

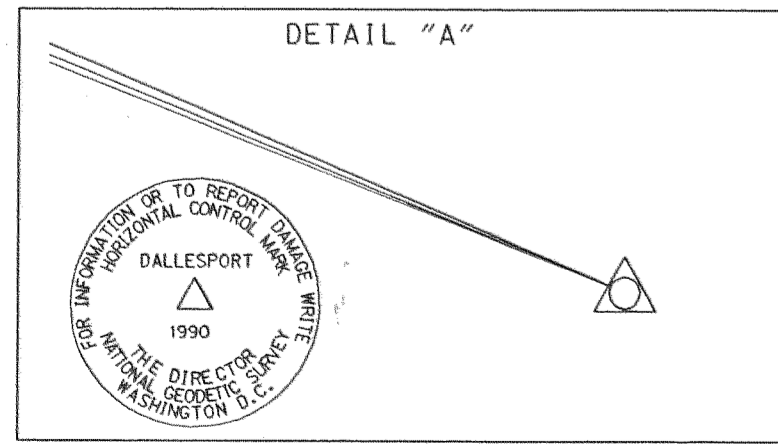
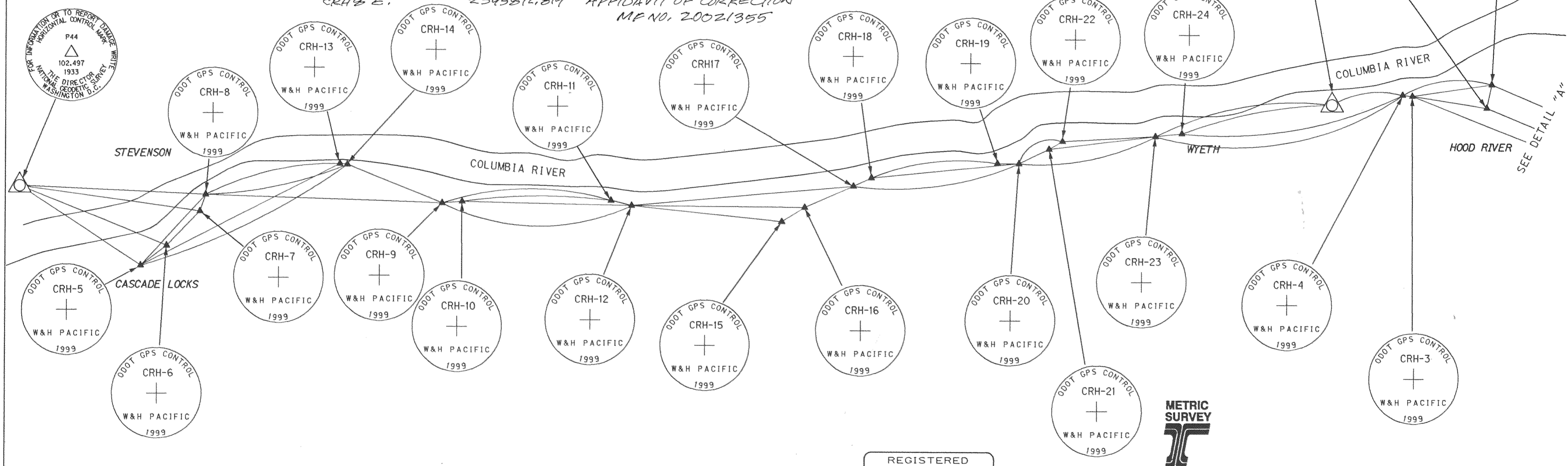
STATION NAME	NAD83[91] LATITUDE	NAD83[91] LONGITUDE	SPC OR N NORTHING (METERS)	SPC OR N EASTING (METERS)	NAVD ORTHO ELEV (METERS)	SCALE FACTOR	LOCAL DATUM PLANE COORD. NORTHING (METERS)	LOCAL DATUM PLANE COORD. EASTING (METERS)	STATION DESCRIPTION
CRH 1	45°42'53.34482" N	121°30'41.12376" W	228091.079	2421257.064	28.148	0.999932918	228106.381	2421419.498	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 2	45°42'38.29801" N	121°30'45.41521" W	227627.754	2421158.440	38.122	0.999932918	227643.024	2421320.867	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 3	45°42'45.16760" N	121°31'53.80957" W	227858.528	2419662.022	63.336	0.999932918	227873.815	2419844.350	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 4	45°42'45.71033" N	121°32'02.71878" W	227877.745	2419489.569	67.755	0.999932918	227893.033	2419651.884	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 5	45°40'42.49491" N	121°51'13.82374" W	224442.303	2394533.187	*38.932	0.999932918	224457.360	2394693.828	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 6	45°40'55.41864" N	121°50'50.31819" W	224632.721	2395048.440	32.035	0.999932918	224847.804	2395209.115	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 7	45°41'17.40082" N	121°50'20.82569" W	225500.844	2395697.790	*35.252	0.999932918	225515.772	2395858.509	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 8	45°41'28.05905" N	121°50'15.76041" W	225827.821	2395612.819	43.068	0.999932918	225842.971	2395973.546	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 9	45°41'25.65273" N	121°46'39.34267" W	225677.760	2400493.362	43.422	0.999932918	225692.900	2400654.403	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 10	45°41'27.02437" N	121°46'21.04540" W	225713.852	2400889.857	*43.447	0.999932918	225728.994	2401050.924	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 11	45°41'29.53592" N	121°44'04.96461" W	225745.696	2403834.894	30.742	0.999932918	225760.840	2403996.159	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 12	45°41'26.46247" N	121°43'45.81041" W	225644.505	2404247.812	*30.711	0.999932918	225659.643	2404409.105	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 13	45°41'49.19013" N	121°48'13.70853" W	226436.922	