNE 15, 1893. IT IS UNCLEAR IF THIS EASEMENT IS FOR THE SOLE BENEFIT OF THE UNITED STATES HOLDING LAND IN TRUST FOR THE TRIBES OR FOR OTHER ENTITIES AND INDIVIDUALS.



DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	 CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<b>SHEET</b> <b>3</b> of <b>10</b> <b>SHEETS</b>	
			PATH: Z:\P\CIVIL	LOCATION:		HIGHWAY 162 COVELO, CALIFORNIA	PROJECT:	PEDESTRIAN PATHS	Scale:		AS SHOWN
			FILE: FILE NAME.DWG						Drawn:		JCJ
			PSVIEW:						Checked:		JCJ
			MSVP:					Reviewed:	GCR		
			MSVIEW:					JOB NO.:	R12007		



DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	 <b>RAU AND ASSOCIATES INC.</b> CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<b>SHEET</b> <b>4</b> of <b>10</b> <b>SHEETS</b>	
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			PSVIEW:						Checked:		JCJ
			MSVP:					Reviewed:	GCR		
			MSVIEW:					JOB NO.:	R12007		



DATE:	REVISION:	BY:	COMPUTER NO. SERVER
			PATH: Z:\P\CIVIL
			FILE: FILE NAME.DWG
			PSVIEW:
			MSVP:
			MSVIEW:

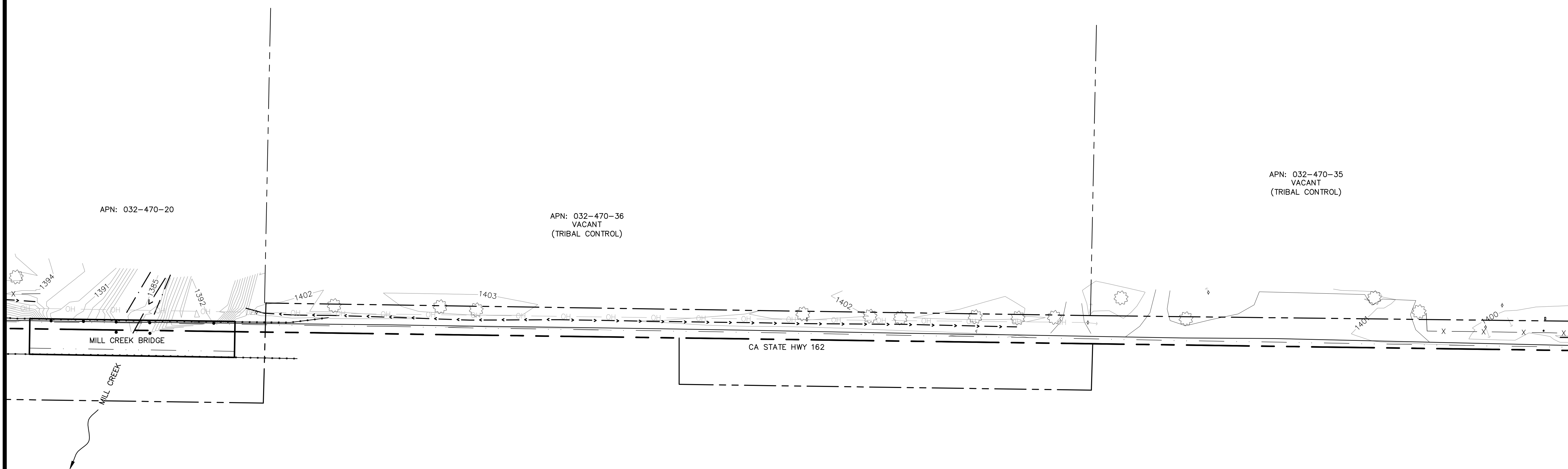
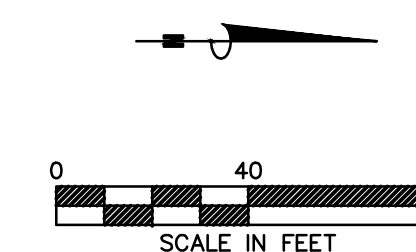
OWNER:	CALTRANS
LOCATION:	HIGHWAY 162 COVELO, CALIFORNIA