2398463.661	*50.625	0.999932918	226452.113	2398624.566	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 14	45°41'48.80978" N	121°48'06.86408" W	226422.794	2398611.521	49.512	0.999932918	226437.984	2398772.436	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 15	45°41'18.28619" N	121°41'28.22823" W	225347.526	2407220.455	36.094	0.999932918	225362.644	2407381.947	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 16	45°41'34.10792" N	121°41'07.48094" W	225829.315	2407676.475	*38.916	0.999932918	225644.465	2407837.997	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 17	45°41'41.76218" N	121°40'23.15450" W	226051.593	2408638.805	36.490	0.999932918	226066.758	2408800.392	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 18	45°41'47.33035" N	121°40'06.98497" W	226218.405	2408991.069	41.589	0.999932918	226233.581	2409152.680	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 19	45°41'57.71887" N	121°38'12.10436" W	226503.629	2411480.606	31.342	0.999932918	226518.824	2411642.384	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 20	45°41'57.84295" N	121°37'52.33229" W	226501.456	2411908.336	31.522	0.999932918	226516.651	2412070.143	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 21	45°42'07.29849" N	121°37'25.09643" W	226785.116	2412501.517	*30.362	0.999932918	226800.330	2412663.363	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 22	45°42'12.50255" N	121°37'13.01737" W	226942.131	2412765.007	29.326	0.999932918	226957.356	2412926.871	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 23	45°42'16.75640" N	121°35'48.10165" W	227048.242	2414603.420	*52.773	0.999932918	227063.474	2414765.407	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
CRH 24	45°42'18.79932" N	121°35'23.97964" W	227104.244	2415125.993	69.333	0.999932918	227119.480	2415288.015	SET 83 mm DIA ALUMINUM DISK ON 19 mm ALUMINUM ROD
DALLESPOINT P44	45°37'04.04340" N	121°10'30.56302" W	217034.745	2447345.773	68.200				FOUND 102 mm DIA BRASS DISK IN A ROUND CONC. MON.
P44	45°41'31.89530" N	121°52'57.98051" W	226005.324	2392305.612	*32.328				FOUND 102 mm DIA BRASS DISK IN A 305 mm SQ. CONC. MON.
PONDER 2	45°42'39.36936" N	121°32'59.76104" W	227697.915	2418253.453	*102.638	0.999932918	227713.190	2418415.685	FOUND 102 mm DIA BRASS DISK IN A 305 mm SQ. CONC. MON.