**RAU AND ASSOCIATES INC.**  
 CIVIL ENGINEERS · LAND SURVEYORS  
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482

DRAWING:	TOPOGRAPHIC SURVEY MAP
PROJECT:	PEDESTRIAN PATHS

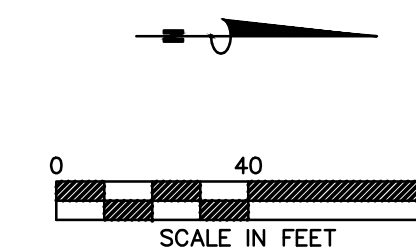
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Scale:	AS SHOWN
Drawn:	JCJ
Checked:	JCJ
Reviewed:	GCR
JOB NO.	R12007

**SHEET**  
**5** of **10**  
**SHEETS**

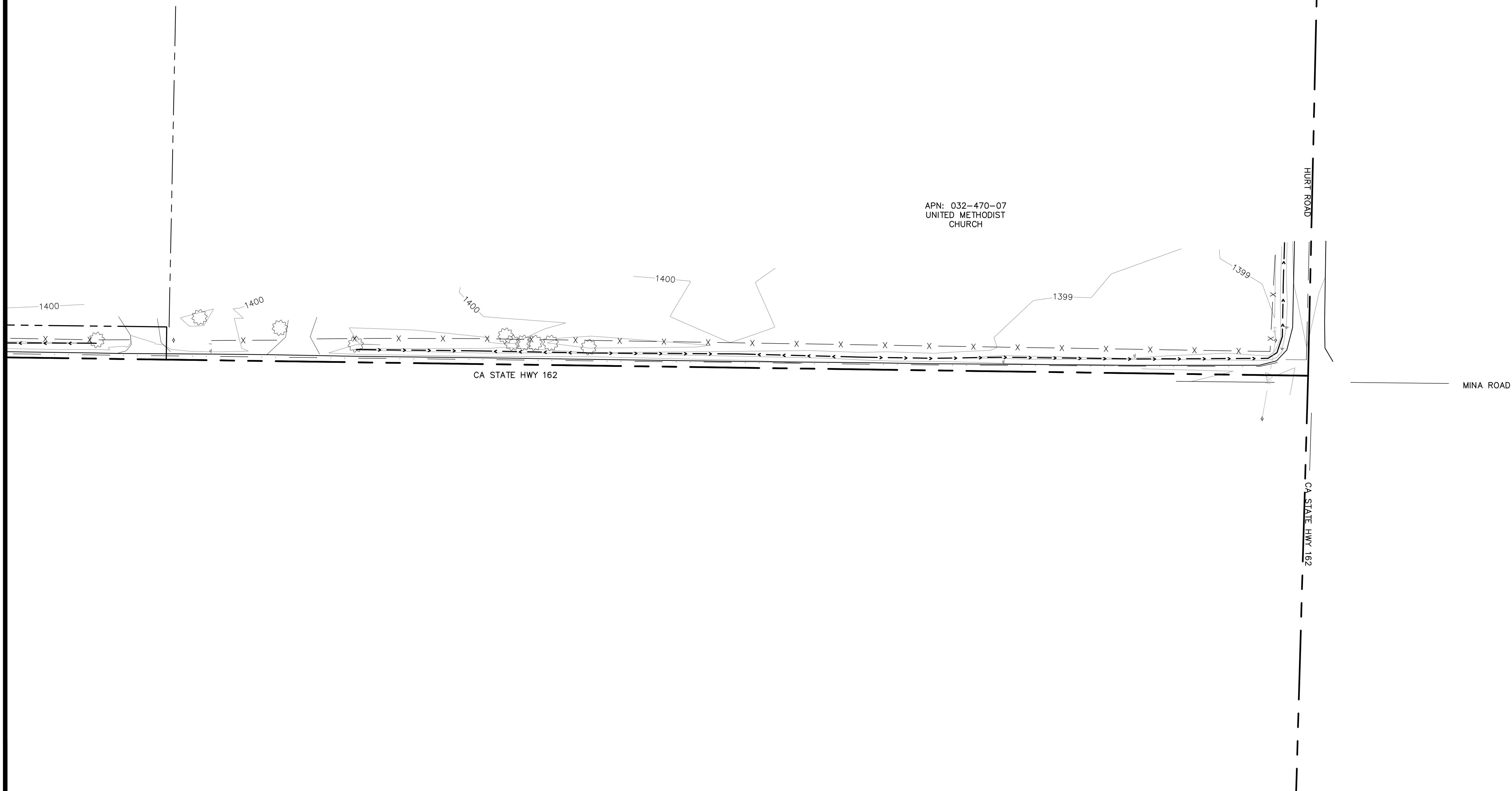


DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	<b>RAU AND ASSOCIATES INC.</b> CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<b>SHEET 6 of 10 SHEETS</b>	
			PATH: Z:\P\CIVIL	LOCATION:		HIGHWAY 162 COVELO, CALIFORNIA	PROJECT:	PEDESTRIAN PATHS	Scale:		AS SHOWN
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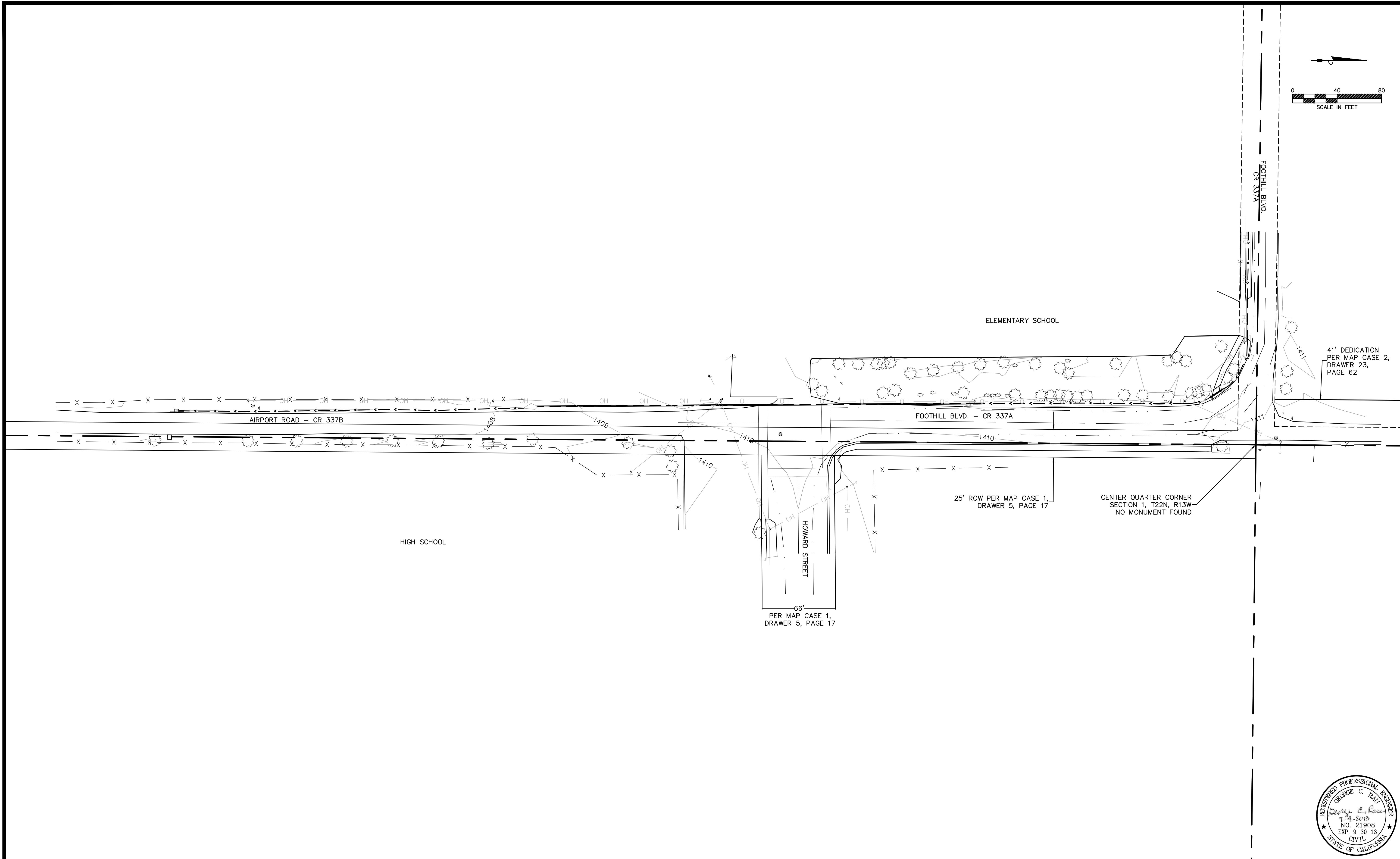
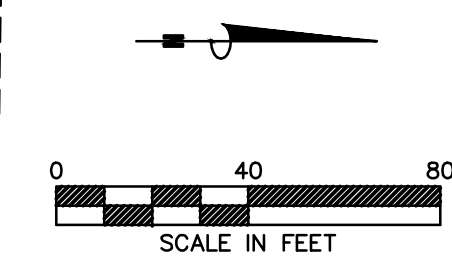