NOTE: MONUMENTS CRH 1 THRU CRH 24 WERE SET APRIL 9TH TO APRIL 15TH 1999.



* SEE NARRATIVE

CRH 7 N. 225500.844 2395697.790 AFFIDAVIT OF CORRECTION
 CRH 8 E. 225827.821 2395612.819 MF NO. 20021355



LEGEND	
SPC OR N	STATE PLANE COORDINATE OREGON NORTH ZONE
	FOUND HORIZONTAL CONTROL STATION
	GPS VECTOR
	SET CONTROL MONUMENT AS NOTED
mm	MILLIMETER

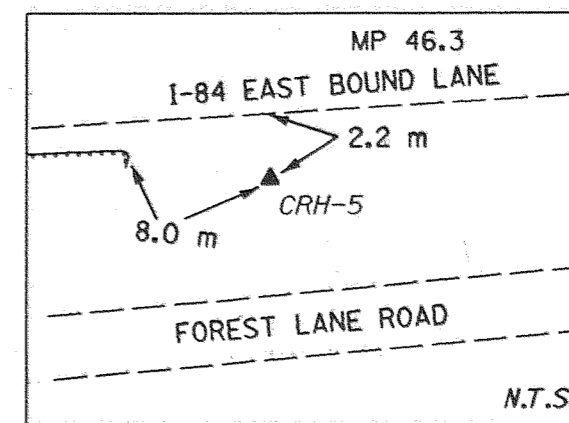
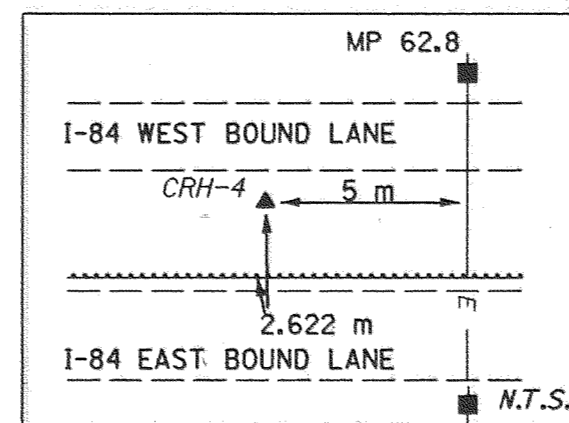
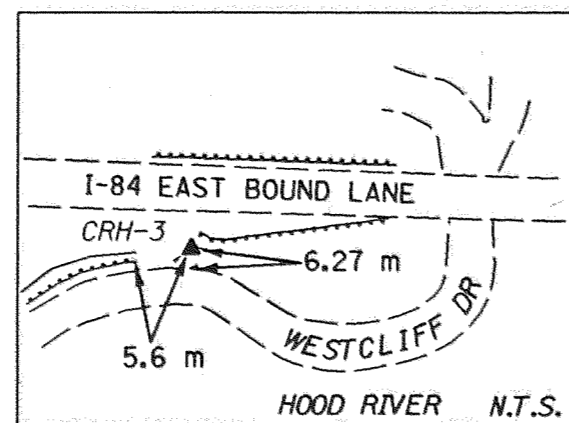
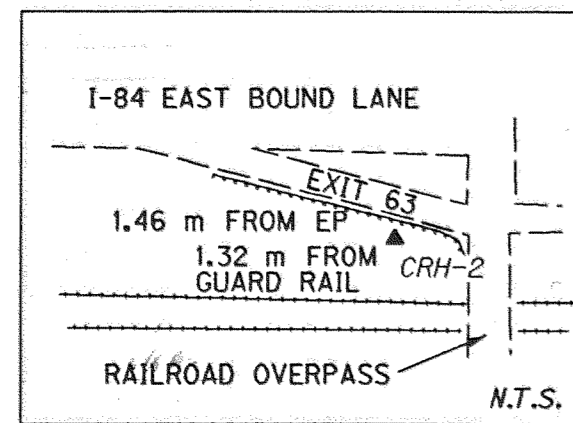
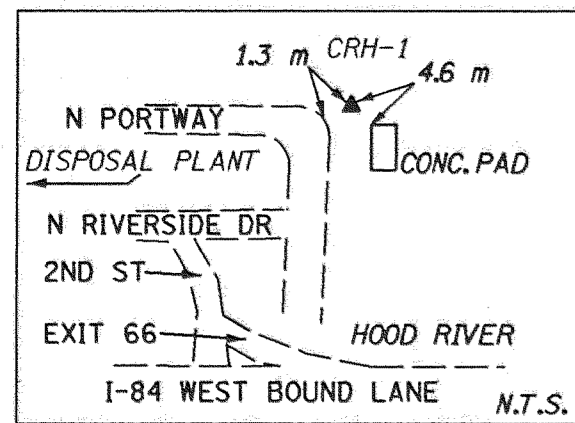
FILED
 MAY 12 2000
 COUNTY SURVEYOR
 DEPUTY
 REGISTERED PROFESSIONAL LAND SURVEYOR
 DOYLE L. ANDERSON
 2567
 EXPIRES 12/31/1999

METRIC SURVEY
 1 INTERNATIONAL FOOT = 0.3048 METERS
W&H PACIFIC
 8405 SW NIMBUS AVE.
 BEAVERTON, OREGON 97008-7120
 TEL: (503)626-0455
 FAX: (503)526-0775
 WWW.WHPACIFIC.COM

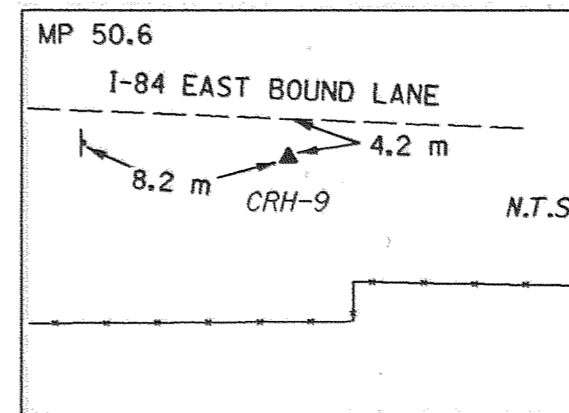
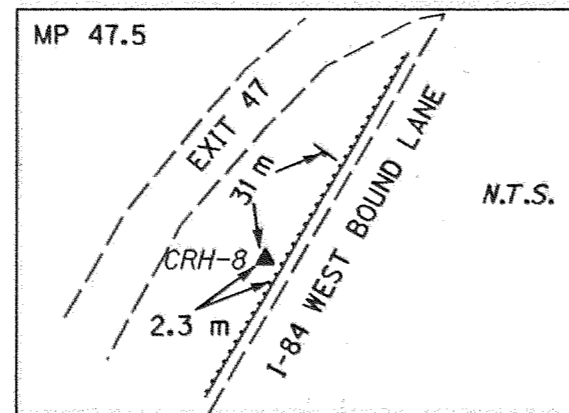
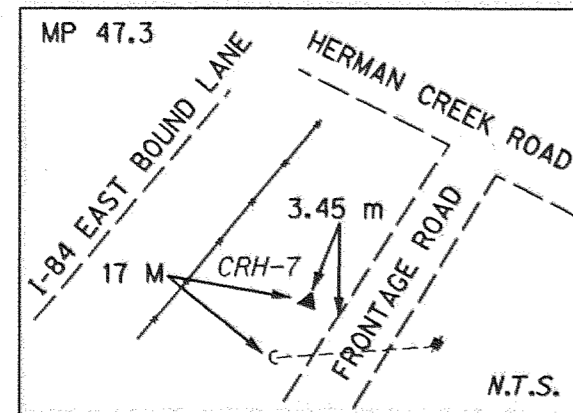
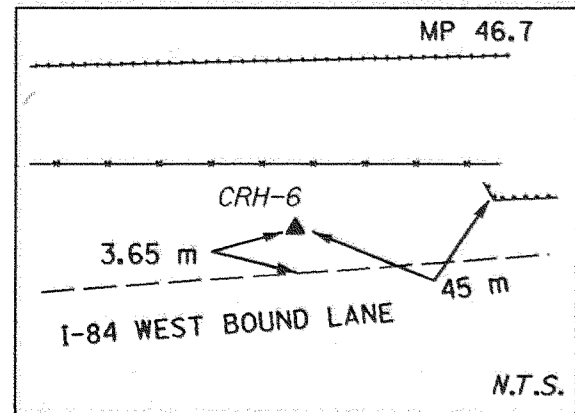
OREGON DEPT. OF TRANSPORTATION
 GPS CONTROL
 RECORD OF SURVEY
 CASCADE LOCKS-MITCHELL POINT-
 HOOD RIVER INTERCHANGE
 HOOD RIVER COUNTY
 SEPTEMBER 7, 1999
 FOR O.D.O.T REGION 1 SURVEY GROUP
 123 NW FLANDERS, PORTLAND, OR. 97209-4037
 O.D.O.T. CONTRACT NO. 16925
 KEY NO. 07969
 KEY NO. 08258
 SHEET 1 OF 2