APN: 032-470-07  
UNITED METHODIST  
CHURCH

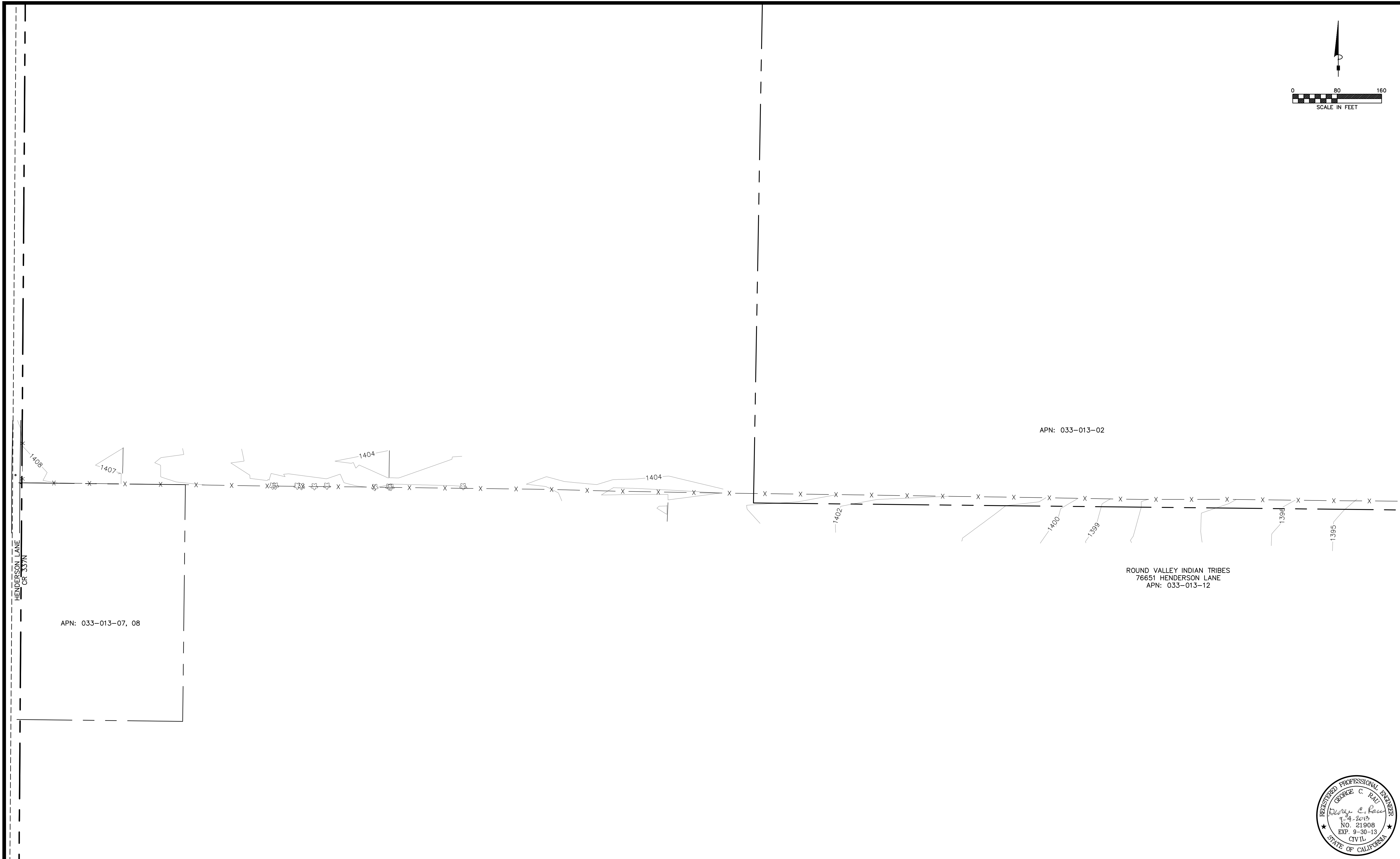
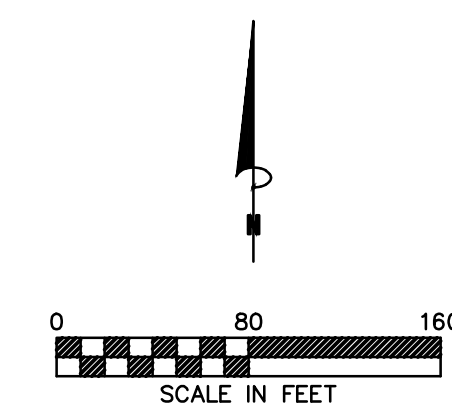


DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	<b>RAU AND ASSOCIATES INC.</b> CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<b>SHEET 7 of 10 SHEETS</b>	
			PATH: Z:\P\CIVIL	LOCATION:		HIGHWAY 162 COVELO, CALIFORNIA	PROJECT:	PEDESTRIAN PATHS	Scale:		AS SHOWN
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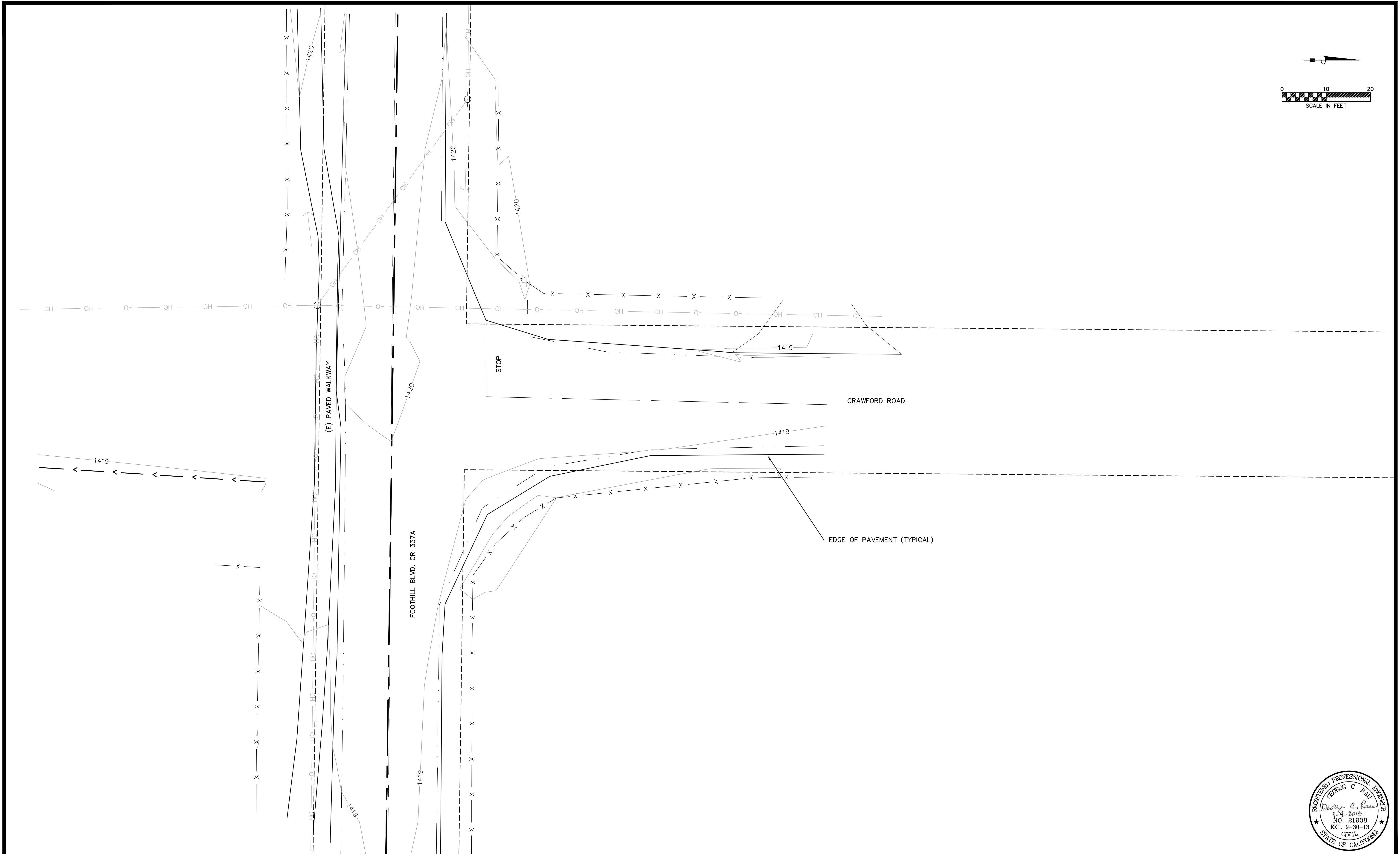
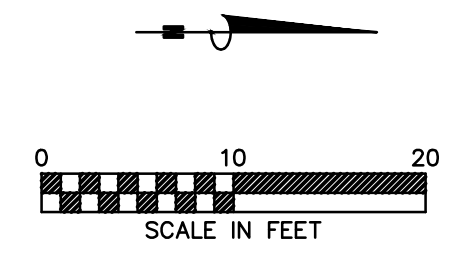


DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	DRAWING:	Date:	<b>SHEET</b> <b>8</b> of <b>10</b> <b>SHEETS</b>
			PATH: Z:\P\CIVIL	MENDOCINO COUNTY	TOPOGRAPHIC SURVEY MAP	MAR. 2013	
			FILE: FILE NAME.DWG	LOCATION:	PROJECT:	Scale: AS SHOWN	
			PSVIEW:	AIRPORT ROAD	PEDESTRIAN PATHS	Drawn: JCU	
			MSVP:	COVELO, CALIFORNIA		Checked: JCU	
			MSVIEW:			Reviewed: GCR	
						JOB NO. R12007	

**RAU AND ASSOCIATES INC.**  
 CIVIL ENGINEERS · LAND SURVEYORS  
 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482



DATE:	REVISION:	BY:	COMPUTER NO. SERVER	OWNER:	<b>RAU AND ASSOCIATES INC.</b> CIVIL ENGINEERS · LAND SURVEYORS 100 NORTH PINE STREET · (707) 462-6536 · UKIAH, CA 95482	DRAWING:	TOPOGRAPHIC SURVEY MAP	Date:	MAR. 2013	<b>SHEET</b> <b>9</b> of <b>10</b> <b>SHEETS</b>	
			PATH: Z:\P\CIVIL	LOCATION:		FIELD COVELO, CALIFORNIA	PROJECT:	PEDESTRIAN PATHS	Scale:		AS SHOWN
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			PSVIEW:						Checked:		JCJ
			MSVP:					Reviewed:	GCR		
			MSVIEW:					JOB NO.:	R12007		



DATE:	REVISION:	BY:	COMPUTER NO. SERVER
			PATH: Z:\P\CIVIL
			FILE: FILE NAME.DWG
			PSVIEW:
			MSVP:
			MSVIEW:


OWNER: MENDOCINO COUNTY

LOCATION: AIRPORT ROAD  
COVELO, CALIFORNIA

**RAU AND ASSOCIATES INC.**  
 CIVIL ENGINEERS · LAND SURVEYORS  
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DRAWING: TOPOGRAPHIC SURVEY MAP

PROJECT: PEDESTRIAN PATHS

Date: MAR. 2013  
 Scale: AS SHOWN  
 Drawn: JCU  
 Checked: JCU  
 Reviewed: GCR  
 JOB NO. R12007

**SHEET 10 of 10 SHEETS**