CADD FILE NAME: 07969HOR.DGN
 WHP PROJECT * 04.2658.3002

2000 037



LEGEND	
---	EDGE OF PAVEMENT
—+—+—+—	FENCE
—+—+—+—+—	GUARD RAIL
☼	LUMINAIRE
MP	MILE POST
•	POWER POLE
—+—+—+—	RAILROAD
—	SIGN



NARRATIVE

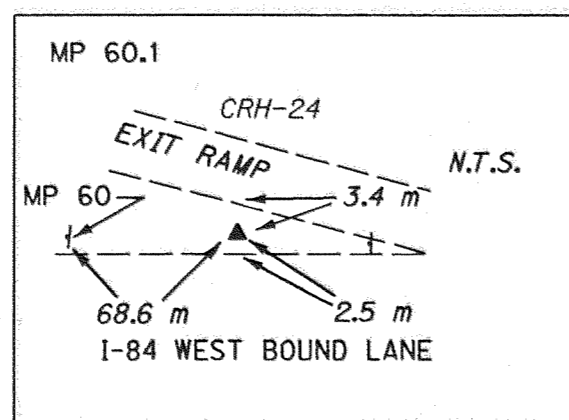
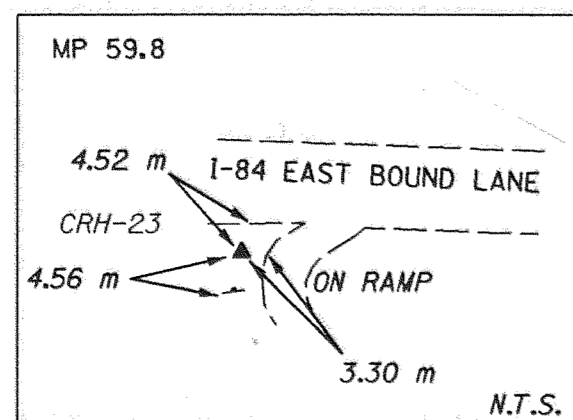
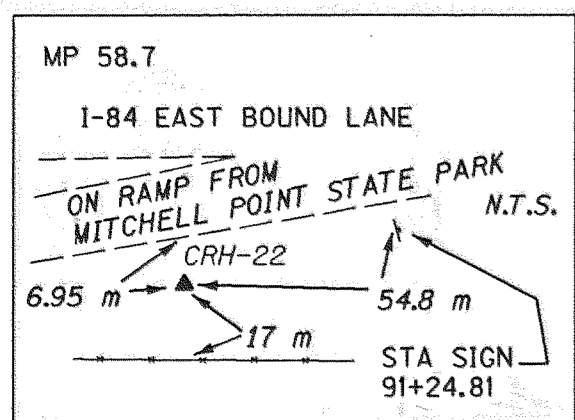
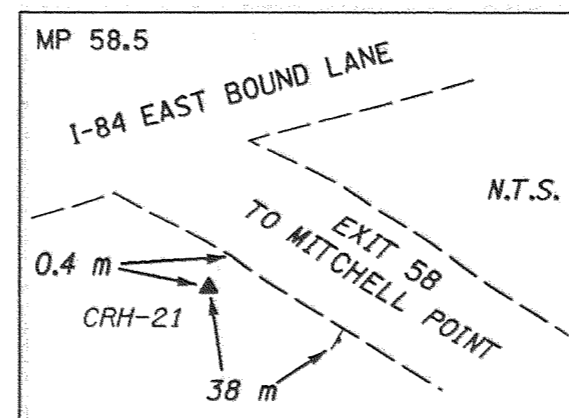
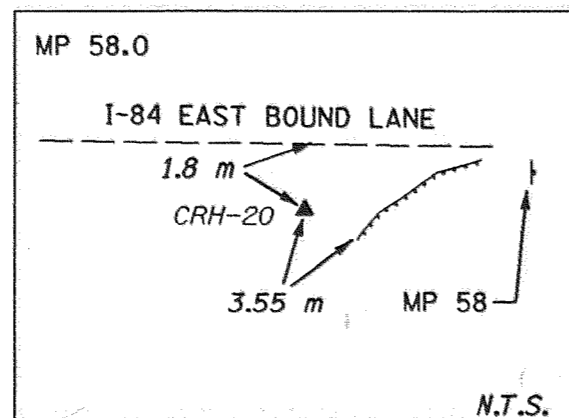
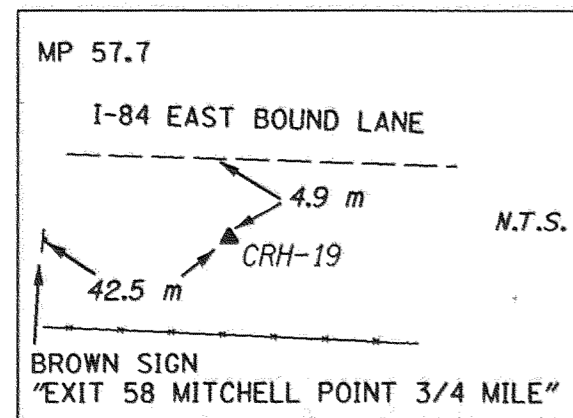
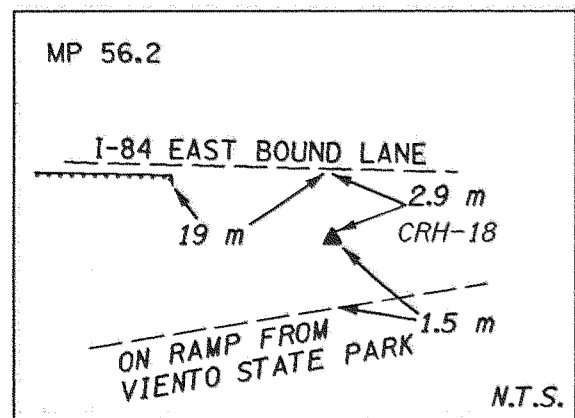
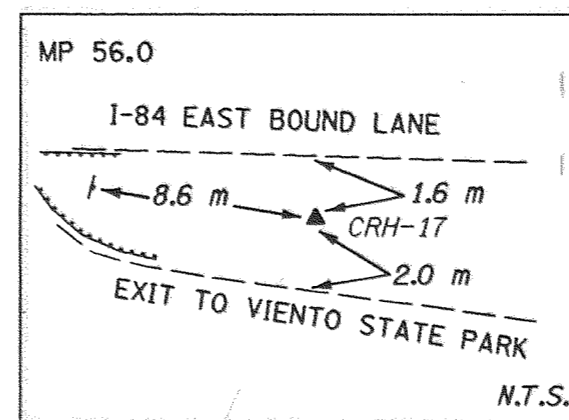
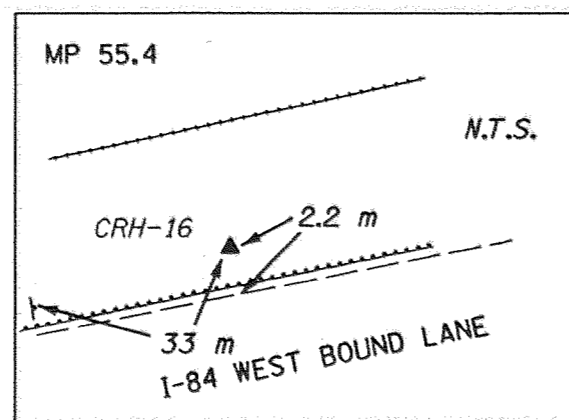
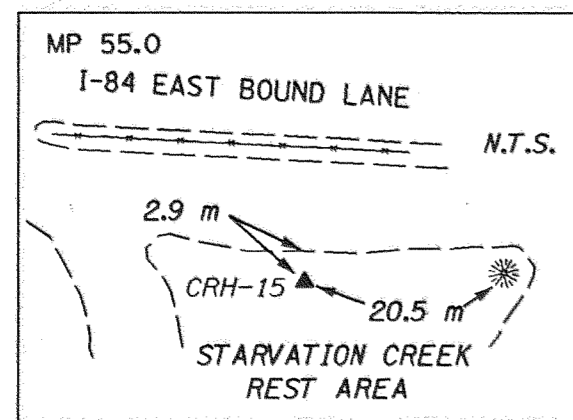
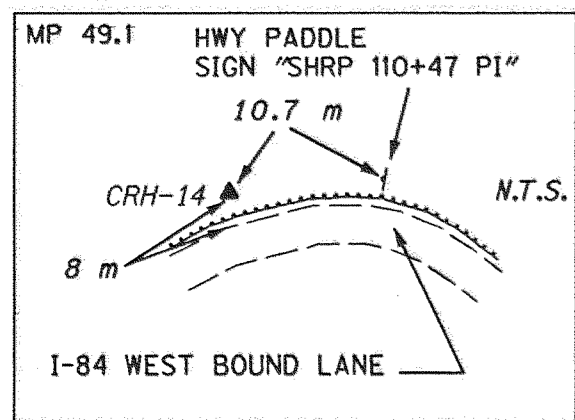
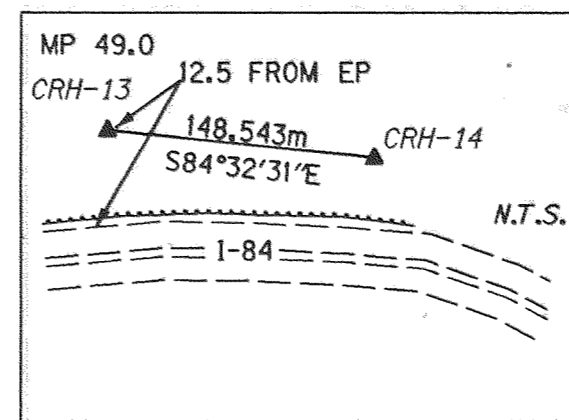
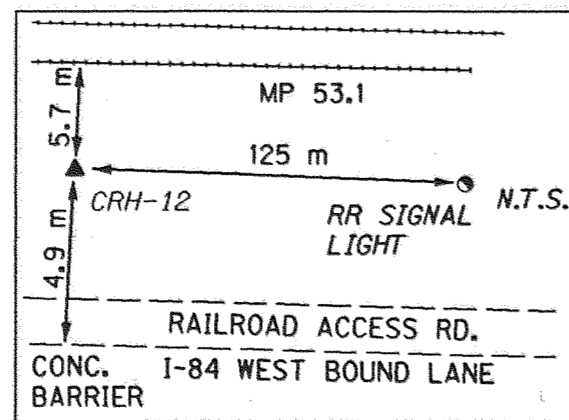
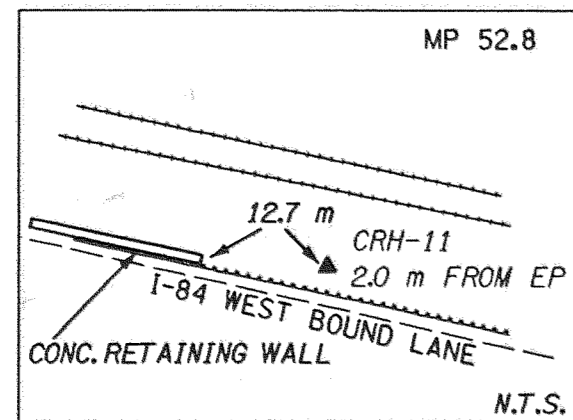
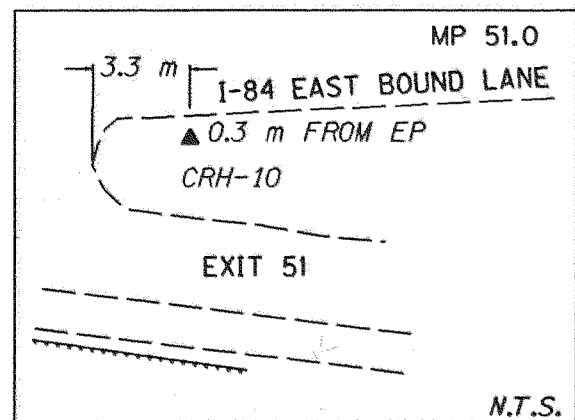
THE PURPOSE OF THIS SURVEY IS TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL FOR TOPOGRAPHIC MAPPING OF INTERSTATE 84 FROM MILE POST 46 TO MILEPOST 63.

FIELD OBSERVATIONS WERE TAKEN ON APRIL 15 AND 16, 1999 UTILIZING 4 TRIMBLE 4000 SSE/SSI DUAL FREQUENCY RECEIVERS WITH COMPACT L1/L2 ANTENNAE WITH REMOVABLE GROUND PLANES. DATA WAS COLLECTED AT 5 SECOND EPOCHS FOR A MINIMUM OF 30 MINUTES AT EACH CONTROL STATION.

ALL FIELD DATA WAS PROCESSED INTO VECTORS UTILIZING TRIMBLES GPSURVEY VERSION 2.3 BASELINE PROCESSOR. THE NETWORK WAS THEN ADJUSTED IN TRIMNET PLUS VERSION 2.3. THE HORIZONTAL DATUM IS NAD 83 (91) AND HARN STATIONS "DALLESPORT", "P44" AND "PONDER 2" WERE USED AS THE CONSTRAINING CONTROL FOR THE HORIZONTAL NETWORK.

A WILD NA2002 DIGITAL LEVEL WAS USED TO RUN LEVELS FROM NGS BENCHMARKS "BREAK 2", "BM 95" AND "BM 489" TO NETWORK POINTS "CRH5", "CRH7", "CRH10", "CRH12", "CRH13", "CRH16", "CRH21" AND "CRH23". ELEVATIONS ON THESE POINTS WERE HELD IN THE VERTICAL ADJUSTMENT ALONG WITH PUBLISHED DATA ON "PONDER 2" AND "P44" TO PRODUCE ELEVATIONS ON THE REMAINING POINTS. THE VERTICAL DATUM IS NAVD 88.

THE RESULTS PRODUCED LATITUDE, LONGITUDE AND STATE PLANE COORDINATES. STATE PLANE COORDINATES WERE CONVERTED TO A LOCAL DATUM PLANE BY DIVIDING EACH COORDINATE BY A COMBINED FACTOR OF 0.999932918.



METRIC SURVEY
1 INTERNATIONAL FOOT = 0.3048 METERS

W&H PACIFIC

8405 SW NIMBUS AVE.
BEAVERTON, OREGON
97008-7120
TEL: (503)626-0455
FAX: (503)526-0775
WWW.WHPACIFIC.COM



REGISTERED PROFESSIONAL LAND SURVEYOR
Doyle L. Anderson
OREGON
JAN. 19, 1993
DOYLE L. ANDERSON
2567
EXPIRES 12/31/1999

FILED
MAY 12 2000
Doyle L. Anderson
COUNTY SURVEYOR
DEPUTY

OREGON DEPT. OF TRANSPORTATION
GPS CONTROL
RECORD OF SURVEY
CASCADE LOCKS-MITCHELL POINT-
HOOD RIVER INTERCHANGE
HOOD RIVER COUNTY
SEPTEMBER 7, 1999
FOR O.D.O.T REGION 1 SURVEY GROUP
123 NW FLANDERS, PORTLAND, OR. 97209-4037
O.D.O.T. CONTRACT NO. 16925
KEY NO. 07969
KEY NO. 08258
SHEET 2 OF 2

CADD FILE NAME: 07969HOR.DGN
WHP PROJECT # 04.2658.3002